

# EPB PLASTERBOARD **NOISE CONTROL** SYSTEMS March 2025

www. elephantplasterboard.co.nz

#### **EPB Plasterboard Noise Control Systems Manual**

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#### Introducing new 10mm EPB FireSmart &10mm EPB CeilingSmart®

10mm EPB FireSmart is a higher density board compared to10mm EPB Standard and provides enhance fire performance.

10mm EPB CeilingSmart is especially developed to span ceiling battens at 600mm centers providing a light weight and cost effective ceiling lining solution compared to using 10mm Standard Plasterboard at 450mm centres or 13mm Standard Plasterboard at 600mm centre. All past and future references and installations of 10mm Standard-Plus is interchangeable with 10mm EPB FireSmart and vice versa.

#### **Elephant Plasterboard (NZ) Limited Product & System Warranty**

EPB Plasterboard wall and ceiling linings are supported by Elephant Plasterboard (NZ) Limited Quality Guarantee. This Warranty covers EPB Plasterboard products and or systems for a minimum of 10 years from the date of the purchase. Elephant Plasterboard (NZ) Limited supplies products which are warranted to be free from defects. Any products found to be defective before or after installation will be replaced and/or repaired, provided installation has been in accordance with EPB Plasterboard's technical literature.

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Steel Double Framed wall Steel Double Frame wall

Quiet Steel Frame Staggered Steel Stud

Steel Frame with Resilient Mount Steel Frame with Resilient Rail

Suspended Grid - Floor/Ceiling

Direct Fix Clip - Floor/Ceiling - Timber Joist

Direct Fix Clip - Floor/Ceiling - Steel Joist

Steel Double Frame wall with MultiSmart Central Liner

### Full Intertenancy - Fire Rated Walls

System	Lining	FRR	Load Noise Bearing Control			Lining Requirements	Page
Number	Suffix	FNN	Ability	STC	Rw		Fage
Timber I	Double	e Frame Wa	ills - Loa	d Bea	aring		
	-F30	30/30/30	LB	55	54	1 x 10mm EPB FireSmart one side 2 x 10mm EPB FireSmart other side	33
E3TDLA30	-\$39	30/30/30	LB	57	56	1 x 13mm EPB Standard one side 2 x 13mm EPB Standard other side	33
	-M30	30/30/30	LB	58	57	1 x 10mm EPB MultiSmart one side 2 x 10mm EPB MultiSmart other side	33
E4TDLA45	-S40	45/45/45	LB	58	57	2 x 10mm EPB Standard each side	34
E2TDLA60	-M26	60/60/60	LB	55	54	1 x 13mm EPB MultiSmart each side	35
	-MS39	60/60/60	LB	58	57	1 x 13mm EPB MultiSmart one side 2 x 13mm EPB Standard other side	36
E3TDLA60	-M33	60/60/60	LB	59	58	1 x 13mm EPB MultiSmart one side 2 x 10mm EPB MultiSmart other side	36
	-M39	60/60/60	LB	61	60	1 x 13mm EPB MultiSmart one side 2 x 13mm EPB MultiSmart other side	36
	-S46	60/60/60	LB	59	58	1 x 10mm EPB Standard and 1 x 13mm EPB Standard each side	37
E4TDLA60	-F40	60/60/60	LB	60	59	2 x 10mm EPB FireSmart each side	37
LATELNO	-\$52	60/60/60	LB	61	60	2 x 13mm EPB Standard each side	37
	-M40	60/60/60	LB	62	61	2 x 10mm EPB MultiSmart each side	37
E2TDLA75	-F32	75/75/75	LB	56	55	1 x 16mm EPB FireSmart each side	38
E4TDLA90	-F52	90/90/90	LB	64	63	2 x 13mm EPB FireSmart each side	39
	-M52	90/90/90	LB	67	66	2 x 13mm EPB MultiSmart each side	39
Timber S	Single I	Frame Wall	ls with R	esilie	ent N	lount - Load Bearing	
E3TMLA30	-\$39	30/30/30	LB	55	54	Framing Side: 1 x 13mm EPB Standard Mount Side: 2 x 13mm EPB Standard	40
	-M30	30/30/30	LB	56	55	Framing Side: 1 x 10mm EPB MultiSmart Mount Side: 2 x 10mm EPB MultiSmart	40
E4TMLA30	-F40	30/30/30	LB	58	57	Framing Side: 2 x 10mm EPB FireSmart Mount Side: 2 x 10mm EPB FireSmart	41
E4TMLA45	-\$52	45/45/45	LB	61	60	Framing Side: 2 x 13mm EPB Standard Mount Side: 2 x 13mm EPB Standard	42
E3TMLA60	-M39	60/60/60	LB	58	57	Framing Side: 1 x 13mm EPB MultiSmart Mount Side: 2 x 13mm EPB MultiSmart	43
E4TMLA60	-M40	60/60/60	LB	62	61	Framing Side: 2 x 10mm EPB MultiSmart Mount Side: 2 x 10mm EPB MultiSmart	44
E4TMLA90	-M52	90/90/90	LB	63	62	Framing Side: 2 x 13mm EPB MultiSmart Mount Side: 2 x 13mm EPB MultiSmart	45
Timber S	Single I	Frame Wall	ls with R	esilie	ent R	ail - Load Bearing	
E4TRLA45	-\$52	45/45/45	LB	55	54	Framing Side: 2 x 13mm EPB Standard Rail Side: 2 x 13mm EPB Standard	46
E4TRLA60	-M40	60/60/60	LB	55	54	Framing Side: 2 x 10mm EPB MultiSmart Rail Side: 2 x 10mm EPB MultiSmart	47
E4TRLA90	-F52	90/90/90	LB	56	55	Framing Side: 2 x 13mm EPB FireSmart Rail Side: 2 x 13mm EPB FireSmart	48
	-M52	90/90/90	LB	57	56	Framing Side: 2 x 13mm EPB MultiSmart Rail Side: 2 x 13mm EPB MultiSmart	48

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### Full Intertenancy - Fire Rated Walls

System	Lining	FRR	Load Bearing		ise trol	Lining Requirements	Page
Number	Suffix		Ability	STC	Rw		
Steel Do	uble F	rame Walls	- Non L	oad	Beari	ing	
E3SDA30	-\$39	-/30/30	NLB	55	54	1 x 13mm EPB Standard one side 2 x 13mm EPB Standard other side	50
LJJDAJU	-M30	-/30/30	NLB	56	55	1 x 10mm EPB MultiSmart one side 2 x 10mm EPB MultiSmart other side	50
E4SDA45	-F40	-/45/45	NLB	58	57	2 x 10mm EPB FireSmart each side	51
E2SDA60	-M26	-/60/60	NLB	55	54	1 x 13mm EPB MultiSmart each side	52
	-MS39	-/60/60	NLB	57	56	1 x 13mm EPB MultiSmart one side 2 x 13mm EPB Standard other side	53
	-FM33	-/60/60	NLB	58	57	1 x 13mm EPB FireSmart one side 2 x 10mm EPB MultiSmart other side	53
E3SDA60	-M33	-/60/60	NLB	58	57	1 x 13mm EPB MultiSmart one side 2 x 10mm EPB MultiSmart other side	53
	-M39	-/60/60	NLB	61	60	1 x 13mm EPB MultiSmart one side 2 x 13mm EPB MultiSmart other side	53
	-\$52	-/60/60	NLB	61	60	2 x 13mm EPB Standard each side	54
E4SDA60	-M40	-/60/60	NLB	61	60	2 x 10mm EPB MultiSmart each side	54
E2SDA75	-F32	-/75/75	NLB	56	55	1 x 16mm EPB FireSmart each side	55
E4SDA75	-MS52	-/75/75	NLB	63	62	1 x 13mm EPB Standard and 1x13mm EPB MultiSmart each side	56
	-F52	-/90/90	NLB	62	61	2 x 13mm EPB FireSmart each side	57
E4SDA90	-M46	-/90/90	NLB	63	62	1 x 10mm EPB MultiSmart and 1 x 13mm EPB MultiSmart each side	57
	-M52	-/90/90	NLB	65	64	2 x 13mm EPB MultiSmart each side	57
Steel Do	uble F	rame Walls	- Load	Beari	ng		
	-M26	30/30/30	LB	55	54	1 x 13mm EPB MultiSmart each side	58
E2SDLA30	-F32	30/30/30	LB	56	55	1 x 16mm EPB FireSmart each side	58
	-MF33	30/30/30	LB	58	57	1 x 13mm EPB MultiSmart one side 2 x 10mm EPB FireSmart other side	59
E3SDLA30	-M39	30/30/30	LB	61	60	1 x 13mm EPB MultiSmart one side 2 x 13mm EPB MultiSmart other side	59
E4SDLA30	-F40	30/30/30	LB	59	58	2 x 10mm EPB FireSmart each side	60
	-\$52	45/45/45	LB	61	60	2 x 13mm EPB Standard each side	61
E4SDLA45	-M40	45/45/45	LB	61	60	2 x 10mm EPB MultiSmart each side	61
E4SDLA60	-M52	60/60/60	LB	65	64	2 x 13mm EPB MultiSmart each side	62
E4SDLA90	-F64	90/90/90	LB	66	65	1 x 16mm EPB FireSmart each side	63

### Full Intertenancy - Fire Rated Walls

System Number	Lining Suffix	FRR	Load Bearing Ability	No Con STC	ise trol Rw	Lining Requirements	Page
Steel Do	uble F	rame Walls	with Fi	reSm	art C	Central Liner - Non Load Bearing	
	-MS46	-/60/60	NLB	56	56	1 x 13mm EPB FireSmart and 1 x 10mm EPB Standard each side	64
E4CSDA60	-MS52	-/60/60	NLB	57	58	1 x 13mm EPB FireSmart And 1 x 13mm EPB Standard each side	64
Steel Fra	ame Wa	alls with Re	silient N	Лоип	t - N	on Load Bearing	
E3SMA30	-M30	-/30/30	NLB	55	54	Frame Side: 1 x 10mm EPB MultiSmart Mount Side: 2 x 10mm EPB MultiSmart	66
E4SMA30	-F40	-/30/30	NLB	56	55	Frame Side: 2 x 10mm EPB FireSmart Mount Side: 2 x 10mm EPB FireSmart	67
	-MS39	-/60/60	NLB	56	55	Frame Side: 1 x 13mm EPB MultiSmart Mount Side: 2 x 13mm EPB Standard	68
E3SMA60	-M39	-/60/60	NLB	57	56	Frame Side: 1 x 13mm EPB MultiSmart Mount Side: 2 x 13mm EPB MultiSmart	68
	-S52	-/60/60	NLB	58	57	Frame Side: 2 x 13mm EPB Standard Mount Side: 2 x 13mm EPB Standard	69
E4SMA60	-M40	-/60/60	NLB	59	58	Frame Side: 2 x 10mm EPB MultiSmart Mount Side: 2 x 10mm EPB MultiSmart	69
	-M46	-/90/90	NLB	60	59	Frame Side: 1 x 13mm EPB MultiSmart and 1 x 10mm EPB MultiSmart Mount Side: 1 x 13mm EPB MultiSmart and 1 x 10mm EPB MultiSmart	70
E4SMA90	-M52	-/90/90	NLB	62	61	Frame Side: 2 x 13mm EPB MultiSmart Mount Side: 2 x 13mm EPB MultiSmart	70
Steel Fra	ame Wa	alls with Re	silient F	Rail -	Non	Load Bearing	
FACEACO	-S52	-/60/60	NLB	55	54	Frame Side: 2 x 13mm EPB Standard Rail Side: 2 x 13mm EPB Standard	71
E4SRA60	-M40	-/60/60	NLB	56	55	Frame Side: 2 x 10mm EPB MultiSmart Rail Side: 2 x 10mm EPB MultiSmart	71
	-M46	-/90/90	NLB	57	56	Frame Side: 1 x 13mm EPB MultiSmart and 1 x 10mm EPB MultiSmart Rail Side: 1 x 13mm EPB MultiSmart and 1 x 10mm EPB MultiSmart	72
E4SRA90	-F52	-/90/90	NLB	57	56	Frame Side: 2 x 13mm EPB FireSmart Rail Side: 2 x 13mm EPB FireSmart	72
	-M52	-/90/90	NLB	59	58	Frame Side: 2 x 13mm EPB MultiSmart Rail Side: 2 x 13mm EPB MultiSmart	72
Quiet St	eel Fra	me Walls -	Non Lo	ad Be	arin	ġ	
E4SQA30	-F40	-/30/30	NLB	55	54	2 x 10mm EPB FireSmart each side	74
E4SQA45	-S46	-/45/45	NLB	56	55	1x 10mm EPB Standard and 1 x 13mm Standard each side	75
	-M33	-/60/60	NLB	55	54	1 x 13mm EPB MultiSmart one side 2 x 10mm EPB MultiSmart other side	76
E3SQA60	-M36	-/60/60	NLB	55	54	1 x 13mm EPB MultiSmart one side 1 x 10mm EPB MultiSmart and 1 x 13mm EPB MultiSmart other side	76
	-M39	-/60/60	NLB	57	56	1 x 13mm EPB MultiSmart one side 2 x 13mm EPB MultiSmart other side	76
EASOAGO	-\$52	-/60/60	NLB	57	56	2 x 13mm EPB Standard each side	77
E4SQA60	-M40	-/60/60	NLB	57	56	2 x 10mm EPB MultiSmart each side	77
E4SQA75	-MS52	-/75/75	NLB	59	58	1 x13mm EPB MultiSmart and 1x13mm EPB Standard each side	78
EASOADO	-M46	-/90/90	NLB	59	58	1 x 10mm EPB MultiSmart and 1 x 13mm EPB MultiSmart each side	79
E4SQA90	-M52	-/90/90	NLB	61	60	2 x 13mm EPB MultiSmart each side	79





### Full Intertenancy - Fire Rated Walls

System	Lining	FRR	Load Bearing	No Con	ise trol	Lining Requirements	Page
Number	Suffix		Ability	STC	Rw		
Stagger	ed Stee	el Stud Wal	ls - Non	Load	d Bea	ring	
E3SSA30	-\$39	-/30/30	NLB	55	54	1 x 13mm EPB Standard on One side 2 x 13mm EPB Standard on Other side	80
E4SSA45	-F40	-/45/45	NLB	56	55	2 x 10mm EPB FireSmart each side	81
F266460	-MS39	-/60/60	NLB	56	55	1 x 13mm EPB MultiSmart one side 2 x 13mm EPB Standard other side	82
E3SSA60	-M39	-/60/60	NLB	57	56	1 x 13mm EPB MultiSmart one side 2 x 13mm EPB MultiSmart other side	82
E4SSA60	-S52	-/60/60	NLB	59	58	2 x 13mm EPB Standard each side	83
E4SSA90	-M46	-/90/90	NLB	59	58	1 x 10mm EPB MultiSmart and 1 x 13mm EPB MultiSmart each side	84
6433890	-M52	-/90/90	NLB	62	61	2 x 13mm EPB MultiSmart each side	84

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### Full Intertenancy - Fire Rated Floor/Ceilings

System Number	Lining Suffix	FRR	Load Bearing Ability	STC	Noise Control Rw	IIC	Lining Requirements	Page
Direct Fix	Clip - F	loating Flo	oor/Ceili	ing -	Timb	er Joi	ist	
	-FS26	60/60/60	LB	66	65	57-76	1 x 13mm EPB FireSmart and 1 x 13mm EPB Standard	86
EFJ2DFA60	-F26	60/60/60	LB	67	66	57-76	2 x 13mm EPB FireSmart	86
	-M26	60/60/60	LB	68	67	57-77	2 x 13mm EPB MultiSmart	86
	-FS26	60/60/60	LB	63	62	55-72	1 x 13mm EPB FireSmart and 1 x 13mm EPB Standard	88
EFP2DFA60	-F26	60/60/60	LB	64	63	55-72	2 x 13mm EPB FireSmart	88
	-M26	60/60/60	LB	65	64	56-72	2 x 13mm EPB MultiSmart	88
<b>Direct Fix</b>	Clip - F	loating Flo	oor/Ceili	ing -	Steel	Joist		
EFJ2DFsA45	-F26	45/45/45	LB	66	65	56-76	2 x 13mm EPB FireSmart	90
	-M26	45/45/45	LB	67	66	56-76	2 x 13mm EPB MultiSmart	90
EFP2DFsA45	-F26	45/45/45	LB	63	62	55-72	2 x 13mm EPB FireSmart	92
	-M26	45/45/45	LB	64	63	55-72	2 x 13mm EPB MultiSmart	92
EFJ2DFsA60	-F29	60/60/60	LB	67	66	56-76	1 x 13mm EPB FireSmart and 1 x 16mm EPB FireSmart	94
EFP2DFsA60	-F29	60/60/60	LB	64	63	56-72	1 x 13mm EPB FireSmart and 1 x 16mm EPB FireSmart	96
<b>Direct Fix</b>	Clip - F	loor/Ceilir	ng - Tim	ber J	oist			
	-FS26	60/60/60	LB	56	55	46-73	1 x 13mm EPB FireSmart and 1 x 13mm EPB Standard	98
E2DFA60	-F26	60/60/60	LB	57	56	46-73	2 x 13mm EPB FireSmart	98
	-M26	60/60/60	LB	58	57	46-73	2 x 13mm EPB MultiSmart	98
E2DFA90	-FM29	90/90/90	LB	57	56	47-73	1 x 16mm EPB FireSmart and 1 x 13mm EPB MultiSmart	99
	-F32	90/90/90	LB	58	57	47-73	2 x 16mm EPB FireSmart	99
Suspende	d Grid	Floor/Ceili	ng - Tin	nber	Joist			
	-MS26	60/60/60	LB	56	55	40-72	1 x 13mm EPB MultiSmart and 1 x 13mm EPB Standard	100
E2SCA60	-F26	60/60/60	LB	56	55	40-72	2 x 13mm EPB FireSmart	100
	-M26	60/60/60	LB	56	55	40-72	2 x 13 EPB MultiSmart	100
E2SCA75	-F29	75/75/75	LB	57	56	47-72	1 x 16mm EPB FireSmart and 1 x 13mm EPB FireSmart	101
E2SCA90	-F32	90/90/90	LB	57	56	40-73	2 x 16mm EPB FireSmart	102
<b>Direct Fix</b>	Clip - F	loor/Ceilir	ng - Stee	el Joi	st			
E2DFsA45	-F26	45/45/45	LB	56	55	47-74	2 x 13mm EPB FireSmart	103
	-M26	45/45/45	LB	57	56	47-74	2 x 13mm EPB MultiSmart	103
E2DFsA60	-FM29	60/60/60	LB	57	56	47-75	1 x 16mm EPB FireSmart and 1 x 13mm EPB MultiSmart	104
	-F32	60/60/60	LB	57	56	47-75	2 x 16mm EPB FireSmart	104



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### Sub Intertenancy - Walls

System Number	Lining Suffix	FRR	Load Bearing	Con	ise trol	Lining Requirements	Page
			Ability	STC	Rw		
Single Ti	mber Fr	ame Walls -	Load Bea	aring			
	-S20	30/30/30	LB	39	38	1 x 10mm EPB Standard each side	106
E2TLa30	-S26	30/30/30	LB	40	39	1 x 13mm EPB Standard each side	106
	-M20	30/30/30	LB	41	40	1 x 10mm EPB MultiSmart each side	106
	-\$30	30/30/30	LB	42	41	1 x 10mm EPB Standard one side 2 x 10mm EPB Standard other side	107
E3TLa30	-\$39	30/30/30	LB	43	42	1 x 13mm EPB Standard one side 2 x 13mm EPB Standard other side	107
	-M30	30/30/30	LB	44	43	1 x 10mm EPB MultiSmart on One side 2 x 10mm EPB MultiSmart on Other side	107
E4TLa45	-\$40	45/45/45	LB	44	43	2 x 10mm EPB Standard each side	108
E2TLa60	-M26	60/60/60	LB	42	41	1 x 13mm EPB MultiSmart each side	109
	-MS39	60/60/60	LB	45	44	1 x 13mm EPB MultiSmart one side 2 x 13mm EPB Standard other side	110
E3TLa60	-M33	60/60/60	LB	45	44	1 x 13mm EPB MultiSmart one side 2 x 10mm EPB MultiSmart other side	110
	-M39	60/60/60	LB	46	45	1 x 13mm EPB MultiSmart one side 2 x 13mm EPB MultiSmart other side	110
	-S46	60/60/60	LB	45	44	1 x 10mm EPB Standard and 1 x 13mm EPB Standard each side	111
	-\$52	60/60/60	LB	46	45	2 x 13mm EPB Standard each side	111
	-M40	60/60/60	LB	46	45	2 x 10mm EPB MultiSmart each side	111
E4TLa90	-M52	90/90/90	LB	48	47	2 x 13mm EPB MultiSmart each side	112
Double T	imber F	rame Walls	- Load Be	aring	)		
	-S20	30/30/30	LB	50	49	1 x 10mm EPB Standard each side	113
E2TDLa30	-S26	30/30/30	LB	52	51	1 x 13mm EPB Standard each side	113
	-M20	30/30/30	LB	52	51	1 x 10mm EPB MultiSmart each side	113
Single Ti	mber Fr	ame Walls w	ith Resil	ient N	loun	t- Load Bearing	
E3TMLa30	-\$30	30/30/30	LB	52	51	Frame Side: 1 x 10mm EPB Standard Mount Side: 2 x 10mm EPB Standard	114
Single Ti	mber Fr	ame Walls w	ith Resil	ient R	ail- L	oad Bearing	·
_	-\$30	30/30/30	LB	47	46	Frame Side: 1 x 10mm EPB Standard Rail Side: 2 x 10mm EPB Standard	115
E3TRLa30	-\$39	30/30/30	LB	50	49	Frame Side: 1 x 13mm EPB Standard Rail Side: 2 x 13mm EPB Standard	115
	-M30	30/30/30	LB	51	50	Frame Side: 1 x 10mm EPB MultiSmart Rail Side: 2 x 10mm EPB MultiSmart	115
	-MS39	60/60/60	LB	52	50	Frame Side: 1 x 13mm EPB MultiSmart Rail Side: 2 x 13mm EPB Standard	116
E3TRLa60	-M39	60/60/60	LB	52	51	Frame Side: 1 x 13mm EPB MultiSmart Rail Side: 2 x 13mm EPB MultiSmart	116

### Sub Intertenancy - Walls

System Number	Lining Suffix	FRR	Load Bearing Ability		ise trol Rw	Lining Requirements	Page
Single St	eel Fran	ne Walls - No	on Load E	Bearir	ng		
E2Sa15	-S20	-/15/15	NLB	40	39	1 x 10mm EPB Standard each side	118
525-20	-S26	-/30/30	NLB	41	40	1 x 13mm EPB Standard each side	119
E2Sa30	-M20	-/30/30	NLB	42	41	1 x 10mm EPB MultiSmart each side	119
	-\$33	-/30/30	NLB	43	42	1 x 13mm EPB Standard one side 2 x 10mm EPB Standard other side	120
E3Sa30	-\$39	-/30/30	NLB	44	42	1 x 13mm EPB Standard one side 2 x 13mm EPB Standard other side	120
	-M30	-/30/30	NLB	44	43	1 x 10mm EPB MultiSmart one side 2 x 10mm EPB MultiSmart other side	120
E4Sa45	-S40	-/45/45	NLB	45	44	2 x 10mm EPB Standard each side	121
E2Sa60	-M26	-/60/60	NLB	43	42	1 x 13mm EPB MultiSmart each side	122
505 60	-MS39	-/60/60	NLB	44	43	1 x 13mm EPB MultiSmart one side 2 x 13mm EPB Standard other side	123
E3Sa60	-M39	-/60/60	NLB	45	44	1 x 13mm EPB MultiSmart one side 2 x 13mm EPB MultiSmart other side	123
	-S46	-/60/60	NLB	46	45	1 x 10mm EPB Standard and 1 x 13mm EPB Standard each side	124
E4Sa60	-S52	-/60/60	NLB	48	47	2 x 13mm EPB Standard each side	124
	-M40	-/60/60	NLB	48	47	2 x 10mm EPB MultiSmart each side	124
E4Sa90	-M46	-/90/90	NLB	50	49	1 x 10mm EPB MultiSmart and 1 x 13mm EPB MultiSmart each side	125
E4Sa105	-M52	-/105/105	NLB	52	51	2 x 13mm EPB MultiSmart each side	126
Single St	eel Fran	ne Walls - Lo	ad Beari	ng			
E2SLa30	-M26	30/30/30	LB	43	42	1 x 13mm EPB MultiSmart each side	127
E3SLa30	-M39	30/30/30	LB	45	44	1 x 13mm EPB MultiSmart one side 2 x 13mm EPB MultiSmart other side	128
E4SLa30	-S40	30/30/30	LB	45	44	2 x 10mm EPB Standard each side	129
<b>F461 - 45</b>	-S52	45/45/45	LB	48	47	2 x 13mm EPB Standard each side	130
E4SLa45	-M40	45/45/45	LB	48	47	2 x 10mm EPB MultiSmart each side	130
E4SLa60	-M52	60/60/60	LB	52	51	2 x 13mm EPB MultiSmart each side	131
E4SLa90	-F64	90/90/90	LB	53	52	2 x 16mm EPB FireSmart each side	132
Double S	teel Fra	me Walls - N	Ion Load	Bear	ing		
E2SDa30	-S26	-/30/30	NLB	52	51	1 x 13mm EPB Standard each side	133
2250050	-M20	-/30/30	NLB	52	51	1 x 10mm EPB MultiSmart each side	133



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### Sub Intertenancy - Walls

System	Lining	FRR	Load Bearing	Noise Control		Lining Requirements	Page
Number	Suffix		Ability	STC	Rw		
Steel Fra	me Wall	s with Resili	ent Rail-	Non	Load	Bearing	
E3SRa30	-\$39	-/30/30	NLB	51	50	Frame Side: 1 x 13mm EPB Standard Rail Side: 2 x 13mm EPB Standard	134
E33K830	-M30	-/30/30	NLB	51	50	Frame Side: 1 x 10mm EPB MultiSmart Rail Side: 2 x 10mm EPB MultiSmart	134
E3SRa60	-MS39	-/60/60	NLB	52	51	Frame Side: 1 x 13mm EPB MultiSmart Rail Side: 2 x 13mm EPB Standard	135
ESSROOU	-M39	-/60/60	NLB	53	52	Frame Side: 1 x 13mm EPB MultiSmart Rail Side: 2 x 13mm EPB MultiSmart	135
Quiet Ste	el Fram	e Walls - No	n Load B	earin	g		
E250-20	-S26	-/30/30	NLB	47	46	1 x 13mm EPB Standard each side	136
E2SQa30	-M20	-/30/30	NLB	48	47	1 x 10mm EPB MultiSmart each side	136
F260-20	-\$39	-/30/30	NLB	53	52	1 x 13mm EPB Standard one side 2 x 13mm EPB Standard other side	137
E3SQa30	-M30	-/30/30	NLB	53	52	1 x 10mm EPB MultiSmart one side 2 x 10mm EPB MultiSmart other side	137
E3SQa45	-MS33	-/45/45	NLB	52	51	1 x 13mm EPB MultiSmart one side 2 x 10mm EPB Standard other side	138
E2SQa60	-M26	-/60/60	NLB	50	49	1 x 13mm EPB MultiSmart each side	139
Staggere	d Steel	Stud Walls -	Non Loa	d Bea	aring		
E2SSa30	-S26	-/30/30	NLB	50	49	1 x 13mm EPB Standard each side	140
E233d3U	-M20	-/30/30	NLB	49	48	1 x 10mm EPB MultiSmart each side	140
5255-60	-M26	-/60/60	NLB	52	51	1 x 13mm EPB MultiSmart each side	141
E2SSa60	-F32	-/60/60	NLB	54	53	1 x 16mm EPB FireSmart each side	141

### Sub Intertenancy - Floor/Ceilings

System	Lining	FRR	Load Bearing	Noise Control			Lining Requirements	Page
Number	Suffix		Ability	STC	Rw	IIC		luge
Direct F	ix Clip	- Floor/Ceili	ing					
E1DFa15	-S13	15/15/15	LB	48	47	43-69	1 x 13mm EPB Standard	143
E2DFa30	-\$26	30/30/30	LB	53	52	43-69	2 x 13mm EPB Standard	144
E1DFa45	-M13	45/45/45	LB	52	51	43-69	1 x 13mm EPB MultiSmart	145
E1DFa60	-F16	60/60/60	LB	52	51	43-69	1 x 16mm EPB FireSmart	146
Suspend	ded Gri	d Floor/Cei	ling					
E1SCa15	-S13	15/15/15	LB	48	47	39-62	1 x 13mm EPB Standard	147
E2SCa30	-S26	30/30/30	LB	53	52	42-67	2 x 13mm EPB Standard	148
E1SCa45	-M13	45/45/45	LB	51	50	43-69	1 x 13mm EPB MultiSmart	149
E1SCa60	-F16	60/60/60	LB	52	51	43-69	1 x 16mm EPB FireSmart	150

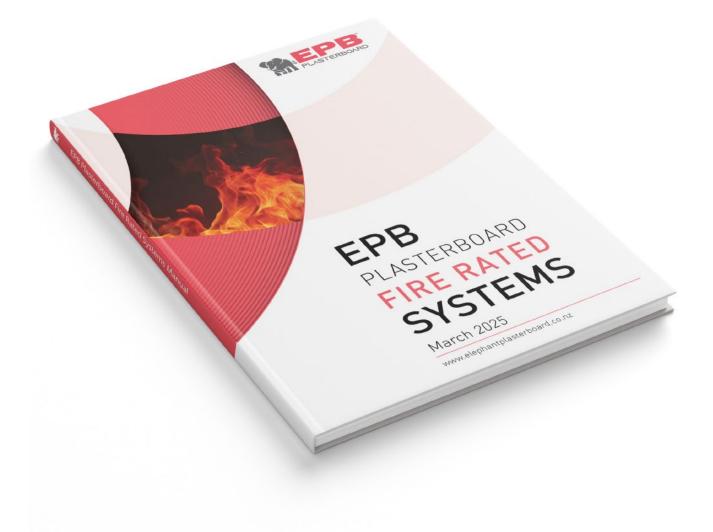
For construction of Two way Fire Rated intertenancy walls using EPB Plasterboard in combination with 25mm thick shaftliner barrier, go to

## EPB Plasterboard & Shaftliner Barrier Systems for Terraced Homes



### Full Intertenancy - Fire Rated Walls

System	Lining	Fire Rating	Load Bearing	No Con		Lining Requirements	Page
Number	Suffix		Ability	STC	Rw		
Timber Dou	uble Fra	me Walls w	ith 25mn	n GIB	Barri	erline® - Load Bearing	-
	-S26	60/60/60	LB	62	61	1 x 13mm EPB Standard on One side 1 x 13mm EPB Standard to Other side	
EGB2TDLA60	-M20	60/60/60	LB	64	63	1 x 10mm EPB MultiSmart on One side 1 x 10mm EPB MultiSmart on Other side	eren
	-M26	60/60/60	LB	67	66	1 x 13mm EPB MultiSmart on One Side 1 x 13mm EPB MultiSmart on Other Side	
EGB4TDLA60	-S40	60/60/60	LB	69	68	2 x 10mm EPB Standard on One side 2 x 10mm EPB Standard on Other side	
Timber Dou	uble Fra	me Walls w	ith 25mn	n USG	i Bora	al Shaftliner™ - Load Bearing	a 2
	-S26	60/60/60	LB	62	61	1 x 13mm EPB Standard on One side 1 x 13mm EPB Standard to Other side	
	-M20	60/60/60	LB	64	63	1 x 10mm EPB MultiSmart on One side 1 x 10mm EPB MultiSmart on Other side	Jyst
	-M26	60/60/60	LB	67	66	1 x 13mm EPB MultiSmart on One Side 1 x 13mm EPB MultiSmart on Other Side	
EUL4TDLA60	-S40	60/60/60	LB	69	68	2 x 10mm EPB Standard on One side 2 x 10mm EPB Standard on Other side	IVIAI
Steel Doub	le Fram	e Walls with	25mm (	GIB Ba	rrier	ine® - Load Bearing	ua
EGB2SDLA60	-S26	60/60/60	LB	61	60	1 x 13mm EPB Standard on One side 1 x 13mm EPB Standard to Other side	
EGB2SDLA00	-M26	60/60/60	LB	67	66	1 x 13mm EPB MultiSmart on One Side 1 x 13mm EPB MultiSmart on Other Side	lliese
	-\$39	60/60/60	LB	67	66	1 x 13mm EPB Standard on One side 2 x 13mm EPB Standard to Other side	: ays
EGB3SDLA60	-M39	60/60/60	LB	69	68	1 x 13mm EPB MultiSmart on One side 2 x 13mm EPB MultiSmart to Other side	
Steel Doub	le Fram	e Walls with	25mm l	JSG B	oral S	Shaftliner™ - Non Load Bearing	
EUL2SDA60	-S26	-/60/60	NLB	59	60	1 x 13mm EPB Standard on One side 1 x 13mm EPB Standard to Other side	
EULZSDAOU	-M26	-/60/60	NLB	64	63	1 x 13mm EPB MultiSmart on One Side 1 x 13mm EPB MultiSmart on Other Side	
EUL3SDA60	-\$39	-/60/60	NLB	64	63	1 x 13mm EPB Standard on One side 2 x 13mm EPB Standard to Other side	
EULSSDAOU	-M39	-/60/60	NLB	66	65	1 x 13mm EPB MultiSmart on One Side 2 x 13mm EPB MultiSmart on Other Side	



For Non-Acoustic Fire Rated system options, go to

## EPB Plasterboard Fire Rated Systems Manual



### **Fire Rated Walls**

System	Lining	FRR	Load Bearing	Noise Control Lining Requirements	Pa		
Number	Suffix	FAA	Ability	STC	Rw	Lining Requirements	ſ
Timber	Frame	Walls - Two	Way FRI	R			
	-S20	30/30/30	LB	37	36	1 x 10mm EPB Standard each side	
E2TL30	-F20	30/30/30	LB	37	36	1 x 10mm EPB FireSmart each side	
	-S26	30/30/30	LB	37	36	1 x 13mm EPB Standard each side	
E4TL45	-S40	45/45/45	LB	42	41	2 x 10mm EPB Standard each side	
E4T60	-S40	-/60/60	NLB	42	41	2 x 10mm EPB Standard each side	
E2TL60	-F26	60/60/60	LB	38	37	1 x 13mm EPB FireSmart each side	
	-F40	60/60/60	LB	42	41	2 x 10mm EPB FireSmart each side	
	-S46	60/60/60	LB	42	41	1 x 10mm EPB Standard and 1 x 13mm EPB Standard each side	
E4TL60	-MS40	60/60/60	LB	42	41	1 x 10mm EPB Standard and 1 x 10mm EPB MultiSmart each side	
	-\$52	60/60/60	LB	43	42	2 x 13mm EPB Standard each side	
E2TL75	-F32	75/75/75	LB	38	37	1 x 16mm EPB FireSmart each side	]
E 4700	-FS52	-/90/90	NLB	43	42	1 x 13mm EPB FireSmart and 1 x 13mm EPB Standard each side	
E4T90 -	-FM46	-/90/90	NLB	43	42	1 x 13mm EPB FireSmart and 1 x 10mm EPB MultiSmart each side	
E4TL90	-F52	90/90/90	LB	45	44	2 x 13mm EPB FireSmart each side	
E4T105	-F52	-/105/105	NLB	44	43	2 x 13mm EPB FireSmart each side	
E4T120	-F58	-/120/120	NLB	46	45	1 x 16mm EPB FireSmart and 1 x 13mm EPB FireSmart each side	
E6TL120	-F78	120/120/120	LB	44	43	3 x 13mm EPB FireSmart each side	
	-F10	30/30/30	LB	46	45	1 x 10mm EPB FireSmart one side Brick Veneer other side	
EBV1TL30	-S13	30/30/30	LB	46	45	1 x 13mm EPB Standard one side Brick Veneer other side	
EBV1TL60	-F13	60/60/60	LB	46	45	1 x 13mm EPB FireSmart one side Brick Veneer other side	
Steel Fr	ame W	alls - Two W	ay FRR				
E2SL15	-S26	15/15/15	LB	35	34	1 x 13mm EPB Standard each side	
E2620	-S26	-/30/30	NLB	35	34	1 x 13mm EPB Standard each side	
E2S30	-M20	-/30/30	NLB	36	35	1 x 10mm EPB MultiSmart each side	
E361 20	-M26	30/30/30	LB	37	36	1 x 13mm EPB MultiSmart each side	
E2SL30	-F32	30/30/30	LB	37	36	1 x 16mm EPB FireSmart each side	
E4SL30	-F40	30/30/30	LB	43	42	2 x 10mm EPB FireSmart each side	
L43L3U	-S52	30/30/30	LB	43	42	2 x 13mm EPB Standard each side	
E2S60	-M26	-/60/60	NLB	37	36	1 x 13mm EPB MultiSmart each side (requires wall insulation)	

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### **Fire Rated Walls**

System	Lining	FRR	Load Bearing	No Con		Lining Requirements	Page
Number	Suffix		Ability	STC	Rw		Tuge
	-\$52	-/60/60	NLB	45	44	2 x 13mm EPB Standard each side	
E4S60	-M40	-/60/60	NLB	45	44	2 x 10mm EPB MultiSmart each side	_
E4SL60	-F52	60/60/60	LB	46	45	2 x 13mm EPB FireSmart each side	
E2S75	-F32	-/75/75	NLB	38	37	1 x 16mm EPB FireSmart each side	_
E4S90	-M46	-/90/90	NLB	45	44	1 x 10mm EPB MultiSmart and 1 x 13mm EPB MultiSmart each side	
E4SL90	-F64	90/90/90	LB	47	46	2 x 16mm EPB FireSmart each side	<u>ד</u>
E4S120	-F52	-/120/120	NLB	45	44	2 x 13mm EPB FireSmart each side	Please
E4S120	-F58	-/120/120	NLB	46	45	1 x 16mm EPB FireSmart and 1 x 13mm FireSmart each side	e refer
Double	Steel F	rame Wall v	vith Fire	Smai	rt Cei	ntral Liner - Two Way FRR	m
E2CSD60	-F26	-/60/60	NLB	44	43	1 x 13mm EPB FireSmart each side (requires wall insulation)	PB F

### Fire Rated Universal Walls

System	Lining	FRR	Load Bearing		ise trol	Lining Requirements
Number	Suffix		Ability	STC	Rw	5 .
Univers	al Timk	per or Steel	Frame V	Vall -	One	Way FRR
E1UW15	-S13	15/15/15	LB	-	-	1 x 13mm EPB Standard one side
E1UW30	-F16a	30/30/30	LB	-	-	1 x 16mm EPB FireSmart one side
E2UW30	-F20	30/30/30	LB	-	-	2 x 10mm EPB FireSmart one side
E2UW45	-F26	45/45/45	LB	-	-	2 x 13mm EPB FireSmart one side
521 114/60	-F26a	60/60/60	LB	-	-	2 x 13mm EPB FireSmart one side
E2UW60	-F29	60/60/60	LB	-	-	1 x 16mm EPB FireSmart and 1 x 13mm EPB FireSmart one side
521 114/00	-F39a	90/90/90	LB	-	-	3 x 13mm EPB FireSmart one side
E3UW90	-F42	90/90/90	LB	-	-	1 x 16mm EPB FireSmart and 2 x 13mm EPB FireSmart one side
E3UW120	-F45a	120/120/120	LB	-	-	1 x 13mm EPB FireSmart and 2 x 16mm EPB FireSmart one side

### Fire Rated Walls with simultaneous fire exposure on both sides

System	Lining	FRR	Load Bearing Ability	Noise Control		Lining Requirements				
Number S	Suffix			STC	Rw	Lining Requirements				
Single Timber Frame Wall with Simultaneous Fire Exposure on Both sides - Two Way FRR										
E2TL30S	-F26	30/-/-	LB	38	37	1 x 13mm EPB FireSmart each side				
E4TL60S	-F52	60/-/-	LB	46	45	2 x 13mm EPB FireSmart each side				

### Smoke Separation Walls

Number S	Lining	FRR	Load Bearing Ability	Noise Control		Lining Requirements	Page		
	Suffix			STC	Rw	Lining requirements	rage		
Smoke Separation - Timber or Steel Frame Wall - Two Way FRR									
E2sm10	-	10/10/10	LB	-	-	1 x Minimum 10mm EPB Plasterboard each side			

### Fire Rated Floor/Ceilings

System	Lining	500	Load	Noise Control			Lining Poguiromente
Number	Suffix	FRR	Bearing Ability	STC	Rw	IIC	Lining Requirements
Floor/C	eiling						
E1FC15	-S13	15/15/15	LB	38	37	31	1 x 13mm EPB Standard
E1FC30	-F13	30/30/30	LB	39	39	32	1 x 13mm EPB FireSmart
E2FC30	-\$26	30/30/30	LB	39	38	32	2 x 13mm EPB Standard
E1FC45	-F13	45/45/45	LB	39	39	32	1 x 13mm EPB FireSmart
E1FC60	-F16	60/60/60	LB	39	38	32	1 x 16mm EPB FireSmart
	-FS26	60/60/60	LB	40	39	33	1 x 13mm EPB FireSmart and 1 x 13mm EPB Standard
E2FC60	-F26	60/60/60	LB	41	40	34	2 x 13mm EPB FireSmart
E2FC90	-F29	90/90/90	LB	41	40	34	1 x 16mm EPB FireSmart and 1 x 13mm EPB FireSmart
E3FC120	-F39	120/120/120	LB	43	42	35	3 x 13mm EPB FireSmart
Compo	site Joi	st Floor/Cei	ling				
E1CJ30	-F13	30/30/30	LB	39	38	32	1 x 13mm EPB FireSmart
E2CJ30	-\$26	30/30/30	LB	39	38	32	2 x 13mm EPB Standard
E1CJ45	-F13	45/45/45	LB	39	38	32	1 x 13mm EPB FireSmart
E1CJ60	-F16	60/60/60	LB	39	38	32	1 x 16mm EPB FireSmart
E2CJ60	-FS26	60/60/60	LB	40	39	33	1 x 13mm EPB FireSmart and 1 x 13mm EPB Standard
Steel Jo	ist Floc	or/Ceiling	-				
E1SJ30	-F13	30/30/30	LB	35	34	31	1 x 13mm EPB FireSmart
E2SJ60	-F26	60/60/60	LB	39	38	32	2 x 13mm EPB FireSmart
Battene	d Floo	r/Ceiling					
E1BC30	-F13	30/30/30	LB	35	34	31	1 x 13mm EPB FireSmart
E1BC60	-F16	60/60/60	LB	39	38	32	1 x 16mm EPB FireSmart
Direct F	ix Clip	Floor/Ceilin	g				
E1DF45	-F13	45/45/45	LB	49	48	42	1 x 13mm EPB FireSmart
E1DF60	-F16	60/60/60	LB	49	48	43	1 x 16mm EPB FireSmart

### Fire Rated Floor/Ceilings

System	Lining	FRR	Load Bearing		Noise Contro	1	Lining Requirements	Pag		
Number	Suffix		Ability	STC	Rw	IIC				
								_		
E2DF60	-FS26	60/60/60	LB	49	48	43	1 x 13mm EPB FireSmart and 1 x 13mm EPB Standard			
EZDFOU	-F26	60/60/60	LB	52	51	43	2 x 13mm EPB FireSmart			
E2DF90	-F32	90/90/90	NLB	54	53	43	2 x 16mm EPB FireSmart			
E3DF120	-F39	120/120/120	LB	54	53	43	3 x 13mm EPB FireSmart			
Suspen	ded Gr	id Floor/Cei	ling							
E2SC30	-\$26	30/30/30	LB	50	49	42	2 x 13mm EPB Standard	P		
E1SC45	-F13	45/45/45	LB	48	47	42	1 x 13mm EPB FireSmart	lease		
E1SC60	-F16	60/60/60	LB	48	47	43	1 x 16mm EPB FireSmart	Please refer EPB		
E1XC60	-F16	60/60/60	LB	48	47	43	1 x 16mm EPB FireSmart	er EP		
525660	-FS26	60/60/60	LB	48	47	42	1 x 13mm EPB FireSmart and 1 x 13mm EPB Standard	B Fir		
E2SC60	-F26	60/60/60	LB	51	50	42	2 x 13mm EPB FireSmart	e Rat		
E2SC90	-F32	90/90/90	LB	53	52	43	2 x 16mm EPB FireSmart	ied S		
E2XC90	-F29	90/90/90	LB	48	47	43	1 x 16mm EPB FireSmart and 1 x 13mm EPB FireSmart	Fire Rated System		

### Fire Rated Universal Ceilings

System	Lining Suffix	FRR	Load Bearing	Noise Control			Lining Requirements
Number			Ability	STC	Rw	IIC	
Univers	al Ceiliı	ng - Timber	or Steel	Fran	ne		
E1UC15	-F13	15/15/15	LB	-	-	-	1 x 13mm EPB FireSmart
E1UC30	-F16a	30/30/30	LB	-	-	-	1 x 16mm EPB FireSmart
5011070	-F26a	60/60/60	LB	-	-	-	2 x 13mm EPB FireSmart
E2UC60	-F29	60/60/60	LB	-	-	-	1 x 16mm EPB FireSmart and 1 x 13mm EPB FireSmart
	-F39a	90/90/90	LB	-	-	-	3 x 13mm EPB FireSmart
E3UC90	-F42	90/90/90	LB	-	-	-	1 x 16mm EPB FireSmart and 2 x 13mm EPB FireSmart

efer EPB Fire Rated Systems Manual for these System Specification sheets

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### Fire Rated Speciality Systems

System Number         Lining Suffix         FRR FRR         Boad Bearing Ability         Coad Bearing Ability         SIC         SIC         SIC         Lining Requirement           64mm Stud         102mm Stud         102mm Stud         102mm Stud         FII	
Shaft Wall - Fire Rated from Shaft Side onlyFillNo FillFillFillE1SWS60-F13-/60/60NLB394542461 x 13mm EPB FireSmartE2SWS90-F26-/90/90NLB434946502 x 13mm EPB FireSmartE2SWS120-F29-/120/120NLB445046511 x 16mm EPB FireSmart and 1 x 13mm EPB FireSmartShaft Wall - Fire Rated from Either SideIIIIIII	Page
E1SWS60       -F13       -/60/60       NLB       39       45       42       46       1 x 13mm EPB FireSmart         E2SWS90       -F26       -/90/90       NLB       43       49       46       50       2 x 13mm EPB FireSmart         E2SWS120       -F29       -/120/120       NLB       44       50       46       51       1 x 16mm EPB FireSmart and 1 x 13mm EPB FireSmart         Shaft Wall - Fire Rated from Either Side	
E1SWS60       -F13       -/60/60       NLB       39       45       42       46       1 x 13mm EPB FireSmart         E2SWS90       -F26       -/90/90       NLB       43       49       46       50       2 x 13mm EPB FireSmart         E2SWS120       -F29       -/120/120       NLB       44       50       46       51       1 x 16mm EPB FireSmart and 1 x 13mm EPB FireSmart         Shaft Wall - Fire Rated from Either Side	
E2SWS120     -F29     -/120/120     NLB     44     50     46     51     1 x 16mm EPB FireSmart and 1 x 13mm EPB FireSmart       Shaft Wall - Fire Rated from Either Side     Image: State of the stat	
E2SWS120     -F29     -/120/120     NLB     44     50     46     51     1 x 13mm EPB FireSmart       Shaft Wall - Fire Rated from Either Side	
E1SWE30 -F13 -/30/30 NLB 39 45 42 46 1 x 13mm EPB FireSmart	
	ס
E2SWE60 -F26 -/60/60 NLB 43 49 46 50 2 x 13mm EPB FireSmart	lease
E2SWE90 -F29 -/90/90 NLB 44 50 46 51 1 x 16mm EPB FireSmart and 1 x 13mm EPB FireSmart	Please refer
E3SWE120 -F42 -/120/120 NLB 46 51 48 52 1 x 16mm EPB FireSmart and 2 x 13mm EPB FireSmart	er EPB
EPB Shaft Panel	BFire

EPB Shaft Panel

### Fire Rated Columns & Beams

System Number	Lining Suffix	FRR	Load Bearing	No Con	trol	Lining Requirements
	Janna		Ability	STC	Rw	
Steel Co	lumn 8	Beam - Tin	nber Stra	appe	d	
E1CBT15	-S13	15/-/-	LB	-	-	1 x 13mm EPB Standard
E1CBT30	-F16	30/-/-	LB	-	-	1 x 16mm EPB FireSmart
E2CBT30	-F20	30/-/-	LB	-	-	2 x 10mm EPB FireSmart
E2CBT60	-F26	60/-/-	LB	-	-	2 x 13mm EPB FireSmart
E2CBT90	-F32	90/-/-	LB	-	-	2 x 16mm EPB FireSmart
E3CBT120	-F45	120/-/-	LB	-	-	1 x 13mm EPB FireSmart and 2 x 16mm EPB FireSmart
Steel Co	lumn 8	k Beam - Ste	el Clip a	nd C	hanr	nel
E1CBS15	-S13	15/-/-	LB	-	-	1 x 13mm EPB Standard
E1CBS30	-F16	30/-/-	LB	-	-	1 x 16mm EPB FireSmart
E2CBS30	-F20	30/-/-	LB	-	-	2 x 10mm EPB FireSmart
E2CBS60	-F26	60/-/-	LB	-	-	2 x 13mm EPB FireSmart
E2CBS90	-F32	90/-/-	LB	-	-	2 x 16mm EPB FireSmart
E3CBS120	-F45	120/-/-	LB	-	-	1 x 13mm EPB FireSmart and 2 x 16mm EPB FireSmart

ase refer EPB Fire Rated Systems Manual for these System Specification sheets



For Plasterboard & Fibre Cement combination Fire Rated system options, go to

## EPB & Fibre Cement Fire Rated Systems Manual

### External Fire Rated Walls - Timber Frame

System Number	Lining Suffix	FRR	Insulation	Noise Control STC	Lining Requirements	Page
EPB Plaste	rboard	& James H	lardie Lin	ea™ W	'eatherboard	
EJL1TL30	-F10	30/30/30	R2.2 glass wool	46	1 x 10mm EPB FireSmart on Internal side James Hardie Linea™ Weatherboard to External side	
EJL1TL60	-M13	60/60/60	R2.2 glass wool	47	1 x 13mm EPB MultiSmart on Internal side James Hardie Linea™ Weatherboard to External side	
<b>EPB</b> Plaste	rboard	& James H	lardie Lin	ea™ O	blique <sup>™</sup> Weatherboard	
EJOh1TL30	-F10	30/30/30	R2.2 glass wool	46	1 x 10mm EPB FireSmart on Internal side James Hardie Linea™ Oblique™ Weatherboard horizontal to External side	
EJOv1TL30	-F10	30/30/30	R2.2 glass wool	46	1 x 10mm EPB FireSmart on Internal side James Hardie Linea™ Oblique™ Weatherboard vertical to External side	Ple
EJOh1TL60	-M13	60/60/60	R2.2 glass wool	47	1 x 13mm EPB MultiSmart on Internal side James Hardie Linea <sup>™</sup> Oblique <sup>™</sup> Weatherboard horizontal to External side	Please refer EPB Fire Rated Systems Manual for these Sys
EJOv1TL60	-M13	60/60/60	R2.2 glass wool	47	1 x 13mm EPB MultiSmart on Internal side James Hardie Linea™ Oblique™ Weatherboard vertical to External side	fer EP
<b>EPB</b> Plaste	rboard	& James H	lardie™ P	lank W	eatherboard	<b>Ö</b>
EJW1TL30	-F10	30/30/30	R2.2 glass wool	45	1 x 10mm EPB FireSmart on Internal side James Hardie™ Plank Weatherboard to External side	ire Ra
EJW1TL60	-M13	60/60/60	Hardie™ Mineral	46	1 x 13mm EPB MultiSmart on Internal side James Hardie™ Plank Weatherboard to External side	ited S
<b>EPB</b> Plaste	rboard	& James H	lardie Stri	ia™ Cla	dding	yst
EJSh1TL30	-F10	30/30/30	R2.2 glass wool	46	1 x 10mm EPB FireSmart on Internal side James Hardie Stria™ Cladding horizontal to External side	ems N
EJSv1TL30	-F10	30/30/30	R2.2 glass wool	46	1 x 10mm EPB FireSmart on Internal side James Hardie Stria™ Cladding vertical to External side	lanua
EJSh1TL60	-M13	60/60/60	R2.2 glass wool	47	1 x 13mm EPB MultiSmart on Internal side James Hardie Stria™ Cladding horizontal to External side	l for t
EJSv1TL60	-M13	60/60/60	R2.2 glass wool	47	1 x 13mm EPB MultiSmart on Internal side James Hardie Stria™ Cladding vertical to External side	hese S
<b>EPB</b> Plaste	rboard	& James H	lardie Stri	ia™ Cla	dding & RAB <sup>™</sup> Board with CLD Battens	
EJRS1TL30	-F10	30/30/30	R2.2 glass wool	46	1 x 10mm EPB FireSmart on Internal side James Hardie Stria™ Cladding and RAB™ Board with CLD™ Structural Cavity Batten to External side	em Spec
EJRS1TL60	-M13	60/60/60	Hardie™ Mineral	47	1 x 13mm EPB MultiSmart on Internal side James Hardie Stria™ Cladding and RAB™ Board with CLD™ Structural Cavity Batten to External side	tem Specification sheets
EPB Plaste	rboard	& James H	lardie Ha	rdie™ F	lex Sheet	sh
EJF1TL30	-F10	30/30/30	R2.2 glass wool	42	1 x 10mm EPB FireSmart on Internal side James Hardie Hardie™ Flex Sheet to External side	eets
EJF1TL60	-M13	60/60/60	Hardie™ Mineral	43	1 x 13mm EPB MultiSmart on Internal side James Hardie Hardie™ Flex Sheet to External side	

### External Fire Rated Walls - Timber Frame

System Number	Lining Suffix	FRR	Insulation	Noise Control STC	Lining Requirements	Page
<b>EPB</b> Plaste	rboard	& James H	lardie Axo	on™ Pa	anel	
EJA1TL30	-F10	30/30/30	R2.2 glass wool	41	1 x 10mm EPB FireSmart on Internal side James Hardie Axon™ Panel to External side	
EJA1TL60	-M13	60/60/60	Hardie <sup>™</sup> Mineral	42	1 x 13mm EPB MultiSmart on Internal side James Hardie Axon™ Panel to External side	
<b>EPB</b> Plaste	rboard	& James H	lardie Axo	on™ Pa	anel & RAB <sup>™</sup> Board with CLD Battens	
EJRA1TL30	-F10	30/30/30	R2.2 glass wool	45	1 x 10mm EPB FireSmart on Internal side James Hardie Axon <sup>™</sup> Panel and RAB <sup>™</sup> Board with CLD <sup>™</sup> Structural Cavity Batten to External side	
EJRA1TL60	-M13	60/60/60	Hardie™ Mineral	46	1 x 13mm EPB MultiSmart on One side James Hardie Axon <sup>™</sup> Panel and RAB <sup>™</sup> Board with CLD <sup>™</sup> Structural Cavity Batten to External side	Please re
<b>EPB</b> Plaste	rboard	& James H	lardie Eas	yLap™	Panel	fer
EJE1TL30	-F10	30/30/30	R2.2 glass wool	46	1 x 10mm EPB FireSmart on Internal side James Hardie EasyLap™ Panel to External side	EPBF
EJE1TL60	-M13	60/60/60	Hardie™ Mineral	47	1 x 13mm EPB MultiSmart on Internal side James Hardie EasyLap™ Panel to External side	ire Ra
<b>EPB</b> Plaste	rboard	& James H	lardie Eas	yLap™	Panel & RAB <sup>™</sup> Board with CLD Battens	iteo
EJRE1TL30	-F10	30/30/30	R2.2 glass wool	46	1 x 10mm EPB FireSmart on Internal side James Hardie EasyLap™ Panel and RAB™ Board with CLD™ Structural Cavity Batten to External side	d System
EJRE1TL60	-M13	60/60/60	Hardie™ Mineral	47	1 x 13mm EPB MultiSmart on Internal side James Hardie EasyLap <sup>™</sup> Panel and RAB™ Board with CLD™ Structural Cavity Batten to External side	ıs Manua
<b>EPB</b> Plaste	rboard	& James H	lardie Exc	oTec™	Facade Panel & RAB™ Board	al fo
EJRX1TL30	-F10	30/30/30	R2.2 glass wool	47	1 x 10mm EPB FireSmart on Internal side James Hardie ExoTec™ Facade Panel and RAB™ Board with Top hat system to External side	Please refer EPB Fire Rated Systems Manual for these S
EJRX1TL60	-M13	60/60/60	Hardie™ Mineral	48	1 x 13mm EPB MultiSmart on Internal side James Hardie ExoTec™ Facade Panel and RAB™ Board with Top hat system to External side	system Specification sheets
<b>EPB</b> Plaste	rboard	& James H	lardie RA	В™ Воа	ard & a Weathertight Cladding <sup>(See Note 1)</sup>	bec
EJRN1TL30	-F10	30/30/30	R2.2 glass wool	42	1 x 10mm EPB FireSmart on Internal side James Hardie RAB™ Board with a Weathertight Cladding to External side	ificati
EJRN1TL60	-M13	60/60/60	Hardie™ Mineral	42	1 x 13mm EPB MultiSmart on Internal side James Hardie RAB™ Board with a Weathertight Cladding to External side	on sh
	-F20	60/60/60	Hardie™ Mineral	46	2 x 10mm EPB FireSmart on Internal side James Hardie RAB™ Board with a Weathertight Cladding to External side	eets
EJRN2TL60	-S26	60/60/60	Hardie™ Mineral	47	2 x 13mm EPB Standard on Internal side James Hardie RAB™ Board with a Weathertight Cladding to External side	_
	-M20	60/60/60	Hardie™ Mineral	47	2 x 10mm EPB MultiSmart on Internal side James Hardie RAB™ Board with a Weathertight Cladding to External side	

Note1 : It is important to consider that the fire properties of the external cladding is in accordance with NZBC C/VM1 or C/AS documents. Refer to Table 5.1 of Section 5.4 of C/AS1 and Table 5.5 of Section 5.8.1 of C/AS2 for the information about various risk groups to identify the external fire spread safety requirement applicable to the exterior surface finishes.

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### External Fire Rated Walls - Steel Frame

System Number	Lining Suffix	FRR	Insulation	Noise Control STC	Lining Requirements	
EPB Plaste	rboard	l & RAB™ b	oard with	n Select	ted James Hardie Fibre Cement Cladding	
	Mineral cladding to External side		James Hardie RAB <sup>™</sup> Board with Selected James Hardie Fibre Cement			
EJRH1SL30	-F16	-F16 30/30/30 Hardie <sup>™</sup> 42 - 4		42 - 47	1 x 16mm EPB FireSmart on Internal side James Hardie RAB™ Board with Selected James Hardie Fibre Cement cladding to External side	
EJRH2SL30	-F20	30/30/30	Hardie™ Mineral	47 - 53 2 x 10mm EPB FireSmart on Internal side James Hardie RAB <sup>™</sup> Board with Selected James Hardie Fibre Cen cladding to External side		_
EJRH2SL60	-M26	60/60/60	Hardie™ Mineral	51 - 54	2 x 13mm EPB MultiSmart on Internal side James Hardie RAB™ Board with Selected James Hardie Fibre Cement cladding to External side	Plea
EPB Plaste	rboard	& James H	lardie RA	В™ Воа	ard & a Weathertight Cladding <sup>(See Note 1)</sup>	sei
EJRN1SL30	-M13	30/30/30	Hardie™ Mineral	42	1 x 13mm EPB MultiSmart on Internal side James Hardie RAB™ Board with a Weathertight Cladding to External side	Please refer E
EJRNTSLSU	Hardio™		43	1 x 16mm EPB FireSmart on Internal side James Hardie RAB™ Board with a Weathertight Cladding to External side	EPB Fii	
EJRN2SL30	-F20	30/30/30	Hardie™ Mineral	47	2 x 10mm EPB FireSmart on Internal side James Hardie RAB™ Board with a Weathertight Cladding to External side	Fire Rated
EJRN2SL60	-M26	60/60/60	Hardie™ Mineral	49	2 x 13mm EPB MultiSmart on Internal side James Hardie RAB™ Board with a Weathertight Cladding to External side	ed Sys

### Internal Fire Rated Walls - Timber Frame

System Number	Lining Suffix	FRR	Insulation	Noise Control STC	Lining Requirements
<b>EPB</b> Plaste	rboard	l & James H	lardie Vill	aboarc	I <sup>™</sup> Lining
EJV1TL30	-F10	30/30/30	R2.2 glass wool	42	1 x 10mm EPB FireSmart one side James Hardie Villaboard™ Lining other side
EJV1TL60	-M13	60/60/60	Hardie™ Mineral	43	1 x 13mm EPB MultiSmart one side James Hardie Villaboard™ Lining other side

### Floor/Ceilings - Timber Frame

System	Lining	FRR	Insulation	No Con	ise trol	Lining Requirements to underside of Frame	Page	
Number	Suffix			STC	IIC			
<b>EPB</b> Plaste	rboarc	l & James H	lardie Se	cura	™ In	iterior Flooring		
EJS1FC30	-M13	30/30/30	R1.8 glass wool	45	33	1 x 13mm EPB MultiSmart to underside of frame		
EJS1FC60	-F16	60/60/60	n/a	46	33	1 x 16mm EPB FireSmart to underside of frame		

### Full Intertenancy - Floating Floor/Ceilings - Timber Frame

System	Lining	FRR	Insulation	Noise Control								Lining Requirements to underside of Frame	
Number	Suffix		STC IIC										
<b>EPB</b> Plaste	rboard	& Floating	James H	ardi	e Seo	cura™ Interior Flooring							
	-MS26	60/60/60	R1.8 glass wool	67	57-76	1 x 13 EPB MultiSmart And 1 x 13 EPB Standard under the battens							
EFJ2DFA60	-M26	60/60/60	R1.8 glass wool	68	57-77	2 x 13 EPB MultiSmart under the battens							



The building code objective and functional requirements are concerned with prevention of undue noise transmission from the occupancies or common spaces to the habitable spaces of household units. This manual provides details for construction of Two way Fire Rated walls and floor/ ceiling elements to provide sound isolation for airborne and impact noise to meet the NZBC Clause G6 performance requirements.

Elephant Plasterboard (NZ) Limited has many different combinations of wall and ceiling Noise Control Systems. It is the responsibility of the specifier to accommodate the required performance of the building they are considering. The specifier should take into consideration both external and internal noise control & fire rating for occupants intended use. Special consideration must be taken in the construction process.

All construction details that have been provided in this manual are generic only and it is important that expert advice is seeked to determine suitability in each individual project

#### **Limitations and Conditions of Use**

- EPB Plasterboard is intended for normal conditions of dry internal use.
- EPB Plasterboard must not be used for bracing applications in or around baths and shower areas.
- EPB Plasterboard must not be exposed to liquid water or be installed in situations where extended exposures to humidity above 90% Relative Humidity are to be expected. Bathrooms, kitchens and laundries should have adequate ventilation or heating to avoid condensation build-up.
- A suitable surface finish (e.g. Vinyl wallpaper or gloss and semi-gloss alkyd paints) must be applied to EPB Plasterboard in all areas where liquid water or high humidity can be expected.
- EPB Plasterboard must not be installed over a vapour barrier.
- EPB Plasterboard must not be applied directly to masonry, concrete or solid plaster, unless timber strapping or steel furring channels are used.
- EPB Plasterboard must not be exposed to temperatures of 52°C or greater for prolonged periods.
- EPB Plasterboard may not be used as an external lining.

#### New Zealand Building Code (NZBC) Compliance

EPB Plasterboard is manufactured to AS/NZS 2588 and has been specifically formulated to meet New Zealand Building Code requirements. EPB Plasterboard has been marketed internationally since 1975 and the product has established an excellent history of performance for its use in buildings throughout New Zealand and the Asia/Pacific region. EPB Plasterboard meets the durability requirements of the NZBC and is subject to use, installation and maintenance in accordance with the instructions outlaid in this manual. The Manufacturing plant is International Standard ISO 9001and ISO 14001 registered.

#### NZBC Clause B1 Structure:

Framing material specifications used with EPB Plasterboard Systems must be in accordance with the performance requirements of NZBC Clause B1. Timber framed walls and floors must be installed and meet the requirements of NZS 3604.

NZBC Clause B2 Durability:

EPB Plasterboard Fire, Noise Control & Bracing Systems have a serviceable life of not less than 50 years and so is in accordance to NZBC B2.3.1.

NZBC Clause C1-C6 Protection from Fire:

EPB Plasterboard Fire & Noise Control Systems can meet the requirements of providing passive fire protection as per NZBC Clause C1-C6.

NZBC Clause E3 Internal Moisture:

EPB Plasterboard Wet Area Systems can meet the requirements of NZBC Acceptable Solution E3/AS1.

• NZBC Clause F2 Hazardous Building Materials:

EPB Plasterboard Systems meet this requirement of NZBC Clause F2 and will not present a health hazard to people.

• NZBC Clause G6 - Airborne & Impact Sound:

EPB Plasterboard Noise Control Systems entitled 'Full Intertenancy' (STC 55 or greater) systems meet the requirements of NZBC Clause G6.



#### **Fire Resistance Ratings (FRR)**

To prevent fire spread or structural collapse, the Acceptable Solutions require building elements to have fire resistance ratings (FRRs). The level of FRR required depends on the risk group of the building. The way to determine the FRR of building elements is by using the standard tests specified in Appendix C of the Acceptable Solutions.

#### **FRR components**

An FRR comprises three numbers: these give time values in minutes for structural adequacy, integrity and insulation. Primary and secondary elements required to have an FRR will, depending on their function, need to satisfy one or more of these three criteria as follows:

a) **Structural Adequacy**: usually provided by primary elements within a fire cell. These include building elements which are part of the structure, and those providing support to other elements with an FRR within the same or adjacent fire cells. Examples are: columns, beams, floors and walls (which may also be fire separations). Paragraph 4.3 of the Acceptable Solutions describes special situations where primary elements need not have an FRR.

b) **Integrity**: usually provided by secondary elements. Examples are fire separations, which are internal partitions and floors, areas of external walls not permitted to be an unprotected area, and some areas of roofs when close to another building or crossed by an exit way. Primary elements forming an integral part of a fire separation are also rated for integrity.

c) Insulation: applies to fire separations and is required where the transmission of heat through the element may endanger occupants on the other side or cause fire to spread to other fire cells or adjacent buildings. For example, insulation is necessary for fire separations between sleeping spaces, where protecting a safe path or through external walls.

EPB Plasterboard Fire Rated Systems meet the requirements of the above clauses and definitions and have numerous systems combinations as outlined in this manual. All EPB Plasterboard Fire Rated systems have been tested or internally assessed or have opinions provided by independent accredited quality assurance organisations like "The Building Research Association of New Zealand (BRANZ)".

#### **Internal Lining Surface Finish Properties**

EPB Plasterboard has been tested at BRANZ in accordance with ISO 5660 Reaction to fire tests (Heat release, smoke production and mass loss rate) Part 1: Heat release rate (cone calorimeter method); and ISO 5660 Reaction to fire tests (Heat release, smoke production and mass loss rate) Part 2: Smoke production rate (dynamic measurement).

A Group Number Classification of 1-S was achieved in Fire test FH 5695-TT for all EPB Plasterboard paper faced sheet linings. This classification only applies to EPB Plasterboard paper faced sheet linings without paint or wallpaper finish. Contact the surface finish suppliers for group number information for their products.

'Group Number 1-S' is the highest performance expectation under 'Part 4. Control of Internal Fire and Smoke Spread' clause C/AS2 to C/AS7 of the NZBC. It means an EPB Plasterboard paper faced sheet lining can be specified for use in any risk group application.

#### New Zealand Building Code Clause G6 Airborne and Impact Sound

Building Code Clause G6 is about prevention of undue noise transmission and requires that 'buildings shall be provided with adequate noise control in common walls, floors and other elements between occupancies, habitable spaces and other occupancies or common spaces'.

The performance criteria shall be:

- Sound Transmission Class(STC) for Walls, floors and ceilings no less than 55, and
- Impact Insulation Class (IIC) of floors to be no less than 55.

EPB Noise Control Systems have been designed to comply with the NZBC Clause G6 and these type of systems are classified as the 'Full Intertenancy' (STC 55 or greater). Systems classified as 'Sub Intertenancy' are below 55 STC and do not meet this requirement.

#### **Sound Transmission Class (STC)**

A single number rating derived from measured values of transmission loss in accordance with classification ASTM E 413, Determination of Sound Transmission Class. It provides an estimate of the performance of a partition in certain common sound insulation situations.

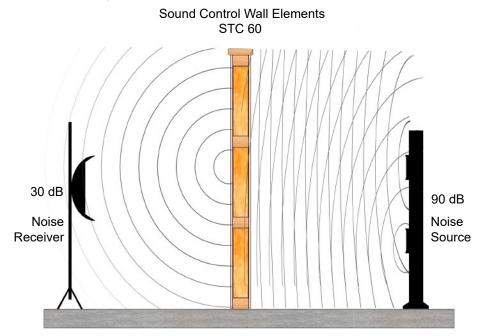
#### Impact Insulation Class (IIC)

A single number rating derived from measured values of normalized impact sound pressure levels in accordance with Method of ASTM E 492, Annex A1, Laboratory Measurement of Impact Sound Transmission Through Floor Ceiling Assemblies Using the Tapping Machine. It provides an estimate of the impact sound insulating performance of a floor-ceiling assembly.

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#### **Sound Transmission Class (STC)**

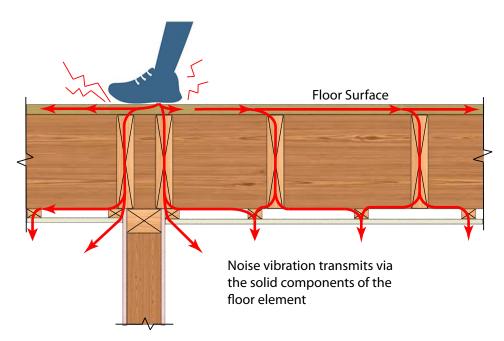
The STC number is derived from sound attenuation values tested at sixteen standard frequencies from 125 Hz to 4000 Hz. These Transmission Loss values are then plotted on a sound pressure level graph and the resulting curve is compared to a standard reference contour. The Test method fit these values to the appropriate Transmission Loss Curve to determine an STC rating. A larger figure means more airborne sound insualtion. The STC rating is appropriate for speech sounds, but much less so for amplified music, mechanical equipment noise, transportation noise, or any sound with substantial low-frequency energy below 125 Hz. Sometimes, acoustical labs will measure Transmission Loss at frequencies below 125 Hz, possibly down to 50 Hz or lower, thus giving additional valuable data to evaluate transmission loss at very low frequencies, such as a subwoofer-rich home theatre systems.



#### Impact Insulation Class (IIC)

Impact insulation class (or IIC) is a rating of how well a floor element attenuates impact sounds, such as footsteps. A larger number means more impact sound insulation. The scale, like the decibel scale for sound, is logarithmic. The IIC is derived from ASTM method E989, which in turn uses a tapping machine specified in ASTM method E492.

The IIC number is derived from sound attenuation values tested at sixteen standard frequencies from 100 to 3150 Hz. "Real world" footstep noise is also generated at frequencies below 100 Hz, so the IIC value may not accurately describe the complete noise attenuation profile of a floor.

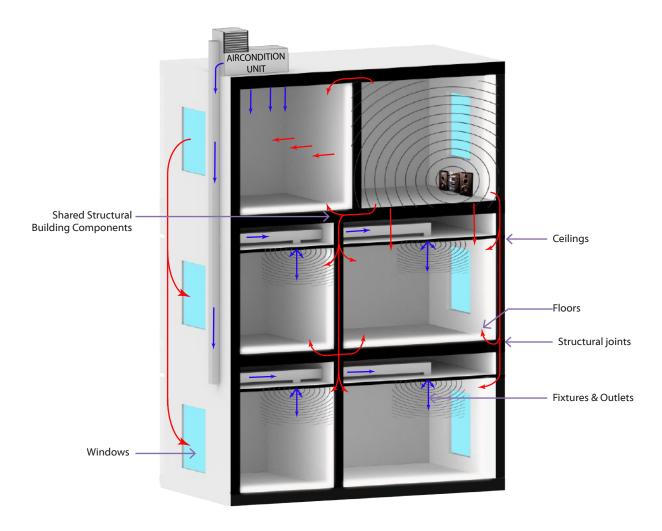


#### **Flanking Transmission Paths**

Flanking transmission is a term used by acoustical engineers wherein the sound passes around the wall or floor elements. Flanking sound transmission can be especially bothersome in multi-unit residential buildings. The best time to guard against flanking transmission is in the design and construction phase of the dwelling. Simply specifying a high performance wall between adjacent dwelling spaces, is no guarantee to sound isolation and privacy upon occupancy. Sound will find the weakest links. Fire Rated Acoustic Sealants should be used to fill all the voids in walls, ceilings and floor assembles.

Typical Flanking Sound Transmission Pathways can include:

- Ceilings
- Floors
- Windows
- Fixtures & Outlets e.g. Light switches, Telephone outlets, and Recessed lighting fixtures
- Shared Structural Building Components e.g. Floor joists, Drywall partitions, Continuous concrete floors, and concrete block walls
- · Structural Joints e.g. Perimeter joints at wall & floor junctures
- Plumbing Chases



#### **Noise Control Walls**

EPB Plasterboard Noise Control Systems have been tested on timber & steel frame walls, either as Load Bearing (LB) or Non Load Bearing.

#### Timber Frame

Stud heights, stud spacings, load and framing dimensions for Load Bearing (LB) or Non Load Bearing (NLB) Timber framed walls are determined by the NZBC, and NZS 3604. Heights greater than what is defined in NZS 3604 will need specific design by a structural engineer.

#### **Steel Frame**

Stud heights, stud spacings, load and framing dimensions for Load Bearing (LB) or Non Load Bearing (NLB) Steel framed walls need consultation with the framing supplier or fire engineer for fire design serviceability criteria.

#### General

Maximum spacing of studs 600mm centres. Wall linings must be mechanically fixed. Glue may not be substituted for mechanical fixing if used in a passive fire system. Screw lengths, spacings and type as defined by this manual must be used. Sheet edges must be fixed over studs when placed vertically or over solid blocking when placed horizontally. All outer layers must be stopped to a minimum level 3 stopping (refer to EPB Plasterboard Installation Guide). Ensure the outer wall sheet is staggered minimum 300mm centres from the first sheet and that it is placed behind an adjacent stud. If a fire rated sealant is used ensure that the sealant is of the same FRR as the specified system in use and that it has been independently tested.

#### EPB QuickBrace System

The bracing systems specified in the EPB QuickBrace Systems Manual can easily be combined with the EPB Noise Control Systems by adhering to the details outlined for the relevant Bracing system type and relevant Noise Control System requirements.

For Single layered Noise Control systems, use the QuickBrace fastening pattern and the required screw length of the Noise Control Systems. For Double layered Noise Control systems, the bracing sheet can be either:

- The Inner sheet fixed directly to the framing. Use the QuickBrace fastening pattern and the required screw length of the Noise Control System. The inner layer can be left unstopped; or
- The Outer sheet. Use the QuickBrace fastening pattern and the required screw length of the Noise Control System.

For Resilient Rail or Resilient Mount systems, only single sided bracing systems can be used e.g. ER1, ES-N, ES-H and EM-H. The bracing sheet must be placed directly against the framing and not on the rail or mount side. Use the QuickBrace fastening pattern and the required screw length of the Noise Control System.

#### **Noise Control Floor/Ceiling**

EPB Plasterboard Noise Control Systems have been tested on Load bearing floor/ceiling systems. Refer to this manual for fixings and layer combinations. Ceiling linings must be mechanically fixed. Glue may not be substituted for mechanical fixing if used in a passive fire system. Screw lengths, spacings and type as defined by this manual must be used.

#### **Timber & Composite Joists**

Floor/ceiling system as defined in NZS 3604 for floor loadings (2.0 kPa or 3.0 kPa) may be used. Consult NZS 3604 latest edition for floor joist spans. Floor joists must have a minimum of 190mm depth x 45mm width and a maximum spacing of 600mm centres. Alternatively, proprietary composite joist systems may be used. Consult the appropriate supplier's technical information for design strength and serviceability.

#### **Steel Joists**

Steel floor joists shall be a minimum depth of 190mm C-section with 45mm flanges and a steel gauge of 1.6mm minimum. Joists to be spaced at no more than 600mm centres.

#### Flooring

Floor/Ceiling system must have a floor that is at least 20mm thick particle board complying with AS/NZS 1860 Part 1: 2017 or minimum 17mm thick structural ply complying with AS/NZS 2269 Part 0: 2012 fixed to the floor joists as per manufacturer's installation instructions.

#### **Floating Floor**

The floating floor systems must be either 19mm James Hardie Tongue & Groove Secura Floor or 20mm Tongue & Groove Particle Board complying to AS/NZS 1860.

#### **Cavity Sound Absorber**

Any brand of glass wool insulation which has a minimum density of 9.6kg/m<sup>3</sup> may be used or any brand polyester insulation with a minimum density of 14.7kg/m<sup>3</sup>. Do not overfill the cavity as this may compromise and reduce the noise control performance of the system.

#### **Acoustic Sealant**

In order to achieve the published STC performances in this manual, a bead of acoustic sealant must be placed around the perimeter of the framing or the inner layer and the outer layer is bedded into the bead.

#### **Load Bearing Steel Studs**

The steel frame design shall meet the structural criteria for strength and serviceability under dead and live loads. Frame heights, stud spacings and stud type are determined by specific engineering design. Stud spacings shall be 600 centres maximum. Stud width shall be 35mm minimum.



Refer to the relevant sections of the EPB Fire Rated Systems Manual, in order to obtain the lining requirements to achieve the equivalent FRR of load bearing steel stud walls.

The Noise Control performance of Load bearing steel stud systems would be equivalent to the Non Load bearing steel stud systems of the same type, as detailed in this manual.

#### **Non Load Bearing Steel Studs**

Specific design for serviceability and fire design criteria is required for greater wall heights than the limit stated in the relevant EPB Noise Control System specification. Consult the framing manufacturer for the serviceability design criteria. Noggings in accordance with the framing supplier.

#### **Product & Component Substitution**

When a product specified in a system as per this manual is substituted, the performance of the system will be compromised. Therefore the materials specified in the system must not be substituted. Elephant Plasterboard (NZ) Limited does not take any liability if substitution of components are implemented in any EPB Plasterboard Systems without consultation.

#### **Plasterboard Substitution Options**

The table below indicates which products can substitute the original plasterboard type specified.

- $\checkmark$  indicates that the FRR performance will be maintained
- X indicates that the FRR performance will be lower and so therefore the substitution is not allowed

<b>Original EPB</b>	EPB Plasterboard Substitution Options - FRR performance											
Plasterboard	Stan	dard		FireSmart		Multi	Smart	AquaSmart				
specified	10mm	13mm	10mm	13mm	16mm	10mm	13mm	10mm	13mm			
10mm Standard	-	$\checkmark$										
13mm Standard	Х	-	х	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\sqrt{1}$	$\checkmark$			
10mm FireSmart	Х	$\checkmark$	-	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
13mm FireSmart	Х	х	х	-	$\checkmark$	х	$\checkmark$	х	$\checkmark$			
16mm FireSmart	Х	х	х	х	-	х	Х	х	х			
10mm MultiSmart	Х	х	х	$\checkmark$	$\checkmark$	-	$\checkmark$	$\sqrt{1}$	$\checkmark$			
13mm MultiSmart	Х	Х	х	Х	$\checkmark$	х	-	Х	$\sqrt{1}$			

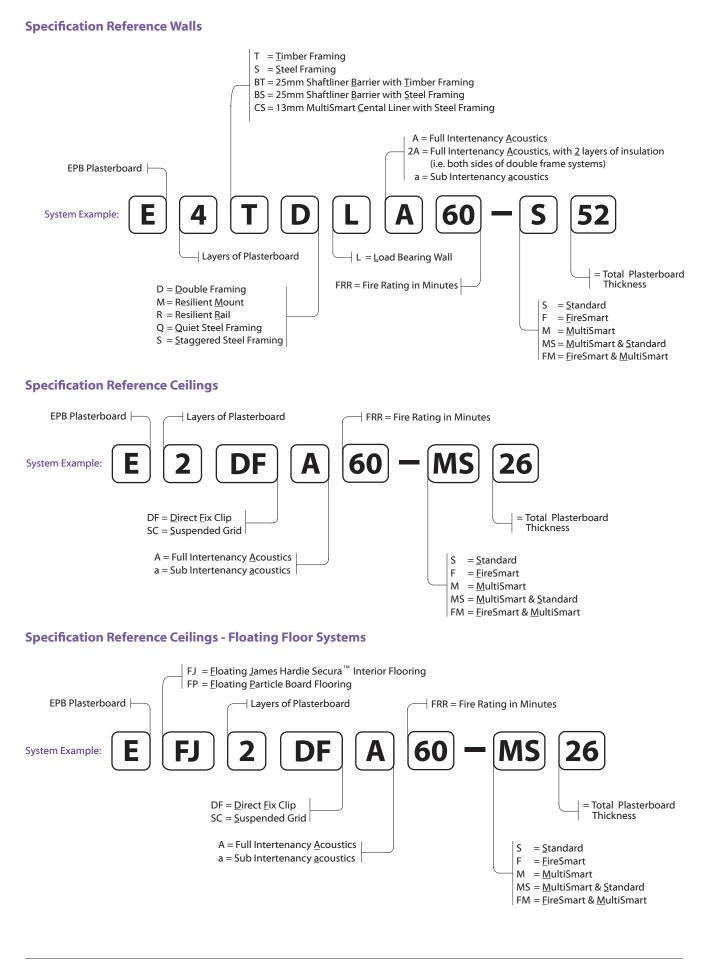
Note 1 : See table below for STC reduction when substituting

The table below details the reduction in STC performance when substituting original specified plasterboard with AquaSmart

- ✓ indicates that the FRR & STC performance will be maintained
- X indicates that the FRR performance will be lower and so therefore the substitution is not allowed

		STC performance								
Original EPB Plasterboard specified		10mm Aq	uaSmart	13mm AquaSmart						
		Single layer One side	Single Layer Both sides	Single layer One side	Single Layer Both sides					
10mm	Standard	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$					
13mm	Standard	Reduced by 1 STC	Reduced by 2 STC	$\checkmark$	$\checkmark$					
10mm	FireSmart	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$					
13mm	FireSmart	х	х	$\checkmark$	$\checkmark$					
16mm	FireSmart	х	х	Х	х					
10mm	MultiSmart	Reduced by 1 STC	Reduced by 2 STC	$\checkmark$	$\checkmark$					
13mm	MultiSmart	х	х	Reduced by 1 STC	Reduced by 2 STC					

#### Nomenclature:



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Load Bearing

#### Full Intertenancy Acoustic

E3TDLA30 Double Timber Frame
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1 Layor of Plasterboard to one side of

<u>3</u> Layers: 1 Layer of Plasterboard to one side of frame & 2 Layers of Plasterboard to other side of frame

Sustem Number Lining		FRR	Load	Noise Control		Lining Dominant
System Number	Suffix	FKK	Bearing Ability	STC	Rw	Lining Requirement
	-F30	30/30/30	LB	55	54	1 x 10mm EPB FireSmart one side 2 x 10mm EPB FireSmart other side
E3TDLA30	-S39	30/30/30	LB	57	56	1 x 13mm EPB Standard one side 2 x 13mm EPB Standard other side
	-M30	30/30/30	LB	58	57	1 x 10mm EPB MultiSmart one side 2 x 10mm EPB MultiSmart other side

#### Framing

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

Studs at 600mm centres maximum.

Nogs at 1350mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or non-load bearing partitions. Minimum frame dimension is 90 x 45mm. Refer to Minimum Partition width below.

#### **Minimum Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 205mm. Increasing the partition width would increase STC performance as per the table below.

Stud Depth	Space Between Frames	Partition Width (Excludes Board)	STC Rating
90mm x 2	25mm Min	205mm	+0
90mm x 2	75mm Min	255mm	+2

#### Wall Sound Absorber

Install Sound Absorber between studs and nogs on one side of the double frame. Use 90mm thick R2.2 glass wool insulation.

#### Plasterboard Lining

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of EPB Plasterboard lining on one side of frame and Two layers on the other side of framing as per specified system above. First layer or inner layer on each side of framing to be fixed vertically. Vertical or Horizontal fixing permitted on outer layer only. Use full height sheets where possible when fixing vertical. Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over solid timber framing. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

#### **Fixing of Linings**

Fasteners (As per Specified System Above)

	Side	Side Two		
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	Single Layer	
	Higl	h Thread Drywall Sci	ews	
E3TDLA30-F30	10mm	10mm	10mm	
E3TDLA30-M30	41 x 6g	51 x 7g	41 x 6g	
E3TDLA30-S39	13mm	13mm	13mm	
ESIDLASU-539	41 x 6g	51 x 7g	41 x 6g	

#### **Fastener Centres**

Inner Layer: Fix at 600 centres on vertical studs and 600mm centres horizontally on top and bottom plates.

Single or Outer Layer: Fix at 300mm centres at sheet perimeter and 300mm centres up each stud.

Place fasteners 50mm from sheet corners along the top and bottom plates. On end studs place additional fasteners 50-60mm vertically and no close than 10mm from plate to stud connections.

Place fasteners minimum 12mm from sheet edges and sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

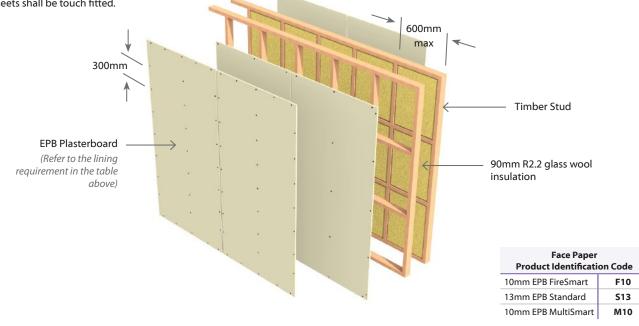
#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing or the inner layer. Then the single or outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

Inner Layer: Unstopped.

Outer or Single Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



**FULL INTERTENANCY** 

Load Bearing

Two Way FRR

#### E4TDLA45

Double Timber Frame

#### **<u>4</u>** Layers: 2 Layers of Plasterboard to each side of frame

Full Intertenancy **A**coustic

System Number	Lining	FRR	Load Bearing	Noise (	Control	Lining Pequivement
System Number	Suffix	FNN	Ability	STC	Rw	Lining Requirement
E4TDLA45	-S40	45/45/45	LB	58	57	2 x 10mm EPB Standard each side

#### Framing

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

Studs at 600mm centres maximum.

Nogs at 1350mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or nonload bearing partitions. Refer to Minimum Partition width.

#### **Minimum Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 205mm. Increasing the partition width would increase STC performance as per the table below.

Stud Depth	Space Between Frames	Partition Width (Excludes Board)	STC Rating
90mm x 2	25mm Min	205mm	+0
70mm x 2	65mm Min	205mm	+0
90mm x 2	75mm Min	255mm	+2
70mm x 2	115mm Min	255mm	+2

#### Wall Sound Absorber

Install Sound Absorber between studs and nogs on one side of the double frame. Use 90mm thick R2.2 glass wool insulation.

#### **Plasterboard Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of 10mm EPB Standard lining fixed on each side of timber framing.

First layer or inner layer on each side of framing to be fixed vertically. Vertical or Horizontal fixing permitted on outer layer only. Use full height sheets where possible. Inner layer joints on opposite side of frame should be offset.

All sheet joints must be fixed over solid timber framing. Vertical Joints
of the outer layer should be offset 600mm from those of the inner
layer. Sheet end butt joints must be formed over nogs and offset the
outer layer joints from the inner layer. Sheets shall be touch fitted.

#### **Fixing of Linings**

Fasteners

	Side	One	Side Two				
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer			
	High Thread Drywall Screws						
E4TDLA45-S40	10mm	10mm	10mm	10mm			
E41DLA45-540	32 x 6g	41 x 6g	32 x 6g	41 x 6g			

#### **Fastener Centres**

Inner Layer: Fix at 600mm centres at sheet perimeter and all studs. Outer Layer: Fix at 300mm centres at sheet perimeter and all studs. Place fasteners 50mm from sheet corners along the top and bottom plates. On end studs place additional fasteners 50-60mm vertically and no close than 10mm from plate to stud connections.

Place fasteners minimum 12mm from sheet edges and sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

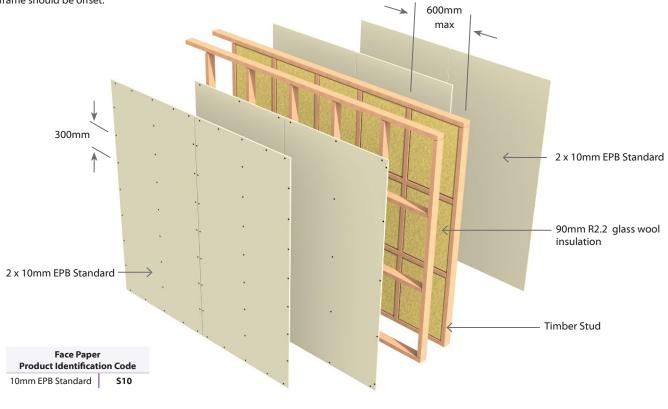
#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

#### Inner Layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



E2TDLA60

March 2025

#### Full Intertenancy Acoustic

System Number	Lining	FRR	Load Bearing	Noise Control		Lining Requirement
System Number	Suffix	Ability	STC	STC Rw		
E2TDLA60	-M26	60/60/60	LB	55*	54	1 x 13mm EPB MultiSmart each side

#### Framing

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

**D**ouble **T**imber Frame

**2** Layers: 1 Layer of Plasterboard to each side of frame

Studs at 600mm centres maximum.

Nogs at 800mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or non-load bearing partitions. Minimum frame dimension is  $90 \times 45$ mm. Refer to Minimum partition width.

#### **Minimum Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 205mm. Increasing the partition width would increase STC performance as per the table below.

Stud Depth	Space Between Frames	Partition Width (Excludes Board)	STC Rating
90mm x 2	25mm Min	205mm	+0
90mm x 2	75mm Min	255mm	+2

#### Wall Sound Absorber

Install Sound Absorber between studs and nogs on both sides of the double frame. Use 90mm thick R2.2 glass wool insulation.

#### **Plasterboard Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of 13mm EPB MultiSmart lining fixed on each side of timber framing.

Vertical fixing only permitted. Use full height sheets where possible. Sheet joints on opposite side of frame should be offset. All sheet joints must be fixed over solid timber framing. Sheet end butt joints must be formed over nogs. Sheets shall be touch fitted.

#### Fixing of Linings Fasteners

System Number	Side One	Side Two		
	High Thread Drywall Screws			
E2TDLA60-M26	13mm	13mm		
	41 x 6a	41 x 6g		

Load Bearing

#### Fastener Centres

Fix at 300mm centres at sheet perimeter and up all other studs. Place fasteners 50mm from sheet corners along the top and bottom plates. On end studs place additional fasteners 50-60mm vertically and no close than 10mm from plate to stud connections.

Place fasteners minimum 12mm from sheet edges and sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur.

#### Acoustic Sealant

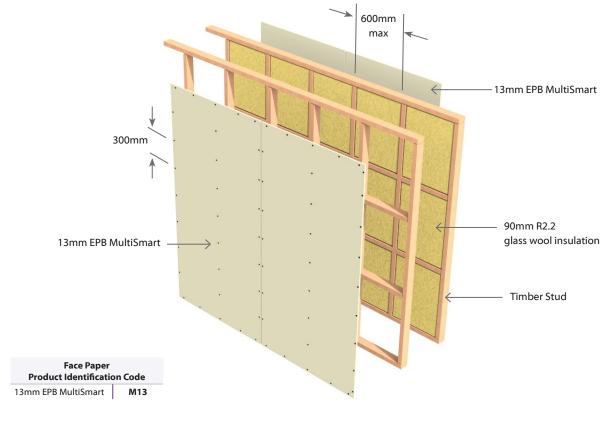
A bead of acoustic sealant is required around the perimeter of the framing and the single layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.

#### **STC Reduction Warning**

Replacing one or some of the linings above with the equivalent thickness of EPB AquaSmart could result in the STC falling below full intertenancy requirements. Refer to table on page 17 intertenancy system.



**FULL INTERTENANCY** 

Load Bearing

Two Way FRR

#### E3TDLA60

<u>D</u>ouble <u>T</u>imber Frame

### **<u>3</u>** Layers: 1 Layer of Plasterboard to one side of frame & 2 Layers of Plasterboard to other side of frame

#### Full Intertenancy **A**coustic

Custom Number	Lining	500	Load Bearing	Noise	Control	Lining Requirement	
System Number	Suffix	FRR	Ability	STC	Rw		
	-MS39	60/60/60	LB	58	57	1 x 13mm EPB MultiSmart one side 2 x 13mm EPB Standard other side	
E3TDLA60	-M33	60/60/60	LB	59	58	1 x 13mm EPB MultiSmart one side 2 x 10mm EPB MultiSmart other side	
	-M39	60/60/60	LB	61	60	1 x 13mm EPB MultiSmart one side 2 x 13mm EPB MultiSmart other side	

#### Framing

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

Studs at 600mm centres maximum.

Nogs at 1350mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or non-load bearing partitions. Minimum frame dimension is 90 x 45mm. Refer to Minimum Partition width below.

#### **Minimum Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 205mm. Increasing the partition width would increase STC performance as per the table below.

Stud Depth	Space Between Frames	Partition Width (Excludes Board)	STC Rating
90mm x 2	25mm Min	205mm	+0
90mm x 2	75mm Min	255mm	+2

#### Wall Sound Absorber

Install Sound Absorber between studs and nogs on one side of the double frame. Use 90mm thick R2.2 glass wool insulation.

#### **Plasterboard Lining**

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of EPB Plasterboard lining on one side of frame and Two layers on the other side of framing as per specified system above. First layer or inner layer on each side of framing to be fixed vertically. Vertical or Horizontal fixing permitted on outer layer only. Use full height or full length sheets where possible. Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over solid timber framing. Vertical Joints of the outer layer should be offset 600mm from those of the inner layer. Sheet end butt joints must be formed over nogs. Offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

#### Fixing of Linings

#### Fasteners (As per Specified System Above)

	Side	Side Two			
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	Single Layer		
-	High Thread Drywall Screws				
E3TDLA60-M33	10mm	10mm	13mm		
	41 x 6g	51 x 7g	41 x 6g		
E3TDLA60-MS39 E3TDLA60-M39	13mm	13mm	13mm		
	41 x 6g	51 x 7g	41 x 6g		

#### **Fastener Centres**

Inner Layer: Fix at 600 centres on vertical studs and 600mm centres horizontally on top and bottom plates.

Single or Outer Layer: Fix at 300mm centres at sheet perimeter and 300mm centres up each stud.

Place fasteners 50mm from sheet corners along the top and bottom plates. On end studs place additional fasteners 50-60mm vertically and no close than 10mm from plate to stud connections.

Place fasteners minimum 12mm from sheet edges and sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

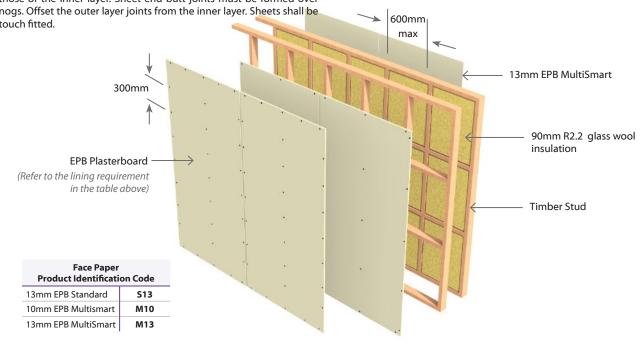
#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing or the inner layer. Then the single or outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

#### Inner Layer: Unstopped.

Outer or Single Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



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E4TDLA60

Load Bearing

Full Intertenancy Acoustic

#### **<u>4</u>** Layers: 2 Layers of Plasterboard to each side of frame

Double Timber Frame

Custom Number	Lining		Load	Noise Control			
System Number	Suffix	FRR	Bearing Ability	STC	Rw	Lining Requirement	
	- <b>S46</b> 60/60		LB	59	58	1 x 10mm EPB Standard & 1 x 13mm Standard each side	
E4TDLA60	-F40	60/60/60	LB	60	59	2 x 10mm EPB FireSmart each side	
E4TDLA00	-S52	60/60/60	LB	61	60	2 x 13mm EPB Standard each side	
	-M40	60/60/60	LB	62	61	2 x 10mm EPB MultiSmart each side	

#### Framing

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

Studs at 600mm centres maximum.

Nogs at 1350mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or nonload bearing partitions. Refer to Minimum Partition width.

#### **Minimum Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 205mm. Increasing the partition width would increase STC performance as per the table below.

Stud Depth	Space Between Frames	Partition Width (Excludes Board)	STC Rating
90mm x 2	25mm Min	205mm	+0
90mm x 2	75mm Min	255mm	+2

### Wall Sound Absorber

Install Sound Absorber between studs and nogs on one side of the double frame. Use 90mm thick R2.2 glass wool insulation.

#### Plasterboard Lining

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of EPB Plasterboard lining on one side of frame and Two layers on the other side of framing as per specified system above.

First layer or inner layer on each side of framing to be fixed vertically. Vertical or Horizontal fixing permitted on outer layer only. Use full height or full length sheets where possible. Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over solid timber framing. Vertical Joints of the outer layer should be offset 600mm from those of the inner layer. Sheet end butt joints must be formed over nogs. Offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

#### **Fixing of Linings**

# Fasteners (As per Specified System Above)

Side	One	Side Two				
1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer			
High Thread Drywall Screws						
10mm	10mm	10mm	10mm			
41 x 6g	51 x 7g	41 x 6g	51 x 7g			
10mm	13mm	10mm	13mm			
41 x 6g	51 x 7g	41 x 6g	51 x 7g			
13mm	13mm	13mm	13mm			
41 x 6g	51 x 7g	41 x 6g	51 x 7g			
	1 <sup>st</sup> Layer 10mm 41 x 6g 10mm 41 x 6g 13mm	High Thread D           10mm         10mm           41 x 6g         51 x 7g           10mm         13mm           41 x 6g         51 x 7g           10mm         13mm           41 x 6g         51 x 7g	1* Layer         2 <sup>nd</sup> Layer         1* Layer           High Thread Drywall Screws           10mm         10mm           41 x 6g         51 x 7g         41 x 6g           10mm         13mm         10mm           41 x 6g         51 x 7g         41 x 6g           10mm         13mm         10mm           41 x 6g         51 x 7g         41 x 6g			

#### **Fastener Centres**

Inner Layer: Fix at 600mm centres at sheet perimeter and all studs. Outer Layer: Fix at 300mm centres at sheet perimeter and all studs. Place fasteners 50mm from sheet corners along the top and bottom plates. On end studs place additional fasteners 50-60mm vertically and no close than 10mm from plate to stud connections. Place fasteners minimum 12mm from sheet edges and sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

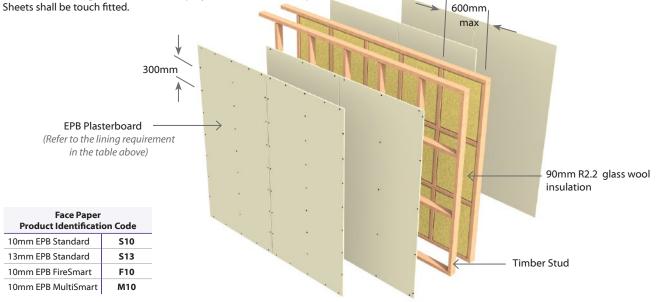
#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

# Jointing

Inner Layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



March 2025

# E2TDLA75

**2** Layers: 1 Layer of Plasterboard to each side of frame

**D**ouble **T**imber Frame

System Number	Lining	FRR Bearing		Control	ol Lining Requirement	
System Number	Suffix	FNN	Ability	STC	Rw	
E2TDLA75	-F32	75/75/75	LB	56	55	1 x 16mm EPB FireSmart each side

#### Framing

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

Studs at 600mm centres maximum.

Nogs at 800mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or nonload bearing partitions. Refer to Minimum partition width.

#### **Minimum Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 205mm. Increasing the partition width would increase STC performance as per the table below.

Stud Depth	Space Between Frames	Partition Width (Excludes Board)	STC Rating
90mm x 2	25mm Min	205mm	+0
90mm x 2	75mm Min	255mm	+2

#### Wall Sound Absorber

Install Sound Absorber between studs and nogs on both sides of the double frame. Use 90mm thick R2.2 glass wool insulation.

#### Plasterboard Lining

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of 16mm EPB FireSmart lining fixed on each side of timber framing.

Vertical fixing only permitted. Use full height sheets where possible. All sheet joints must be fixed over solid timber framing. Sheet end butt joints must be formed over nogs. Sheets shall be touch fitted.

#### Fixing of Linings Fasteners

astellers								
Custom Number	Side One	Side Two						
System Number	High Thread Drywall Screws							
E2TDLA75-F32	16mm	16mm						
EZIDLA/5-F52	51 x 7g	51 x 7g						

#### **Fastener Centres**

Fix at 300mm centres at sheet perimeter and up all other studs. Place fasteners 50mm from sheet corners along the top and bottom plates. On end studs place additional fasteners 50-60mm vertically and no close than 10mm from plate to stud connections. Place fasteners minimum 12mm from sheet edges and sheet ends.

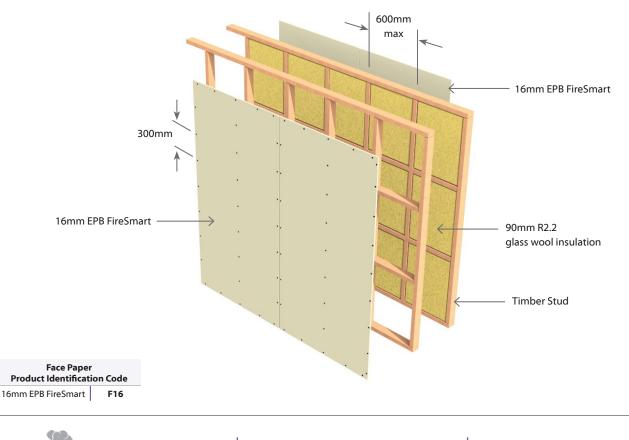
Place fasteners at 200mm centres where sheet end butt joints occur.

#### Acoustic Sealant

A bead of acoustic sealant is required around the perimeter of the framing and the single layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



Load Bearing Two Way FRR

Full Intertenancy Acoustic

E4TDLA90

March 2025

#### 4 Layers: 2 Layers of Plasterboard to each side of frame

Double Timber Frame

Full Intertenancy Acoustic

System Number		Lining FRR		Load Noise Control		Lining Requirement	
System Number			Rw				
	-F52	90/90/90	LB	64	63	2 x 13mm EPB FireSmart each side	
E4TDLA90	-M52	90/90/90	LB	67	66	2 x 13mm EPB MultiSmart each side	

#### Framing

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

Studs at 600mm centres maximum.

Nogs at 1350mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or nonload bearing partitions. Refer to Minimum Partition width.

#### **Minimum Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 205mm. Increasing the partition width would increase STC performance as per the table below.

Stud Depth	Space Between Frames	Partition Width (Excludes Board)	STC Rating
90mm x 2	25mm Min	205mm	+0
90mm x 2	75mm Min	255mm	+2

#### Wall Sound Absorber

Install Sound Absorber between studs and nogs on one side of the double frame. Use 90mm thick R2.2 glass wool insulation.

#### **Plasterboard Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of 13mm EPB MultiSmart lining fixed on each side of timber framing.

First layer or inner layer on each side of framing to be fixed vertically. Vertical or Horizontal fixing permitted on outer layer only. Use full height or full length sheets where possible. Inner layer joints on opposite side of frame should be offset.

All sheet joints must be fixed over solid timber framing. Vertical Joints of the outer layer should be offset 600mm from those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

Load Bearing

# Fixing of Linings

rasteriers									
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer							
System Number	High Thread Drywall Screws								
E4TDLA90-F52	13mm	13mm							
E4TDLA90-M52	41 x 6g	51 x 7g							

#### **Fastener Centres**

Inner Layer: Fix at 600mm centres at sheet perimeter and all studs. Outer Layer: Fix at 300mm centres at sheet perimeter and all studs. Place fasteners 50mm from sheet corners along the top and bottom plates. On end studs place additional fasteners 50-60mm vertically and no close than 10mm from plate to stud connections. Place fasteners minimum 12mm from sheet edges and sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

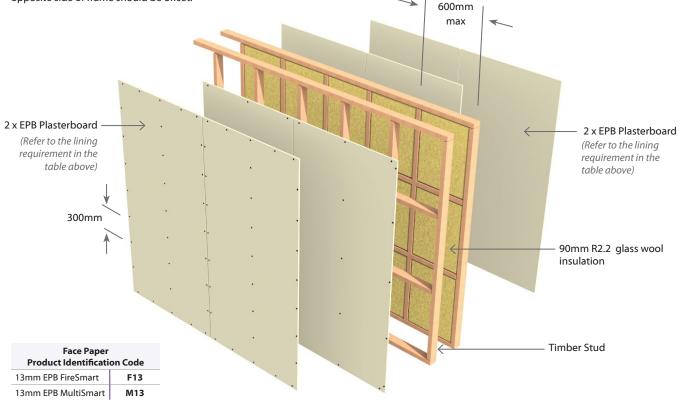
#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

#### Inner Layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



Load Bearing

Two Way FRR

E3TMLA30

Single <u>T</u>imber Frame with Resilient <u>M</u>ount

# **<u>3</u>** Layers: 1 Layer of Plasterboard on Framing side & 2 Layers of Plasterboard on Mount side

Full Intertenancy **A**coustic

System Number Lining				Load Noise Control		Lining Requirement	
System Number	Suffix	FRR	Ability			Linnig Requirement	
E3TMLA30	-S39	30/30/30	LB	55	54	Framing Side: 1 x 13mm EPB Standard Mount Side: 2 x 13mm EPB Standard	
ESTIVILASU	-M30	30/30/30	LB	56	55	Framing Side: 1 x 10mm EPB MultiSmart Mount Side: 2 x 10mm EPB MultiSmart	

#### Framing

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

Studs at 600mm centres maximum.

Nogs at 1350mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or nonload bearing partitions. Minimum 90 x 45mm frame dimension.

#### **Minimum Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 130mm.

Stud Depth	Mount + Channel	Lining Suffix	Total Plasterboard thickness	Total Partition Width
00	90mm 40mm -	M30	30mm	160mm
90mm		S39	39mm	169mm

#### **Wall Sound Absorber**

Install Sound Absorber between studs and nogs of the frame. Use 90mm thick R2.2 glass wool insulation.

#### **Acoustic Resilient Mount**

The Resilient Mount shall be fixed to the studs at 600mm centres vertically and on every alternative stud using 32mm x 8g wafer head screws. When adjusting the clip for depth, 3mm rubber must remain between the underside of the steel spacer head and the furring channel. The Furring channels are clipped horizontally into the Mounts. Joints must be made as close as possible to the clips.

#### Plasterboard Lining

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of EPB Plasterboard lining fixed vertically on framing side and Two layers fixed vertically on the furring channel on the other side as per specified system above. Vertical fixing only permitted. Vertical joints of outer layer should be offset by 600mm from those of the inner layer. Use full height sheets where possible. All sheet joints on the framing side must be fixed over solid timber framing. Sheet end butt joints must be formed over nogs or furring channels and offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

#### Fixing of Linings

#### Fasteners (As per Specified System Above)

	Furring Ch	annel Side	Framing Side
System Number	1 <sup>st</sup> Layer 2 <sup>nd</sup> Layer		Single Layer
Jysten Number	Self-Tapping D	High Thread Drywall Screws	
E3TMLA30-M30	10mm	10mm	13mm
ESTMLASO-MISU	41 x 6g	51 x 7g	41 x 6g
53TMI 430 530	13mm	13mm	13mm
E3TMLA30-S39	41 x 6g	51 x 7g	41 x 6g

#### **Fastener Centres**

Framing Side: Fix at 300mm centres at sheet perimeter and up each stud.

**Resilient Mount Side:** Fix 300mm centres along each furring channel. Place fasteners minimum 12mm from sheet edges and sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur.

#### Avoid outer layer screws from hitting inner layer screws.

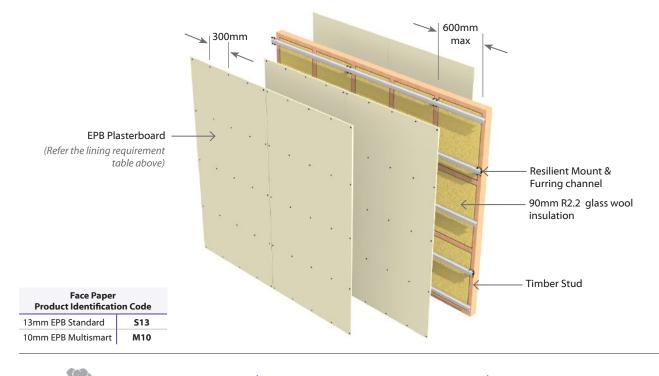
#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing or the inner layer. The single or outer layer is then bedded onto the bead. The perimeter junctions of the wall must be airtight.

# Jointing

#### Inner Layer: Unstopped.

Outer or Single Layer: All fastener heads stopped and all sheet joints reinforced and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



E4TMLA30

FULL INTERTENANCY

March 2025

Two Way FRR

# **<u>4</u>** Layers: 2 Layers of Plasterboard to each side of frame

Single Timber Frame with Resilient Mount

Full Intertenancy **A**coustic

System Number	Lining FRR		Load Bearing	Noise control		Lining Requirement
System Number	Suffix	FNN	Ability	STC Rw	Lining Requirement	
E4TMLA30	-F40	30/30/30	LB	58	57	Framing Side: 2 x 10mm EPB FireSmart Mount Side: 2 x 10mm EPB FireSmart

#### Framing

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

Studs at 600mm centres maximum.

Nogs at 1350mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or nonload bearing partitions. Minimum frame dimension 90 x 45mm.

## **Minimum Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 130mm.

StudMount +LiningDepthChannelSuffix			Total Plasterboard thickness	Total Partition Width	
90	)mm	40mm	S40	40mm	170mm

#### Wall Sound Absorber

Install Sound Absorber between studs and nogs of the frame. Use 90mm thick R2.2 glass wool insulation.

#### **Acoustic Resilient Mount**

The Resilient Mount shall be fixed to the studs at 600mm centres vertically and on every alternative stud using 32mm x 8g wafer head screws. When adjusting the clip for depth, 3mm rubber must remain between the underside of the steel spacer head and the furring channel. The Furring channels are clipped horizontally into the Mounts. Joints must be made as close as possible to the clips.

#### **Plasterboard Lining**

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of 10mm EPB FireSmart lining fixed vertically on each side of the timber framing.

Vertical fixing only permitted. Vertical joints of outer layer should be offset by 600mm from those of the inner layer. Use full height sheets where possible. All sheet joints on the framing side must be fixed over solid timber framing. Sheet end butt joints must be formed over nogs or furring channels and offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

Load Bearing

#### **Fixing of Linings**

Fasteners

	Furring Ch	annel Side	Framing Side		
System Number	1 <sup>st</sup> Layer 2 <sup>nd</sup> Layer		1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	
		ng Drywall ews	5	ad Drywall ews	
54TMI 430 540	10mm	10mm	10mm	10mm	
E4TMLA30-F40	25 x 6g	32 x 6g	41 x 6g	51 x 7g	

#### **Fastener Centres**

Framing Side: Fix at 300mm centres at sheet perimeter and up each stud.

**Resilient Mount Side:** Fix 300mm centres along each furring channel. Place fasteners minimum 12mm from sheet edges and sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

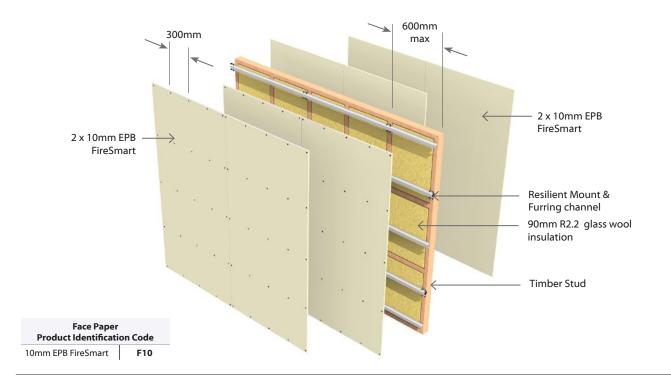
#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

#### Inner Layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



Load Bearing

March 2025

Two Way FRR

E4TMLA45

Single <u>T</u>imber Frame with Resilient <u>M</u>ount

Full Intertenancy Acoustic

System Number	Lining FRR		Load Noise Co Bearing		Control	Lining Requirement	
System Number	Suffix	FNN	Ability	STC	Rw	Lining Requirement	
E4TMLA45	-\$52	45/45/45	LB	61	60	Framing Side: 2 x 13mm EPB Standard Mount Side: 2 x 13mm EPB Standard	

#### Framing

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

**<u>4</u>** Layers: 2 Layers of Plasterboard to each side of frame

Studs at 600mm centres maximum.

Nogs at 1350mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or nonload bearing partitions. Minimum frame dimension 90 x 45mm.

#### **Minimum Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 130mm.

Stud			Total Plasterboard	Total
Depth			thickness	Partition Width
90mm	40mm	S52	52mm	182mm

#### Wall Sound Absorber

Install Sound Absorber between studs and nogs of the frame. Use 90mm thick R2.2 glass wool insulation.

#### **Acoustic Resilient Mount**

The Resilient Mount shall be fixed to the studs at 600mm centres vertically and on every alternative stud using 32mm x 8g wafer head screws. When adjusting the clip for depth, 3mm rubber must remain between the underside of the steel spacer head and the furring channel. The Furring channels are clipped horizontally into the Mounts. Joints must be made as close as possible to the clips.

#### **Plasterboard Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of 13mm EPB Standard lining fixed vertically on each side of the timber framing.

Vertical fixing only permitted. Vertical joints of outer layer should be offset by 600mm from those of the inner layer. Use full height sheets where possible. All sheet joints on the framing side must be fixed over solid timber framing. Sheet end butt joints must be formed over nogs or furring channels and offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

#### **Fixing of Linings**

Fasteners

	Furring Ch	annel Side	Framing Side		
System Number	1 <sup>st</sup> Layer 2 <sup>nd</sup> Layer		1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	
System Number	1	ng Drywall ews	High Thread Drywall Screws		
54TMI 445 652	13mm	13mm	13mm	13mm	
E4TMLA45-S52	25 x 6q	41 x 6q	41 x 6q	51 x 7q	

#### **Fastener Centres**

Framing Side: Fix at 300mm centres at sheet perimeter and up each stud.

**Resilient Mount Side:** Fix 300mm centres along each furring channel. Place fasteners minimum 12mm from sheet edges and sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

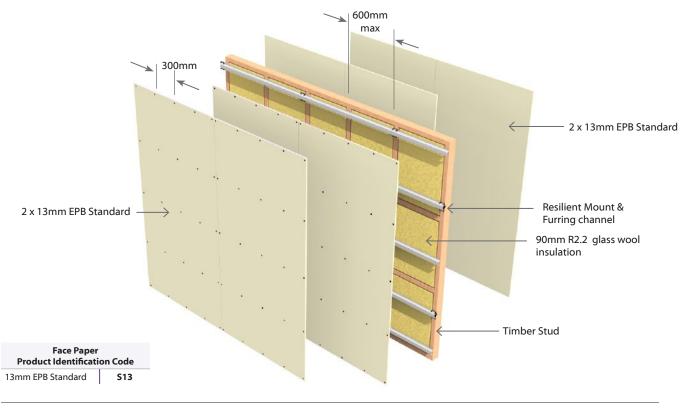
#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

#### Inner Layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



E3TMLA60

3 Layers:

**FULL INTERTENANCY** 

Single Timber Frame with Resilient Mount

1 Layer of Plasterboard on Framing side &

March 2025

# Full Intertenancy Acoustic

<u>3</u> Layers: 2 Laye	Full Intertenancy <u>A</u> cou						
System Number	Lining	FRR	Load Bearing	Noise control		Lining Requirement	
•	Suffix		Ability	STC	Rw	J .	
E3TMLA60	-M39	60/60/60	LB	58	57	Framing Side: 1 x 13mm	

#### Framing

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

Studs at 600mm centres maximum.

Nogs at 1350mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or nonload bearing partitions. Minimum 90 x 45mm frame dimension.

#### **Minimum Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 130mm.

Stud	Mount +	Lining	Total Plasterboard	Total
Depth	Channel	Suffix	thickness	Partition Width
90mm	40mm	M39	39mm	169mm

#### Wall Sound Absorber

Install Sound Absorber between studs and nogs of the frame. Use 90mm thick R2.2 glass wool insulation.

#### **Acoustic Resilient Mount**

The Resilient Mount shall be fixed to the studs at 600mm centres vertically and on every alternative stud using 32mm x 8g wafer head screws. When adjusting the clip for depth, 3mm rubber must remain between the underside of the steel spacer head and the furring channel. The Furring channels are clipped horizontally into the Mounts. Joints must be made as close as possible to the clips.

#### **Plasterboard Lining**

NB: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layer of 13mm EPB MultiSmart lining fixed vertically on the mount side and One layer of 13mm EPB MultiSmart fixed vertically to the framing side.

Vertical fixing only permitted. Vertical joints of outer laver should be offset by 600mm from those of the inner layer. Use full height sheets where possible. All sheet joints on the framing side must be fixed over solid timber framing. Sheet end butt joints must be formed over nogs or furring channels and offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

Mount Side: 2 x 13mm EPB MultiSmart

Load Bearing

#### **Fixing of Linings**

Fasteners

System Number	Furring Ch	Framing Side		
	1 <sup>st</sup> Layer 2 <sup>nd</sup> Layer		Single Layer	
	Self-Tapping D	Orywall Screws	High Thread Drywall Screws	
52TMI 4 60 M20	13mm	13mm	13mm	
E3TMLA60-M39	25 x 6g	41 x 6g	41 x 6g	

#### **Fastener Centres**

Framing Side: Fix at 300mm centres at sheet perimeter and up each stud.

Resilient Mount Side: Fix 300mm centres along each furring channel. Place fasteners minimum 12mm from sheet edges and sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

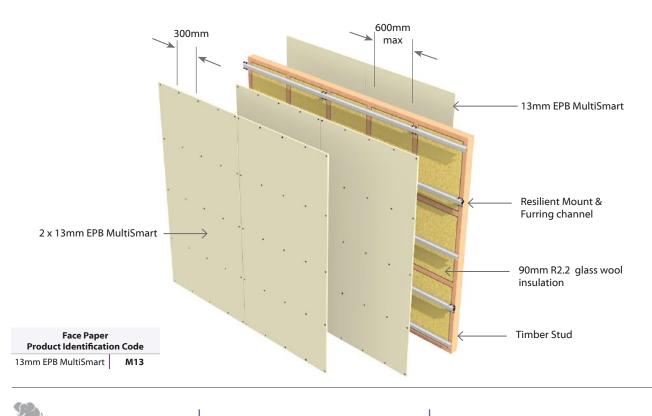
#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing or the inner layer. The single or outer layer is then bedded onto the bead. The perimeter junctions of the wall must be airtight.

# Jointing

#### Inner Layer: Unstopped.

Outer or Single Layer: All fastener heads stopped and all sheet joints reinforced and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



Load Bearing

Two Way FRR

E4TMLA60

Single <u>T</u>imber Frame with Resilient <u>M</u>ount

Full Intertenancy <u>A</u>coustic

Sustan Number	Lining FRR		Load Noise Control Bearing		Control	Lining Requirement	
System Number	Suffix	FRR	Ability	STC	Rw	Lining Requirement	
E4TMLA60	-M40	60/60/60	LB	62	61	Framing Side: 2 x 10mm EPB MultiSmart Mount Side: 2 x 10mm EPB MultiSmart	

#### Framing

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

**<u>4</u>** Layers: 2 Layers of Plasterboard to each side of frame

Studs at 600mm centres maximum.

Nogs at 1350mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or nonload bearing partitions. Minimum frame dimension 90 x 45mm.

#### **Minimum Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 130mm.

Stud	Mount +	Lining	Total Plasterboard	Total
Depth	Channel	Suffix	thickness	Partition Width
90mm	40mm	M40	40mm	170mm

#### Wall Sound Absorber

Install Sound Absorber between studs and nogs of the frame. Use 90mm thick R2.2 glass wool insulation.

#### **Acoustic Resilient Mount**

The Resilient Mount shall be fixed to the studs at 600mm centres vertically and on every alternative stud using 32mm x 8g wafer head screws. When adjusting the clip for depth, 3mm rubber must remain between the underside of the steel spacer head and the furring channel. The Furring channels are clipped horizontally into the Mounts. Joints must be made as close as possible to the clips.

#### **Plasterboard Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of 10mm EPB MultiSmart lining fixed vertically on each side of the timber framing.

Vertical fixing only permitted. Vertical joints of outer layer should be offset by 600mm from those of the inner layer. Use full height sheets where possible. All sheet joints on the framing side must be fixed over solid timber framing. Sheet end butt joints must be formed over nogs or furring channels and offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

#### **Fixing of Linings**

Fasteners

	Furring Ch	annel Side	Framing Side		
System Number	1 <sup>st</sup> Layer 2 <sup>nd</sup> Layer		1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	
		ng Drywall ews	High Thread Drywall Screws		
FATMI ACO MAO	10mm	10mm	10mm	10mm	
E4TMLA60-M40	25 x 6q	32 x 6q	41 x 6q	51 x 7q	

#### **Fastener Centres**

Framing Side: Fix at 300mm centres at sheet perimeter and up each stud.

**Resilient Mount Side:** Fix 300mm centres along each furring channel. Place fasteners minimum 12mm from sheet edges and sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

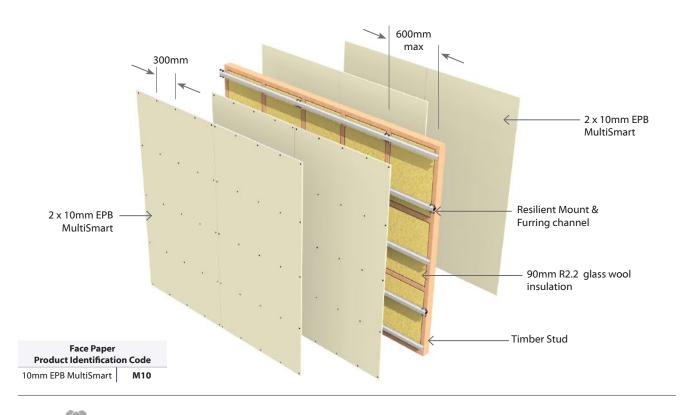
#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

#### Inner Layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



E4TMLA90

FULL INTERTENANCY M

March 2025

Two Way FRR

## **<u>4</u>** Layers: 2 Layers of Plasterboard to each side of frame

Single Timber Frame with Resilient Mount

Full Intertenancy Acoustic

System Number	Lining FRR		Load Nois Bearing		Control	Lining Requirement
System Number	Suffix	FNN	Ability STC	Rw	Lining Requirement	
E4TMLA90	-M52	90/90/90	LB	63	62	Framing Side: 2 x 13mm EPB MultiSmart Mount Side: 2 x 13mm EPB MultiSmart

#### Framing

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

Studs at 600mm centres maximum.

Nogs at 1350mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or nonload bearing partitions. Minimum frame dimension 90 x 45mm.

# **Minimum Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 130mm.

Stud			Total Plasterboard	Total
Depth			thickness	Partition Width
90mm	40mm	M52	52mm	182mm

#### Wall Sound Absorber

Install Sound Absorber between studs and nogs of the frame. Use 90mm thick R2.2 glass wool insulation.

#### **Acoustic Resilient Mount**

The Resilient Mount shall be fixed to the studs at 600mm centres vertically and on every alternative stud using 32mm x 8g wafer head screws. When adjusting the clip for depth, 3mm rubber must remain between the underside of the steel spacer head and the furring channel. The Furring channels are clipped horizontally into the Mounts. Joints must be made as close as possible to the clips.

#### **Plasterboard Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of 13mm EPB MultiSmart lining fixed vertically on each side of the timber framing.

Vertical fixing only permitted. Vertical joints of outer layer should be offset by 600mm from those of the inner layer. Use full height sheets where possible. All sheet joints on the framing side must be fixed over solid timber framing. Sheet end butt joints must be formed over nogs or furring channels and offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

Load Bearing

#### **Fixing of Linings**

Fasteners

	Furring Ch	annel Side	Framing Side		
System Number	1 <sup>st</sup> Layer 2 <sup>nd</sup> Layer		1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	
	Self-Tappii Scre	ng Drywall ews	High Thread Drywall Screws		
54TMI 400 M52	13mm	13mm	13mm	13mm	
E4TMLA90-M52	25 x 6g	41 x 6g	41 x 6g	51 x 7g	

#### Fastener Centres

Framing Side: Fix at 300mm centres at sheet perimeter and up each stud.

**Resilient Mount Side:** Fix 300mm centres along each furring channel. Place fasteners minimum 12mm from sheet edges and sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

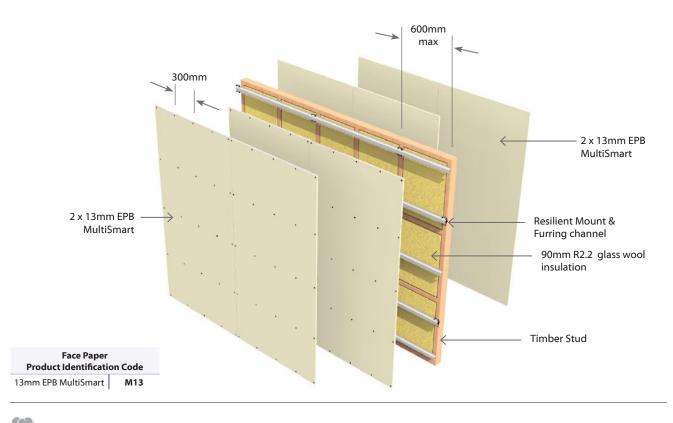
#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

#### Inner Layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



Load Bearing

E4TRLA45

Single <u>T</u>imber Frame with Resilient <u>R</u>ail

Full Intertenancy <u>A</u>coustic

March 2025

Two Way FRR

System Number	Lining FRR		Load Nois Bearing		Control	Lining Requirement
System Number	Suffix	FNN	Ability	STC	Rw	Lining Requirement
E4TRLA45	-\$52	45/45/45	LB	55	54	Framing Side: 2 x 13mm EPB Standard Rail Side: 2 x 13mm EPB Standard

#### Framing

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

**<u>4</u>** Layers: 2 Layers of Plasterboard to each side of frame

Studs at 600mm centres maximum.

Nogs at 1350mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or nonload bearing partitions. Minimum frame dimension 90 x 45mm.

# **Minimum Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 103mm.

Stud Depth	Rail	Lining Suffix	Total Plasterboard thickness	Total Partition Width
90mm	13mm	<b>S</b> 52	52mm	155mm

#### Wall Sound Absorber

Install Sound Absorber between studs and nogs of the frame. Use 90mm thick R2.2 glass wool insulation.

#### **Acoustic Resilient Rail**

The Resilient Rail shall be fixed to the studs at 600mm centres using 32mm x 8g wafer head self-tapping screws through the base flange and into each stud. The base flange to face downwards and resilient edge upwards. Channel may be joined by nesting together with no more than 20mm overlap. Fasten through both channels into stud. Highest resilient channel shall be fixed no more than 75mm from the ceiling line and the lowest channel, 50mm from the floor line.

#### Plasterboard Lining

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of 13mm EPB Standard fixed vertically on each side of the timber framing.

Vertical fixing only permitted. Vertical joints of outer layer should be offset by 600mm from those of the inner layer. Use full height sheets where possible. All sheet joints on the framing side must be fixed over solid timber framing. Sheet end butt joints must be formed over nogs or rails and offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

# Fixing of Linings

Fasteners

	Resilient	Rail Side	Framing Side		
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	
System Number		ng Drywall ews	High Thread Drywall Screws		
	13mm	13mm	13mm	13mm	
E4TRLA45-S52	25 x 6g	41 x 6g	41 x 6g	51 x 7g	

#### **Fastener Centres**

Framing Side: Fix at 300mm centres at sheet perimeter and up each stud.

**Resilient Rail Side:** Fix 300mm centres along each resilient rail. Place fasteners minimum 12mm from sheet edges and sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

Lining screws to be fastened to the side of the studs and nogs, to ensure that they don't penetrate or touch the framing.

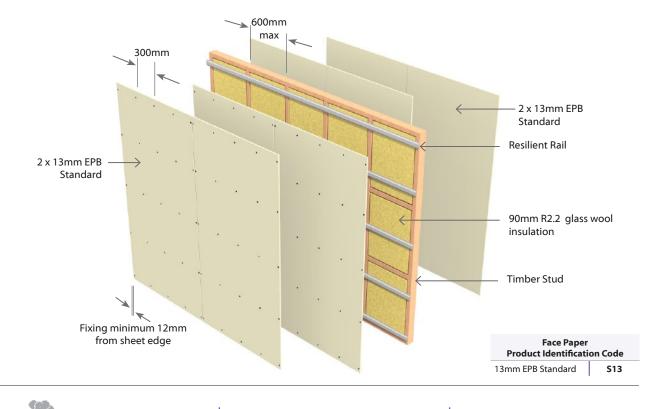
#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

#### Inner Layer: Unstopped

Outer Layer: All fastener heads stopped and all sheet joints reinforced and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



E4TRLA60

FULL INTERTENANCY M

March 2025

Two Way FRR

**<u>4</u>** Layers: 2 Layers of Plasterboard to each side of frame

Single Timber Frame with Resilient Rail

Full Intertenancy Acoustic

System Number	Lining FRR		Load Noise Cont Bearing		Control	Lining Requirement
System Number	Suffix	FNN	Ability	STC	Rw	Lining Requirement
E4TRLA60	-M40	60/60/60	LB	56	55	Framing Side: 2 x 10mm EPB MultiSmart Rail Side: 2 x 10mm EPB MultiSmart

#### Framing

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

Studs at 600mm centres maximum.

Nogs at 1350mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or nonload bearing partitions. Minimum frame dimension 90 x 45mm.

## **Minimum Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 103mm.

Stud Depth	Rail	Lining Suffix	Total Plasterboard thickness	Total Partition Width
90mm	13mm	M40	40mm	143mm

#### Wall Sound Absorber

Install Sound Absorber between studs and nogs of the frame. Use 90mm thick R2.2 glass wool insulation.

#### **Acoustic Resilient Rail**

The Resilient Rail shall be fixed to the studs at 600mm centres using 32mm x 8g wafer head self-tapping screws through the base flange and into each stud. The base flange to face downwards and resilient edge upwards. Channel may be joined by nesting together with no more than 20mm overlap. Fasten through both channels into stud. Highest resilient channel shall be fixed no more than 75mm from the ceiling line and the lowest channel, 50mm from the floor line.

#### **Plasterboard Lining**

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of 10mm EPB MultiSmart fixed vertically on each side of the timber framing.

Vertical fixing only permitted. Vertical joints of outer layer should be offset by 600mm from those of the inner layer. Use full height sheets where possible. All sheet joints on the framing side must be fixed over solid timber framing. Sheet end butt joints must be formed over nogs or rails and offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

Load Bearing

# Fixing of Linings

#### Fasteners

	Resilient	Rail Side	Framing Side		
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	
System Number	Self-Tappii Scre	ng Drywall ews	High Thread Drywall Screws		
	10mm	10mm	10mm	10mm	
E4TRLA60-M40	25 x 6g	32 x 6g	41 x 6g	51 x 7g	

#### **Fastener Centres**

Framing Side: Fix at 300mm centres at sheet perimeter and up each stud.

**Resilient Rail Side:** Fix 300mm centres along each resilient rail. Place fasteners minimum 12mm from sheet edges and sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

Lining screws to be fastened to the side of the studs and nogs, to ensure that they don't penetrate or touch the framing.

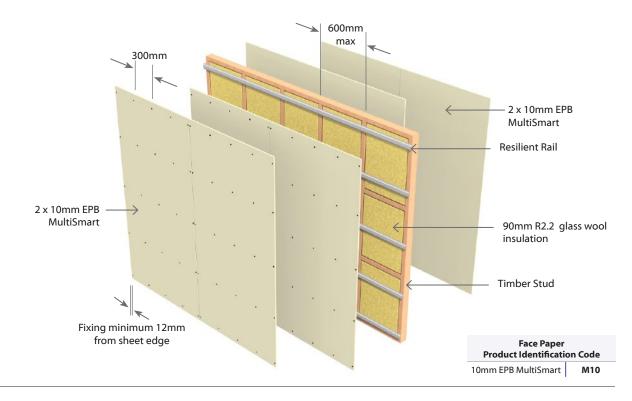
#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

#### Inner Layer: Unstopped

Outer Layer: All fastener heads stopped and all sheet joints reinforced and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



Load Bearing

Two Way FRR

E4TRLA90

Single Timber Frame with Resilient Rail

# **<u>4</u>** Layers: 2 Layers of Plasterboard to each side of frame

Full Intertenancy **A**coustic

	Lining FRR		Load Noise Bearing		Control	Lining Requirement
System Number	Suffix	FRR	Ability	STC	Rw	Lining Requirement
	-F52	90/90/90	LB	56	55	Framing Side: 2 x 13mm EPB FireSmart Rail Side: 2 x 13mm EPB FireSmart
E4TRLA90	-M52	90/90/90	LB	57	56	Framing Side: 2 x 13mm EPB MultiSmart Rail Side: 2 x 13mm EPB MultiSmart

#### Framing

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

Studs at 600mm centres maximum.

Nogs at 1350mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or nonload bearing partitions. Minimum frame dimension 90 x 45mm.

#### **Minimum Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 103mm.

Stud			Total Plasterboard	Total
Depth			thickness	Partition Width
90mm	13mm	M52	52mm	155mm

#### Wall Sound Absorber

Install Sound Absorber between studs and nogs of the frame. Use 90mm thick R2.2 glass wool insulation.

#### **Acoustic Resilient Rail**

The Resilient Rail shall be fixed to the studs at 600mm centres using 32mm x 8g wafer head self-tapping screws through the base flange and into each stud. The base flange to face downwards and resilient edge upwards. Channel may be joined by nesting together with no more than 20mm overlap. Fasten through both channels into stud. Highest resilient channel shall be fixed no more than 75mm from the ceiling line and the lowest channel, 50mm from the floor line.

#### Plasterboard Lining

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of EPB Plasterboard as per specified system above, fixed vertically on each side of the timber framing.

Vertical fixing only permitted. Vertical joints of outer layer should be offset by 600mm from those of the inner layer. Use full height sheets where possible. All sheet joints on the framing side must be fixed over solid timber framing. Sheet end butt joints must be formed over nogs or rails and offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

# Fixing of Linings

# Fasteners

	Resilient	Rail Side	Frami	Framing Side		
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer		
System Number		ng Drywall ews	High Thread Drywall Screws			
E4TRLA90-F52	13mm	13mm	13mm	13mm		
E4TRLA90-M52	25 x 6a	41 x 6a	41 x 6a	51 x 7a		

#### **Fastener Centres**

Framing Side: Fix at 300mm centres at sheet perimeter and up each stud.

**Resilient Rail Side:** Fix 300mm centres along each resilient rail. Place fasteners minimum 12mm from sheet edges and sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

Lining screws to be fastened to the side of the studs and nogs, to ensure that they don't penetrate or touch the framing.

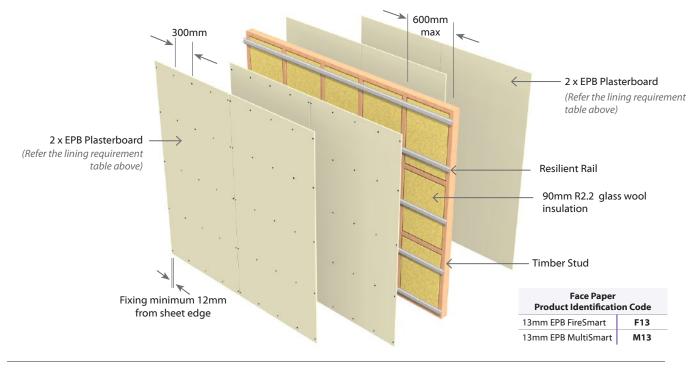
#### Acoustic Sealant

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

Inner Layer: Unstopped

Outer Layer: All fastener heads stopped and all sheet joints reinforced and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



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# Steel Frame Walls

Non Load Bearing

Two Way FRR

# E3SDA<u>30</u>

<u>D</u>ouble <u>S</u>teel Frame

**3** Layers: 1 Layer of Plasterboard on one side of frame & 2 Layers of Plasterboard on other side of frame

Full Intertenancy <u>A</u>coustic

Custom Number	Lining		Load	Noise Control*			
System Number	Suffix	FRR	Bearing Ability	STC	Rw	Lining Requirement	
E3SDA30	-S39	-/30/30	NLB	55	54	1 x 13mm EPB Standard one side 2 x 13mm EPB Standard other side	
	-M30	-/30/30	NLB	56	55	1 x 10mm EPB MultiSmart one side 2 x 10mm EPB MultiSmart other side	

\*Acoustic Performance improves with increase of Partition Width. See 'Minimum Partition Width' Table below.

#### Framing

**Double Frame** - Steel studs to be of minimum dimension 64mm x 34mm x 0.55 BMT with a 6mm return.

Tracks to be minimum dimension 64mm x 30mm x 0.55 BMT.

Top & bottom tracks are fixed to the floor and ceiling in true alignment. Studs are placed at 600mm centres maximum. Studs aligned.

Place studs to allow the nominated expansion gap (minimum 15mm) at the top of frame. The studs are not directly fixed to the tracks. The studs are held in place by the grip of the track runners.

#### Wall Heights

Recommended maximum height is 2.7m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### **Minimum Partition Width**

Space between Frames shall be a minimum of 25mm.

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 153mm. Increasing the partition width would increase STC performance as per the table below.

Stud Depth	Space Between Frames	Partition Width (Excludes Board)	STC Rating	
64mm x 2	25mm Min	153mm	+0	
64mm x 2	77mm Min	205mm	+2	

#### Wall Sound Absorber

Install Sound Absorber between studs on one side of the double frame. Use 75mm thick R1.8 glass wool blanket.

#### Plasterboard Lining

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of EPB Plasterboard to One side of the double steel framing and Two layers to the Other Side as per specified system above.

Vertical fixing only permitted. Use full height or full length sheets where possible. Inner layer joints on opposite side of frame should be

offset. All sheet joints must be fixed over steel framing. Vertical Joints of the outer layer should be offset 600mm from those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

#### Fixing of Linings

#### Fasteners (As per Specified System Above)

	Side	Side Two			
System Number	1 <sup>st</sup> Layer 2 <sup>nd</sup> Layer		Single Layer		
	Self-Tapping Drywall Screws				
E3SDA30-M30	10mm	10mm	10mm		
E33DA30-10130	25 x 6g	41 x 6g	25 x 6g		
F26D420 620	13mm	13mm	13mm		
E3SDA30-S39	25 x 6g	41 x 6g	25 x 6g		

#### **Fastener Centres**

Inner Layer: Fix at 300mm centres up each stud with no fixings to top and bottom channel.

Outer or Single Layer: Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners minimum 12mm from sheet edge and 50mm from sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

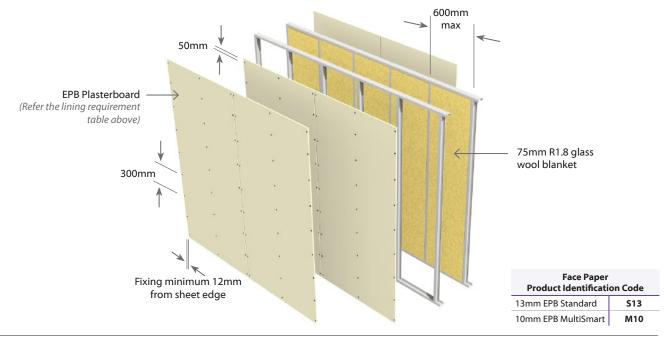
# Acoustic Sealant

A bead of acoustic sealant is required around the perimeter of the framing or the inner layer. The single or outer layer is then bedded onto the bead. The perimeter junctions of the wall must be airtight.

# Jointing

# Inner Layer: Unstopped.

Outer or Single Layer: All fastener heads stopped and all sheet joints reinforced and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



E4SDA45

March 2025

Non Load Bearing

#### Two Way FRR

#### **<u>4</u>** Layers: 2 Layers of Plasterboard to each side of frame

Double Steel Frame

Full Intertenancy **A**coustic

System Number	Lining	FRR	Load Bearing	Noise Control*		Lining Demoissment
System Number	Suffix	Ability	STC	Rw	Lining Requirement	
E4SDA45	-F40	-/45/45	NLB	58	57	2 x 10mm EPB FireSmart each side

\*Acoustic Performance improves with increase of Partition Width. See 'Minimum Partition Width' Table below.

#### Framing

**Double Frame** - Steel studs to be of minimum dimension 64mm x 34mm x 0.55 BMT with a 6mm return.

Tracks to be minimum dimension 64mm x 30mm x 0.55 BMT.

Top & bottom tracks are fixed to the floor and ceiling in true alignment. Studs are placed at 600mm centres maximum. Studs aligned.

Place studs to allow the nominated expansion gap (minimum 15mm) at the top of frame. The studs are not directly fixed to the tracks. The studs are held in place by the grip of the track runners.

#### Wall Heights

Recommended maximum height is 2.7m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### **Minimum Partition Width**

Space between Frames shall be a minimum of 25mm.

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 153mm. Increasing the partition width would increase STC performance as per the table below.

Stud Depth	Space Between Frames	Partition Width (Excludes Board)	STC Rating
64mm x 2	25mm Min	153mm	+0
64mm x 2	77mm Min	205mm	+2

#### Wall Sound Absorber

Install Sound Absorber between studs on one side of the double frame. Use 75mm thick R1.8 glass wool blanket.

#### Plasterboard Lining

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of 10mm EPB FireSmart fixed to each side of the double steel framing.

Vertical fixing only permitted. Use full height or full length sheets where possible. Inner layer joints on opposite side of frame should be

offset. All sheet joints must be fixed over steel framing. Vertical Joints of the outer layer should be offset 600mm from those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

#### **Fixing of Linings**

Fasteners

	Side	One	Side Two				
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer			
	Self-Tapping Drywall Screws						
E4SDA45-F40	10mm	10mm	10mm	10mm			
E45DA45-F40	25 x 6g	41 x 6g	25 x 6g	41 x 6g			

#### **Fastener Centres**

Inner Layer: Fix at 300mm centres up each stud with no fixings to top and bottom channel.

Outer Layer: Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to sheet edge and 50mm from sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur.

Avoid outer layer screws from hitting inner layer screws.

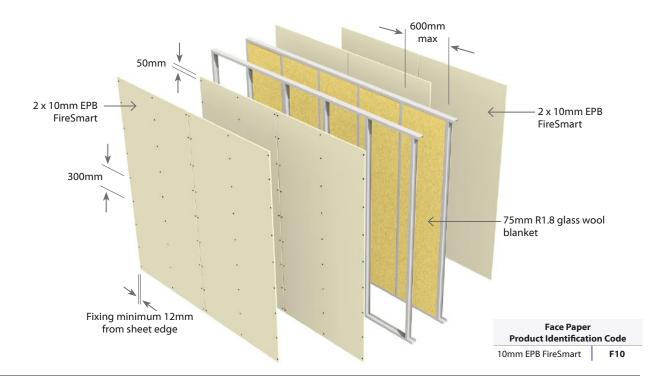
#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

Inner Layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with Elephant Plasterboard Installation Guide.



Non Load Bearing

Two Way FRR

E2SDA60

#### <u>D</u>ouble <u>S</u>teel Frame

**<u>2</u>** Layers: 1 Layer of Plasterboard to each side of frame

Full Intertenancy Acoustic

System Number	Lining FRR		Load Bearing		ontrol*	Lining Requirement
System Number	Suffix	FNN		STC	Rw	Lining Requirement
E2SDA60	-M26	-/60/60	NLB	55	54	1 x 13mm EPB MultiSmart each side

\*Acoustic Performance improves with increase of Partition Width. See 'Minimum Partition Width' Table below.

#### Framing

**Double Frame** - Steel studs to be of minimum dimension 64mm x 34mm x 0.55 BMT with a 6mm return.

Tracks to be minimum dimension 64mm x 30mm x 0.55 BMT.

Top & bottom tracks are fixed to the floor and ceiling in true alignment. Studs are placed at 600mm centres maximum. Studs aligned.

Place studs to allow the nominated expansion gap (minimum 15mm) at the top of frame. The studs are not directly fixed to the tracks. The studs are held in place by the grip of the track runners.

#### Wall Heights

Recommended maximum height is 2.7m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### **Minimum Partition Width**

Space between Frames shall be a minimum of 25mm.

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 205mm. Increasing the partition width would increase STC performance as per the table below.

Stud Depth	Space Between Frames	Partition Width (Excludes Board)	STC Rating
64mm x 2	25mm Min	153mm	+0
64mm x 2	77mm Min	205mm	+2

#### Wall Sound Absorber

Install Sound Absorber between studs on both sides of the double frame. Use 75mm thick R1.8 glass wool blanket.

#### **Plasterboard Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of 13mm EPB MultiSmart fixed to each side of the double steel framing.

Vertical fixing only permitted. Use full height or full length sheets where possible. Sheet edge and butt joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Sheet end butt joints must be formed over nogs. Sheets are fixed hard to the floor. Sheets shall be touch fitted.

#### **Fixing of Linings**

#### Fasteners

	Side One	Side Two			
System Number	Single Layer	Single Layer			
	Self-Tapping Drywall Screws				
	13mm	13mm			
E2SDA60-M26	25 x 6g	25 x 6g			

#### **Fastener Centres**

Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

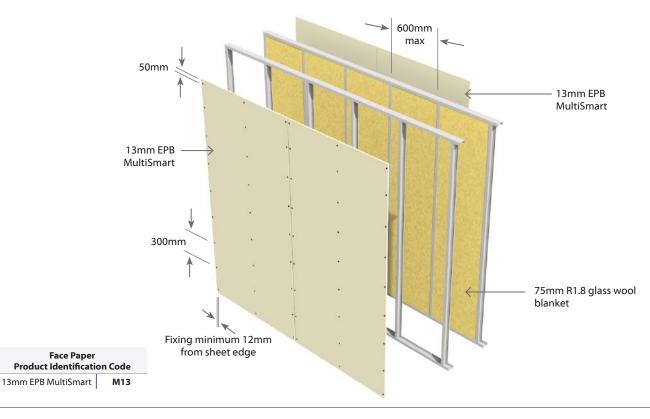
Place fasteners at 200mm centres where sheet end butt joints occur.

#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing and the single layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



E3SDA60

**FULL INTERTENANCY** 

NLB

NLB

March 2025

#### Non Load Bearing

#### Two Way FRR

# Full Intertenancy Acoustic

	2 Layers: 2 Layers of Plasterboard on other side of frame							Full Intertenancy <u>A</u> co
	System Number	Lining	FRR	Load Noise Control* FRR Bearing Lining Requiremen				
System Number	Suffix	FAA	Ability	STC	Rw	Lining Requirement		
	-MS39		-/60/60	NLB	57	56	1 x 13mm EPB MultiSmar 2 x 13mm EPB Standard	
	5250460	-FM33 -/60/6		NLB	58	57	1 x 13mm EPB FireSmart 2 x 10mm EPB MultiSma	
	E3SDA60		160/60		50		1 x 13mm EPB MultiSma	t one side

58

61

57

60

\*Acoustic Performance improves with increase of Partition Width. See 'Minimum Partition Width' Table below.

-/60/60

-/60/60

#### Framing

Double Frame - Steel studs to be of minimum dimension 64mm x 34mm x 0.55 BMT with a 6mm return.

Double Steel Frame

**3** Layers: <sup>1</sup> Layer of Plasterboard on one side of frame &

Tracks to be minimum dimension 64mm x 30mm x 0.55 BMT.

-M33

-M39

Top & bottom tracks are fixed to the floor and ceiling in true alignment. Studs are placed at 600mm centres maximum. Studs aligned.

Place studs to allow the nominated expansion gap (minimum 15mm) at the top of frame. The studs are not directly fixed to the tracks. The studs are held in place by the grip of the track runners.

#### Wall Heights

Recommended maximum height is 2.7m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### **Minimum Partition Width**

Space between Frames shall be a minimum of 25mm.

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 153mm. Increasing the partition width would increase STC performance as per the table below.

Stud Depth	Space Between Frames	Partition Width (Excludes Board)	STC Rating
64mm x 2	25mm Min	153mm	+0
64mm x 2	77mm Min	205mm	+2

#### Wall Sound Absorber

Install Sound Absorber between studs on one side of the double frame. Use 75mm thick R1.8 glass wool blanket.

#### Plasterboard Lining

NB: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of EPB Plasterboard to One side of the double steel framing and Two layers to the Other Side as per specified system above. Vertical fixing only permitted. Use full height sheets where possible. joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm to those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

#### **Fixing of Linings**

#### Fasteners (As per Specified System Above)

2 x 10mm EPB MultiSmart other side 1 x 13mm EPB MultiSmart one side

2 x 13mm EPB MultiSmart other side

	Side C	Side Two			
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	Single Layer		
	Self-Tapping Drywall Screws				
E3SDA60-MS39	13mm	13mm	13mm		
E3SDA60-M39	25 x 6g	41 x 6g	25 x 6g		
E3SDA60-FM33	10mm	10mm	13mm		
E3SDA60-M33	25 x 6g	41 x 6g	25 x 6g		

#### **Fastener Centres**

Inner Layer: Fix at 300mm centres up each stud with no fixings to top and bottom channel.

Outer or Single Layer: Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners minimum 12mm from sheet edge and 50mm from sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

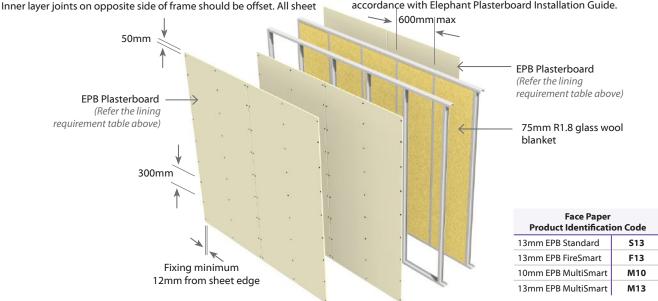
#### Acoustic Sealant

A bead of acoustic sealant is required around the perimeter of the framing or the inner layer. The single or outer layer is then bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

Inner Layer: Unstopped.

Outer or Single Layer: All fastener heads stopped and all sheet joints reinforced and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with Elephant Plasterboard Installation Guide.



Non Load Bearing

Two Way FRR

E4SDA60

<u>D</u>ouble <u>S</u>teel Frame

**<u>4</u>** Layers: 2 Layers of Plasterboard to each side of frame

Full Intertenancy **A**coustic

Custom Number	Lining FRR		Load Noise C		ontrol*	Lining Demoissment
System Number	Suffix	FRR	Ability	STC	Rw	Lining Requirement
E46DA60	-S52	-/60/60	NLB	61	60	2 x 13mm EPB Standard each side
E4SDA60	-M40	-/60/60	NLB	61	60	2 x 10mm EPB MultiSmart each side

\*Acoustic Performance improves with increase of Partition Width. See 'Minimum Partition Width' Table below.

#### Framing

**Double Frame** - Steel studs to be of minimum dimension 64mm x 34mm x 0.55 BMT with a 6mm return.

Tracks to be minimum dimension 64mm x 30mm x 0.55 BMT.

Top & bottom tracks are fixed to the floor and ceiling in true alignment. Studs are placed at 600mm centres maximum. Studs aligned.

Place studs to allow the nominated expansion gap (minimum 15mm) at the top of frame. The studs are not directly fixed to the tracks. The studs are held in place by the grip of the track runners.

#### Wall Heights

Recommended maximum height is 2.7m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### **Minimum Partition Width**

Space between Frames shall be a minimum of 25mm

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 153mm. Increasing the partition width would increase STC performance as per the table below.

Stud Depth	Space Between Frames	Partition Width (Excludes Board)	STC Rating
64mm	25mm Min	153mm	+0
64mm	77mm Min	205mm	+2

#### Wall Sound Absorber

Install Sound Absorber between studs on one side of the double frame. Use 75mm thick R1.8 glass wool blanket.

#### Plasterboard Lining

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of EPB Plasterboard to One side of the double steel framing and Two layers to the Other Side as per specified system above. Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Vertical joints of the outer

layer should be offset by 600mm to those of the inner layer. Sheet
end butt joints must be formed over nogs and offset the outer layer
joints from the inner layer. The inner layers are fixed hard to the floor.
Sheet shall be touch fitted.

#### Fixing of Linings

#### Fasteners (As per Specified System Above)

	Side	One	Side Two				
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer			
	Self-Tapping Drywall Screws						
E4SDA60-S52	13mm	13mm	13mm	13mm			
E45DA00-552	25 x 6g	41 x 6g	25 x 6g	41 x 6g			
E4SDA60-M40	10mm	10mm	10mm	10mm			
E45DA60-M40	25 x 6g	41 x 6g	25 x 6g	41 x 6g			

#### **Fastener Centres**

Inner Layer: Fix at 300mm centres up each stud with no fixings to top and bottom channel.

Outer Layer: Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to sheet edge and 50mm from sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

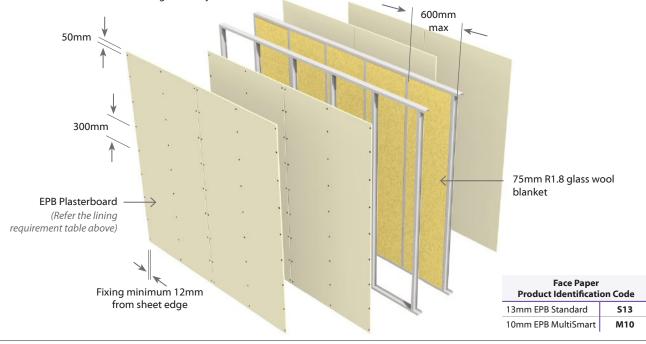
#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

#### Inner Layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



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E2SDA75

March 2025

Non Load Bearing

Full Intertenancy **A**coustic

### **<u>2</u>** Layers: 1 Layer of Plasterboard to each side of frame

Double Steel Frame

System Number	Lining FRR		Load Noise Co Bearing		ontrol*	Lining Requirement
System Number	Suffix		Ability	STC	Rw	Lining Requirement
E2SDA75	-F32	-/75/75	NLB	56	55	1 x 16mm EPB FireSmart each side

\*Acoustic Performance improves with increase of Partition Width. See 'Minimum Partition Width' Table below.

#### Framing

**Double Frame** - Steel studs to be of minimum dimension 64mm x 34mm x 0.55 BMT with a 6mm return.

Tracks to be minimum dimension 64mm x 30mm x 0.55 BMT.

Top & bottom tracks are fixed to the floor and ceiling in true alignment. Studs are placed at 600mm centres maximum. Studs aligned.

Place studs to allow the nominated expansion gap (minimum 15mm) at the top of frame. The studs are not directly fixed to the tracks. The studs are held in place by the grip of the track runners.

#### Wall Heights

Recommended maximum height is 2.7m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### **Minimum Partition Width**

Space between Frames shall be a minimum of 25mm

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 205mm. Increasing the partition width would increase STC performance as per the table below.

Stud Depth	Space Between Frames	Partition Width (Excludes Board)	STC Rating
64mm x 2	25mm Min	153mm	+0
64mm x 2	77mm Min	205mm	+2

#### Wall Sound Absorber

Install Sound Absorber between studs on both sides of the double frame. Use 75mm thick R1.8 glass wool blanket.

#### Plasterboard Lining

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of 16mm EPB FireSmart lining fixed to each side of the double steel framing.

Vertical fixing only permitted. Use full height sheets where possible. Sheet edges and butt joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Sheet end butt joints must be formed over nogs. Sheets are fixed hard to the floor. Sheets shall be touch fitted.

#### **Fixing of Linings**

#### Fasteners

	Side One	Side Two		
System Number	Single Layer	Single Layer		
	Self-Tapping Drywall Screws			
	16mm	16mm		
E2SDA75-F32	32 x 6g	32 x 6g		

#### **Fastener Centres**

Fix at 150mm centres up sheet edges and 300mm centres up each intermediate stud with no fixing to top and bottom channel sections. Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

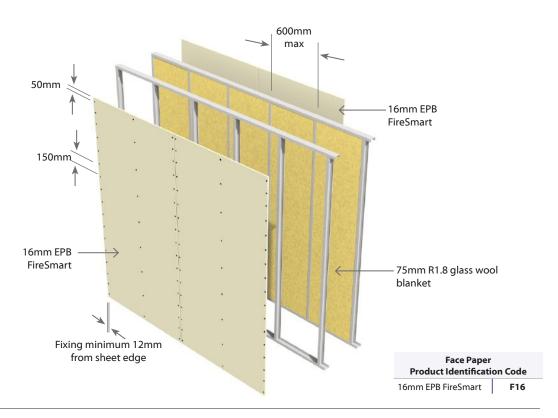
Place fasteners at 200mm centres where sheet end butt joints occur.

#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing and the single layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



Non Load Bearing

**Two Way FRR** 

E4SDA75

<u>D</u>ouble <u>S</u>teel Frame

\_\_\_\_\_ I

# **<u>4</u>** Layers: 2 Layers of Plasterboard to each side of frame

Full Intertenancy Acoustic

System Number	Lining FRR		Load Noise Control*		ontrol*	Lining Requirement	
System Number	Suffix	FNN	Ability	STC	Rw	Lining Requirement	
E4SDA75	-MS52	-/75/75	NLB	63	62	1 x 13mm EPB Standard & 1x13mm EPB MultiSmart each side	

\*Acoustic Performance improves with increase of Partition Width. See 'Minimum Partition Width' Table below.

#### Framing

**Double Frame** - Steel studs to be of minimum dimension 64mm x 34mm x 0.55 BMT with a 6mm return.

Tracks to be minimum dimension 64mm x 30mm x 0.55 BMT.

Top & bottom tracks are fixed to the floor and ceiling in true alignment. Studs are placed at 600mm centres maximum. Studs aligned.

Place studs to allow the nominated expansion gap (minimum 15mm) at the top of frame. The studs are not directly fixed to the tracks. The studs are held in place by the grip of the track runners.

#### Wall Heights

Recommended maximum height is 2.7m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### **Minimum Partition Width**

Space between Frames shall be a minimum of 25mm.

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 153mm. Increasing the partition width would increase STC performance as per the table below.

Stud Depth	Space Between Frames	Partition Width (Excludes Board)	STC Rating
64mm x 2	25mm Min	153mm	+0
64mm x 2	77mm Min	205mm	+2

#### Wall Sound Absorber

Install Sound Absorber between studs on one side of the double frame. Use 75mm thick R1.8 glass wool blanket.

#### Plasterboard Lining

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of 13mm EPB Standard and One layer of 13mm EPB MultiSmart fixed to each side of the double steel framing.

Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm to those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

# **Fixing of Linings**

Fasteners

	Side	One	Side Two				
System Number	1 <sup>st</sup> Layer 2 <sup>nd</sup> Layer		1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer			
	Self-Tapping Drywall Screws						
	13mm	13mm	13mm	13mm			
E4SDA75-MS52	25 x 6g	41 x 6g	25 x 6g	41 x 6g			

#### **Fastener Centres**

Inner Layer: Fix at 300mm centres up each stud with no fixings to top and bottom channel.

Outer Layer: Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to sheet edge and 50mm from sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur.

Avoid outer layer screws from hitting inner layer screws.

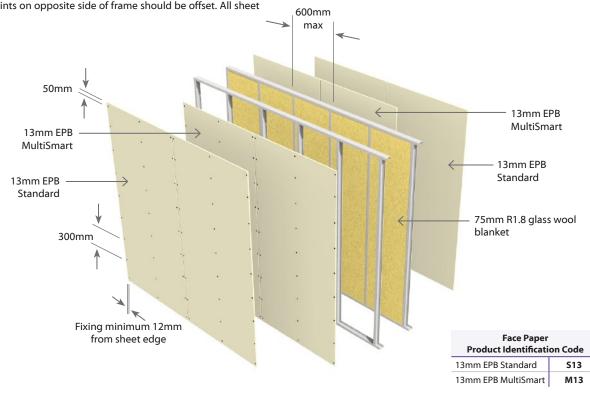
#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

# Jointing

#### Inner Layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



E4SDA90

FULL INTERTENANCY

March 2025

Non Load Bearing

# Two Way FRR

Full Intertenancy Acoustic

# <u>**4**</u> Layers: 2 Layers of Plasterboard to each side of frame

Double Steel Frame

Load **Noise Control\*** Lining Bearing System Number FRR **Lining Requirement** Suffix STC Rw Ability -/90/90 NLB 2 x 13mm EPB FireSmart each side -F52 62 61 E4SDA90 -M46 -/90/90 1 x 10mm EPB MultiSmart & 1 x 13mm MultiSmart each side NLB 63 62 -M52 -/90/90 NLB 65 2 x 13mm EPB MultiSmart each side 64

\*Acoustic Performance improves with increase of Partition Width. See 'Minimum Partition Width' Table below.

#### Framing

**Double Frame** - Steel studs to be of minimum dimension 64mm x 34mm x 0.55 BMT with a 6mm return.

Tracks to be minimum dimension 64mm x 30mm x 0.55 BMT.

Top & bottom tracks are fixed to the floor and ceiling in true alignment. Studs are placed at 600mm centres maximum. Studs aligned. Place studs to allow the nominated expansion gap (minimum 15mm)

at the top of frame. The studs are not directly fixed to the tracks. The studs are held in place by the grip of the track runners.

#### Wall Heights

Recommended maximum height is 2.7m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### **Minimum Partition Width**

Space between Frames shall be a minimum of 25mm.

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 153mm. Increasing the partition width would increase STC performance as per the table below.

Stud Depth	Space Between Frames	Partition Width (Excludes Board)	STC Rating
64mm x 2	25mm Min	153mm	+0
64mm x 2	77mm Min	205mm	+2

#### Wall Sound Absorber

Install Sound Absorber between studs on one side of the double frame. Use 75mm thick R1.8 glass wool blanket.

#### Plasterboard Lining

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of EPB Plasterboard lining as per specified system above, fixed to each side of the double steel framing.

Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm to those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

#### Fixing of Linings Fasteners

	Side	One	Side Two				
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer			
	Self-Tapping Drywall Screws						
E4SDA90-M46	10mm	13mm	10mm	13mm			
E43DA90-IM46	25 x 6g	41 x 6g	25 x 6g	41 x 6g			
E4SDA90-F52	13mm	13mm	13mm	13mm			
E4SDA90-M52	25 x 6g	41 x 6g	25 x 6g	41 x 6g			

#### **Fastener Centres**

Inner Layer: Fix at 300mm centres up each stud with no fixings to top and bottom channel.

Outer Layer: Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to sheet edge and 50mm from sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

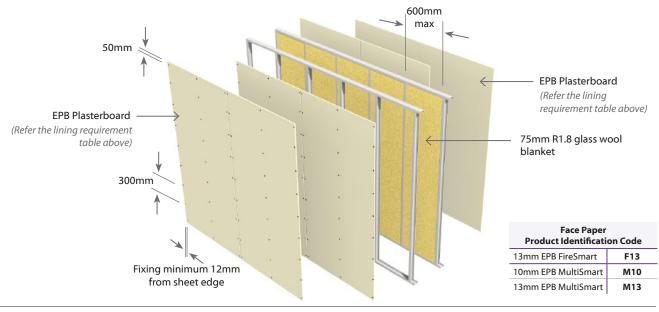
#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

Inner Layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



Load Bearing

Two Way FRR

Full Intertenancy Acoustic

# **<u>2</u>** Layers: 1 Layer of Plasterboard to each side of frame

Double Steel Frame

Custom Number	Lining FRR		Load Noise Co		ontrol*	lining Demokrat
System Number	Suffix	FKK	Bearing Ability	STC	Rw	Lining Requirement
	-M26	30/30/30	LB	55	54	1 x 13mm EPB MultiSmart each side
E2SDLA30	-F32	30/30/30	LB	56	54	1 x 16mm EPB FireSmart each side

\*Acoustic Performance improves with increase of Partition Width. See 'Minimum Partition Width' Table below.

#### Framing

E2SDLA30

**Double Frame** - Any steel frame designed to meet structural criteria for strength and serviceability under dead and live loads.

Stud width shall be 35mm minimum.

Stud spacing's at 600 centres maximum. Studs aligned.

Frame heights as determined by specific design. Minimum Partition Width

Space between Frames shall be a minimum of 25mm.

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 205mm. Increasing the partition width would increase STC performance as per the table below.

Stud Depth	Space Between Frames	Partition Width (Excludes Board)	STC Rating	
90mm x 2	25mm Min	205mm	+0	
90mm x 2	75mm Min	255mm	+2	

#### **Wall Sound Absorber**

Install Sound Absorber between studs on both sides of the double frame. Use 75mm thick R1.8 glass wool blanket.

#### **Plasterboard Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of EPB Plasterboard lining as per specified system above on each side of the double steel framing.

Vertical fixing only permitted. Use full height sheets where possible. Sheet edges and butt joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Sheet end butt joints must be formed over nogs. Sheets are fixed hard to the floor. Sheets shall be touch fitted.

# Fixing of Linings

#### Fasteners (As per Specified System Above)

	Side One	Side Two				
System Number	Single Layer	Single Layer				
	Self-Tapping Drywall Screws					
536DI 430 M36	13mm	13mm				
E2SDLA30-M26	25 x 6g	25 x 6g				
	16mm	16mm				
E2SDLA30-F32	32 x 6g	32 x 6g				

#### **Fastener Centres**

Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

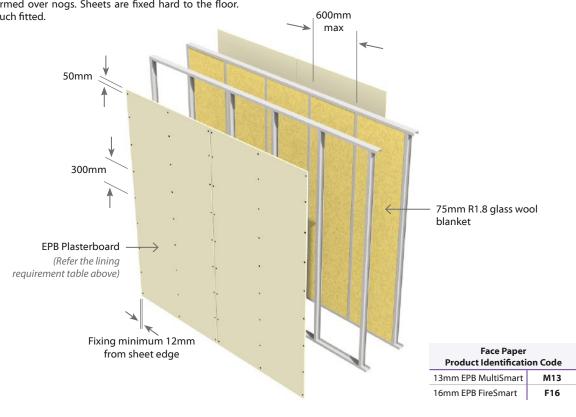
Place fasteners at 200mm centres where sheet end butt joints occur.

#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing and the single layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

### Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



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E3SDLA30

Load Bearing

# Full Intertenancy Acoustic

	<u>3</u> Layers: 1 Layer 2 Layer	Full Intertenancy <u>A</u> coustic						
	System Number	Lining	- FRR		Load Noise Co Bearing		Lining Requirement	
	•	Suffix		Ability	STC	Rw		
		-MF33	30/30/30	LB	58	57	1 x 13mm EPB MultiSmar 2 x 10mm EPB FireSmart	
E3SDLA30	-M39	30/30/30	LB	61	60	1 x 13mm EPB MultiSmai 2 x 13mm EPB MultiSmai		

\*Acoustic Performance improves with increase of Partition Width. See 'Minimum Partition Width' Table below.

#### Framing

Double Frame - Any steel frame designed to meet structural criteria for strength and serviceability under dead and live loads.

Double Steel Frame

Stud width shall be 35mm minimum.

Stud spacing's at 600 centres maximum. Studs aligned.

Frame heights as determined by specific design.

#### **Minimum Partition Width**

Space between Frames shall be a minimum of 25mm.

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 153mm. Increasing the partition width would increase STC performance as per the table below.

Stud Depth	Space Between Frames	Partition Width (Excludes Board)	STC Rating
90mm x 2	25mm Min	205mm	+0
90mm x 2	75mm Min	255mm	+2

#### Wall Sound Absorber

Install Sound Absorber between studs on one side of the double frame. Use 75mm thick R1.8 glass wool blanket.

#### Plasterboard Lining

NB: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of EPB Plasterboard to One side of the double steel framing and Two layers to the Other Side as per specified system above.

Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm to those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

# **Fixing of Linings**

#### Fasteners (As per Specified System Above)

	Side C	Side Two					
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	Single Layer				
	Self-Tapping Drywall Screws						
E3SDLA30-MF33	10mm	10mm	13mm				
ESSDLAS0-MIPSS	25 x 6g	41 x 6g	25 x 6g				
E3SDLA30-M39	13mm	13mm	13mm				
E35DLA30-10139	25 x 6g	41 x 6g	25 x 6g				

#### **Fastener Centres**

Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

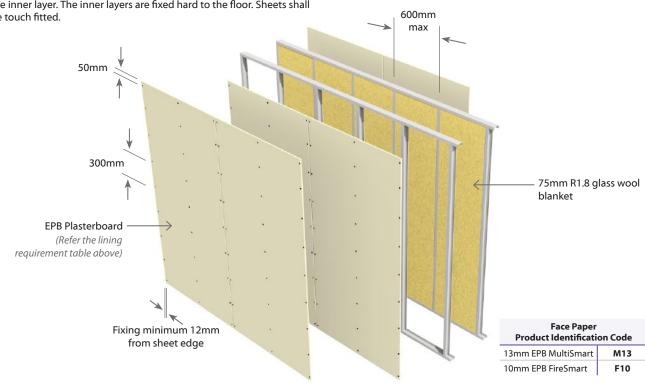
Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

#### Acoustic Sealant

A bead of acoustic sealant is required around the perimeter of the framing or the inner layer. Then the single or outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



Freephone 0800 353 742

Load Bearing Two Way FRR

Full Intertenancy Acoustic

# 4 Layers: 2 Layers of Plasterboard to each side of frame

Double Steel Frame

System Number	Lining FRR		Load Noise Bearing		ontrol*	Lining Requirement
System Number	Suffix	FNN	Ability	STC	Rw	Lining Requirement
E4SDLA30	-F40	30/30/30	LB	59	58	2 x 10mm EPB FireSmart each side

\*Acoustic Performance improves with increase of Partition Width. See 'Minimum Partition Width' Table below.

#### Framing

E4SDLA30

**Double Frame** - Any steel frame designed to meet structural criteria for strength and serviceability under dead and live loads.

Stud width shall be 35mm minimum. Stud spacing's at 600 centres maximum. Studs aligned.

Frame heights as determined by specific design.

#### **Minimum Partition Width**

Space between Frames shall be a minimum of 25mm.

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 153mm. Increasing the partition width would increase STC performance as per the table below.

Stud Depth	Space Between Frames	Partition Width (Excludes Board)	STC Rating	
90mm x 2	25mm Min	205mm	+0	
90mm x 2	75mm Min	255mm	+2	

#### Wall Sound Absorber

Install Sound Absorber between studs on one side of the double frame. Use 75mm thick R1.8 glass wool blanket.

#### **Plasterboard Lining**

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of 10mm EPB FireSmart lining fixed vertically to each side of the double steel framing.

Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm to those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

#### Fixing of Linings Fasteners

	Side	One	Side Two					
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer				
·	Self-Tapping Drywall Screws							
	10mm	10mm	10mm	10mm				
E4SDLA30-F40	25 x 6g	41 x 6g	25 x 6g	41 x 6g				

#### **Fastener Centres**

Inner Layer: Fix at 300mm centres up each stud with no fixings to top and bottom channel.

Outer Layer: Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to sheet edge and 50mm from sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

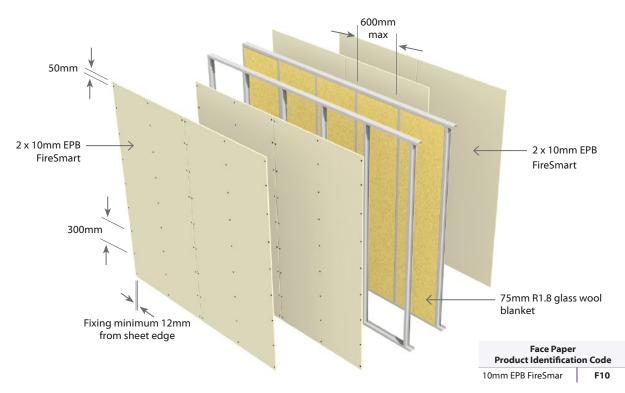
#### Acoustic Sealant

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

Inner Layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



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Freephone 0800 353 742

E4SDLA45

Load Bearing

Full Intertenancy Acoustic

#### 4 Layers: 2 Layers of Plasterboard to each side of frame

Double Steel Frame

	Lining	Load	Noise Control*			
System Number	Suffix	FRR	Bearing Ability			Lining Requirement
	-S52	45/45/45	LB	61	60	2 x 13mm EPB Standard each side
E4SDLA45	-M40	45/45/45	LB	61	60	2 x 10mm EPB MultiSmart each side
	-F52	45/45/45	LB	63	62	2 x 13mm EPB FireSmart each side

\*Acoustic Performance improves with increase of Partition Width. See 'Minimum Partition Width' Table below.

#### Framing

**Double Frame** - Any steel frame designed to meet structural criteria for strength and serviceability under dead and live loads.

Stud width shall be 35mm minimum.

Stud spacing's at 600 centres maximum. Studs aligned.

Frame heights as determined by specific design.

#### **Minimum Partition Width**

Space between Frames shall be a minimum of 25mm.

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 153mm. Increasing the partition width would increase STC performance as per the table below.

_	Stud Depth	Space Between Frames	Partition Width (Excludes Board)	STC Rating	
	90mm x 2	25mm Min	205mm	+0	
	90mm x 2	75mm Min	255mm	+2	

#### Wall Sound Absorber

Install Sound Absorber between studs on one side of the double frame. Use 75mm thick R1.8 glass wool blanket.

#### Plasterboard Lining

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of EPB Plasterboard to One side of the double steel framing and Two layers to the Other Side as per specified system above. Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm to those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

# Fixing of Linings

#### Fasteners (As per Specified System Above)

	Side	One	Side Two					
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer				
	Self-Tapping Drywall Screws							
E4SDLA45-S52	13mm	13mm	13mm	13mm				
E4SDLA45-F52	25 x 6g	41 x 6g	25 x 6g	41 x 6g				
	10mm	10mm	10mm	10mm				
E4SDLA45-M40	25 x 6g	41 x 6g	25 x 6g	41 x 6g				

#### **Fastener Centres**

Inner Layer: Fix at 300mm centres up each stud with no fixings to top and bottom channel.

Outer Layer: Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to sheet edge and 50mm from sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

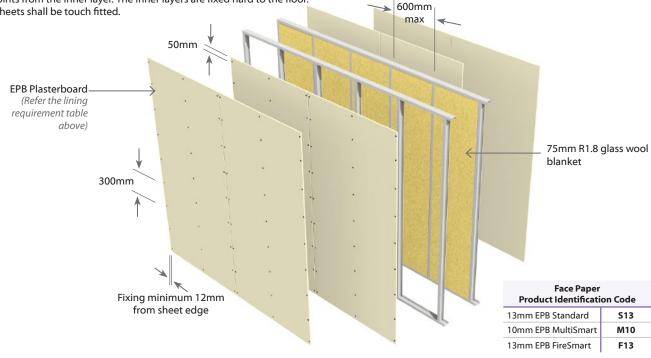
#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

# Jointing

#### Inner Layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



Load Bearing

Two Way FRR

Full Intertenancy Acoustic

# <u>**4**</u> Layers: 2 Layers of Plasterboard to each side of frame

Double Steel Frame

System Number	Lining	FRR	Load Bearing Ability	Noise Control*		Lining Requirement
System Number	Suffix	FRR		STC	Rw	Lining Requirement
E4SDLA60	-M52	60/60/60	LB	65	64	2 x 13mm EPB MultiSmart each side

\*Acoustic Performance improves with increase of Partition Width. See 'Minimum Partition Width' Table below.

#### Framing

E4SDLA60

**Double Frame** - Any steel frame designed to meet structural criteria for strength and serviceability under dead and live loads.

Stud width shall be 35mm minimum. Stud spacing's at 600 centres maximum. Studs aligned.

Frame heights as determined by specific design.

#### **Minimum Partition Width**

Space between Frames shall be a minimum of 25mm.

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 153mm. Increasing the partition width would increase STC performance as per the table below.

Stud Depth	Space Between Frames	Partition Width (Excludes Board)	STC Rating	
90mm x 2	25mm Min	205mm	+0	
90mm x 2	75mm Min	255mm	+2	

#### Wall Sound Absorber

Install Sound Absorber between studs on one side of the double frame. Use 75mm thick R1.8 glass wool blanket.

#### **Plasterboard Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of 13mm EPB MultiSmart lining fixed vertically to each side of the double steel framing.

Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame should be offset.

Vertical joints of the outer layer should be offset to those of the inner layer. Sheet end butt joints do not need to be formed over solid framing however the inner layer butt joints must be offset from the outer layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

# Fixing of Linings

asteriers										
	Side	One	Side Two							
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer						
	Self-Tapping Drywall Screws									
E4SDLA60-M52	13mm	13mm	13mm	13mm						
E43DLA00-INI32	25 x 6g	41 x 6g	25 x 6g	41 x 6g						

#### **Fastener Centres**

Inner Layer: Fix at 300mm centres up each stud with no fixings to top and bottom channel.

Outer Layer: Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to sheet edge and 50mm from sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur over solid framing.

Avoid outer layer screws from hitting inner layer screws.

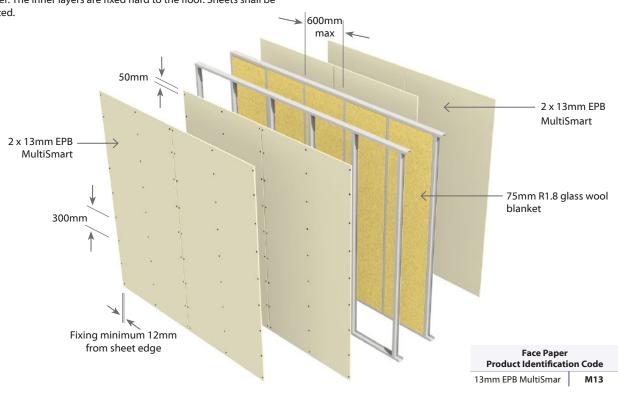
#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

#### Inner Layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.





E4SDLA90

Load Bearing

Full Intertenancy Acoustic

#### 4 Layers: 2 Layers of Plasterboard to each side of frame

Double Steel Frame

System Number	Lining	FRR	Load Noise Bearing Ability STC		ontrol*	Lining Requirement
System Number	Suffix				Rw	
E4SDLA90	-F64	90/90/90	LB	66	65	2 x 16mm EPB FireSmart each side

\*Acoustic Performance improves with increase of Partition Width. See 'Minimum Partition Width' Table below.

#### Framing

**Double Frame** - Any steel frame designed to meet structural criteria for strength and serviceability under dead and live loads.

Stud width shall be 35mm minimum. Stud spacing's at 600 centres maximum. Studs aligned.

Frame heights as determined by specific design.

#### **Minimum Partition Width**

Space between Frames shall be a minimum of 25mm.

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 153mm. Increasing the partition width would increase STC performance as per the table below.

Stud Depth	Space Between Frames	Partition Width (Excludes Board)	STC Rating
90mm x 2	25mm Min	205mm	+0
90mm x 2	75mm Min	255mm	+2

#### Wall Sound Absorber

Install Sound Absorber between studs on one side of the double frame. Use 75mm thick R1.8 glass wool blanket.

#### **Plasterboard Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of 16mm EPB FireSmart lining fixed vertically to each side of the double steel framing.

Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm to those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

# Fixing of Linings

rastellers										
	Side	One	Side Two							
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer						
	Self-Tapping Drywall Screws									
E4SDLA90-F64	16mm	16mm	16mm	16mm						
E43DLA90-F04	32 x 6g	51 x 7g	32 x 6g	51 x 7g						

#### **Fastener Centres**

Inner Layer: Fix at 300mm centres up each stud with no fixings to top and bottom channel.

Outer Layer: Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to sheet edge and 50mm from sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur.

Avoid outer layer screws from hitting inner layer screws.

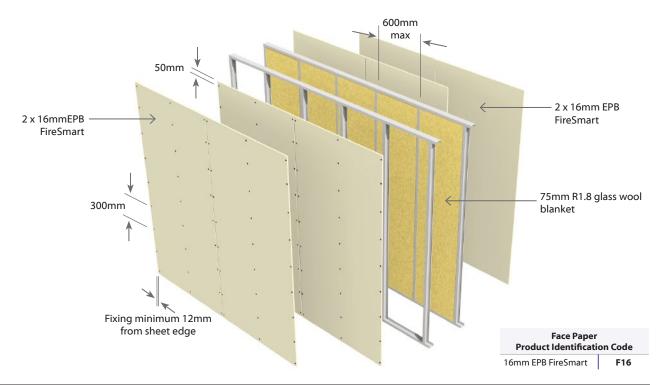
#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

Inner Layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



Freephone 0800 353 742

Non Load Bearing

Two Way

FRR

E4CSDA60

Double Steel Frame - 13mm FireSmart Central Liner

Full Intertenancy **A**coustic

Custom Number	Lining	FRR	Load		Control*	Lining Requirement	
System Number	Suffix	FKK	Bearing Ability	STC Rw		Lining Requirement	
EACEDAGO	-FS46	-/60/60	NLB	56	56	1 x 13mm EPB FireSmart and 1 x 10mm Standard each side	
E4CSDA60	-FS52	-/60/60	NLB	57	58	1 x 13mm EPB FireSmart and 1 x 13mm Standard each side	

#### Framing

Steel studs with minimum dimensions 64mm x 34mm x 0.55 BMT with 6mm return. Tracks to be minimum size 64mm x 30mm x 0.55 BMT and are fixed to floor and ceiling. Studs are friction fitted at 600mm centres maximum with a 15mm expansion gap at top of frame. No other fixings to the track allowed.

4 Layers: 2 Layers of Plasterboard to each side of frame

#### Wall Height

Recommended maximum height is 4.0m. For Wall heights over 3.4m allow a 20mm expansion tolerance at top of studs and use a 50mm deflection head channel at top of the wall.

#### 13mm FireSmart Central Liner

- Fix top and bottom channel runners to slab at 600mm centres and not more than 150mm from ends using steel fasteners. Install studs at 600mm centres.
- Install 13mm EPB FireSmart Central Liner vertically at 300mm to one side using 25mm x 6g Self Tapping Drywall screws. Fasteners to be placed at 12mm from sheet edges and 20mm clear of top and bottom channels. Sheet joins to be formed over framing.
- Second frame must be constructed against the Central Liner with channel runners fixed to top and bottom slabs and studs at 600mm centres. Offset this second frame by 300mm from the first frame.
- Fix the 13mm EPB FireSmart Central Liner to the second frame using 25mm x 6g Self tapping drywall screws at 300mm centres. Fasteners to be placed at 12mm from sheet edges and 20mm clear of top and bottom channels. Sheet joins to be formed over framing.

#### Wall Sound Absorber

Install Sound Absorber between studs on both sides of the double frame. Use 50mm thick R1.2 glass wool blanket.

#### **Plasterboard Lining**

NB: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page

Two layers of EPB Plasterboard fixed on each side of the frame as per specified system lining requirements table above.

Inner layer sheets to be fixed vertically to each open side of the double frame.

Outer layer sheets can be fixed horizontally or vertically.

Use full height or full length sheets where possible. All sheet joints must be fixed over steel framing.

Vertical joints of outer layer must be offset by 600mm from those of the inner layer if fixed vertically. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer.

The inner layers are fixed hard to the floor. Sheets shall be touch fitted. **Acoustic Sealant** 

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### **Fixing of Linings**

#### Fasteners (As per Specified System Above)

System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer				
System Number	Self Tapping Drywall Screws					
E4CSDA60-FS46	13mm	10mm				
E4C3DA00-F340	25 x 6g	41 x 6g				
E4CSDA60-FS52	13mm	13mm				
E4CSDA60-FS52	25 x 6g	41 x 6g				

#### **Fastener Centres**

Fix inner layer at 300mm centres on all studs and 20mm clear of top and bottom channels.

When fixing the outer layer vertically, the board should be offset from inner layer sheet joints.

Fix the outer layer at 300mm centres to all studs and 30mm clear of top and bottom channels.

In places where horizontal joint crosses, use pair of single fasteners.

Use Adhesive to replace screws in the field of sheet of outer layer sheets.

Screws at sheet edges must not be replaced with Adhesive. Adhesive to be used within 20mm of screw fixing.

#### Penetrations

Penetrations in cavities are permitted on either side of the Central liner for plumbing and electrical services.

Minimum 10mm clearance must be allowed between plumbing or electrical services and Central Liner for back-to-back services and penetrations.

Fire stopping for penetrations are not required for Metal and PVC Plumbing services up to 65mm diameter. 6mm max clearance gap around the plumbing services are required for penetrations through plasterboard linings. Gaps to be filled with flexible sealant.

Penetration of electrical services up to 90 x 50mm do not require

to be fire-stopped. Flush boxes are limited to two per 600mm wide stud bay.

For larger penetrations and penetrations through 13mm EPB FireSmart Central Liner, suitable proprietary fire-stopping is required.

Penetrations through 13mm EPB FireSmart Central Liner may reduce the noise control performance of the system.

#### **Plasterboard lining for Wet Area**

If outer layer of 10mm EPB Standard board is replaced with 10mm EPB AquaSmart, the FRR and noise control ratings will be retained.

If outer layer of 13mm EPB Standard board is replaced with 13mm EPB AquaSmart, the FRR and noise control ratings will be retained.

#### Jointing

Central Liner: Unstopped

Inner Layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.

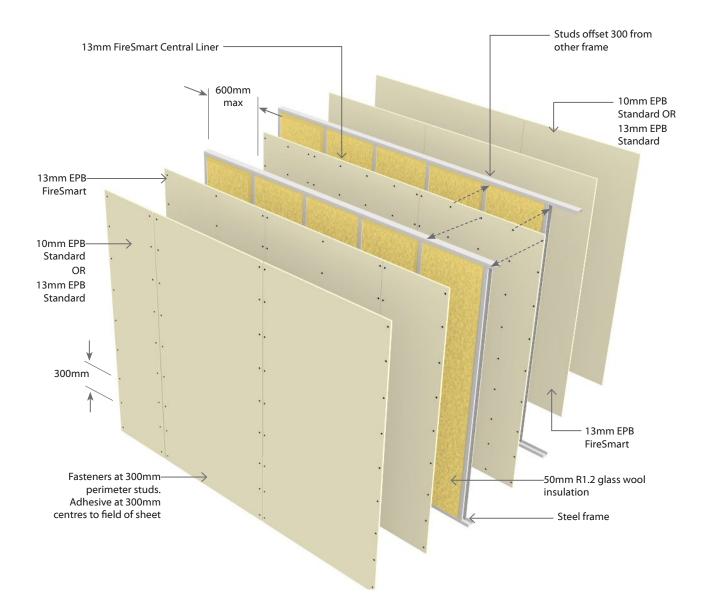


EPB Noise Contro	Systems	FULL INTERTENANCY	March 20	25		
E4CSDA60	<u>D</u> ouble <u>S</u> tee	el Frame  - 13mm FireSmart <u>C</u> er	ntral Liner	Non Loa	d Bearing	Two Way FRR

# **<u>4</u>** Layers: 2 Layers of Plasterboard to each side of frame

# Full Intertenancy **A**coustic

System Number	Lining	FRR	Load Bearing	Noise Control*		Lining Requirement
System Number	Suffix		Ability	STC	Rw	Lining Requirement
546653469	-FS46	-/60/60	NLB	56	56	1 x 13mm EPB FireSmart and 1 x 10mm Standard each side
E4CSDA60	-FS52	-/60/60	NLB	57	58	1 x 13mm EPB FireSmart and 1 x 13mm Standard each side



Face Paper Product Identification Code							
10mm EPB Standard	S10						
13mm EPB Standard	S13						
13mm EPB FireSmart	F13						

Non Load Bearing

**Two Way FRR** 

E3SMA30

Steel Frame with Resilient Mount

**<u>3</u>** Layers: 1 Layer of Plasterboard to Framing side & 2 Layers of Plasterboard on Mount side

Full Intertenancy <u>A</u>coustic

System Number	Lining	EBB EBB			ontrol*	Lining Requirement
System Number	Suffix	FNN	Bearing Ability	STC	Rw	
E3SMA30	-M30	-/30/30	NLB	55	54	Frame Side: 1 x 10mm EPB MultiSmart Mount Side: 2 x 10mm EPB MultiSmart

#### Framing

Steel studs with minimum dimensions  $64mm \times 34mm \times 0.55$  BMT with 6mm return. Tracks to be minimum size  $64mm \times 30mm \times 0.55$  BMT and are fixed to floor and ceiling in true alignment. Studs are placed at 600mm centres maximum.

Studs are placed with a 15mm expansion gap at top of frame. The studs are not directly fixed to tracks. The studs are held in place by the grip of the channel runners. No other fixing is to be used.

#### Wall Heights

Recommended maximum height is 2.7m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

# Partition Width

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 104mm.

Stud Depth	Mount + Channel	Lining Suffix	Plasterboard	Total Partition
64mm	40mm	M30	30mm	134mm
		\$39	39mm	143mm

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 75mm thick R1.8 glass wool blanket.

#### **Acoustic Resilient Mount**

The Resilient Mount shall be fixed to the studs at 600mm centres vertically and on every alternative stud using 32mm x 8g wafer head screws. When adjusting the clip for depth, 3mm rubber must remain between the underside of the steel spacer head and the furring channel. The Furring channels shall have a minimum depth of 28mm (e.g Rondo 129) abd are clipped horizontally into the Mounts. Joints must be made as close as possible to the clips.

#### **Plasterboard Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

**Framing Side:** One layer of 10mm EPB MultiSmart Plasterboard lining fixed vertically. All sheet joints must be fixed over steel framing.

**Resilient Mount Side:** Two layers of 10mm EPB MultiSmart fixed vertically on the furring channel. Vertical joints of outer layer should be offset by 600mm from those of the inner layer. Use full height sheets where possible. The inner layers are fixed hard to the floor. Sheet end butt joints must be formed over nogs or furring channels and offset the outer layer joints from the inner layer. Sheets shall be

#### Fixing of Linings

touch fitted.

Fasteners (As per Specified System Above)

	Furring C	Framing Side				
System Number	1 <sup>st</sup> Layer 2 <sup>nd</sup> Layer		Single Layer			
	Self-Tapping Drywall Screws					
E3SMA30-M30	10mm	10mm	10mm			
E35INIA30-INI30	25 x 6g	25 x 6g				

#### Fastener Centres

**Framing Side**: Fix at 300mm centres up each stud with no fixing to top or bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

**Resilient Mount Side:** Fix 300mm centres along each furring channel. Place fasteners minimum 12mm from sheet edges and sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

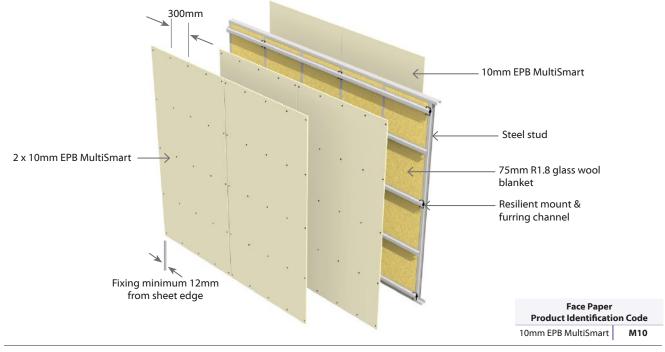
#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing or the inner layer. The single or outer layer is then bedded onto the bead. The perimeter junctions of the wall must be airtight. **Jointing** 

# Inner Layer: Unstopped.

Outer or Single Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard

Installation Guide.



E4SMA30

FULL INTERTENANCY

March 2025

Non Load Bearing

Two Way FRR

Full Intertenancy Acoustic

# **<u>4</u>** Layers: <sup>2</sup> Layers of Plasterboard to Framing side & 2 Layers of Plasterboard on Mount side

Steel Frame with Resilient Mount

System Number	Lining	FRR	Load Bearing	Noise C	ontrol*	Lining Requirement
System Number	Suffix		Ability	STC	Rw	Lining requirement
E4SMA30	-F40	-/30/30	NLB	56	55	Frame Side: 2 x 10mm EPB FireSmart Mount Side: 2 x 10mm EPB FireSmart

#### Framing

Steel studs with minimum dimensions  $64mm \times 34mm \times 0.55$  BMT with 6mm return. Tracks to be minimum size  $64mm \times 30mm \times 0.55$  BMT and are fixed to floor and ceiling in true alignment. Studs are placed at 600mm centres maximum.

Studs are placed with a 15mm expansion gap at top of frame. The studs are not directly fixed to tracks. The studs are held in place by the grip of the channel runners.

No other fixing is to be used.

#### **Wall Heights**

Recommended maximum height is 2.7m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### **Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 104mm.

Stud Depth	Mount + Channel	Lining Suffix	Plaster- board	Total Partition
64mm	40mm	S40	40mm	144mm

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 75mm thick R1.8 glass wool blanket.

#### **Acoustic Resilient Mount**

The Resilient Mount shall be fixed to the studs at 600mm centres vertically and on every alternative stud using 32mm x 8g wafer head screws. When adjusting the clip for depth. 3mm rubber must remain between the underside of the steel spacer head and the furring channel. The Furring channels are clipped horizontally into the Mounts. Joints must be made as close as possible to the clips.

#### Plasterboard Lining

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

**Framing Side:** Two layer of 10mm EPB FireSmart lining fixed vertically. Vertical joints of outer layer should be offset by 600mm from those of the inner layer. All sheet joints must be fixed over steel framing.

**Resilient Mount Side:** Two Layers of 10mm EPB FireSmart lining fixed vertically on the furring channel. Vertical joints of outer layer should be offset by 600mm from those of the inner layer.

Use full height sheets where possible. The inner layers are fixed hard to the floor. Sheet end butt joints must be formed over nogs or furring channels and offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

### **Fixing of Linings**

Fasteners

	Furring Ch	annel Side	Framing Side				
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer			
	Self-Tapping Drywall Screws						
F46M420 F40	10mm	10mm	10mm	10mm			
E4SMA30-F40	25 x 6g	32 x 6g	25 x 6g	32 x 6g			

#### **Fastener Centres**

**Framing Side**: Fix at 300mm centres up each stud with no fixing to top or bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

**Resilient Mount Side:** Fix 300mm centres along each furring channel. Place fasteners minimum 12mm from sheet edges and sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

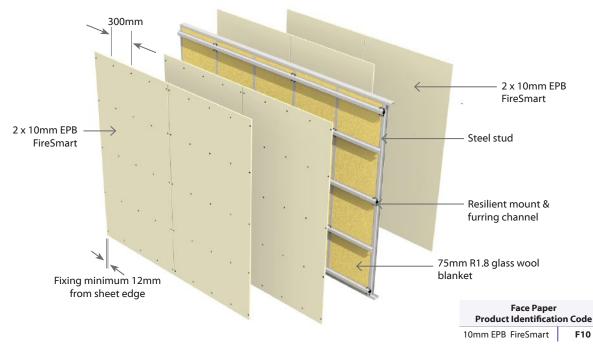
#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

#### Inner Layer: Unstopped

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



Non Load Bearing

**Two Way FRR** 

Full Intertenancy Acoustic

E3SMA60

#### Steel Frame with Resilient Mount

# **<u>3</u>** Layers: 1 Layer of Plasterboard to Framing side & 2 Layers of Plasterboard on Mount side

	Lining		Load		Control	
System Number	Suffix	FRR	Bearing Ability	STC	Rw	Lining Requirement
E3SMA60	-MS39	-/60/60	NLB	56	55	Frame Side: 1 x 13mm EPB MultiSmart Mount Side: 2 x 13mm EPB Standard
	-M39	-/60/60	NLB	57	56	Frame Side: 1 x 13mm EPB MultiSmart Mount Side: 2 x 13mm EPB MultiSmart

#### Framing

Steel studs with minimum dimensions  $64mm \times 34mm \times 0.55$  BMT with 6mm return. Tracks to be minimum size  $64mm \times 30mm \times 0.55$  BMT and are fixed to floor and ceiling in true alignment. Studs are placed at 600mm centres maximum.

Studs are placed with a 15mm expansion gap at top of frame. The studs are not directly fixed to tracks. The studs are held in place by the grip of the channel runners. No other fixing is to be used.

#### Wall Heights

Recommended maximum height is 2.7m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### **Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 104mm.

	Stud Depth	Mount + Channel	Lining Suffix	Plasterboard	Total Partition
	64	10	MS39	39mm	143mm
64mm	40mm	M39	39mm	143mm	

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 75mm thick R1.8 glass wool blanket.

#### **Acoustic Resilient Mount**

The Resilient Mount shall be fixed to the studs at 600mm centres vertically and on every alternative stud using 32mm x 8g wafer head screws. When adjusting the clip for depth, 3mm rubber must remain between the underside of the steel spacer head and the furring channel. The Furring channels are clipped horizontally into the Mounts. Joints must be made as close as possible to the clips.

#### **Plasterboard Lining**

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

**Framing Side:** One layer of EPB Plasterboard lining fixed vertically. All sheet joints must be fixed over steel framing.

**Resilient Mount Side:** Two layers fixed vertically on the furring channel. Vertical joints of outer layer should be offset by 600mm from those of the inner layer.

Use full height sheets where possible. The inner layers are fixed hard to the floor. Sheet end butt joints must be formed over nogs or furring channels and offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

#### **Fixing of Linings**

#### Fasteners (As per Specified System Above)

	Furring Cl	Framing Side				
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	Single Layer			
	Self-Tapping Drywall Screws					
E3SMA60-MS39	13mm	13mm	13mm			
E33WA00-W339	25 x 6g	41 x 6g	25 x 6g			
E3SMA60-M39	13mm	13mm	13mm			
ESSINA00-INIS9	25 x 6g	41 x 6g	25 x 6g			

#### **Fastener Centres**

Framing Side: Fix at 300mm centres up each stud with no fixing to top or bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

**Resilient Mount Side:** Fix 300mm centres along each furring channel. Place fasteners minimum 12mm from sheet edges and sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

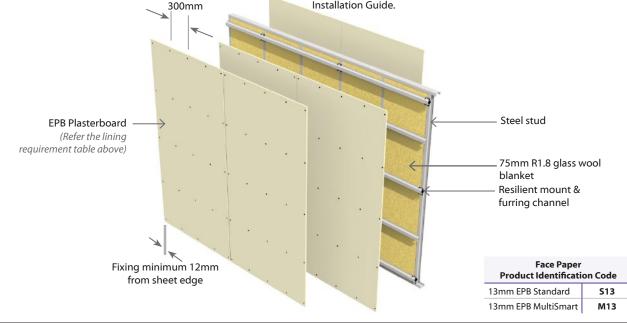
#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing or the inner layer. The single or outer layer is then bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

Inner Layer: Unstopped.

Outer or Single Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



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# March 2025

#### Non Load Bearing

**Two Way FRR** 

# Full Intertenancy Acoustic

E4SMA60 Steel Frame with Resilient Mount

# **<u>4</u>** Layers: <sup>2</sup> Layers of Plasterboard to Framing side & 2 Layers of Plasterboard on Mount side

Sustan Number	Lining	FRR	Load		Control	Lining Dequirement	
System Number	Suffix	FKK	Bearing Ability	STC	Rw	Lining Requirement	
E4SMA60	-S52	-/60/60	NLB	58	57	Frame Side: 2 x 13mm EPB Standard Mount Side: 2 x 13mm EPB Standard	
	-M40	-/60/60	NLB	59	58	Frame Side: 2 x 10mm EPB MultiSmart Mount Side: 2 x 10mm EPB MultiSmart	

#### Framing

Steel studs with minimum dimensions  $64 \text{mm} \, x \, 34 \text{mm} \, x \, 0.55$  BMT with 6mm return. Tracks to be minimum size 64mm x 30mm x 0.55 BMT and are fixed to floor and ceiling in true alignment. Studs are placed at 600mm centres maximum.

Studs are placed with a 15mm expansion gap at top of frame. The studs are not directly fixed to tracks. The studs are held in place by the grip of the channel runners. No other fixing is to be used.

#### Wall Heights

Recommended maximum height is 2.7m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### Partition Width

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 104mm.

Stud Depth	Mount + Channel	Lining Suffix	Plaster- board	Total Partition
64mm	40mm	S52	52mm	156mm
		M40	40mm	144mm

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 75mm thick R1.8 glass wool blanket.

#### **Acoustic Resilient Mount**

The Resilient Mount shall be fixed to the studs at 600mm centres vertically and on every alternative stud using 32mm x 8g wafer head screws. When adjusting the clip for depth. 3mm rubber must remain between the underside of the steel spacer head and the furring channel. The Furring channels are clipped horizontally into the Mounts. Joints must be made as close as possible to the clips.

#### Plasterboard Lining

NB: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Framing Side: Two layer of EPB Plasterboard lining fixed vertically. Vertical joints of outer layer should be offset by 600mm from those of the inner layer. All sheet joints must be fixed over steel framing.

58	Frame Side: 2 x 10mm EPB MultiSmart Mount Side: 2 x 10mm EPB MultiSmart					
Resilient	t Mount Side: Two Layers fixed vertically on the furring					

channel. Vertical joints of outer layer should be offset by 600mm from those of the inner layer.

Use full height sheets where possible. The inner layers are fixed hard to the floor. Sheet end butt joints must be formed over nogs or furring channels and offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

# **Fixing of Linings**

#### Fasteners (As per Specified System Above)

	Furring Ch	annel Side	Framing Side					
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer				
		Self-Tapping Drywall Screws						
E4SMA60-S52	13mm	13mm	13mm	13mm				
E45MA00-552	25 x 6g	41 x 6g	25 x 6g	41 x 6g				
E4SMA60-M40	10mm	10mm	10mm	10mm				
	25 x 6g	32 x 6g	25 x 6g	32 x 6g				

#### **Fastener Centres**

Framing Side: Fix at 300mm centres up each stud with no fixing to top or bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

Resilient Mount Side: Fix 300mm centres along each furring channel. Place fasteners minimum 12mm from sheet edges and sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur.

Avoid outer layer screws from hitting inner layer screws.

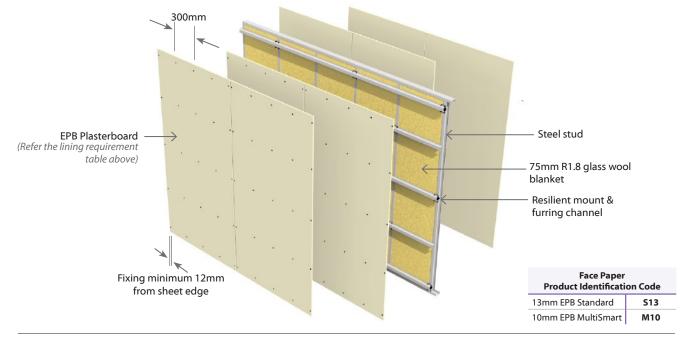
#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

Inner Layer: Unstopped

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



**Two Way FRR** 

# E4SMA90

# <u>S</u>teel Frame with Resilient <u>M</u>ount

<u>**4**</u> Layers: <sup>2</sup> Layers of Plasterboard to Framing side & 2 Layers of Plasterboard on Mount side

Non Load Bearing

# Full Intertenancy **A**coustic

Custom Number	Lining	500	Load	Noise Control		Lining Dominant	
System Number	Suffix	FRR	Bearing Ability	STC	Rw	Lining Requirement	
<b>E</b> 4614 A 00	-M46	-/90/90	NLB	60	59	Frame Side: 1 x 13mm EPB MultiSmart & 1 x 10mm EPB MultiSmart Mount Side: 1 x 13mm EPB MultiSmart & 1 x 10mm EPB MultiSmart	
E4SMA90	-M52	-/90/90	NLB	62	61	Frame Side: 2 x 13mm EPB MultiSmart Mount Side: 2 x 13mm EPB MultiSmart	

#### Framing

Steel studs with minimum dimensions  $64mm \times 34mm \times 0.55$  BMT with 6mm return. Tracks to be minimum size  $64mm \times 30mm \times 0.55$  BMT and are fixed to floor and ceiling in true alignment. Studs are placed at 600mm centres maximum.

Studs are placed with a 15mm expansion gap at top of frame. The studs are not directly fixed to tracks. The studs are held in place by the grip of the channel runners.

No other fixing is to be used.

#### **Wall Heights**

Recommended maximum height is 2.7m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

# Partition Width

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 104mm.

Stud Depth	Mount + Channel	Lining Suffix	Plaster- board	Total Partition
64mm	40	M46	46mm	150mm
	40mm	M52	52mm	156mm

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 75mm thick R1.8 glass wool blanket.

#### **Acoustic Resilient Mount**

The Resilient Mount shall be fixed to the studs at 600mm centres vertically and on every alternative stud using 32mm x 8g wafer head screws. When adjusting the clip for depth. 3mm rubber must remain between the underside of the steel spacer head and the furring channel. The Furring channels are clipped horizontally into the Mounts. Joints must be made as close as possible to the clips.

#### Plasterboard Lining

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

**Framing Side:** Two layers of EPB Plasterboard as per specified system above, fixed vertically. Vertical joints of outer layer should be offset by 600mm from those of the inner layer. All sheet joints must be fixed over steel framing.

	Furring Ch	annel Side	Framing Side				
System Number	1 <sup>st</sup> Layer 2 <sup>nd</sup> Layer		1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer			
	Self-Tapping Drywall Screws						
E4SMA90-M46	13mm 10mm		13mm	10mm			
E43WIA90-WI40	25 x 6g	41 x 6g	25 x 6g	41 x 6g			
F46MA00 MF2	13mm	13mm	13mm	13mm			
E4SMA90-M52	25 x 6g	41 x 6g	25 x 6g	41 x 6g			

Resilient Mount Side: Two layers of EPB Plasterboard as per specified

system above, fixed vertically on the furring channel. Vertical joints of

Use full height sheets where possible. The inner layers are fixed hard to the floor. Sheet end butt joints must be formed over nogs or furring

outer layer should be offset by 600mm from those of the inner layer.

channels and offset the outer layer joints from the inner layer.

#### **Fastener Centres**

Sheets shall be touch fitted.

**Fixing of Linings** 

Fasteners

**Framing Side:** Fix at 300mm centres up each stud with no fixing to top or bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

**Resilient Mount Side:** Fix 300mm centres along each furring channel. Place fasteners minimum 12mm from sheet edges and sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur.

Avoid outer layer screws from hitting inner layer screws.

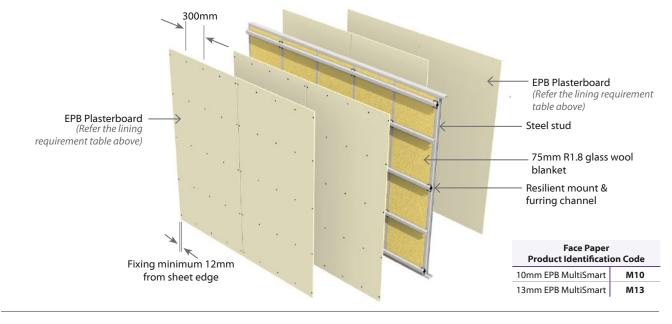
#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

Inner Layer: Unstopped

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



E4SRA60

#### FULL INTERTENANCY

March 2025

Non Load Bearing

Two Way FRR

Full Intertenancy Acoustic

# **<u>4</u>** Layers: <sup>2</sup> Layers of Plasterboard to Framing side & 2 Layers of Plasterboard on Rail side

Steel Frame with Resilient Rail

Load **Noise Control** Lining FRR Bearing System Number Lining Requirement Suffix STC Rw Ability Frame Side: 2 x 13mm EPB Standard NLB 54 -S52 -/60/60 55 Rail Side: 2 x 13mm FPB Standard E4SRA60 Frame Side: 2 x 10mm EPB MultiSmart -M40 -/60/60 NLB 56 55 Rail Side: 2 x 10mm EPB MultiSmart

#### Framing

Steel studs with minimum dimensions  $64mm \times 34mm \times 0.55$  BMT with 6mm return. Tracks to be minimum size  $64mm \times 30mm \times 0.55$  BMT and are fixed to floor and ceiling in true alignment. Studs are placed at 600mm centres maximum. Studs are placed with a 15mm expansion gap at top of frame. The studs are not directly fixed to the tracks. The studs are held in place by the grip of the channel runners.

No other fixing to the tracks is allowed.

#### **Wall Heights**

Recommended maximum height is 2.7m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### **Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 77mm.

Stud Depth	Rail	Lining Suffix	Plasterboard	Total Partition
64mm	13mm	M40	40mm	117mm
		S52	52mm	129mm

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 75mm thick R1.8 glass wool blanket.

#### Acoustic Resilient Rail

The resilient Rail shall be fixed to the studs at 600mm centres using 32mm x 8g wafer head self tapping screws through the base flange and into each stud. The base flange to face downwards and resilient edge upwards. Rails may be joined over the studs by nesting together with no more than 20mm overlap. Fasten through both channels into stud. Highest resilient channel shall be fixed no more than 75mm from the ceiling line and the lowest channel, 50mm from the floor line.

#### **Plasterboard Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

**Framing Side:** Two layers of EPB Plasterboard lining fixed vertically. Vertical joints of outer layer should be offset by 600mm from those of the inner layer. All sheet joints must be fixed over steel framing.

**Resilient Rail Side:** Two layers fixed vertically on the furring channel. Vertical joints of outer layer should be offset by 600mm from those of the inner layer.

Use full height sheets where possible. The inner layers are fixed hard to the floor. Sheet end butt joints must be formed over nogs or rails and offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

# Fixing of Linings

#### Fasteners (As per Specified System Above)

	Resilient	Rail Side	Framing Side				
System Number	1 <sup>st</sup> Layer 2 <sup>nd</sup> Layer		1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer			
	Self-Tapping Drywall Screws						
E4SRA60-M40	10mm	10mm	10mm	10mm			
E43RA00-10140	25 x 6g	32 x 6g	25 x 6g	32 x 6g			
F460460 652	13mm	13mm	13mm	13mm			
E4SRA60-S52	25 x 6g	41 x 6g	25 x 6g	41 x 6g			

#### **Fastener Centres**

**Framing Side:** Fix at 300mm centres up each stud with no fixing to top or bottom track sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

**Resilient Rail Side:** Fix 300mm centres along each resilient rail. Place fasteners minimum 12mm from sheet edges and sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

Lining screws to be fastened to the side of the studs and to ensure that

they don't penetrate or touch the framing.

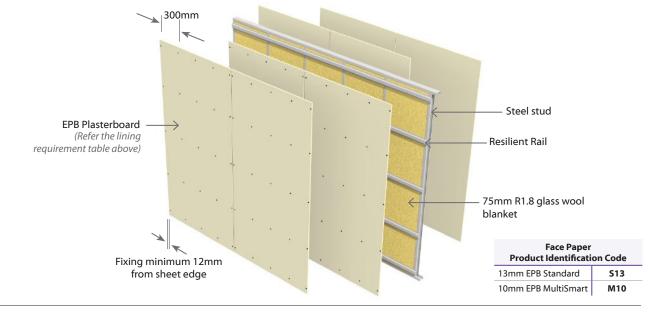
#### Acoustic Sealant

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

Inner Layer: Unstopped

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with the EPB Plasterboard Installation Guide.



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Non Load Bearing

March 2025

**Two Way FRR** 

Full Intertenancy Acoustic

E4SRA90

# <u>Steel Frame with Resilient Rail</u>

**<u>4</u>** Layers: <sup>2</sup> Layers of Plasterboard to Framing side & 2 Layers of Plasterboard on Rail side

	Lining Suffix	FRR	Load Bearing Ability	Noise Control		Lining Demukroment
System Number				STC	Rw	Lining Requirement
	-M46	-/90/90	NLB	57	56	Frame Side: 1 x 10mm and 1 x 13mm EPB MultiSmart Rail Side: 1 x 10mm and 1 x 13mm EPB MultiSmart
E4SRA90	-F52	-/90/90	NLB	57	56	Frame Side: 2 x 13mm EPB FireSmart Rail Side: 2 x 13mm EPB FireSmart
	-M52	-/90/90	NLB	59	58	Frame Side: 2 x 13mm EPB MultiSmart Rail Side: 2 x 13mm EPB MultiSmart

#### Framing

Steel studs with minimum dimensions  $64mm \times 34mm \times 0.55$  BMT with 6mm return. Tracks to be minimum size  $64mm \times 30mm \times 0.55$  BMT and are fixed to floor and ceiling in true alignment. Studs are placed at 600mm centres maximum. Studs are placed with a 15mm expansion gap at top of frame. The studs are not directly fixed to the tracks. The studs are held in place by the grip of the channel runners.

No other fixing to the tracks is allowed.

#### Wall Heights

Recommended maximum height is 2.7m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### **Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 77mm.

Stud Depth	Rail	Lining Suffix	Plasterboard	Total Partition
64mm	12	M46	46mm	123mm
	13mm	F52, M52	52mm	129mm

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 75mm thick R1.8 glass wool blanket.

#### **Acoustic Resilient Rail**

The resilient Rail shall be fixed to the studs at 600mm centres using 32mm x 8g wafer head self tapping screws through the base flange and into each stud. The base flange to face downwards and resilient edge upwards. Rails may be joined over the studs by nesting together with no more than 20mm overlap. Fasten through both channels into stud. Highest resilient channel shall be fixed no more than 75mm from the ceiling line and the lowest channel, 50mm from the floor line.

#### **Plasterboard Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

**Framing Side:** Two layers of EPB Plasterboard as per specified system above, fixed vertically. Vertical joints of outer layer should be offset by 600mm from those of the inner layer. All sheet joints must be fixed over steel framing.

**Resilient Rail Side:** Two layers of EPB Plasterboard as per specified system above, fixed vertically on the furring channel. Vertical joints of outer layer should be offset by 600mm from those of the inner layer. Use full height sheets where possible. The inner layers are fixed hard to the floor. Sheet end butt joints must be formed over nogs or rails and offset the outer layer joints from the inner layer.

#### Sheets shall be touch fitted. Fixing of Linings

#### Fasteners

a stellers							
	Resilient	Rail Side	Framing Side				
System Number	1 <sup>st</sup> Layer 2 <sup>nd</sup> Layer		1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer			
	Self-Tapping Drywall Screws						
E4SRA90-M46	10mm	13mm	10mm	13mm			
E45KA90-M40	25 x 6g	41 x 6g	25 x 6g	41 x 6g			
E4SRA90-F52	13mm	13mm	13mm	13mm			
E4SRA90-M52	25 x 6g	41 x 6g	25 x 6g	41 x 6g			

#### **Fastener Centres**

**Framing Side:** Fix at 300mm centres up each stud with no fixing to top or bottom track sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

Resilient Rail Side: Fix 300mm centres along each resilient rail.

Place fasteners minimum 12mm from sheet edges and sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur.

Avoid outer layer screws from hitting inner layer screws.

Lining screws to be fastened to the side of the studs and to ensure that they don't penetrate or touch the framing.

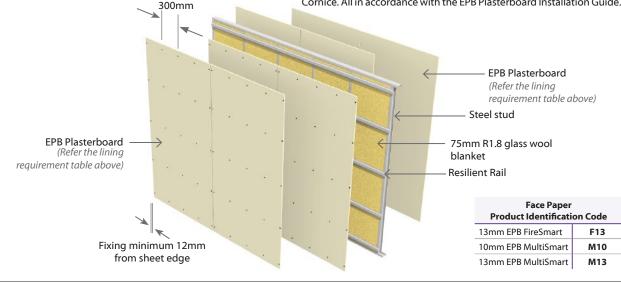
#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

Inner Layer: Unstopped

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with the EPB Plasterboard Installation Guide.



Non Load Bearing

Two Way FRR

Full Intertenancy Acoustic

#### 4 Layers: 2 Layers of Plasterboard to each side of frame

Quiet Steel Frame

System Number	Lining FRR		Load Nois Bearing		Control	Lining Requirement
System Number	Suffix	FRR	Ability	STC	Rw	Lining Requirement
E4SQA30	-F40	-/30/30	NLB	55	54	2 x 10mm EPB FireSmart each side

#### Framing

E4SOA30

**Quiet Steel Frame** – Tracks to be  $92mm \times 30mm \times 0.55$  BMT and are fixed to floor and ceiling. Quiet Steel studs  $92mm \times 42mm \times 0.55$  BMT are friction fitted and placed at max 600mm centres with a minimum 15mm expansion gap at top of frame.

No fixings to the top track allowed.

#### **Wall Heights**

Recommended maximum height is 3.6m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### Partition Width

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 92mm.

Stud Depth	Lining Suffix	Plasterboard	<b>Total Partition</b>	
92mm	S40	40mm	132mm	

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 90mm thick R2.2 glass wool blanket.

#### Plasterboard Lining

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of 10mm EPB FireSmart lining fixed to each side of the Quiet steel framing.

Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame are offset. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm from those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

#### Acoustic Sealant

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

## **Fixing of Linings**

#### Fasteners

	Side	One	Side Two				
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer			
	Self-Tapping Drywall Screws						
5450430 540	10mm	10mm	10mm	10mm			
E4SQA30-F40	25 x 6g	32 x 6g	25 x 6g	32 x 6g			

#### **Fastener Centres**

Inner Layer: Fix at 300mm centres up all studs.

Outer Layer: Fix at 300mm centres up all studs.

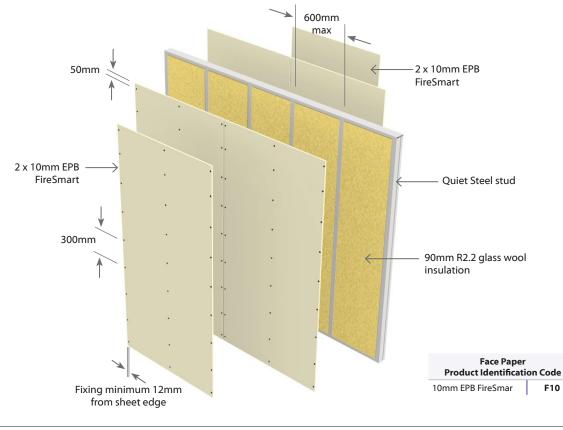
Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

#### Jointing

Inner Layer: Unstopped

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



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March 2025

Non Load Bearing

Full Intertenancy Acoustic

#### **<u>4</u>** Layers: 2 Layers of Plasterboard to each side of frame

Quiet Steel Frame

System Number	Lining	FRR	Load Bearing		Control	Lining Requirement
System Number	Suffix	FRR	Ability	STC	Rw	Lining Requirement
E4SQA45	-S46	-/45/45	NLB	56	55	1x 10mm EPB Standard & 1 x 13mm Standard each side

#### Framing

E4SQA45

**Quiet Steel Frame** – Tracks to be 92mm x 30mm x 0.55 BMT and are fixed to floor and ceiling. Quiet Steel studs 92mm x 42mm x 0.55 BMT are friction fitted and placed at max 600mm centres with a minimum 15mm expansion gap at top of frame.

No fixings to the top track allowed.

#### **Wall Heights**

Recommended maximum height is 3.6m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### Partition Width

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 92mm.

Stud Depth	Lining Suffix	Plasterboard	<b>Total Partition</b>	
92mm	S46	46mm	138mm	

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 90mm thick R2.2 glass wool blanket.

#### **Plasterboard Lining**

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of 10mm EPB Standard and One layer of 13mm EPB Standard linings fixed to each side of the Quiet steel framing.

Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame are offset. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm from those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

#### Acoustic Sealant

A bead of acoustic sealant must be placed around the perimeter of the inner layer. The outer layer is then bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### **Fixing of Linings**

#### Fasteners

	Side	One	Side Two				
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer			
	Self-Tapping Drywall Screws						
FACOLAE SAC	10mm	13mm	10mm	13mm			
E4SQA45-S46	25 x 6g	41 x 6g	25 x 6g	41 x 6g			

#### **Fastener Centres**

Inner Layer: Fix at 300mm centres up all studs.

Outer Layer: Fix at 300mm centres up all studs.

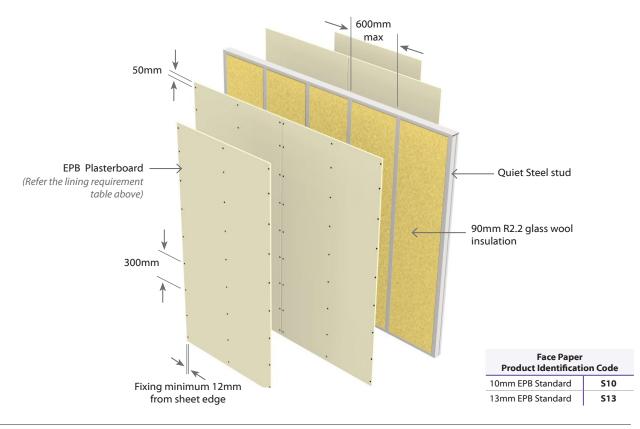
Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

#### Jointing

Inner Layer: Unstopped

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



Non Load Bearing

March 2025

**Two Way FRR** 

E3SQA60

#### **Q**uiet **S**teel Frame

**<u>3</u>** Layers: <sup>1</sup> Layer of Plasterboard to one side of frame & 2 Layers of Plasterboard to other side of frame

## Full Intertenancy **A**coustic

System Number	Lining FRR		Load Bearing	Noise Control		Lining Demoissment
System Number Suffix		FNN	Ability	STC	Rw	Lining Requirement
	-M33	-/60/60	NLB	55	54	1 x 13mm EPB MultiSmart one side 2 x 10mm EPB MultiSmart other side
E3SQA60	-M36	-/60/60	NLB	55	54	1 x 13mm EPB MultiSmart one side 1 x 10mm EPB MultiSmart & 1 x 13mm EPB MultiSmart other side
	-M39	-/60/60	NLB	57	56	1 x 13mm EPB MultiSmart one side 2 x 13mm EPB MultiSmart other side

#### Framing

**Quiet Steel Frame** – Tracks to be 92mm x 30mm x 0.55 BMT and are fixed to floor and ceiling. Quiet Steel studs 92mm x 42mm x 0.55 BMT are friction fitted and placed at max 600mm centres with a minimum 15mm expansion gap at top of frame.

No fixings to the top tracks allowed.

#### **Wall Heights**

Recommended maximum height is 3.6m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### **Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 92mm.

Stud Depth	Lining Suffix	Plasterboard	<b>Total Partition</b>
	M33	33mm	125mm
92mm	M36	36mm	128mm
	M39	39mm	131mm

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 90mm thick R2.2 glass wool blanket.

#### **Plasterboard Lining**

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of EPB Plasterboard lining on one side and Two layers on the other side as per specified system above.

Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm from those of the inner layer. Sheet end butt joints must be formed over nogs. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing or the inner layer. The single or outer layer is then bedded onto the bead. The perimeter junctions of the wall must be airtight.

## **Fixing of Linings**

#### Fasteners (As per Specified System Above)

	Side	Side Two					
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	Single Layer				
	Self-Tapping Drywall Screws						
E3SOA60-M33	10mm	10mm	13mm				
E35QA60-M33	25 x 6g	32 x 6g	25 x 6g				
F260460 M26	13mm	10mm	13mm				
E3SQA60-M36	25 x 6g	41 x 6g	25 x 6g				
E3SQA60-M39	13mm	13mm	13mm				
E220400-11139	25 x 6g	41 x 6g	25 x 6g				

#### Fastener Centres

Inner layer: Fix at 300mm centres up all studs.

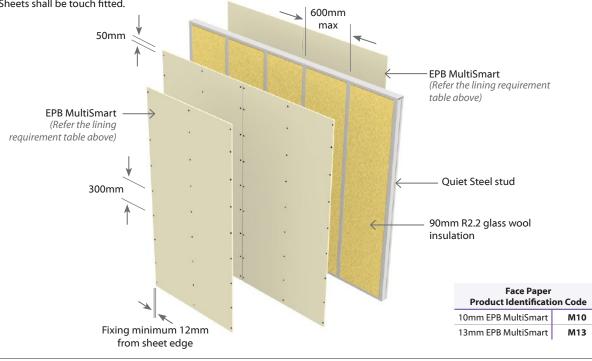
Single or Outer Layer: Fix at 300mm centres up all studs.

Place fasteners 12mm from the sheet edge and 50mm from sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

#### Jointing

Inner Layer: Unstopped.

Outer or Single Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



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E4SQA60

FULL INTERTENANCY

March 2025

Non Load Bearing

Full Intertenancy **A**coustic

#### **<u>4</u>** Layers: 2 Layers of Plasterboard to each side of frame

Quiet Steel Frame

Custom Number	Lining	FRR	Load		Control	Lining Demoissment
System Number	Suffix	FKK	Bearing Ability	STC	Rw	Lining Requirement
E450A60	-S52	-/60/60	NLB	57	56	2 x 13mm EPB Standard each side
E4SQA60	-M40	-/60/60	NLB	57	56	2 x 10mm EPB MultiSmart each side

#### Framing

**Quiet Steel Frame** – Tracks to be 92mm x 30mm x 0.55 BMT and are fixed to floor and ceiling. Quiet Steel studs 92mm x 42mm x 0.55 BMT are friction fitted and placed at max 600mm centres with a minimum 15mm expansion gap at top of frame.

No fixings to the top tracks allowed.

#### **Wall Heights**

Recommended maximum height is 3.6m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### **Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 92mm.

Stud Depth	Lining Suffix	Plasterboard	Total Partition	
	\$52	52mm	144mm	
92mm	M40	40mm	132mm	

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 90mm thick R2.2 glass wool blanket.

#### Plasterboard Lining

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of EPB Plasterboard lining on one side and Two Layers on the other side as per specified system above.

Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm from those of the inner layer.

Sheet end butt joints must be formed over nogs. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### **Fixing of Linings**

#### Fasteners (As per Specified System Above)

	Side	One	Side Two					
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer				
		Self-Tapping Drywall Screws						
F450460 553	13mm	13mm	13mm	13mm				
E4SQA60-S52	25 x 6g	41 x 6g	25 x 6g	41 x 6g				
F460460 M40	10mm	10mm	10mm	10mm				
E4SQA60-M40	25 x 6g	32 x 6g	25 x 6g	32 x 6g				

#### **Fastener Centres**

Inner Layer: Fix at 300mm centres up all studs.

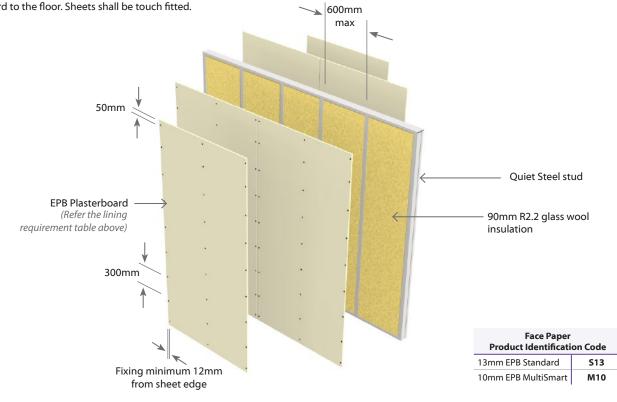
Outer Layer: Fix at 300mm centres up all studs.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

#### Jointing

#### Inner Layer: Unstopped

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



EPB Noise Control Systems

**FULL INTERTENANCY** 

Non Load Bearing

Two Way FRR

Full Intertenancy **A**coustic

#### **<u>4</u>** Layers: 2 Layers of Plasterboard to each side of frame

System Number	Lining FRR		Load Noise Co		Control	Lining Requirement
System Number	Suffix	T AK	Ability	STC	Rw	
E4SQA75	-MS52	-/75/75	NLB	59	58	1 x 13mm EPB MultiSmart And 1 x 13mm Standard each side

#### Framing

E4SOA75

Quiet Steel Frame - Tracks to be 92mm x 30mm x 0.55 BMT and are fixed to floor and ceiling. Quiet Steel studs 92mm x 42mm x 0.55 BMT are friction fitted and placed at max 600mm centres with a minimum 15mm expansion gap at top of frame.

No fixings to the top tracks allowed.

#### Wall Heights

Recommended maximum height is 3.6m. Higher walls may be subject to specific engineering design or consult the framing manufacturer. **Partition Width** 

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 92mm.

Stud Depth	Lining Suffix	Plasterboard	<b>Total Partition</b>
92mm	MS52	52mm	144mm

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 90mm thick R2.2 glass wool blanket.

#### Plasterboard Lining

NB: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of 13mm EPB MultiSmart and One layer of 13mm EPB Standard linings fixed to each side of the Quiet steel framing.

Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame are offset. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm from those of the inner layer.

#### Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### **Fixing of Linings**

Fasteners

	Side	One	Side Two					
System Number	1 <sup>st</sup> Layer	<sup>st</sup> Layer 2 <sup>nd</sup> Layer		2 <sup>nd</sup> Layer				
	Self-Tapping Drywall Screws							
E4SOA75-MS52	13mm	13mm	13mm	13mm				
E45QA75-W1552	25 x 6g	41 x 6g	25 x 6g	41 x 6g				

#### Fastener Centres

Inner Layer: Fix at 300mm centres up all studs.

Outer Layer: Fix at 300mm centres up all studs.

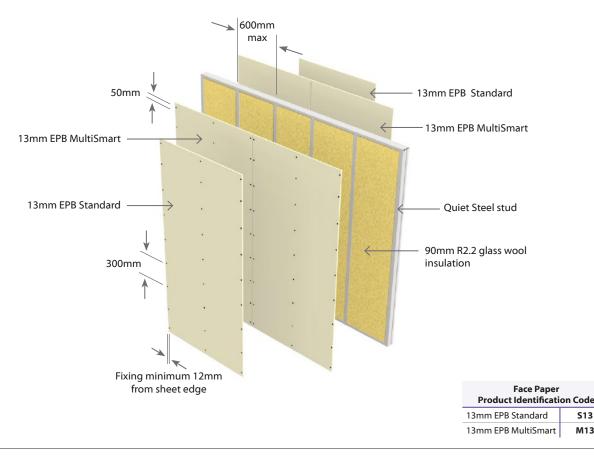
Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

#### Jointing

#### Inner Layer: Unstopped

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.





E4SQA90

**FULL INTERTENANCY** 

March 2025

Non Load Bearing

Full Intertenancy Acoustic

#### **<u>4</u>** Layers: 2 Layers of Plasterboard to each side of frame

Quiet Steel Frame

Custom Number	Lining		Load	Noise Control			
System Number	Suffix	FRR	Bearing Ability	STC	Rw	Lining Requirement	
E4SQA90	-M46	-/90/90	NLB	59	58	1 x 10mm EPB MultiSmart And 1 x 13mm EPB MultiSmart each side	
	-M52	-/90/90	NLB	61	60	2 x 13mm EPB MultiSmart each side	

#### Framing

Quiet Steel Frame - Tracks to be 92mm x 30mm x 0.55 BMT and are fixed to floor and ceiling. Quiet Steel studs 92mm x 42mm x 0.55 BMT are friction fitted and placed at max 600mm centres with a minimum 15mm expansion gap at top of frame.

No fixings to the top tracks allowed.

#### Wall Heights

Recommended maximum height is 3.6m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### Partition Width

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 92mm.

Stud Depth	Lining Suffix	Plasterboard	<b>Total Partition</b>
92mm	M46	46mm	138mm

92mm			
	M52	52mm	144mm

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 90mm thick R2.2 glass wool blanket.

#### Plasterboard Lining

NB: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of EPB Plasterboard as per specified system above, fixed to each side of the Quiet steel framing.

Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame are offset. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm from those of the inner layer.

Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

#### Acoustic Sealant

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

## **Fixing of Linings**

Fasteners

	Side	One	Side Two				
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer			
	Self-Tapping Drywall Screws						
E4SOA90-M46	10mm	13mm	10mm	13mm			
E45QA90-M46	25 x 6g	41 x 6g	25 x 6g	41 x 6g			
E450400 M53	13mm	13mm	13mm	13mm			
E4SQA90-M52	25 x 6g	41 x 6g	25 x 6g	41 x 6g			

#### **Fastener Centres**

Inner Layer: Fix at 300mm centres up all studs.

Outer Layer: Fix at 300mm centres up all studs.

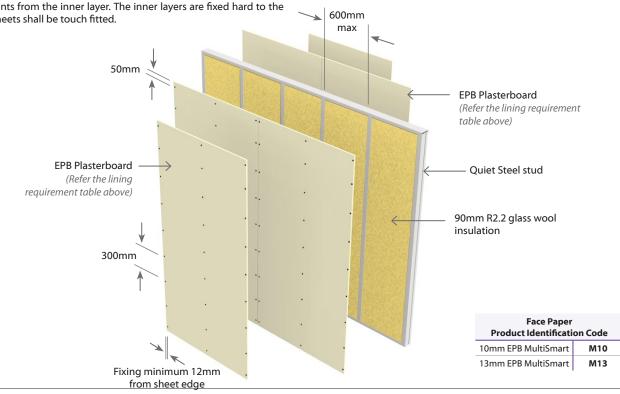
Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

#### Jointing

Inner Layer: Unstopped

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



Non Load Bearing

Two Way FRR

Full Intertenancy **A**coustic

## E3SS<u>A30 <u>S</u></u>

## <u>S</u>taggered <u>S</u>teel Frame

**<u>3</u>** Layers: 1 Layer of Plasterboard to one side of frame & 2 Layers of Plasterboard to other side of frame

	System Number	Lining FRR		Load Noise Bearing		Control	Lining Requirement	
-	System Number	Suffix		Ability	STC	Rw	Lining Requirement	
	E3SSA30	-539	-/30/30	NLB	55	54	1 x 13mm EPB Standard one side 2 x 13mm EPB Standard other side	

#### Framing

**Staggered Steel Frame** – Track to be a minimum size of 92mm x 30mm x 0.55 BMT and are fixed to floor and ceiling. Steel studs with minimum dimensions  $64 \times 34 \times 0.55$  mm BMT with 6mm return.

Stud to be fixed to the tracks using Staggered Stud Clip and placed at 600mm centres with a 15mm expansion gap at top of frame. Studs to be offset 300mm centres.

No other fixings to the track allowed.

#### Wall Heights

Recommended maximum height is 2.4m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

## Partition Width

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 92mm.

Track Depth	Lining Suffix	Plasterboard	<b>Total Partition</b>
92mm	\$39	39mm	131mm

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 75mm thick R1.8 glass wool blanket. Split 600mm wide blankets into 300mm.

#### Plasterboard Lining

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of 13mm EPB Standard lining on one side and Two layers of 13mm EPB Standard linings fixed to the other side of the Staggered steel framing.

Vertical fixing only permitted. Use full height sheets where possible. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm from those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

#### Fixing of Linings Fasteners

	Side	Side Two				
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	Single Layer			
	Self-Tapping Drywall Screws					
5255420 520	13mm	13mm	13mm			
E3SSA30-S39	25 x 6g	41 x 6g	25 x 6g			

#### **Fastener Centres**

Inner layer: Fix at 600mm centres up all studs.

Single or Outer Layer: Fix at 300mm centres up all studs.

Place fasteners minimum 12mm from the sheet edge and 50mm from sheet ends

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

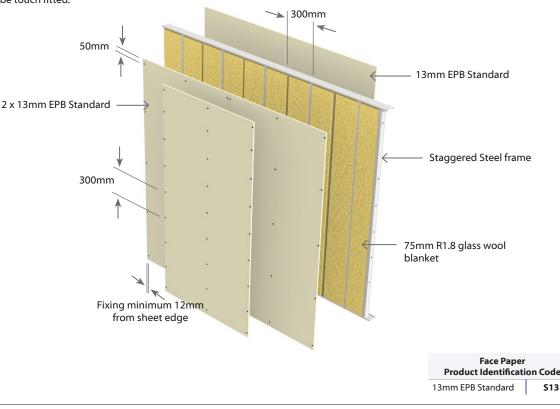
#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing or the inner layer. The single or outer layer is then bedded onto the bead. The perimeter junctions of the wall must be airtight.

## Jointing

Inner Layer: Unstopped

Outer or Single Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



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March 2025

Non Load Bearing

#### Two Way FRR

Full Intertenancy Acoustic

#### 4 Layers: 2 Layers of Plasterboard to each side of frame

**S**taggered **S**teel Frame

	System Number	Lining FRR		Load Noise Bearing		Control	Lining Requirement	
	System Number	Suffix	FRR	Ability	STC	Rw	Lining Requirement	
_	E4SSA45	-F40	-/45/45	NLB	56	55	2 x 10mm EPB FireSmart each side	

#### Framing

E4SSA45

**Staggered Steel Frame** – Tracks to be a minimum size of 92mm x 30mm x 0.55 BMT and are fixed to floor and ceiling. Steel studs with minimum dimensions  $64 \times 34 \times 0.55$  mm BMT with 6mm return.

Stud to be fixed to the tracks using Staggered Stud Clip and placed at 600mm centres with a 15mm expansion gap at top of frame. Studs to be offset 300mm centres.

No other fixings to tracks are allowed.

#### **Wall Heights**

Recommended maximum height is 2.4m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### **Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 92mm.

Track Depth	Lining Suffix	Plasterboard	<b>Total Partition</b>
92mm	S40	40mm	132mm

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 75mm thick R1.8 glass wool blanket. Split 600mm wide blankets into 300mm.

#### **Plasterboard Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of 10mm EPB FireSmart linings fixed to each side of the Staggered steel framing.

Vertical fixing only permitted. Use full height sheets where possible. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm from those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

## Fixing of Linings

asteriers						
	Side	One	Side Two			
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer		
	Self-Tapping Drywall Screws					
E4SSA45-F40	10mm	10mm	10mm	10mm		
E435A45-F40	25 x 6g	32 x 6g	25 x 6g	32 x 6g		

#### **Fastener Centres**

Inner layer: Fix at 600mm centres up all studs.

Outer Layer: Fix at 300mm centres up all studs.

Place fasteners minimum 12mm from the sheet edge and 50mm from sheet ends

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

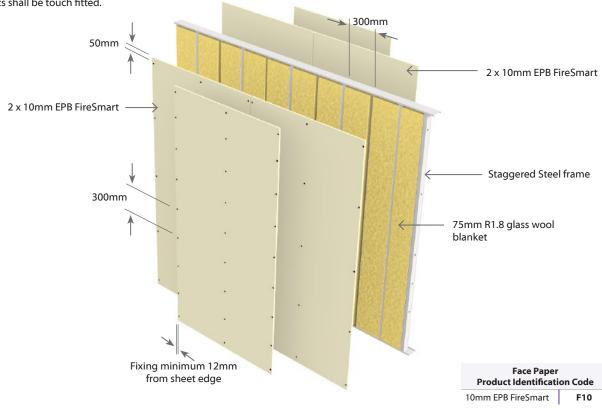
#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

Inner Layer: Unstopped

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



Freephone 0800 353 742

# Non Load Bearing

#### **Fixing of Linings** Fasteners (As per Specified System Above)

System Number	Side	Side Two				
	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	Single Layer			
	Self-Tapping Drywall Screws					
E3SSA60-MS39	13mm	13mm	13mm			
E3SSA60-M39	25 x 6g	25 x 6g				

Inner layer: Fix at 600mm centres up all studs.

Single or Outer Layer: Fix at 300mm centres up all studs.

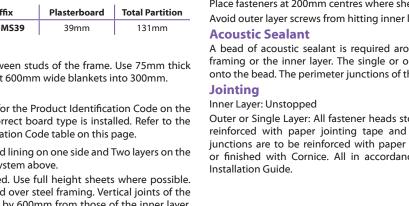
Place fasteners minimum 12mm from the sheet edge and 50mm from sheet ends

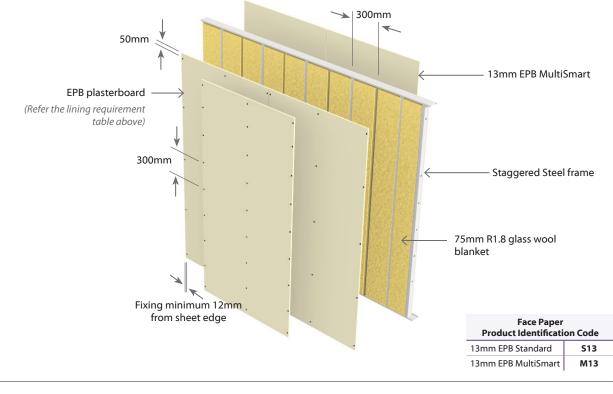
Place fasteners at 200mm centres where sheet end butt joints occur.

Avoid outer layer screws from hitting inner layer screws.

A bead of acoustic sealant is required around the perimeter of the framing or the inner layer. The single or outer layer is then bedded onto the bead. The perimeter junctions of the wall must be airtight.

Outer or Single Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard





Load **Noise Control** Lining Bearing FRR Lining Requirement Suffix STC Rw Ability 1 x 13mm EPB MultiSmart one side -MS39 NLB -/60/60 56 55 2 x 13mm FPB Standard other side 1 x 13mm EPB MultiSmart one side -M39 -/60/60 NLB 57 56 2 x 13mm EPB MultiSmart other side

#### Framing

E3SSA60

System Number

E3SSA60

Staggered Steel Frame - Track to be a minimum size of 92mm x 30mm x 0.55 BMT and are fixed to floor and ceiling. Steel studs with minimum dimensions 64 x 34mm x 0.55 BMT with 6mm return. Stud to be fixed to the tracks using Staggered Stud Clip and placed at 600mm centres with a 15mm expansion gap at top of frame. Studs to be offset 300mm centres.

Staggered Steel Frame

**3** Layers: <sup>1</sup> Layer of Plasterboard to one side of frame &

2 Layers of Plasterboard to other side of frame

No other fixings to the track allowed.

#### Wall Heights

Recommended maximum height is 2.4m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### Partition Width

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 92mm.

Track Depth	Lining	Lining Suffix Plasterboard		<b>Total Partition</b>
92mm	M39	MS39	39mm	131mm

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 75mm thick R1.8 glass wool blanket. Split 600mm wide blankets into 300mm.

#### **Plasterboard Lining**

NB: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of EPB Plasterboard lining on one side and Two layers on the other side as per specified system above.

Vertical fixing only permitted. Use full height sheets where possible. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm from those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

March 2025

## Full Intertenancy Acoustic



March 2025

Non Load Bearing

#### Two Way FRR

Full Intertenancy Acoustic

#### 4 Layers: 2 Layers of Plasterboard to each side of frame

**S**taggered **S**teel Frame

System Number	Lining	FRR	Load Bearing	Noise Control		Lining Requirement
System Number	Suffix	FAA		Rw		
E4SSA60	-S52	-/60/60	NLB	59	58	2 x 13mm EPB Standard each side

#### Framing

E4SSA60

**Staggered Steel Frame** – Tracks to be a minimum size of 92mm x 30mm x 0.55 BMT and are fixed to floor and ceiling. Steel studs with minimum dimensions  $64 \times 34mm \times 0.55$  BMT with 6mm return. Stud to be fixed to the tracks using Staggered Stud Clip and placed at 600mm centres with a 15mm expansion gap at top of frame.

Studs to be offset 300mm centres.

No other fixings to track are allowed.

#### Wall Heights

Recommended maximum height is 2.4m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### **Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 92mm.

Track Depth	Lining Suffix	Plasterboard	<b>Total Partition</b>
92mm	S52	52mm	144mm

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 75mm thick R1.8 glass wool blanket. Split 600mm wide blankets into 300mm.

#### **Plasterboard Lining**

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of 13mm EPB Standard linings fixed to each side of the Staggered steel framing.

Vertical fixing only permitted. Use full height sheets where possible. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm from those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

## Fixing of Linings

	Side	One	Side Two			
System Number	1 <sup>st</sup> Layer	1 <sup>st</sup> Layer 2 <sup>nd</sup> Layer		2 <sup>nd</sup> Layer		
	Self-Tapping Drywall Screws					
	13mm	13mm	13mm	13mm		
E4SSA60-S52	25 x 6g	41 x 6g	25 x 6g	41 x 6g		

#### **Fastener Centres**

Inner layer: Fix at 600mm centres up all studs.

Outer Layer: Fix at 300mm centres up all studs.

Place fasteners minimum 12mm from the sheet edge and 50mm from sheet ends

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

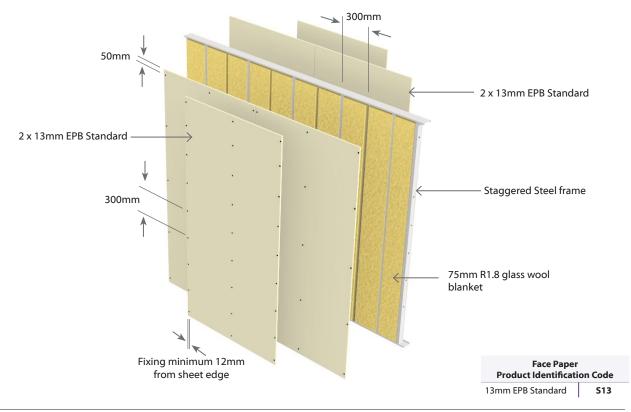
#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

Inner Layer: Unstopped

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



Non Load Bearing

Two Way FRR

Full Intertenancy Acoustic

## E4SSA90

<u>S</u>taggered <u>S</u>teel Frame

## **<u>4</u>** Layers: 2 Layers of Plasterboard to each side of frame

Custom Number	Lining	FRR	Load	Noise Control		
System Number	Suffix	FRR	Bearing Ability	STC	Rw	Lining Requirement
E4SSA90	-M46	-/90/90	NLB	59	58	1 x 10mm And 1 x 13mm EPB MultiSmart each side
	-M52	-/90/90	NLB	62	61	2 x 13mm EPB MultiSmart each side

#### Framing

**Staggered Steel Frame** – Tracks to be a minimum size of 92mm x 30mm x 0.55 BMT and are fixed to floor and ceiling. Steel studs with minimum dimensions  $64 \times 34$ mm x 0.55 BMT with 6mm return. Stud to be fixed to the tracks using Staggered Stud Clip and placed at 600mm centres with a 15mm expansion gap at top of frame.

Studs to be offset 300mm centres.

No other fixings to track are allowed.

#### **Wall Heights**

Recommended maximum height is 2.4m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### **Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 92mm.

Track Depth	Lining Suffix	Plasterboard	Total Partition	
92mm	M46	46mm	138mm	
92mm	M52	52mm	144mm	

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 75mm thick R1.8 glass wool blanket. Split 600mm wide blankets into 300mm.

#### **Plasterboard Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of EPB Plasterboard lining on one side and Two Layers on the other side as per specified system above.

Vertical fixing only permitted. Use full height sheets where possible. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm from those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

## Fixing of Linings

#### Fasteners (As per Specified System Above)

	Side	One	Side Two				
System Number	1 <sup>st</sup> Layer	1 <sup>st</sup> Layer 2 <sup>nd</sup> Layer		2 <sup>nd</sup> Layer			
	Self-Tapping Drywall Screws						
E4SSA90-M46	10mm	13mm	10mm	13mm			
E435A90-IN140	25 x 6g	41 x 6g	25 x 6g	41 x 6g			
E4SSA90-M52	13mm	13mm	13mm	13mm			
	25 x 6g	41 x 6g	25 x 6g	41 x 6g			

#### **Fastener Centres**

Inner layer: Fix at 600mm centres up all studs.

Outer Layer: Fix at 300mm centres up all studs.

Place fasteners minimum 12mm from the sheet edge and 50mm from sheet ends

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

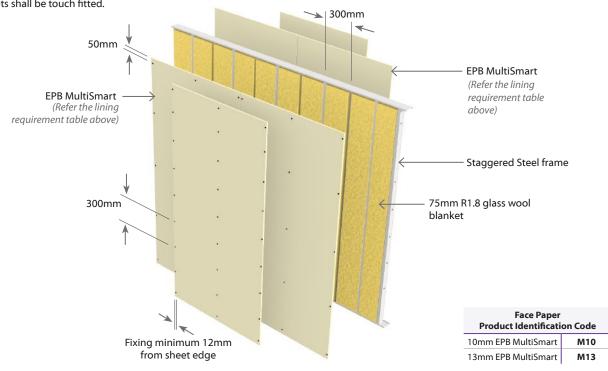
#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

## Jointing

Inner Layer: Unstopped

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



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# Floor/Ceiling Systems

March 2025

Load Bearing

**Full Intertenancy** 

**A**coustic

EFJ2DFA60 Direct Fixed Clip - Floating James Hardie Secura<sup>™</sup> Floor - Timber Joists

#### 2 Layers: 2 Layers of Plasterboard to underside of frame

#### Load **Noise Control** Lining Bearing System Number FRR **Lining Requirement** Suffix STC Rw IIC\* Ability 1 x 13mm EPB FireSmart -FS26 60/60/60 LB 66 65 57-76 1 x 13mm EPB Standard EFJ2DFA60 -F26 60/60/60 2 x 13mm EPB FireSmart LB 67 66 57-76 -M26 60/60/60 LB 68 67 57-77 2 x 13mm EPB MultiSmart

#### Framing

Timber floor joists shall comply with NZS3604 with a minimum depth of 190mm x 45mm and spaced at no more than 450mm centres. Nogs or framing is required at the perimeter of the Fire Rated ceiling.

#### **Alternative Framing**

Alternatively, a proprietary I-joist system with a minimum depth of 190mm and spaced at no more than 450mm centres may be used subject to specific structural design and approved by the normal building consent process. Consult the joist manufacturer regarding construction of the solid blocking contained in the floor/ceiling to wall junctions.

#### **Initial Floor**

19mm thick James Hardie Secura<sup>™</sup> Interior Flooring laid at right angles to the timber joists in a staggered pattern in accordance to to James Hardie Secura<sup>™</sup> Interior Flooring Installation Manual. Flooring sheet joints must have a tongue and groove jointer or be formed over framing. When using the site cut sheet pieces, the minimum length of the cut sheet to be used must be 900mm or more.

#### Adhesive Requirement (Both flooring layers)

A continuous 6mm bead of Adhesive to be applied over the joists or channels before laying the flooring materials.

- Suitable Adhesive options are:
- Bostik Seal n Flex-1 or
- Holdfast 220LM or
- Sikaflex 11FC

#### Fasteners

#### Initial Secura Floor Layer

Fix Secura<sup>M</sup> Interior Flooring across the joists using angular grooved galvanised or stainless steel 50 x 2.87mm gun nails or can be screw fixed using a 40mm x 10g timber thread self-embedding screw.

#### Floating Secura Floor Layer

Fix Secura<sup>™</sup> Interior Flooring across the Acoustic Channels using 50mm x 10g self-tapping steel screws.

#### Fastening Centres (Both flooring layers)

Fix at 200mm centres along each joist or channel. Fasteners to be placed at 25mm min at long sheet edges and 12mm from transverse edges. Fastener edge distance of 50mm to be maintained at sheet corners.

#### **Flooring Void**

James Hardie Acoustic Cradles are to be positioned on the James Hardie Secura<sup>TM</sup> Interior Flooring at 450mm centres max starting from the edge of the room. The Acoustic Cradles need not be aligned with the timber floor joists and can be laid in either direction.

The Cradles are not to be fixed down to the bottom flooring layer.

James Hardie Acoustic Floor Channels to be placed inside the Acoustic Cradles. Acoustic Channels are spaced at 450mm centres maximum.

### Flooring Void Sound Absorber

Install 50mm thick R1.2 sound absorber with a minimum density of 9.6kg/m<sup>3</sup> between the James Hardie Acoustic Floor Channels.

#### **Floating Floor**

James Hardie Secura<sup>™</sup> Interior Flooring to be laid at right angles to the Acoustic Channels and fixed at 200mm centres along the channel. Lay the sheets in a staggered pattern. Flooring edges other than tounge and groove must be supported by channels.

Allow 5-8mm gap where Secura<sup>TM</sup> Interior Flooring sheet edges butt into the external/ internal walls. Fill the gaps with an acoustic sealant.

#### **Acoustic Clip and Battens**

The Acoustic Clip shall be fastened to the joists at 1200mm centres maximum and no less than 900mm centres to support the metal ceiling battens which are spaced at 600mm centres maximum. Use 3 x 32mm x 8g Wafer Head screws. Insert first screw into the middle slot. Adjust clip to correct height. Then insert remaining two screws. A minimum 10mm gap is recommended between the flange of the ceiling batten and the underside of the joist.

#### Ceiling Void Sound Absorber

Install minimum 75mm thick R1.8 sound absorber with a minimum density of 9.6 kg/m<sup>3</sup> between the joists above the metal ceiling battens.

#### **EPB Plasterboard Ceiling Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of EPB Plasterboard as per specified system above fixed at right angles to the metal ceiling battens. All sheet end butt joints shall occur on the battens. Offset the outer layer by 600mm from the inner layer. Sheet joints should be touched fitted.

#### Fixing of EPB Plasterboard Internal Linings Fasteners (As per Specified System Above)

Sustem Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer			
System Number	Self-Tapping Drywall Screws				
EFJ2DFA60-FS26	13mm	13mm			
EFJ2DFA60-F26					
EFJ2DFA60-M26	32 x 6g	41 x 6g			

#### **Fastening Centres**

Ceiling sheets shall be fixed at 200mm centres along each metal ceiling batten.

Fix butt ends at 100mm centres.

Fasteners to be placed no closer than 12mm from sheet edge.

Avoid outer layer screws from hitting inner layer screws.

#### **Acoustic Sealant**

A bead of fire retardant Acoustic Sealant must be applied around the perimeter of the first layer and the second layer bedded on the bead.

#### Wall/Ceiling Junction

The internal angle between the ceilings and walls must be protected by Cornice or square stopped corners taped and filled in accordance with EPB Plasterboard Installation Guide.

#### Jointing

Inner layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped in accordance with the publication entitled EPB Plasterboard Installation Guide.

#### Additional Reference Material

Refer to James Hardie Secura Interior Flooring Installation Manual and the James Hardie Fire and Acoustic Floor System Installation Manual for additional information about covering general and wet area installation and penetrations and control joints.

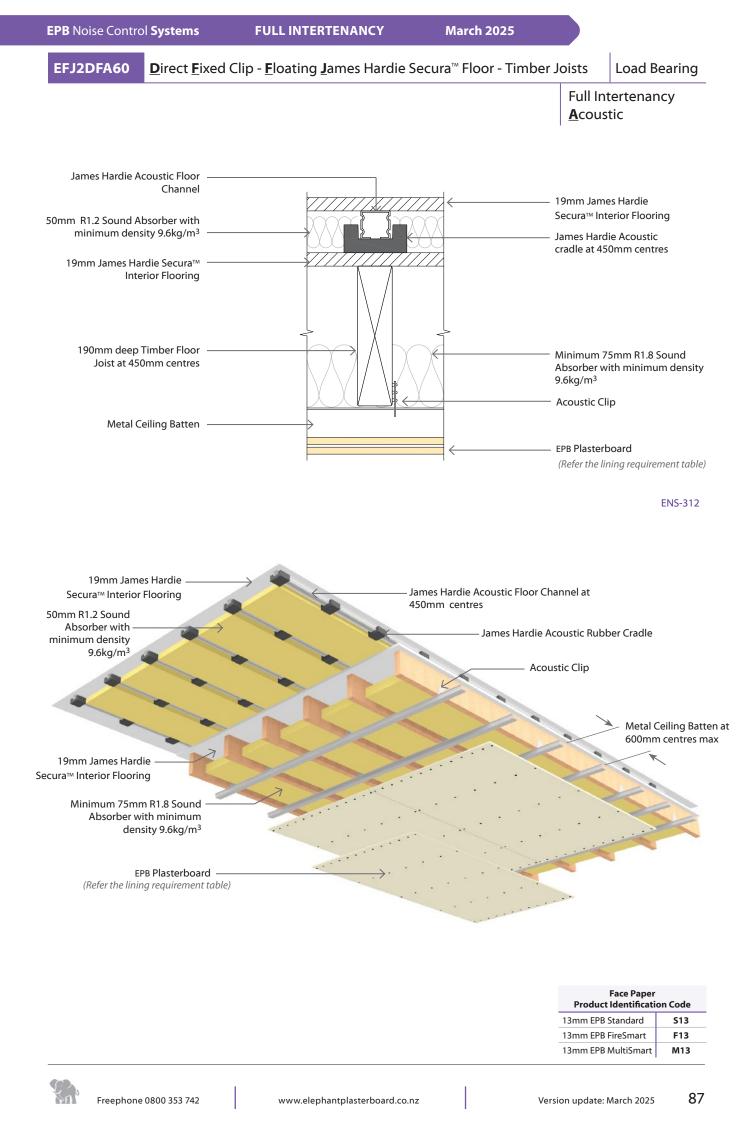
#### \*Impact Insulation Class (IIC)

IIC of 57 is achieved with a bare floor.

IIC of 58 is achieved with loose laid Vinyl.

IIC of 75 is achieved with 40oz loop pile carpet on 8mm foam chip underlay.

IIC of 76 is achieved with 40oz loop pile carpet on waffle underlay.



March 2025

Load Bearing

**Full Intertenancy** 

**A**coustic

## EFP2DFA60 Direct Fixed Clip - Floating Particle Board Floor - Timber Joists

## **<u>2</u>** Layers: 2 Layers of Plasterboard to underside of frame

Lining					ise Control		
System Number	Suffix	FRR	Bearing Ability		IIC*	Lining Requirement	
	-FS26	60/60/60	LB	63	62	55-72	1 x 13mm EPB FireSmart 1 x 13mm EPB Standard
EFP2DFA60	-F26	60/60/60	LB	64	63	55-72	2 x 13mm EPB FireSmart
	-M26	60/60/60	LB	65	64	56-72	2 x 13mm EPB MultiSmart

#### Framing

Timber floor joists shall comply with NZS3604 with a minimum depth of 190mm x 45mm and spaced at no more than 600mm centres. Nogs or framing is required at the perimeter of the Fire Rated ceiling.

#### **Alternative Framing**

Alternatively, a proprietary l-joist system with a minimum depth of 190mm and spaced at no more than 600mm centres may be used subject to specific structural design and approved by the normal building consent process. Consult the joist manufacturer regarding construction of the solid blocking contained in the floor/ceiling to wall junctions.

#### **Initial Floor**

20mm Tongue & groove Particle board Flooring laid at right angles to the timber joists in a staggered pattern in accordance to the Particle board manufacturer's Technical Manuals. Flooring sheet joints must have a tongue and groove jointer or be formed over framing. No nogs required to support the edges of longitudinal sheets. When using the site cut sheet pieces, the minimum length of the cut sheet to be used must be 900mm or more.

#### **Adhesive Requirement (Both flooring layers)**

A continuous 6mm bead of Adhesive to be applied over the joists or channels before laying the flooring materials. Apply a 2mm bead along the tongue of the Tongue and Groove panels as they are laid. Suitable Adhesive options are:

- Bostik Seal n Flex-1 or Holdfast 220LM
- HB Fuller-Sturdi Bond Sikaflex 11FC
- Holdfast 220LM or
- Sikaflex 11FC

#### **Fasteners**

#### Initial 20mm Tongue & Groove Particle Board Flooring Layer

Fix 20mm Tongue & groove Particle board Flooring across the joists using angular grooved galvanised or stainless steel 60 x 3.15mm gun nails or can be screw fixed using a 45mm x 8g timber thread self-drilling screw (corrosion resistant).

#### Floating 20mm Tongue & Groove Particle Board Flooring Layer

Fix 20mm Tongue & groove Particle board Flooring across the Acoustic Channels using 45mm x 8g timber thread self-drilling screws (corrosion resistant).

#### **Fastening Centres (Both flooring layers)**

Fix at 200mm centres along each joist or channel. Fasteners to be placed at 15mm min at long sheet edges and from transverse edges. Fastener edge distance of 50mm to be maintained at sheet corners.

#### **Flooring Void**

AcoustiFlor<sup>™</sup> Acoustic Cradles are to be positioned on the tongue & groove particle board flooring at 450mm centres max starting from the edge of the room. The Acoustic Cradles need not be aligned with the timber floor joists and can be laid in either direction.

The Cradles are not to be fixed down to the bottom flooring layer.

AcoustiFlor™ Structural Battens to be placed inside the AcoustiFlor™ Acoustic Cradles at 400mm centres maximum.

#### **Flooring Void Sound Absorber**

Install 50mm thick R1.2 sound absorber with a minimum density of 9.6kg/m<sup>3</sup> between the AcoustiFlor<sup>TM</sup> Structural Battens.

#### **Floating Floor**

The 20mm Tongue & groove Particle board Flooring is to be laid at right angles to AcoustiFlor™ Structural Batten and fixed at 200mm centres along the batten. Lay the sheets in a staggered pattern. Flooring edges other than Tongue and groove to be supported by battens.

When using the site cut sheet pieces, the minimum length of the cut sheet to be used must be 900mm or more.

Allow 5mm gap where Particle board flooring sheet edges butt into external/internal walls. Fill the gap with fire retardant acoustic sealant.

#### **Acoustic Clip and Battens**

The Acoustic Clip shall be fastened to the joists at 1200mm centres maximum and no less than 900mm centres to support the metal ceiling battens which are spaced at 600mm centres maximum. Use 3 x 32mm x 8g Wafer Head screws. Insert first screw into the middle slot. Adjust clip to correct height. Then insert remaining two screws. A minimum 10mm gap is recommended between the flange of the ceiling batten and the underside of the joist.

#### **Ceiling Void Sound Absorber**

Install minimum 75mm thick R1.8 sound absorber with a minimum density of 9.6kg/m<sup>3</sup> between the joists above the metal ceiling battens.

#### **EPB Plasterboard Ceiling Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of EPB Plasterboard as per specified system above fixed at right angles to the metal ceiling battens. All sheet end butt joints shall occur on the battens. Offset the outer layer by 600mm from the inner layer. Sheet joints should be touched fitted.

#### Fixing of EPB Plasterboard Internal Linings Fasteners (As per Specified System Above)

System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer					
System Number	Self-Tapping Drywall Screws						
EFP2DFA60-MS26	13mm	13mm					
EFP2DFA60-M26	32mm x 6g	41mm x 6g					

#### **Fastening Centres**

Ceiling sheets shall be fixed at 200mm centres along each metal ceiling batten.

Fix butt ends at 100mm centres.

Fasteners to be placed no closer than 12mm from sheet edge.

Avoid outer layer screws from hitting inner layer screws.

#### **Acoustic Sealant**

A bead of fire retardant Acoustic Sealant must be applied around the perimeter of the first layer and the second layer bedded on the bead. **Wall/Ceiling Junction** 

The internal angle between the ceilings and walls must be protected by Cornice or square stopped corners taped and filled in accordance with EPB Plasterboard Installation Guide.

#### Jointing

#### Inner layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped in accordance with the publication entitled EPB Plasterboard Installation Guide.



March 2025

Load Bearing

## **EFP2DFA60** Direct Fixed Clip - Floating Particle Board Floor - Timber Joists

# Full Intertenancy **A**coustic

Conton Number	ystem Number Suffix FRR Be	Load Noise Control		ntrol			
System Number		Bearing Ability	STC	Rw		Lining Requirement	
	-FS26	60/60/60	LB	63	62	55-72	1 x 13mm EPB FireSmart 1 x 13mm EPB Standard
EFP2DFA60	-F26	60/60/60	LB	64	63	55-72	2 x 13mm EPB FireSmart
	-M26	60/60/60	LB	65	64	56-72	2 x 13mm EPB MultiSmart

#### **Additional Reference Material**

Refer to Particle board Manufacturer's Technical Manuals for additional information about covering general and wet area installation and penetrations.

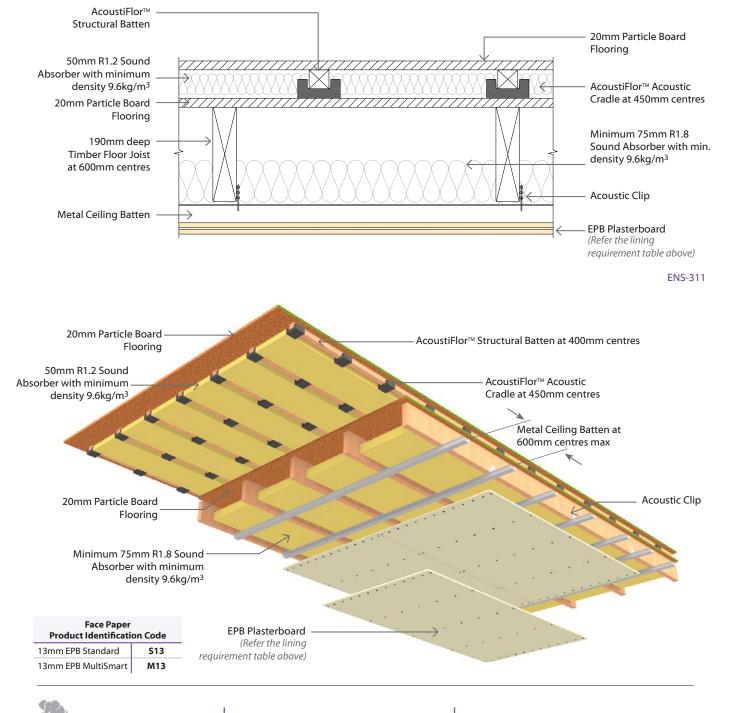
#### \*Impact Insulation Class (IIC)

IIC of 55 is achieved with a bare floor.

IIC of 56 is achieved with loose laid Vinyl.

IIC of 70 is achieved with 40oz loop pile carpet on 8mm foam chip underlay.

IIC of 72 is achieved with 40oz loop pile carpet on waffle underlay.



March 2025

Load Bearing

**Full Intertenancy** 

**EFJ2DFsA45 D**irect **F**ixed Clip - **F**loating **J**ames Hardie Secura<sup>™</sup> Floor - **S**teel Joists

## 2 Layers: 2 Layers of Plasterboard to underside of frame

#### **A**coustic Load **Noise Control** Lining Bearing System Number FRR **Lining Requirement** Suffix STC Rw IIC\* Ability -F26 45/45/45 LB 2 x 13mm EPB FireSmart 66 65 56-76 EFJ2DFsA45 -M26 45/45/45 LB 67 2 x 13mm EPB MultiSmart 66 56-76

#### **Floor Framing**

A specifically designed steel floor structure with C-section steel floor joists of 190mm minimum depth and with 45mm flanges with a steel gauge of 1.55mm. Joist spacing's at no more than 600mm centres.

#### **Initial Floor**

19mm thick James Hardie Secura<sup>™</sup> Interior Flooring laid at right angles to the steel joists in a staggered pattern in accordance to James Hardie Secura<sup>™</sup> Interior Flooring Installation Manual. Flooring sheet joints must have a tongue and groove jointer or be formed over framing. When using the site cut sheet pieces, the minimum length of the cut sheet to be used must be 900mm or more.

#### **Adhesive Requirement (Both flooring layers)**

A continuous 6mm bead of Adhesive to be applied over the joists or channels before laying the flooring materials.

Suitable Adhesive options are:

- Bostik Seal n Flex-1 or
- Holdfast 220LM or
- Sikaflex 11FC

#### **Fasteners**

#### **Initial Secura Floor Layer**

Fix Secura<sup>™</sup> Interior Flooring across the joists using 8-10g x 40-45mm wing tek min. class 3 coating screws.

#### **Floating Secura Floor Layer**

Fix Secura<sup>™</sup> Interior Flooring across the Acoustic Channels using 50mm x 10g self-tapping steel screws.

#### **Fastening Centres (Both flooring layers)**

Fix at 200mm centres along each joist or channel. Fasteners to be placed at 25mm min at long sheet edges and 12mm from transverse edges. Fastener edge distance of 50mm to be maintained at sheet corners.

#### **Flooring Void**

James Hardie Acoustic Cradles are to be positioned on the James Hardie Secura<sup>TM</sup> Interior Flooring at 450mm centres max starting from the edge of the room. The Acoustic Cradles need not be aligned with the steel floor joists and can be laid in either direction.

The Cradles are not to be fixed down to the bottom flooring layer.

James Hardie Acoustic Floor Channels to be placed inside the Acoustic Cradles. Acoustic Channels are spaced at 450mm centres maximum.

#### Flooring Void Sound Absorber

Install 50mm thick R1.2 sound absorber with a minimum density of 9.6kg/m<sup>3</sup> between the James Hardie Acoustic Floor Channels.

#### **Floating Floor**

James Hardie Secura<sup>™</sup> Interior Flooring to be laid at right angles to the Acoustic Channels and fixed at 200mm centres along the channel. Lay the sheets in a staggered pattern. Flooring edges other than tounge and groove must be supported by channels.

Allow 5-8mm gap where Secura<sup>™</sup> Interior Flooring sheet edges butt into the external/ internal walls. Fill the gaps with an acoustic sealant.

#### **Acoustic Clip and Battens**

The Acoustic Clip shall be fastened to the joists at 1200mm centres maximum (and no less than 900mm centres) to support the metal ceiling battens which are spaced at 600mm centres maximum.

Use 3 x 30mm x 10g Drill-Point Wafer Head Screws. Insert first screw into the middle slot. Adjust clip to correct height. Then insert remaining two screws. A minimum 10mm gap is recommended between the flange of the ceiling batten and the underside of the joist.

#### **Ceiling Void Sound Absorber**

Install minimum 75mm thick R1.8 sound absorber with a minimum density of 9.6kg/m<sup>3</sup> between the joists above the metal ceiling battens.

#### **EPB Plasterboard Ceiling Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of EPB Plasterboard as per specified system above, fixed at right angles to the metal ceiling battens. All sheet end butt joints shall occur on the battens. Offset the outer layer by 600mm from the inner layer. Sheet joints should be touched fitted.

#### Fixing of EPB Plasterboard Internal Linings Fasteners

System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer					
System Number	Self-Tapping Drywall Screws						
EFJ2DFsA45-F26	13mm	13mm					
EFJ2DFsA45-M26	32 x 6g	41 x 6g					

#### **Fastening Centres**

Ceiling sheets shall be fixed at 200mm centres along each metal ceiling batten.

Fix butt ends at 100mm centres.

Fasteners to be placed no closer than 12mm from sheet edge.

Avoid outer layer screws from hitting inner layer screws.

#### **Acoustic Sealant**

A bead of fire retardant Acoustic Sealant must be applied around the perimeter of the first layer and the second layer bedded on the bead.

#### Wall/Ceiling Junction

The internal angle between the ceilings and walls must be protected by Cornice or square stopped corners taped and filled in accordance with EPB Plasterboard Installation Guide.

#### Jointing

Inner layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped in accordance with the publication entitled EPB Plasterboard Installation Guide.

#### Additional Reference Material

Refer to James Hardie Secura<sup>™</sup> Interior Flooring Installation Manual and the James Hardie Fire and Acoustic Floor System Installation Manual for additional information about covering general and wet area installation and penetrations and control joints.

#### \*Impact Insulation Class (IIC)

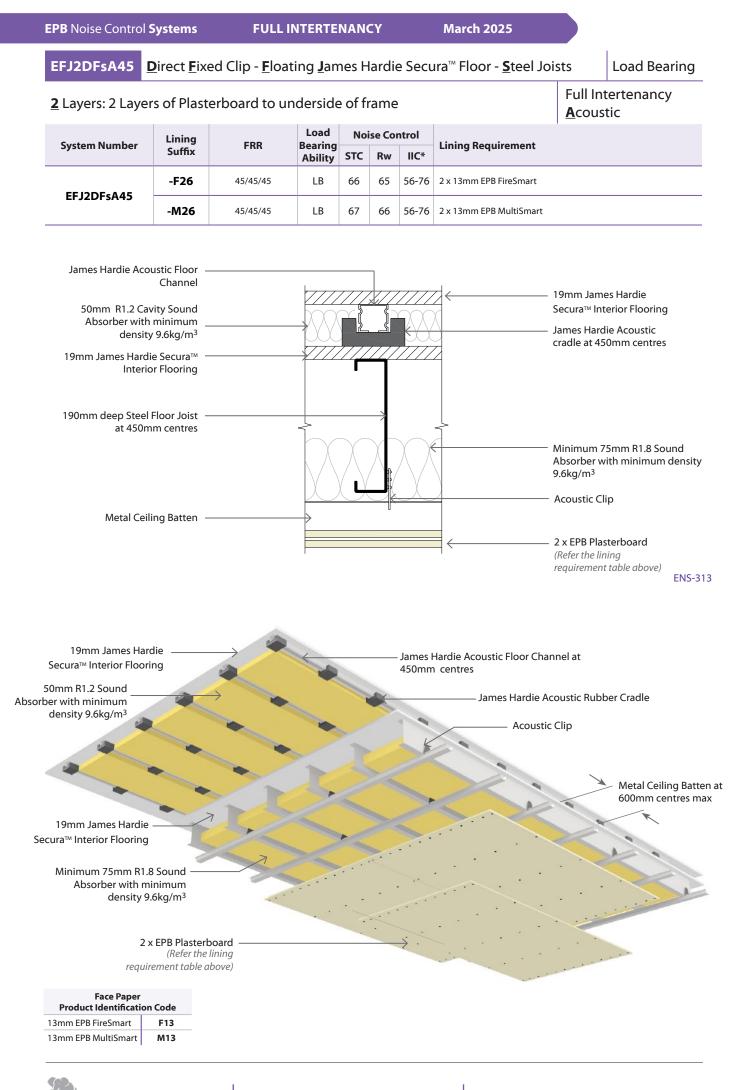
IIC of 56 is achieved with a bare floor.

IIC of 58 is achieved with loose laid Vinyl.

IIC of 75 is achieved with 40oz loop pile carpet on 8mm foam chip underlay.

IIC of 76 is achieved with 40oz loop pile carpet on waffle underlay.





Load Bearing

**Full Intertenancy** 

March 2025

## **EFP2DFsA45** Direct Fixed Clip - Floating Particle Board Floor - Steel Joists

#### 2 Layers: 2 Layers of Plasterboard to underside of frame

#### **A**coustic Load **Noise Control** Lining System Number Bearing FRR **Lining Requirement** Suffix STC Rw IIC\* Ability -F26 45/45/45 LB 2 x 13mm EPB FireSmart 63 62 55-72 EFP2DFsA45 -M26 45/45/45 LB 55-72 2 x 13mm EPB MultiSmart 64 63

#### Framing

A specifically designed steel floor structure with C-section steel floor joists of 190mm minimum depth and with 45mm flanges with a steel gauge of 1.55mm. Joist spacing's at no more than 600mm centres.

#### **Initial Floor**

20mm Tongue & groove Particle board flooring laid at right angles to the steel joists in a staggered pattern in accordance to the Particle board manufacturer's Technical Manuals. Flooring sheet joints must have a tongue and groove jointer or be formed over framing. No nogs required to support the edges of longitudinal sheets. When using the site cut sheet pieces, the minimum length of the cut sheet to be used must be 900mm or more.

#### **Adhesive Requirement (Both flooring layers)**

A continuous 6mm bead of Adhesive to be applied over the joists or channels before laying the flooring materials. Apply a 2mm bead along the tongue of the Tongue and groove panels as they are laid. Suitable Adhesive options are:

- Bostik Seal n Flex-1 or
- HB Fuller-Sturdi Bond
- Holdfast 220LM or
- Sikaflex 11FC

#### **Fasteners**

#### Initial 20mm Tongue & Groove Particle Board Flooring Layer

Fix 20mm Tongue & groove Particle board Flooring across the joists using 45mm x 10g Tek self drilling screw. (corrosion resistant)

## Floating 20mm Tongue & Groove Particle Board Flooring Layer

Fix 20mm Tongue & groove Particle board Flooring across the Acoustic Channels using 45mm x 8g timber thread self-drilling screws (corrosion resistant).

#### Fastening Centres (Both flooring layers)

Fix at 200mm centres along each joist or channel. Fasteners to be placed at 15mm min at long sheet edges and from transverse edges. Fastener edge distance of 50mm to be maintained at sheet corners.

#### **Flooring Void**

AcoustiFlor<sup>™</sup> Acoustic Cradles are to be positioned on the tongue & groove particle board flooring at 450mm centres max starting from the edge of the room. The Acoustic Cradles need not be aligned with the steel floor joists and can be laid in either direction.

The Cradles are not to be fixed down to the bottom flooring layer.

AcoustiFlor™ Structural Battens to be placed inside the AcoustiFlor™ Acoustic Cradles at 400mm centres maximum.

#### **Flooring Void Sound Absorber**

Install 50mm thick R1.2 sound absorber with a minimum density of 9.6kg/m<sup>3</sup> between the AcoustiFlor<sup>m</sup> Structural Battens.

#### **Floating Floor**

The 20mm Tongue & groove Particle board Flooring is to be laid at right angles to AcoustiFlor<sup>™</sup> Structural Batten and fixed at 200mm centres along the batten. Lay the sheets in a staggered pattern. Flooring edges other than Tongue and groove to be supported by battens. When using the site cut sheet pieces, the minimum length of the cut sheet to be used must be 900mm or more.

Allow 5mm gap where 20mm Particle board flooring sheet edges butt into the external/internal walls. Fill the gap with fire retardant acoustic sealant.

#### **Acoustic Clip and Battens**

The Acoustic Clip shall be fastened to the joists at 1200mm centres maximum (and no less than 900mm centres) to support the metal ceiling battens which are spaced at 600mm centres maximum.

Use 3 x 30mm x 10g Drill-Point Wafer Head Screws. Insert first screw into the middle slot. Adjust clip to correct height. Then insert remaining two screws. A minimum 10mm gap is recommended between the flange of the ceiling batten and the underside of the joist.

#### **Ceiling Void Sound Absorber**

Install minimum 75mm thick R1.8 sound absorber with a minimum density of 9.6 kg/m<sup>3</sup> between the joists above the metal ceiling battens.

## **EPB Plasterboard Ceiling Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of EPB Plasterboard as per specified system above, fixed at right angles to the metal ceiling battens. All sheet end butt joints shall occur on the battens. Offset the outer layer by 600mm from the inner layer. Sheet joints should be touched fitted.

#### Fixing of EPB Plasterboard Internal Linings Fasteners

System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer					
System Number	Self-Tapping Drywall Screws						
EFP2DFsA45-F26 EFP2DFsA45-M26	13mm	13mm					
	32mm x 6g	41mm x 6g					

#### **Fastening Centres**

Ceiling sheets shall be fixed at 200mm centres along each metal ceiling batten.

Fix butt ends at 100mm centres.

Fasteners to be placed no closer than 12mm from sheet edge.

Avoid outer layer screws from hitting inner layer screws.

#### **Acoustic Sealant**

A bead of fire retardant Acoustic Sealant must be applied around the perimeter of the first layer and the second layer bedded on the bead.

#### Wall/Ceiling Junction

The internal angle between the ceilings and walls must be protected by Cornice or square stopped corners taped and filled in accordance with EPB Plasterboard Installation Guide.

#### Jointing

Inner layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped in accordance with the publication entitled EPB Plasterboard Installation Guide.

#### **Additional Reference Material**

Refer to Particle board manufacturer's Technical Manuals for additional information about covering general and wet area installation and penetrations.

#### \*Impact Insulation Class (IIC)

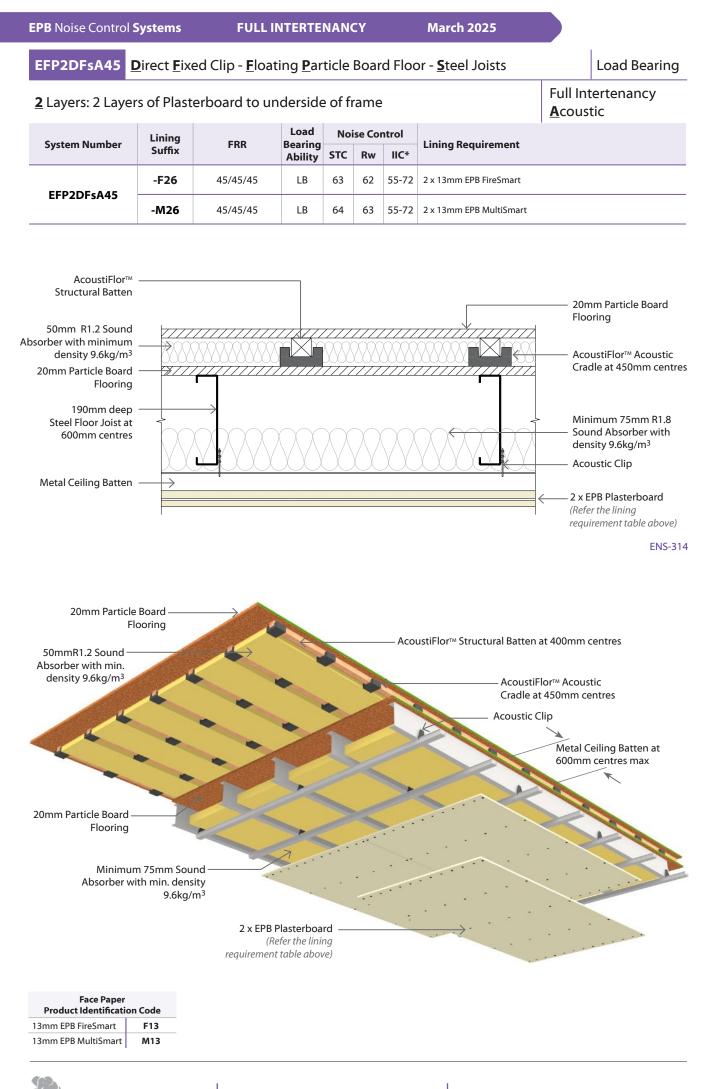
IIC of 55 is achieved with a bare floor.

IIC of 56 is achieved with loose laid Vinyl.

 ${\rm IIC}$  of 70 is achieved with 40oz loop pile carpet on 8mm foam chip underlay.

IIC of 72 is achieved with 40oz loop pile carpet on waffle underlay.





March 2025

Load Bearing

EFJ2DFsA60 Direct Fixed Clip - Floating James Hardie Secura<sup>™</sup> Floor - Steel Joists

## **<u>2</u>** Layers: 2 Layers of Plasterboard to underside of frame

## Full Intertenancy <u>A</u>coustic

System Number	Lining	FRR	Load Bearing	No	Noise Control		Lining Requirement
System Number	Suffix	FNN	Ability	STC	Rw	IIC*	Lining Requirement
EFJ2DFsA60	-F29	60/60/60	LB	67	66	56-76	1 x 16mm EPB FireSmart And 1 x 13mm EPB FireSmart

#### **Floor Framing**

A specifically designed steel floor structure with C-section steel floor joists of 190mm minimum depth and with 45mm flanges with a steel gauge of 1.55mm. Joist spacing's at no more than 600mm centres.

#### **Initial Floor**

19mm thick James Hardie Secura<sup>™</sup> Interior Flooring laid at right angles to the steel joists in a staggered pattern in accordance to James Hardie Secura<sup>™</sup> Interior Flooring Installation Manual. Flooring sheet joints must have a tongue and groove jointer or be formed over framing. When using the site cut sheet pieces, the minimum length of the cut sheet to be used must be 900mm or more.

#### **Adhesive Requirement (Both flooring layers)**

A continuous 6mm bead of Adhesive to be applied over the joists or channels before laying the flooring materials.

- Suitable Adhesive options are:
- Bostik Seal n Flex-1 or
- Holdfast 220LM or
- Sikaflex 11FC

#### **Fasteners**

#### Initial Secura Floor Layer

Fix Secura<sup>™</sup> Interior Flooring across the joists using 8-10g x 40-45mm wing tek min. class 3 coating screws.

#### **Floating Secura Floor Layer**

Fix Secura<sup>™</sup> Interior Flooring across the Acoustic Channels using 50mm x 10g self-tapping steel screws.

#### **Fastening Centres (Both flooring layers)**

Fix at 200mm centres along each joist or channel. Fasteners to be placed at 25mm min at long sheet edges and 12mm from transverse edges. Fastener edge distance of 50mm to be maintained at sheet corners.

#### **Flooring Void**

James Hardie Acoustic Cradles are to be positioned on the James Hardie Secura<sup>TM</sup> Interior Flooring at 450mm centres max starting from the edge of the room. The Acoustic Cradles need not be aligned with the steel floor joists and can be laid in either direction.

The Cradles are not to be fixed down to the bottom flooring layer. James Hardie Acoustic Floor Channels to be placed inside the Acoustic Cradles. Acoustic Channels are spaced at 450mm centres maximum.

#### **Flooring Void Sound Absorber**

Install 50mm thick R1.2 sound absorber with a minimum density of 9.6kg/m<sup>3</sup> between the James Hardie Acoustic Floor Channels.

#### **Floating Floor**

James Hardie Secura<sup>™</sup> Interior Flooring to be laid at right angles to the acoustic channels and fixed at 200mm centres along the channel. Lay the sheets in a staggered pattern. Flooring edges other than tongue and groove must be supported by channels.

Allow 5-8mm gap where Secura<sup>™</sup> Interior Flooring edges butt into the external/ internal walls. Fill the gaps with an acoustic sealant.

#### **Acoustic Clip and Battens**

The Acoustic Clip shall be fastened to the joists at 1200mm centres maximum (and no less than 900mm centres) to support the metal ceiling battens which are spaced at 600mm centres maximum.

Use 3 x 30mm x 10g Drill-Point Wafer Head Screws. Insert first screw into the middle slot. Adjust clip to correct height. Then insert remaining two screws. A minimum 10mm gap is recommended between the flange of the ceiling batten and the underside of the joist.

#### **Ceiling Void Sound Absorber**

Install minimum 75mm thick R1.8 sound absorber with a minimum density of 9.6 kg/m<sup>3</sup> between the joists above the metal ceiling battens.

#### EPB Plasterboard Ceiling Lining

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of 16mm EPB FireSmart and One layer of 13mm EPB FireSmart fixed at right angles to the metal ceiling battens. All sheet end butt joints shall occur on the battens. Offset the outer layer by 600mm from the inner layer. Sheet joints should be touched fitted.

#### Fixing of EPB Plasterboard Internal Linings Fasteners

System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer				
System Number	Self-Tapping Drywall Screws					
EFJ2DFsA60-F29	16mm	13mm				
EFJ2DFSA60-F29	32 x 6g	41 x 6g				

#### **Fastening Centres**

Ceiling sheets shall be fixed at 200mm centres along each metal ceiling batten.

Fix butt ends at 100mm centres.

Fasteners to be placed no closer than 12mm from sheet edge.

Avoid outer layer screws from hitting inner layer screws.

#### Acoustic Sealant

A bead of fire retardant Acoustic Sealant must be applied around the perimeter of the first layer and the second layer bedded on the bead.

#### Wall/Ceiling Junction

The internal angle between the ceilings and walls must be protected by Cornice or square stopped corners taped and filled in accordance with EPB Plasterboard Installation Guide.

#### Jointing

Inner layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped in accordance with the publication entitled EPB Plasterboard Installation Guide.

#### **Additional Reference Material**

Refer to James Hardie Secura<sup>™</sup> Interior Flooring Installation Manual and the James Hardie Fire and Acoustic Floor System Installation Manual for additional information about covering general and wet area installation and penetrations and control joints.

#### \*Impact Insulation Class (IIC)

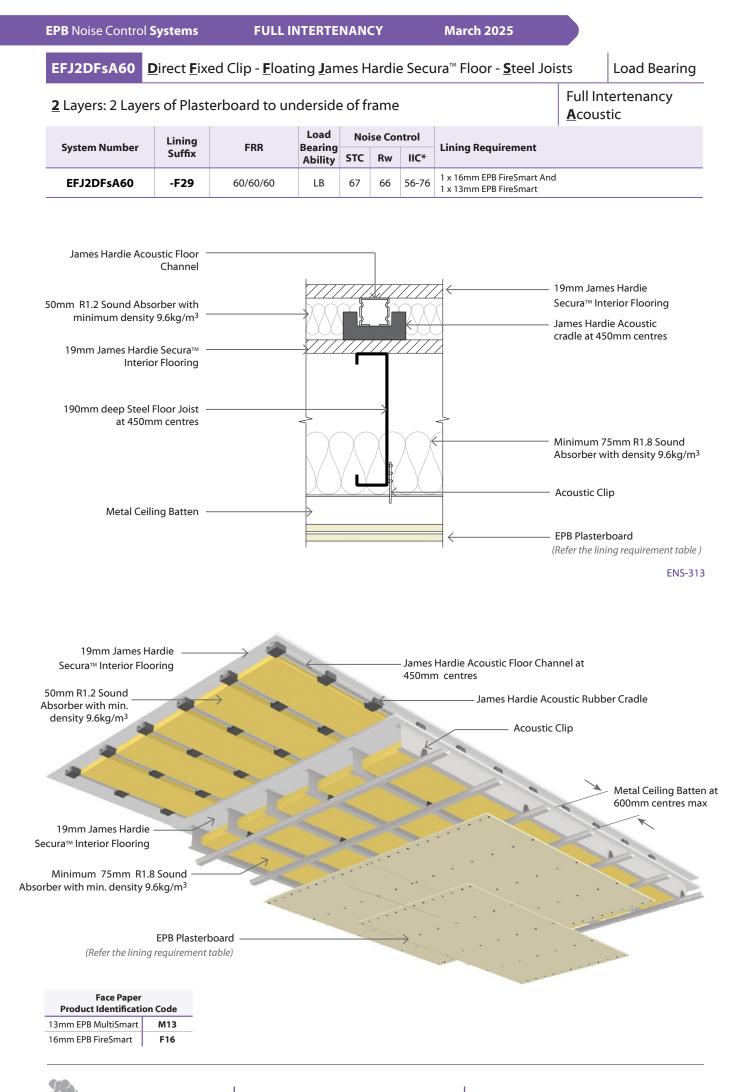
IIC of 56 is achieved with a bare floor.

IIC of 57 is achieved with loose laid Vinyl.

IIC of 75 is achieved with 40oz loop pile carpet on 8mm foam chip underlay.

IIC of 76 is achieved with 40oz loop pile carpet on waffle underlay.





March 2025

Load Bearing

**Full Intertenancy** 

## **EFP2DFsA60** Direct Fixed Clip - Floating Particle Board Floor - Steel Joists

## **<u>2</u>** Layers: 2 Layers of Plasterboard to underside of frame

#### **A**coustic Load **Noise Control** Lining Bearing System Number FRR **Lining Requirement** Suffix STC Rw IIC\* Ability 1 x 16mm EPB FireSmart And EFP2DFsA60 -F29 60/60/60 LB 64 63 56-72 1 x 13mm FPB FireSmart

#### Framing

A specifically designed steel floor structure with C-section steel floor joists of 190mm minimum depth and with 45mm flanges with a steel gauge of 1.55mm. Joist spacing's at no more than 600mm centres.

#### **Initial Floor**

20mm Tongue & groove Particle board flooring laid at right angles to the steel joists in a staggered pattern in accordance to the Particle board manufacturer's Technical Manuals. Flooring sheet joints must have a tongue and groove jointer or be formed over framing. No nogs required to support the edges of longitudinal sheets. When using the site cut sheet pieces, the minimum length of the cut sheet to be used must be 900mm or more.

#### **Adhesive Requirement (Both flooring layers)**

A continuous 6mm bead of Adhesive to be applied over the joists or channels before laying the flooring materials. Apply a 2mm bead along the tongue of the Tongue and groove panels as they are laid. Suitable Adhesive options are:

- Bostik Seal n Flex-1 or
- HB Fuller-Sturdi Bond
- Holdfast 220LM or
- Sikaflex 11FC

#### **Fasteners**

#### Initial 20mm Tongue & Groove Particle Board Flooring Layer

Fix 20mm Tongue & groove Particle board Flooring across the joists using 45mm x 10g Tek self drilling screw. (corrosion resistant)

**Floating 20mm Tongue & Groove Particle Board Flooring Layer** Fix 20mm Tongue & groove Particle board Flooring across the Acoustic Channels using 45mm x 8g timber thread self-drilling screws (corrosion resistant).

#### **Fastening Centres (Both flooring layers)**

Fix at 200mm centres along each joist or channel. Fasteners to be placed at 15mm min at long sheet edges and from transverse edges. Fastener edge distance of 50mm to be maintained at sheet corners.

#### **Flooring Void**

AcoustiFlor<sup>™</sup> Acoustic Cradles are to be positioned on the tongue & groove particle board flooring at 450mm centres max starting from the edge of the room. The Acoustic Cradles need not be aligned with the steel floor joists and can be laid in either direction.

The Cradles are not to be fixed down to the bottom flooring layer.

AcoustiFlor™ Structural Battens to be placed inside the AcoustiFlor™ Acoustic Cradles at 400mm centres maximum.

#### **Flooring Void Sound Absorber**

Install 50mm thick R1.2 sound absorber with a minimum density of 9.6kg/m<sup>3</sup> between the AcoustiFlor<sup>TM</sup> Structural Battens.

#### **Floating Floor**

The 20mm Tongue & groove Particle board Flooring is to be laid at right angles to AcoustiFlor<sup>™</sup> Structural Batten and fixed at 200mm centres along the batten. Lay the sheets in a staggered pattern. Flooring edges other than Tongue and groove to be supported by battens. When using the site cut sheet pieces, the minimum length of the cut sheet to be used must be 900mm or more.

Allow 5mm gap where 20mm Particle board Flooring sheet edges butt into external/internal walls. Fill the gap with fire retardant acoustic sealant.

#### **Acoustic Clip and Battens**

The Acoustic Clip shall be fastened to the joists at 1200mm centres maximum (and no less than 900mm centres) to support the metal ceiling battens which are spaced at 600mm centres maximum.

Use 3 x 30mm x 10g Drill-Point Wafer Head Screws. Insert first screw into the middle slot. Adjust clip to correct height. Then insert remaining two screws. A minimum 10mm gap is recommended between the flange of the ceiling batten and the underside of the joist.

#### **Ceiling Void Sound Absorber**

Install minimum 75mm thick R1.8 sound absorber with a minimum density of 9.6 kg/m<sup>3</sup> between the joists above the metal ceiling battens.

#### **EPB Plasterboard Ceiling Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of 16mm EPB FireSmart and One layer of 13mm EPB FireSmart fixed at right angles to the metal ceiling battens. All sheet end butt joints shall occur on the battens. Offset the outer layer by 600mm from the inner layer. Sheet joints should be touched fitted. **Fixing of EPB Plasterboard Internal Linings** 

## Fasteners

System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer				
System Number	Self-Tapping Drywall Screws					
EFP2DFsA60-F29	16mm	13mm				
	32mm x 6g	41mm x 6g				

#### **Fastening Centres**

Ceiling sheets shall be fixed at 200mm centres along each metal ceiling batten.

Fix butt ends at 100mm centres.

Fasteners to be placed no closer than 12mm from sheet edge.

Avoid outer layer screws from hitting inner layer screws.

#### **Acoustic Sealant**

A bead of fire retardant Acoustic Sealant must be applied around the perimeter of the first layer and the second layer bedded on the bead.

#### Wall/Ceiling Junction

The internal angle between the ceilings and walls must be protected by Cornice or square stopped corners taped and filled in accordance with EPB Plasterboard Installation Guide.

#### Jointing

Inner layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped in accordance with the publication entitled EPB Plasterboard Installation Guide.

#### Additional Reference Material

Refer to Particle board manufacturer's Technical Manuals for additional information about covering general and wet area installation and penetrations.

#### \*Impact Insulation Class (IIC)

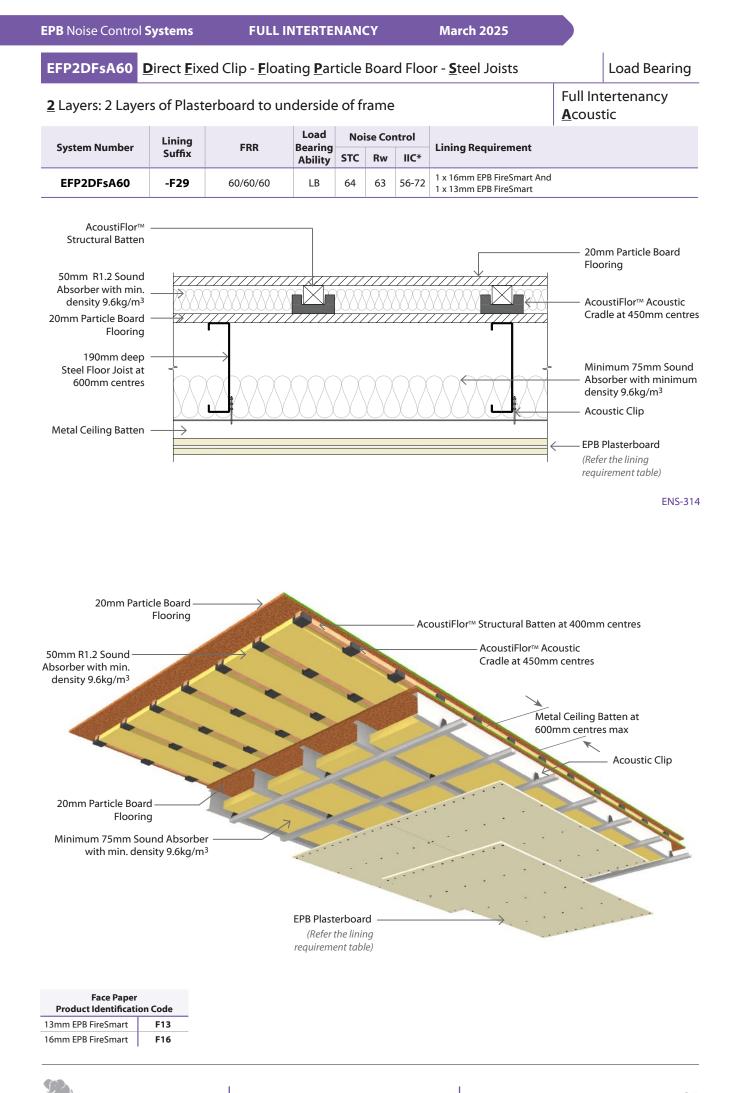
IIC of 56 is achieved with a bare floor.

IIC of 57 is achieved with loose laid Vinyl.

IIC of 70 is achieved with 40oz loop pile carpet on 8mm foam chip underlay.

IIC of 72 is achieved with 40oz loop pile carpet on waffle underlay.





Load Bearing

Full Intertenancy Acoustic

## E2DFA60

**2** Layers: 2 Layers of Plasterboard to underside of frame

Direct Fixed Clip - Floor/Ceiling

Custom Number	Lining	Load Bearing	Noise Control				
System Number	Suffix	FRR	Ability	STC	Rw	IIC*	Lining Requirement
	-FS26	60/60/60	LB	56	55	46-73	1 x 13mm EPB FireSmart And 1 x 13mm EPB Standard
E2DFA60	-F26	60/60/60	LB	57	56	46-73	2 x 13mm EPB FireSmart
	-M26	60/60/60	LB	58	57	46-73	2 x 13mm EPB MultiSmart

#### Framing

Timber floor joists shall comply with NZS3604 with a minimum depth of 190 x 45mm and spaced at no more than 600mm centres. Alternatively, a proprietary I-joist system with a minimum depth of 190mm and spaced at no more than 600mm centres may be used subject to specific structural design and approved by the normal building consent process.

Consult the joist manufacturer regarding construction of the solid blocking contained in the floor/ceiling to wall junctions.

#### Flooring

Flooring shall be 20mm thick particle board of 17mm thick structural ply, fixed to the joists as per manufacturer's instructions. Flooring sheet joints must have a polypropylene tongue and groove jointer or be formed over framing.

#### Acoustic Clip and Battens

The Acoustic Clip shall be fastened to the joists at 1200mm centres maximum (and no less than 900mm centres) to support the metal ceiling battens which are spaced at 600mm centres maximum. Use 3 x 32mm x 8g Wafer Head screws. Insert first screw into the middle slot. Adjust clip to correct height. Then insert remaining two screws. A minimum 10mm gap is recommended between the flange of the ceiling batten and the underside of the joist.

#### **Ceiling Sound Absorber**

Install Sound Absorber between the joists above the metal ceiling battens. Use minimum 75mm thick R1.8 glass wool blanket.

N.B. Consider Minimum Thermal Requirements.

#### Plasterboard Lining

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of EPB Plasterboard as per specified system above, fixed at right angles to the metal ceiling battens. All sheet end butt joints shall occur on the battens. Offset the outer layer by 600mm from the inner layer. Sheet joints should be touched fitted.

#### Fixing the Lining Fasteners

Custom Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer					
System Number	Self-Tapping Drywall Screws						
E2DFA60-FS26	13mm	13mm					
E2DFA60-F26 E2DFA60-M26	25 x 6g	41 x 6g					

#### **Fastening Centres**

Ceiling sheets shall be fixed at 200mm centres along each metal ceiling batten.

Fix butt ends at 100mm centres.

Fasteners to be placed no closer than 12mm from sheet edge. Avoid outer layer screws from hitting inner layer screws.

#### **Acoustic Sealant**

A bead of fire retardant Acoustic Sealant must be applied around the perimeter of the first layer and the second layer bedded on the bead.

#### Wall/Ceiling Junction

The internal angle between the ceilings and walls must be protected by Cornice or square stopped corners taped and filled in accordance with EPB Plasterboard Installation Guide.

#### Jointing

Inner layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped in accordance with the publication entitled EPB Plasterboard Installation Guide.

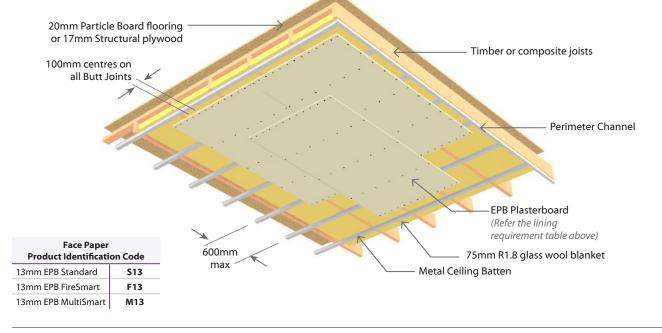
#### \*Impact Insulation Class (IIC)

IIC of 46 is achieved with a bare floor.

IIC of 47 is achieved with loose laid Vinyl.

IIC of 71 is achieved with 40oz cut pile carpet on 8mm foam chip underlay.

IIC of 73 is achieved with 40oz loop pile carpet on waffle underlay.



March 2025

E2DFA90

Direct Fixed Clip - Floor/Ceiling

2 Layers: 2 Layers of Plasterboard to underside of frame

Full Intertenancy Acoustic

System Number	Lining FRR		Load Nois Bearing		ise Control		Lining Demuinement
System Number	Suffix	FRR	Ability	STC	Rw	IIC*	Lining Requirement
52554.00	-F29	90/90/90	LB	57	56	47-73	1 x 16mm EPB FireSmart and 1 x 13mm EPB FireSmart
E2DFA90	-F32	90/90/90	LB	58	57	47-73	2 x 16mm EPB FireSmart

#### Framing

Timber floor joists shall comply with NZS3604 with a minimum depth of 190 x 45mm and spaced at no more than 600mm centres. Alternatively, a proprietary l-joist system with a minimum depth of 190mm and spaced at no more than 600mm centres may be used subject to specific structural design and approved by the normal building consent process.

Consult the joist manufacturer regarding construction of the solid blocking contained in the floor/ceiling to wall junctions.

#### Flooring

Flooring shall be 20mm thick particle board of 17mm thick structural ply, fixed to the joists as per manufacturer's instructions. Flooring sheet joints must have a polypropylene tongue and groove jointer or be formed over framing.

#### **Acoustic Clip and Battens**

The Acoustic Clip shall be fastened to the joists at 1200mm centres maximum (and no less than 900mm centres) to support the metal ceiling battens which are spaced at 600mm centres maximum. Use 3 x 32mm x 8g Wafer Head screws. Insert first screw into the middle slot. Adjust clip to correct height. Then insert remaining two screws. A minimum 10mm gap is recommended between the flange of the ceiling batten and the underside of the joist.

#### **Ceiling Sound Absorber**

Install Sound Absorber between the joists above the metal ceiling battens. Use minimum 75mm thick R1.8 glass wool blanket. N.B. Consider Minimum Thermal Requirements.

N.B. Consider Minimum Thermal Requireme

#### **Plasterboard Lining**

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of EPB Plasterboard as per specified system above fixed at right angles to the metal ceiling battens. All sheet end butt joints shall occur on the battens. Offset the outer layer by 600mm from the inner layer. Sheet joints should be touched fitted.

#### Fixing the Lining

Fasteners (As per Specified System Above)

Custom Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer				
System Number	Self-Tapping Drywall Screws					
E2DFA90-F29	16mm	13mm				
EZDFA90-F29	32 x 6g	41 x 6g				
5205400 522	16mm	16mm				
E2DFA90-F32	32 x 6g	51 x 7g				

Load Bearing

#### Fastening Centre

Ceiling sheets shall be fixed at 200mm centres along each metal ceiling batten.

Fix butt ends at 100mm centres.

Fasteners to be placed no closer than 12mm from sheet edge. Avoid outer layer screws from hitting inner layer screws.

#### **Acoustic Sealant**

A bead of fire retardant Acoustic Sealant must be applied around the perimeter of the first layer and the second layer bedded on the bead.

#### Wall/Ceiling Junction

The internal angle between the ceilings and walls must be protected by Cornice or square stopped corners taped and filled in accordance with EPB Plasterboard Installation Guide.

#### Jointing

Inner layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped in accordance with the publication entitled EPB Plasterboard Installation Guide.

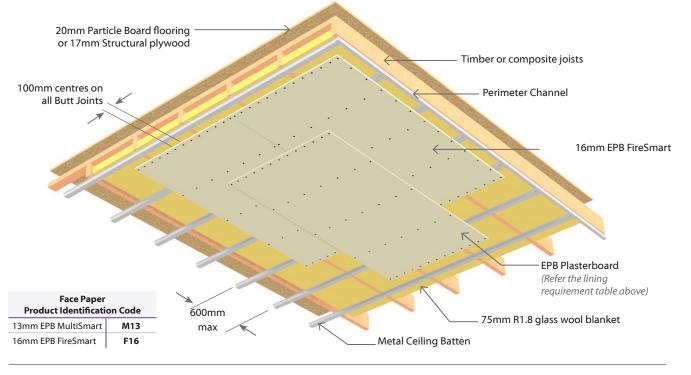
#### \*Impact Insulation Class (IIC)

IIC of 47 is achieved with a bare floor.

IIC of 48 is achieved with loose laid Vinyl.

IIC of 71 is achieved with 40oz loop pile carpet on 8mm foam chip underlay.

IIC of 73 is achieved with 40oz loop pile carpet on waffle underlay.



Load Bearing

Full Intertenancy Acoustic

### E2SCA60

2 Layers: 2 Layers of Plasterboard to underside of frame

Suspended Grid - Floor/Ceiling

Load **Noise Control** Lining Bearing System Number FRR Lining Requirement Suffix STC Rw IIC\* Ability 1 x 13mm EPB MultiSmart and -MS26 60/60/60 LB 40-72 56 55 1 x 13mm EPB Standard E2SCA60 -F26 60/60/60 LB 40-72 2 x 13mm EPB FireSmart 56 55 -M26 60/60/60 LB 56 55 40-72 2 x 13mm EPB MultiSmart

#### Framing

Timber floor joists shall comply with NZS3604 with a minimum depth of 190 x 45mm and spaced at no more than 600mm centres. Alternatively, a proprietary l-joist system with a minimum depth of 190mm and spaced at no more than 600mm centres may be used subject to specific structural design and approved by the normal building consent process.

#### Flooring

Flooring shall be 20mm thick particle board of 17mm thick structural ply, fixed to the joists as per manufacturer's instructions. Flooring sheet joints must have a polypropylene tongue and groove jointer or be formed over framing.

#### **Minimum Cavity Depth**

The system requires a minimum of 275mm cavity depth between the ceiling linings and the underside of the flooring.

#### Suspension System

Rondo ScrewFix<sup>®</sup> steel frame suspension system comprising of 2.5mm wire hangers at 1200mm centres supporting F38 strongback channels spaced at a maximum of 1200mm centres and F37 furring channels at 600mm centres.

Alternative suspension systems with equivalent performance characteristics and layout may be used.

Suspended Grid ceiling system to be installed as per manufacturer's specification.

#### **Ceiling Sound Absorber**

Install Sound Absorber over the suspension system. Use minimum 75mm thick R1.8 glass wool blanket.

N.B. Consider Minimum Thermal Requirements.

#### Plasterboard Lining

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of EPB Plasterboard as per specified system above, fixed at right angles to metal furring channels. Offset the joints of the outer layer by 600mm from those of the inner layer.

# All sheet butt joints should occur on the furring channel. Sheet joints shall be touched fitted.

## Fixing the Lining

lasteners							
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer					
System Number	Self-Tapping Drywall Screws						
E2SCA60-MS26	13mm	13mm					
E2SCA60-F26 E2SCA60-M26	25 x 6g	41 x 6g					

#### **Fastening Centres**

Ceiling sheets shall be fixed at 200mm centres along each furring channel and around the ceiling perimeter.

Fix at 100mm centres where end butt joints occur.

Fasteners to be placed no closer than 12mm from sheet edge.

Avoid outer layer screws from hitting inner layer screws.

#### **Acoustic Sealant**

A bead of Acoustic Sealant must be applied on the inner layer around the perimeter of the ceiling. The outer layer is then bedded into the bead.

#### Wall/Ceiling Junction

The internal angle between the ceilings and walls must be protected by Cornice or square stopped corners taped and filled in accordance with EPB Plasterboard Installation Guide.

#### Jointing

Inner layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped in accordance with the publication entitled EPB Plasterboard Installation Guide.

#### \*Impact Insulation Class (IIC)

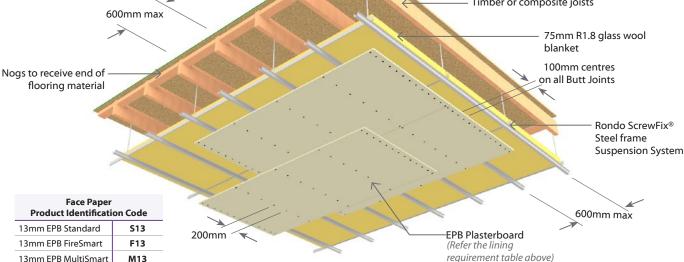
IIC of 40 is achieved with a bare floor.

IIC of 42 is achieved with loose laid Vinyl.

IIC of 71 is achieved with 40oz loop pile carpet on 8mm foam chip underlay.

IC of 72 is achieved with 40oz loop pile carpet on waffle underlay.

 20mm Particle Board flooring or 17mm Structural plywood
 Timber or composite joists





March 2025

## E2SCA75

Suspended Grid - Floor/Ceiling

Load Bearing

#### 2 Layers: 2 Layers of Plasterboard to underside of frame

Load **Noise Control** Lining Bearing System Number FRR **Lining Requirement** Suffix STC Rw IIC\* Ability 1 x 16mm EPB FireSmart and E2SCA75 -F29 75/75/75 LB 56 40-72 55 1 x 13mm FPB FireSmart

#### Framing

Timber floor joists shall comply with NZS3604 with a minimum depth of 190 x 45mm and spaced at no more than 600mm centres. Alternatively, a proprietary I-joist system with a minimum depth of 190mm and spaced at no more than 600mm centres may be used subject to specific structural design and approved by the normal building consent process.

#### Flooring

Flooring shall be 20mm thick particle board of 17mm thick structural ply, fixed to the joists as per manufacturer's instructions. Flooring sheet joints must have a polypropylene tongue and groove jointer or be formed over framing.

#### Minimum Cavity Depth

The system requires a minimum of 275mm cavity depth between the ceiling linings and the underside of the flooring.

#### **Suspension System**

Rondo ScrewFix® steel frame suspension system comprising 2.5mm wire hangers at 1200mm centres supporting F38 strongback channels spaced at a maximum of 1200mm centres and F37 furring channels at 600mm centres.

Alternative suspension systems with equivalent performance characteristics and layout may be used.

Suspended Grid ceiling system to be installed as per manufacturer's specification.

#### **Ceiling Sound Absorber**

Install Sound Absorber over the suspension system. Use minimum 75mm thick R1.8 glass wool blanket.

N.B. Consider Minimum Thermal Requirements.

#### **Plasterboard Lining**

NB: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of 16mm EPB FireSmart and One layer of 13mm EPB FireSmart fixed at right angles to metal furring channels. Offset the joints of the outer layer by 600mm from those of the inner layer. All sheet butt joints should occur on the furring channel. Sheet joints shall be touched fitted.

#### **Fixing the Lining**

#### Fasteners (As per Specified System Above)

Custom Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer					
System Number	Self-Tapping Drywall Screws						
E2SCA75-F29	16mm	13mm					
	32 x 6g	41 x 6g					

#### **Fastening Centres**

Ceiling sheets shall be fixed at 200mm centres along each furring channel and around the ceiling perimeter.

Fix at 100mm centres where end butt joints occur.

Fasteners to be placed no closer than 12mm from sheet edge.

Avoid outer layer screws from hitting inner layer screws.

#### Acoustic Sealant

A bead of Acoustic Sealant must be applied on the inner layer around the perimeter of the ceiling. The outer layer is then bedded into the bead.

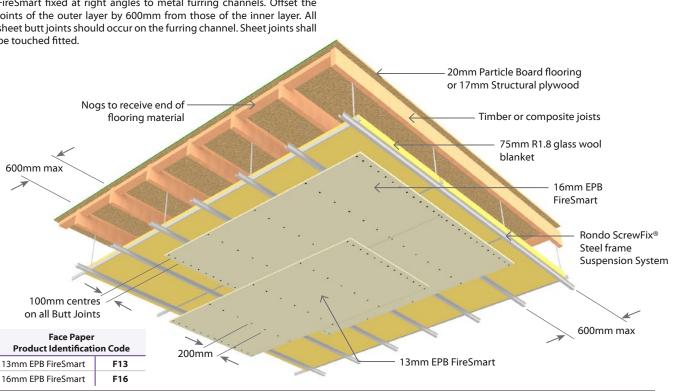
#### Wall/Ceiling Junction

The internal angle between the ceilings and walls must be protected by Cornice or square stopped corners taped and filled in accordance with EPB Plasterboard Installation Guide.

#### Jointing

Inner layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped in accordance with the publication entitled EPB Plasterboard Installation Guide.



Full Intertenancy Acoustic

Load Bearing

E2SCA90

<u>Suspended Grid - Floor/Ceiling</u>

2 Layers: 2 Layers of Plasterboard to underside of frame

Full Intertenancy **A**coustic

	System Number	Lining	FRR	Load Bearing		se Coi	ntrol	Lining Requirement
		Suffix		Ability	STC	Rw	IIC*	
	E2SCA90	-F32	90/90/90	LB	57	56	40-73	2 x 16mm EPB FireSmart

#### Framing

Timber floor joists shall comply with NZS3604 with a minimum depth of 190 x 45mm and spaced at no more than 600mm centres. Alternatively, a proprietary l-joist system with a minimum depth of 190mm and spaced at no more than 600mm centres may be used subject to specific structural design and approved by the normal building consent process.

#### Flooring

Flooring shall be 20mm thick particle board of 17mm thick structural ply, fixed to the joists as per manufacturer's instructions. Flooring sheet joints must have a polypropylene tongue and groove jointer or be formed over framing.

#### **Minimum Cavity Depth**

The system requires a minimum of 275mm cavity depth between the ceiling linings and the underside of the flooring.

#### Suspension System

Rondo ScrewFix<sup>®</sup> steel frame suspension system comprising 2.5mm wire hangers at 1200mm centres supporting F38 strongback channels spaced at a maximum of 1200mm centres and F37 furring channels at 600mm centres.

Alternative suspension systems with equivalent performance characteristics and layout may be used.

Suspended Grid ceiling system to be installed as per manufacturer's specification.

#### **Ceiling Sound Absorber**

Install Sound Absorber over the suspension system. Use minimum 75mm thick R1.8 glass wool blanket.

N.B. Consider Minimum Thermal Requirements.

#### Plasterboard Lining

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of 16mm EPB FireSmart fixed at right angles to metal furring channels. Offset the joints of the outer layer by 600mm from those of the inner layer. All sheet butt joints should occur on the furring channel. Sheet joints shall be touched fitted.

#### Fixing the Lining

#### Fasteners (As per Specified System Above)

Sustem Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer				
System Number	Self-Tapping Drywall Screws					
E2SCA90-F32	16mm	16mm				
E25CA90-F32	32 x 6g	41 x 6g				

#### **Fastening Centres**

Ceiling sheets shall be fixed at 200mm centres along each furring channel and around the ceiling perimeter.

Fix at 100mm centres where end butt joints occur.

Fasteners to be placed no closer than 12mm from sheet edge.

Avoid outer layer screws from hitting inner layer screws.

#### Acoustic Sealant

A bead of Acoustic Sealant must be applied on the inner layer around the perimeter of the ceiling. The outer layer is then bedded into the bead.

#### Wall/Ceiling Junction

The internal angle between the ceilings and walls must be protected by Cornice or square stopped corners taped and filled in accordance with EPB Plasterboard Installation Guide.

#### Jointing

Inner layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped in accordance with the publication entitled EPB Plasterboard Installation Guide.

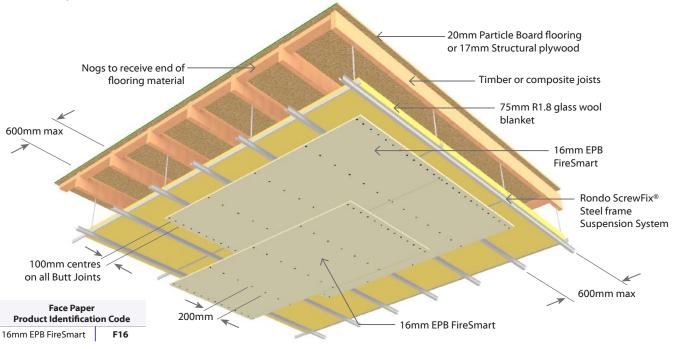
#### \*Impact Insulation Class (IIC)

IIC of 40 is achieved with a bare floor.

IIC of 42 is achieved with loose laid Vinyl.

IIC of 72 is achieved with 40oz loop pile carpet on 8mm foam chip underlay.

IIC of 73 is achieved with 40oz loop pile carpet on waffle underlay.



March 2025

E2DFsA45 Direct Fixed Clip - Floor/Ceiling - steel joist

**2** Layers: 2 Layers of Plasterboard to underside of frame

Full Intertenancy Acoustic

System Number	Lining FRR		Load Noise Control Bearing		ntrol	Lining Requirement	
	Suffix	Suttiv	Ability	STC	C Rw IIC*		
	-F26	45/45/45	LB	56	55	47-74	2 x 13mm EPB FireSmart
E2DFsA45	-M26	45/45/45	LB	57	56	47-74	2 x 13mm EPB MultiSmart

#### Framing

Steel floor joists shall be a minimum depth of 190mm C-section with 45mm flanges and a steel gauge of 1.55mm minimum. Joist spacing's at no more than 600mm centres.

#### Flooring

Flooring shall be 20mm thick particle board of 17mm thick structural ply, fixed to the joists as per manufacturer's instructions. Flooring sheet joints must have a polypropylene tongue and groove jointer or be formed over framing.

#### **Acoustic Clip and Battens**

The Acoustic Clip shall be fastened to the joists at 1200mm centres maximum (and no less than 900mm centres) to support the metal ceiling battens which are spaced at 600mm centres maximum.

Use 3 x 30mm x 10g Drill-Point Wafer Head Screws. Insert first screw into the middle slot. Adjust clip to correct height. Then insert remaining two screws. A minimum 10mm gap is recommended between the flange of the ceiling batten and the underside of the joist.

#### **Ceiling Sound Absorber**

Install Sound Absorber between the joists above the metal ceiling battens. Use minimum 75mm thick R1.8 glass wool blanket.

N.B. Consider Minimum Thermal Requirements.

#### Plasterboard Lining

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of EPB Plasterboard as per specified system above, fixed at right angles to the metal ceiling battens. All sheet end butt joints shall occur on the battens. Offset the outer layer by 600mm from the inner layer. Sheet joints should be touched fitted.

## **Fixing the Lining**

Fasteners

Sustem Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer					
System Number	Self-Tapping Drywall Screws						
E2DFsA45-F26	13mm	13mm					
E2DFsA45-M26	32 x 6g	41 x 6g					

Load Bearing

#### **Fastening Centres**

Ceiling sheets shall be fixed at 200mm centres along each metal ceiling batten.

Fix butt ends at 100mm centres.

Fasteners to be placed no closer than 12mm from sheet edge.

Avoid outer layer screws from hitting inner layer screws.

#### Acoustic Sealant

A bead of fire retardant Acoustic Sealant must be applied around the perimeter of the first layer and the second layer bedded on the bead.

#### Wall/Ceiling Junction

The internal angle between the ceilings and walls must be protected by Cornice or square stopped corners taped and filled in accordance with EPB Plasterboard Installation Guide.

#### Jointing

Inner layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped in accordance with the publication entitled EPB Plasterboard Installation Guide.

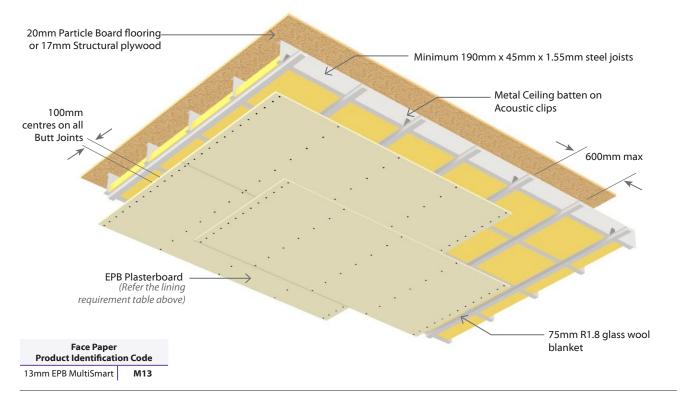
#### \*Impact Insulation Class (IIC)

IIC of 47 is achieved with a bare floor.

IIC of 48 is achieved with loose laid Vinyl.

IIC of 72 is achieved with 40oz loop pile carpet on 8mm foam chip underlay.

IIC of 74 is achieved with 40oz loop pile carpet on waffle underlay.



#### **2** Layers: 2 Layers of Plasterboard to underside of frame

## Full Intertenancy <u>A</u>coustic

System Number Lining Suffix	Lining 500	Load Noise Control		ntrol	Lining Demoissment		
	FRR	Bearing Ability	STC	Rw	IIC*	Lining Requirement	
E2DFsA60	-FM29	60/60/60	LB	57	56	47-75	1 x 16mm EPB FireSmart and 1 x 13mm EPB MultiSmart
	-F32	60/60/60	LB	57	56	47-75	2 x 16mm EPB FireSmart

#### Framing

Steel floor joists shall be a minimum depth of 190mm C-section with 45mm flanges and a steel gauge of 1.55mm minimum. Joist spacing's at no more than 600mm centres.

#### Flooring

Minimum flooring shall be nominal 20mm thick particle board or minimum 17mm thick structural plywood, fixed to the joists as per manufacturers' instructions. Flooring sheet joints must have a polypropylene tongue and groove jointer or be formed over framing.

#### **Acoustic Clip and Battens**

The Acoustic Clip shall be fastened to the joists at 1200mm centres maximum (and no less than 900mm centres) to support the metal ceiling battens which are spaced at 600mm centres maximum.

Use 3 x 30mm x 10g Drill-Point Wafer Head Screws. Insert first screw into the middle slot. Adjust clip to correct height. Then insert remaining two screws. A minimum 10mm gap is recommended between the flange of the ceiling batten and the underside of the joist.

#### **Ceiling Sound Absorber**

20mm Particle Board flooringor 17mm Structural plywood

100mm

centres on all Butt Joints

Install Sound Absorber between the joists above the metal ceiling battens. Use minimum 75mm thick R1.8 glass wool blanket.

N.B. Consider Minimum Thermal Requirements.

#### **Plasterboard Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of EPB Plasterboard as per specified system above fixed at right angles to the metal ceiling battens. All sheet end butt joints shall occur on the battens. Offset the outer layer by 600mm from the inner layer. Sheet joints should be touched fitted.

#### Fixing the Lining

#### Fasteners (As per Specified System Above)

Custom Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer					
System Number	Self-Tapping Drywall Screws						
	16mm	13mm					
E2DFsA60-FM29	32 x 6g	41 x 6g					
E2DFsA60-F32	16mm	16mm					
	32 x 6g	51 x 7g					

#### **Fastening Centres**

Ceiling sheets shall be fixed at 200mm centres along each metal ceiling batten.

Fix butt ends at 100mm centres.

Fasteners to be placed no closer than 12mm from sheet edge.

Avoid outer layer screws from hitting inner layer screws.

#### **Acoustic Sealant**

A bead of fire retardant Acoustic Sealant must be applied around the perimeter of the first layer and the second layer bedded on the bead.

## Wall/Ceiling Junction

The internal angle between the ceilings and walls must be protected by Cornice or square stopped corners taped and filled in accordance with EPB Plasterboard Installation Guide.

#### Jointing

Inner layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped in accordance with the publication entitled EPB Plasterboard Installation Guide.

#### \*Impact Insulation Class (IIC)

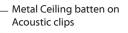
IIC of 47 is achieved with a bare floor.

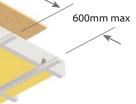
IIC of 49 is achieved with loose laid Vinyl.

IIC of 73 is achieved with 40oz loop pile carpet on 8mm foam chip underlay.

IIC of 75 is achieved with 40oz loop pile carpet on waffle underlay.

Minimum 190mm x 45mm x 1.55mm steel joists





75mm R1.8 glass wool blanket

 Face Paper

 Product Identification Code

 13mm EPB MultiSmart
 M13

 16mm EPB FireSmart
 F16

Freephone 0800 353 742

16mm EPB FireSmart

> EPB plasterboard (Refer the lining requirement table above)



# Sub Intertenancy Timber Frame Walls

**SUB INTERTENANCY** 

Load Bearing

March 2025

**Two Way FRR** 

Sub Intertenancy **a**coustic

## **E2TLa30** Single <u>T</u>imber Frame

#### 2 Layers: 1 Layer of Plasterboard to each side of frame

Load **Noise Control** Lining Bearing System Number FRR **Lining Requirement** Suffix STC Rw Ability -S20 30/30/30 LB 39 38 1 x 10mm EPB Standard each side E2TLa30 -S26 30/30/30 40 39 1 x 13mm EPB Standard each side LB -M20 30/30/30 LB 41 40 1 x 10mm EPB MultiSmart each side

#### Framing

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

Studs at 600mm centres maximum.

Nogs at 1350mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or non-load bearing partitions. Minimum frame dimension  $90 \times 45$ mm in order to achieve the stated STC ratings above.

#### Wall Sound Absorber

Install Sound Absorber between studs and nogs of the frame. Use 90mm thick R2.2 glass wool insulation.

#### Plasterboard Lining

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of EPB Plasterboard lining as per specified system above on each side of the timber framing.

Vertical or Horizontal fixing permitted.

Use full height sheets where possible when fixing vertical.

Inner layer joints on opposite side of frame should be offset.

All sheet joints must be fixed over solid timber framing.

Sheet end butt joints must be formed over nogs.

Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners (As per Specified System Above)

	Single Layer					
System Number	High Thread Drywall Screws					
E2TLa30-S20	10mm					
E2TLa30-M20	41 x 6g					
	13mm					
E2TLa30-S26	41 x 6g					

#### **Fastener Centres**

Fix at 300mm centres at sheet perimeter and up all other studs. Place fasteners 50mm from sheet corners along the top and bottom plates. On end studs place additional fasteners 50-60mm vertically and no close than 10mm from plate to stud connections.

Place fasteners minimum 12mm from sheet edges and sheet ends.

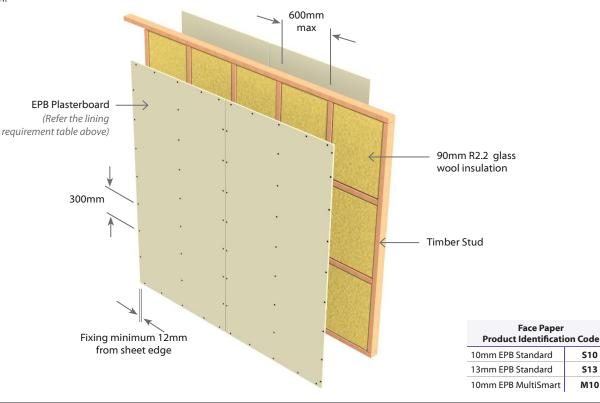
Place fasteners at 200mm centres where sheet end butt joints occur.

#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing and the single layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



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March 2025

Load Bearing

## Two Way FRR

## Sub Intertenancy <u>a</u>coustic

System Number Lining Suffix	ing roo		Noise Control			
	Suffix	fix FRR	Bearing Ability	STC	Rw	Lining Requirement
	-\$30	30/30/30	LB	42	41	1 x 10mm EPB Standard one side 2 x 10mm EPB Standard other side
E3TLa30	-539	30/30/30	LB	43	42	1 x 13mm EPB Standard one side 2 x 13mm EPB Standard other side
	-M30	30/30/30	LB	44	43	1 x 10mm EPB MultiSmart one side 2 x 10mm EPB MultiSmart other side

SUB INTERTENANCY

#### Framing

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

Single Timber Frame

**3** Layers: <sup>1</sup> Layer of Plasterboard to one side of frame &

2 Layers of Plasterboard to other side of frame

Studs at 600mm centres maximum.

**EPB** Noise Control Systems

E3TLa30

Nogs at 1350mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or nonload bearing partitions. Minimum frame dimension  $90 \times 45$ mm in order to achieve the stated STC ratings above.

#### Wall Sound Absorber

Install Sound Absorber between studs and nogs of the frame. Use 90mm thick R2.2 glass wool insulation.

#### **Plasterboard Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of EPB Plasterboard lining on one side of frame and Two layers on the other side of framing as per specified system above. First layer or inner layer on each side of framing to be fixed vertically.

Vertical or Horizontal fixing permitted on outer layer only.

Use full height sheets where possible when fixing vertical.

Inner layer joints on opposite side of frame should be offset.

All sheet joints must be fixed over solid timber framing.

Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer.

Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

## Fixing of Linings (to achieve Fire Rating)

Fasteners (As per Specified System Above)

	Side	Side Two				
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	Single Layer			
	High Thread Drywall Screws					
E3TLa30-S30	10mm	10mm	10mm			
E3TLa30-M30	41 x 6g	51 x 7g	41 x 6g			
E3TLa30-S39	10mm	10mm	13mm			
	41 x 6g	51 x 7g	41 x 6g			

#### **Fastener Centres**

Inner Layer: Fix at 600 centres on vertical studs and 600mm centres horizontally on top and bottom plates.

Single or Outer Layer: Fix at 300mm centres at sheet perimeter and 300mm centres up each stud.

Place fasteners 50mm from sheet corners along the top and bottom plates. On end studs place additional fasteners 50-60mm vertically and no close than 10mm from plate to stud connections.

Place fasteners minimum 12mm from sheet edges and sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

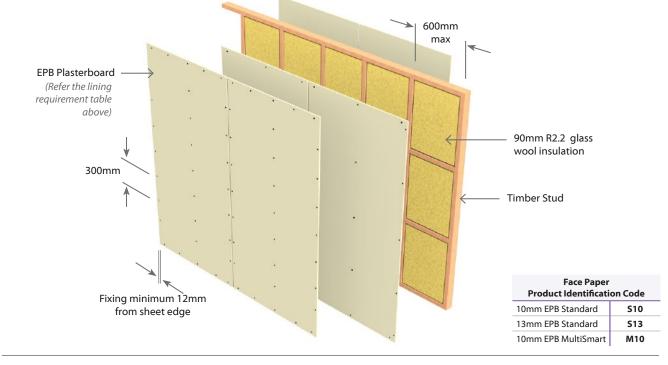
#### Acoustic Sealant

A bead of acoustic sealant is required around the perimeter of the framing or the inner layer. Then the single or outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

#### Inner Layer: Unstopped.

Outer or Single Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



SUB INTERTENANCY

March 2025

**Two Way FRR** 

#### E4TLa45

Single <u>T</u>imber Frame

**<u>4</u>** Layers: 2 Layers of Plasterboard to each side of frame

Sub Intertenancy **a**coustic

System Number				Load Noise Control		Lining Requirement
System Number St	Suffix	FRR	Ability	STC	Rw	Lining Requirement
E4TLa45	-S40	45/45/45	LB	44	43	2 x 10mm EPB Standard each side

#### Framing

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

Studs at 600mm centres maximum.

Nogs at 1350mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or nonload bearing partitions. Minimum frame dimension  $90 \times 45$ mm in order to achieve the stated STC ratings above.

#### **Wall Sound Absorber**

Install Sound Absorber between studs and nogs of the frame.

Use 90mm thick R2.2 glass wool insulation.

#### **Plasterboard Lining**

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of 10mm EPB Standard lining on each side of timber framing.

First layer or inner layer on each side of framing to be fixed vertically.

Vertical or Horizontal fixing permitted on outer layer only. Use full height sheets where possible. Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over solid timber framing.

Vertical Joints of the outer layer should be offset 600mm from those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer.

## Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the Elephant Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners

System Number	Side One		Side Two	
	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer
	High Thread Drywall Screws			
E4TLa45-S40	10mm	10mm	10mm	10mm
	41 x 6g	51 x 7g	41 x 6g	51 x 7g

Load Bearing

#### Fastener Centres

Inner Layer: Fix at 600 centres on vertical studs and 600mm centres horizontally on top and bottom plates.

Outer Layer: Fix at 300mm centres at sheet perimeter and 300mm centres up each stud.

Place fasteners 50mm from sheet corners along the top and bottom plates. On end studs place additional fasteners 50-60mm vertically and no close than 10mm from plate to stud connections.

Place fasteners minimum 12mm from sheet edges and sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

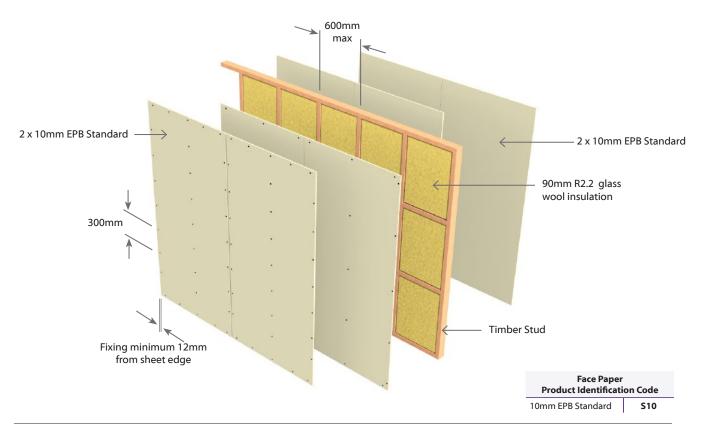
#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

Inner Layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



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Single Timber Frame

March 2025

Two Way FRR

Sub Intertenancy **a**coustic

#### 2 Layers: 1 Layer of Plasterboard to each side of frame

System Number	Lining FRR		Load Noise Bearing		Control	Lining Requirement
System Number	Suffix		Ability	STC	Rw	
E2TLa60	-M26	60/60/60	LB	42	41	1 x 13mm EPB MultiSmart each side

#### Framing

E2TLa60

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

Studs at 600mm centres maximum.

Nogs at 800mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or non-load bearing partitions. Minimum frame dimension 90 x 45mm in order to achieve the stated STC ratings above.

#### Wall Sound Absorber

Install Sound Absorber between studs and nogs of the frame.

Use 90mm thick R2.2 glass wool insulation.

#### **Plasterboard Lining**

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of 13mm EPB MultiSmart lining on each side of the timber framing.

Vertical fixing only permitted. Use full height sheets where possible when fixing vertical. Sheet joints on opposite side of frame should be offset. All sheet joints must be fixed over solid timber framing. Sheet end butt joints must be formed over nogs. Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the Elephant Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners

Custom Number	Single Layer					
System Number	High Thread D	Drywall Screws				
	13mm	13mm				
E2TLa60-M26	41 x 6g	41 x 6g				

Load Bearing

#### **Fastener Centres**

Fix at 300mm centres at sheet perimeter and up all other studs. Place fasteners 50mm from sheet corners along the top and bottom plates. On end studs place additional fasteners 50-60mm vertically and no close than 10mm from plate to stud connections.

Place fasteners minimum 12mm from sheet edges and sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur.

#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing and the single layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.

#### 13mm EPB MultiSmart 300mm 500mm 300mm Fising minimum 12mm from sheet edge 13mm EPB MultiSmart 13mm EPB MultiSmart 90mm R2.2 glass wool insulation Timber Stud 13mm EPB MultiSmart 13mm EPB MultiSmart

March 2025

Two Way FRR

## E3TLa60 Single <u>T</u>imber Frame

**<u>3</u>** Layers: <sup>1</sup> Layer of Plasterboard to one side of frame & 2 Layers of Plasterboard to other side of frame

#### Sub Intertenancy **a**coustic

Custom Number	Lining	FDD	Load	Noise Control		Lining Requirement
System Number	Suffix	FRR			Rw	
	-MS39	60/60/60	LB	45	44	1 x 13mm EPB MultiSmart one side 2 x 13mm EPB Standard other side
E3TLa60	-M33	60/60/60	LB	45	44	1 x 13mm EPB MultiSmart one side 2 x 10mm EPB MultiSmart other side
	-M39	60/60/60	LB	46	45	1 x 13mm EPB MultiSmart one side 2 x 13mm EPB MultiSmart other side

#### Framing

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

Studs at 600mm centres maximum.

Nogs at 1350mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or nonload bearing partitions. Minimum frame dimension 90 x 45mm in order to achieve the stated STC ratings above.

#### Wall Sound Absorber

Install Sound Absorber between studs and nogs of the frame. Use 90mm thick R2.2 glass wool insulation.

#### **Plasterboard Lining**

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of EPB Plasterboard lining on one side of frame and Two layers on the other side of framing as per specified system above.

First layer or inner layer on each side of framing to be fixed vertically. Vertical or Horizontal fixing permitted on outer layer only. Use full height sheets where possible when fixing vertical.

Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over solid timber framing.

Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the EPB Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

Fixing	of Linings	(to	achieve	Fire	Rating)

Fasteners (As per Specified System Above)

	Side	Side Two					
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	Single Layer				
	High Thread Drywall Screws						
E3TLa60-M33	10mm	10mm	13mm				
E31La00-10133	41 x 6g	51 x 7g	41 x 6g				
E3TLa60-M39	10mm	10mm	13mm				
E3TLa60-MS39	41 x 6g	51 x 7g	41 x 6g				

Load Bearing

#### Fastener Centres

Inner Layer: Fix at 600 centres on vertical studs and 600mm centres horizontally on top and bottom plates.

Outer Layer: Fix at 300mm centres at sheet perimeter and 300mm centres up each stud.

Place fasteners 50mm from sheet corners along the top and bottom plates. On end studs place additional fasteners 50-60mm vertically and no close than 10mm from plate to stud connections.

Place fasteners minimum 12mm from sheet edges and sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur.

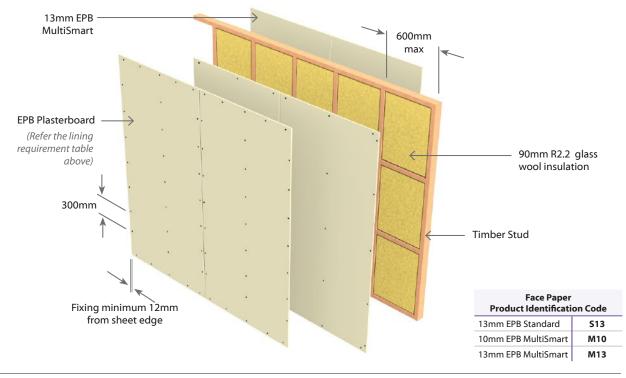
Avoid outer layer screws from hitting inner layer screws.

#### Acoustic Sealant

A bead of acoustic sealant is required around the perimeter of the framing or the inner layer. Then the single or outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight. **Jointing** 

#### Inner Layer: Unstopped.

Outer or Single Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



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March 2025

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Two Way FRR
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Sub Intertenancy **a**coustic

## 4 Layers: 2 Layers of Plasterboard to each side of frame

Single Timber Frame

Custom Number	Lining	500	Load	Noise Control		
System Number	Suffix	FRR	Bearing Ability	STC	Rw	Lining Requirement
	-S46	60/60/60	LB	45	44	1 x 10mm EPB Standard & 1 x 13mm EPB Standard each side
E4TLa60	-\$52	60/60/60	LB	46	45	2 x 13mm EPB Standard each side
	-M40	60/60/60	LB	46	45	2 x 10mm EPB MultiSmart each side

#### Framing

E4TLa60

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

Studs at 600mm centres maximum.

Nogs at 1350mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or non-load bearing partitions. Minimum frame dimension 90 x 45mm in order to achieve the stated STC ratings above.

#### Wall Sound Absorber

Install Sound Absorber between studs and nogs of the frame. Use 90mm thick R2.2 glass wool insulation.

#### Plasterboard Lining

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of EPB Plasterboard lining on one side of frame and Two layers on the other side of framing as per specified system above.

First layer or inner layer on each side of framing to be fixed vertically. Vertical or Horizontal fixing permitted on outer layer only. Use full height sheets where possible. Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over solid timber framing. Vertical Joints of the outer layer should be offset 600mm from those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the Elephant Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners (As per Specified System Above)

	Side	One	Side Two				
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer			
	High Thread Drywall Screws						
E4TLa60-S46	10mm	13mm	10mm	13mm			
E41L000-540	41 x 6g	51 x 7g	41 x 6g	51 x 7g			
	13mm	13mm	13mm	13mm			
E4TLa60-S52	41 x 6g	51 x 7g	41 x 6g	51 x 7g			
54TL-60 M40	10mm	10mm	10mm	10mm			
E4TLa60-M40	41 x 6g	51 x 7g	41 x 6g	51 x 7g			

Load Bearing

#### **Fastener Centres**

Inner Layer: Fix at 600 centres on vertical studs and 600mm centres horizontally on top and bottom plates.

Outer Layer: Fix at 300mm centres at sheet perimeter and 300mm centres up each stud.

Place fasteners 50mm from sheet corners along the top and bottom plates. On end studs place additional fasteners 50-60mm vertically and no close than 10mm from plate to stud connections.

Place fasteners minimum 12mm from sheet edges and sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

#### Acoustic Sealant

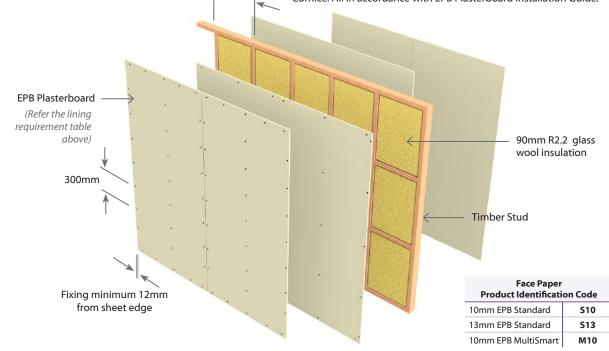
A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

max

#### Inner Layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



**Two Way FRR** 

#### E4TLa90

#### Single <u>T</u>imber Frame

#### 4 Layers: 2 Layers of Plasterboard to each side of frame

System Number	Lining FRR		Load Bearing		Control	Lining Requirement
System Number	Suffix		Ability	STC	Rw	
E4TLa90	-M52	90/90/90	LB	48	47	2 x 13mm EPB MultiSmart one side 2 x 13mm EPB MultiSmart other side

#### Framing

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

Studs at 600mm centres maximum.

Nogs at 1350mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or non-load bearing partitions. Minimum frame dimension 90 x 45mm in order to achieve the stated STC ratings above.

#### Wall Sound Absorber

Install Sound Absorber between studs and nogs of the frame.

Use 90mm thick R2.2 glass wool insulation.

#### **Plasterboard Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of 13mm EPB MultiSmart lining on each side of timber framing.

Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame should be offset.

All sheet joints must be fixed over solid timber framing.

Vertical Joints of the outer layer should be offset 600mm from those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer.

#### Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the EPB Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners

	Side	One	Side Two					
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer				
	High Thread Drywall Screws							
E4TLa90-M52	13mm	13mm	13mm	13mm				
E41L890-10152	41 x 6g	51 x 7g	41 x 6g	51 x 7g				

Load Bearing

#### **Fastener Centres**

Inner Layer: Fix at 600 centres on vertical studs and 600mm centres horizontally on top and bottom plates.

Outer Layer: Fix at 300mm centres at sheet perimeter and 300mm centres up each stud.

Place fasteners 50mm from sheet corners along the top and bottom plates. On end studs place additional fasteners 50-60mm vertically and no close than 10mm from plate to stud connections.

Place fasteners minimum 12mm from sheet edges and sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

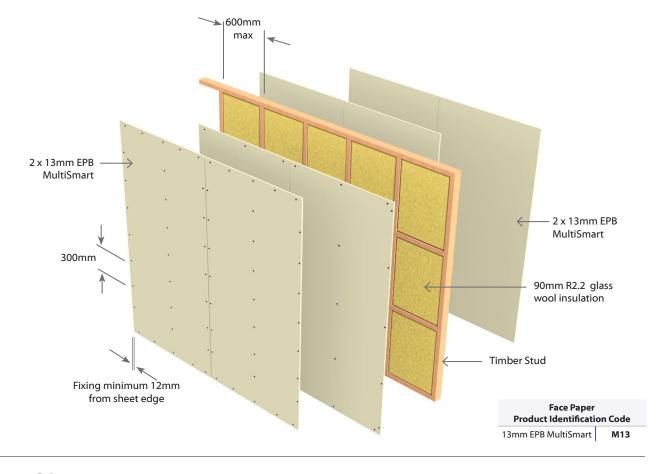
#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

Inner Layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



## Sub Intertenancy <u>a</u>coustic

#### Sub Intertenancy **a**coustic

2 Layers: 1 La	yer of Plasterboard	d to each side of frar	ne

Double Timber Frame

Custom Number	Lining		Load Bearing	Noise Control		I to be a second s
System Number	Suffix	uffix FRR		STC	Rw	Lining Requirement
	-S20	30/30/30	LB	50	49	1 x 10mm EPB Standard one side 1 x 10mm EPB Standard other side
E2TDLa30	-S26	30/30/30	LB	52	51	1 x 13mm EPB Standard one side 1 x 13mm EPB Standard other side
	-M20	30/30/30	LB	52	51	1 x 10mm EPB MultiSmart one side 1 x 10mm EPB MultiSmart other side

#### Framing

E2TDLa30

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

Studs at 600mm centres maximum.

Nogs at 800mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or non-load bearing partitions. Minimum frame dimension 90 x 45mm in order to achieve the stated STC ratings above. Space between Frames shall be a minimum of 25mm

#### **Minimum Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 205mm. Increasing the partition width would increase STC performance as per the table below.

Stud Size	Space Between Frames	Partition Width (Excludes Board)	STC Rating
90 x 45mm	25mm Min	205mm	+0
90 x 45mm	75mm Min	255mm	+2

#### Wall Sound Absorber

Install Sound Absorber between studs and nogs on one side of the double frame. Use 90mm thick R2.2 glass wool insulation.

#### **Plasterboard Lining**

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of EPB Plasterboard lining as per specified system above on each side of the timber framing.

Vertical or Horizontal fixing permitted. Use full height sheets where possible when fixing vertical. Sheet joints on opposite side of frame should be offset. All sheet joints must be fixed over solid timber framing. Sheet end butt joints must be formed over nogs. Sheets shall be touch fitted.

#### **Fixing of Linings (Non Fire Rated)**

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

Load Bearing

#### Fixing of Linings (to achieve Fire Rating)

#### Fasteners (As per Specified System Above)

	Single Layer
System Number	High Thread Drywall Screws
E2TDLa30-S20	10mm
E2TDLa30-M20	41 x 6g
	13mm
E2TDLa30-S26	41 x 6g

#### **Fastener Centres**

Fix at 300mm centres at sheet perimeter and up all other studs. Place fasteners 50mm from sheet corners along the top and bottom plates. On end studs place additional fasteners 50-60mm vertically and no close than 10mm from plate to stud connections. Place fasteners minimum 12mm from sheet edges and sheet ends.

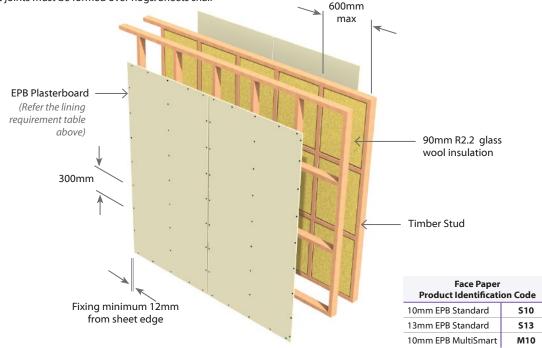
Place fasteners at 200mm centres where sheet end butt joints occur.

#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing and the single layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



March 2025

Two Way FRR

Sub Intertenancy **a**coustic

E3TMLa30

Single Timber Frame with Resilient Mount

<u>**3**</u> Layers: 1 Layer of Plasterboard to Framing side & 2 Layers of Plasterboard to Mount side

System Number	Lining	FRR	Load Bearing	Noise Control		Lining Requirement
System Number	Suffix	T AK	Ability		Rw	Linnig Requirement
E3TMLa30	-\$30	30/30/30	LB	52	51	Framing Side: 1 x 10mm EPB Standard Mount Side: 2 x 10mm EPB Standard

#### Framing

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

Studs at 600mm centres maximum.

Nogs at 1350mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or nonload bearing partitions. Minimum 90 x 45mm frame dimension.

#### **Minimum Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 130mm.

Stud Depth	Mount + Channel	Lining Suffix	Plasterboard	Total Partition
90mm	40mm	\$30	30mm	160mm

#### Wall Sound Absorber

Install Sound Absorber between studs and nogs of the frame. Use 90mm thick R2.2 glass wool insulation.

#### **Acoustic Resilient Mount**

The Resilient Mount shall be fixed to the studs at 600mm centres vertically and on every alternative stud using 32mm x 8g wafer head screws. When adjusting the clip for depth, 3mm rubber must remain between the underside of the steel spacer head and the furring channel. The Furring channels are clipped horizontally into the Mounts. Joints must be made as close as possible to the clips.

#### **Plasterboard Lining**

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of 10mm EPB Standard lining fixed vertically on framing side and Two layers of 10mm EPB Standard fixed vertically on the furring channel on the other side.

Vertical fixing only permitted. Vertical joints of outer layer should be offset by 600mm from those of the inner layer. Use full height sheets where possible.

All sheet joints on the framing side must be fixed over solid timber framing. Sheet end butt joints must be formed over nogs or furring channels and offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

Load Bearing

#### **Fixing of Linings (Non Fire Rated)**

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners

System Number	Furring Ch	Framing Side	
	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	Single Layer
	Self-Tapping	High Thread Drywall Screws	
52714L-20 620	10mm	10mm	10mm
E3TMLa30-S30	41 x 6g	25 x 6g	32 x 6g

#### **Fastener Centres**

Framing Side: Fix at 300mm centres at sheet perimeter and up each stud.

**Resilient Mount Side:** Fix 300mm centres along each furring channel. Place fasteners minimum 12mm from sheet edges and sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

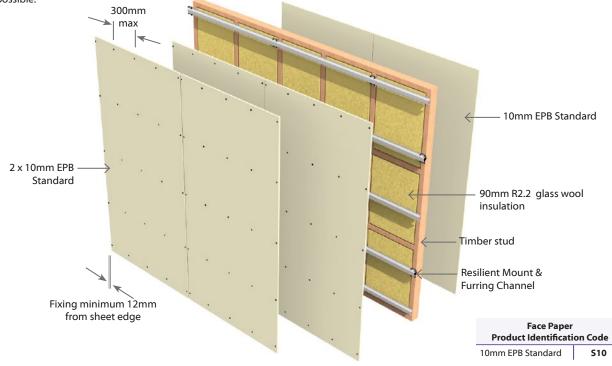
#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing or the inner layer. The single or outer layer is then bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

#### Inner Layer: Unstopped.

Outer or Single Layer: All fastener heads stopped and all sheet joints reinforced and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



E3TRLa30 Single <u>Timber Frame with Resilient Rail</u>

**<u>3</u>** Layers: 1 Layer of Plasterboard to Framing side & 2 Layers of Plasterboard to Rail side

Custom Number	Lining	500	Load Bearing	Noise C		Noise Control		Lining Demuinement
System Number	Suffix	FRR	Ability	STC	Rw	Lining Requirement		
E3TRLa30	-\$30	30/30/30	LB	47	46	Framing Side: 1 x 10mm EPB Standard Rail Side: 2 x 10mm EPB Standard		
	-S39	30/30/30	LB	50	49	Framing Side: 1 x 13mm EPB Standard Rail Side: 2 x 13mm EPB Standard		
	-M30	30/30/30	LB	51	50	Framing Side: 1 x 10mm EPB MultiSmart Rail Side: 2 x 10mm EPB MultiSmart		

#### Framing

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

Studs at 600mm centres maximum.

Nogs at 1350mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or nonload bearing partitions. Minimum 90 x 45mm frame dimension.

#### **Minimum Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 130mm.

Stud Depth	Rail	Lining Suffix		Plasterboard	Total Partition
00	13mm	S30	M30	30mm	133mm
90mm		\$39		39mm	142mm

#### Wall Sound Absorber

Install Sound Absorber between studs and nogs of the frame. Use 90mm thick R2.2 glass wool insulation.

#### **Acoustic Resilient Rail**

The Resilient Rail shall be fixed to the studs at 600mm centres using 32mm x 8g wafer head self-tapping screws through the base flange and into each stud. The base flange to face downwards and resilient edge upwards. Channel may be joined by nesting together with no more than 20mm overlap. Fasten through both channels into stud. Highest resilient channel shall be fixed no more than 75mm from the ceiling line and the lowest channel, 50mm from the floor line.

#### Plasterboard Lining

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of EPB Plasterboard lining fixed vertically on framing side and Two layers fixed vertically on the furring channel on the other side as per specified system above. Vertical joints of outer layer should be offset by 600mm from those of the inner layer. Use full height sheets where possible. All sheet joints on the framing side must be fixed over solid timber framing. Sheet end butt joints must be formed over nogs or rails and offset the outer layer joints from the inner layer. Sheets shall be touch fitted. 300mm

#### Fixing of Linings (Non Fire Rated)

March 2025

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

Load Bearing

#### Fixing of Linings (to achieve Fire Rating) Fasteners (As per Specified System Above)

	Resilient	Framing Side	
System Number	1 <sup>st</sup> Layer 2 <sup>nd</sup> Laye		Single Layer
System Number	Self-Tapping [	High Thread Drywall Screws	
E3TRLa30-S30	10mm	10mm	10mm
E3TRLa30-M30	25 x 6g	32 x 6g	41 x 6g
E3TRLa30-S39	13mm	13mm	13mm
	25 x 6g	41 x 6g	41 x 6g

#### **Fastener Centres**

Framing Side: Fix at 300mm centres at sheet perimeter and up each stud.

**Resilient Rail Side:** Fix 300mm centres along each resilient rail. Place fasteners minimum 12mm from sheet edges and sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

Lining screws to be fastened to the side of the studs and nogs, to ensure that they don't penetrate or touch the framing.

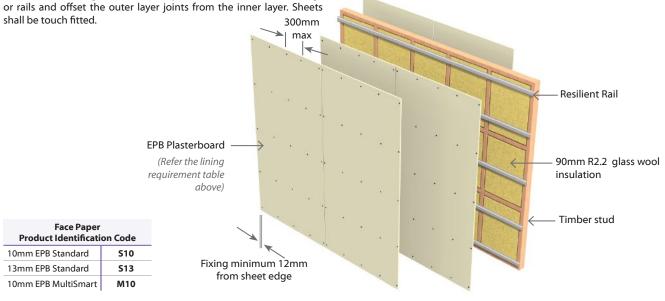
#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing or the inner layer. The single or outer layer is then bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

Inner Layer: Unstopped.

Outer or Single Layer: All fastener heads stopped and all sheet joints reinforced and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



#### Sub Intertenancy **a**coustic

March 2025

Sub Intertenancy **a**coustic

Two Way FRR

#### E3TRLa60

Single <u>T</u>imber Frame with Resilient <u>R</u>ail

**<u>3</u>** Layers: <sup>1</sup> Layer of Plasterboard to Framing side & 2 Layers of Plasterboard to Rail side

	Lining	g FRR Bearing		Control	Lining Dequirement	
System Number	Suffix	FRR	Ability		Rw	Lining Requirement
	-MS39	60/60/60	LB	52	50	Framing Side: 1 x 13mm EPB MultiSmart Rail Side: 2 x 13mm EPB Standard
E3TRLa60	-M39	60/60/60	LB	52	51	Framing Side: 1 x 13mm EPB MultiSmart Rail Side: 2 x 13mm EPB MultiSmart

#### Framing

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

Studs at 600mm centres maximum.

Nogs at 1350mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or nonload bearing partitions. Minimum 90 x 45mm frame dimension.

#### **Minimum Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 130mm.

Stud Depth	Rail	Lining	Suffix	Plasterboard	Total Partition	
90mm	13mm	S39	MS39	39mm	142mm	

#### Wall Sound Absorber

Install Sound Absorber between studs and nogs of the frame. Use 90mm thick R2.2 glass wool insulation.

#### Acoustic Resilient Rail

The Resilient Rail shall be fixed to the studs at 600mm centres using 32mm x 8g wafer head self-tapping screws through the base flange and into each stud. The base flange to face downwards and resilient edge upwards. Channel may be joined by nesting together with no more than 20mm overlap. Fasten through both channels into stud. Highest resilient channel shall be fixed no more than 75mm from the ceiling line and the lowest channel, 50mm from the floor line.

#### Plasterboard Lining

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of EPB Plasterboard lining fixed vertically on framing side and Two layers fixed vertically on the furring channel on the other side as per specified system above. Vertical joints of outer layer should be offset by 600mm from those of the inner layer. Use full height sheets where possible. All sheet joints on the framing side must be fixed over solid timber framing. Sheet end butt joints must be formed over nogs or rails and offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

Load Bearing

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the EPB Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners (As per Specified System Above) Fastener Centres

System Number	Resilient	Framing Side	
	1 <sup>st</sup> Layer 2 <sup>nd</sup> Layer		Single Layer
System Number	Self-Tapping [	High Thread Drywall Screws	
E3TRLa60-MS39	13mm	13mm	13mm
E3TRLa60-M39	25 x 6g	41 x 6g	41 x 6g

Framing Side: Fix at 300mm centres at sheet perimeter and up each stud.

**Resilient Rail Side:** Fix 300mm centres along each resilient rail. Place fasteners minimum 12mm from sheet edges and sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur.

Avoid outer layer screws from hitting inner layer screws.

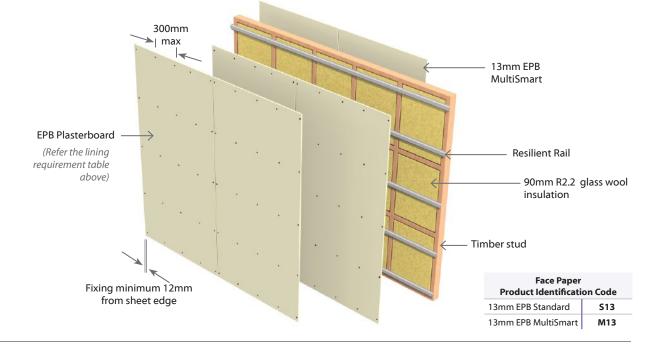
Lining screws to be fastened to the side of the studs and nogs, to ensure that they don't penetrate or touch the framing.

#### Acoustic Sealant

A bead of acoustic sealant is required around the perimeter of the framing or the inner layer. The single or outer layer is then bedded onto the bead. The perimeter junctions of the wall must be airtight. **Jointing** 

#### Inner Layer: Unstopped.

Outer or Single Layer: All fastener heads stopped and all sheet joints reinforced and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



# Sub Intertenancy Steel Frame Walls

March 2025

**Two Way FRR** 

Sub Intertenancy **a**coustic

E2Sa15

#### Single <u>S</u>teel Frame

#### **2** Layers: 1 Layer of Plasterboard to each side of frame

System Number	Lining	FRR	Load Bearing	Noise Control		Lining Requirement
System Number	Suffix	FNN	Ability		Lining Requirement	
E2Sa15	-S20	-/15/15	NLB	40	39	1 x 10mm EPB Standard each side

#### Framing

Steel studs with minimum dimensions  $64mm \times 34mm \times 0.55$  BMT with 6mm return. Channels to be minimum size  $64mm \times 30mm \times 0.55$  BMT and are fixed to floor and ceiling. Studs are placed with a 15mm expansion gap at top of frame. Channel runners are fixed to the floor and ceiling in true alignment. The studs are not directly fixed to channel. The studs are held in place by the grip of the channel runners. No other fixing is to be used. Studs are placed at 600mm centres maximum.

#### Wall Heights

Recommended maximum height is 3.0m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame.

Use 75mm thick R1.8 glass wool blanket.

#### Plasterboard Lining

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of 10mm EPB Standard lining on each side of the steel framing.

Vertical fixing only permitted. Use full height or full length sheets where possible. Sheet edge and butt joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Sheet end butt joints must be formed over nogs. Sheets are fixed hard to the floor. Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners

Non Load Bearing

	Side One	Side Two			
System Number	Single Layer				
	Self-Tapping Drywall Screws				
E26-15 620	10mm	10mm			
E2Sa15-S20	25 x 6g	25 x 6g			

#### **Fastener Centres**

Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

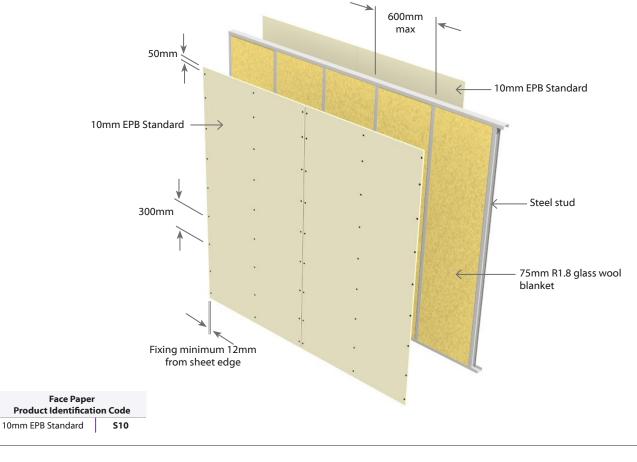
Place fasteners at 200mm centres where sheet end butt joints occur.

#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing and the single layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



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March 2025

Two Way FRR

Sub Intertenancy **a**coustic

#### **<u>2</u>** Layers: 1 Layer of Plasterboard to each side of frame

Single Steel Frame

System Number	Lining FRR		Load Noise Co Bearing		Control	Lining Dequirement
System Number	Suffix	FRR	Ability	STC	Rw	Lining Requirement
E2Sa30	-S26	-/30/30	NLB	41	40	1 x 13mm EPB Standard each side
E25850	-M20	-/30/30	NLB	42	41	1 x 10mm EPB MultiSmart each side

#### Framing

E2Sa30

Steel studs with minimum dimensions  $64mm \times 34mm \times 0.55$  BMT with 6mm return. Channels to be minimum size  $64mm \times 30mm \times 0.55$  BMT and are fixed to floor and ceiling. Studs are placed with a 15mm expansion gap at top of frame. Channel runners are fixed to the floor and ceiling in true alignment. The studs are not directly fixed to channel. The studs are held in place by the grip of the channel runners. No other fixing is to be used. Studs are placed at 600mm centres maximum.

#### Wall Heights

Recommended maximum height is 3.0m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 75mm thick R1.8 glass wool blanket.

#### **Plasterboard Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of EPB Plasterboard lining as per specified system above on each side of the steel framing.

Vertical fixing only permitted. Use full height or full length sheets where possible. Sheet edge and butt joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Sheet end butt joints must be formed over nogs. Sheets are fixed hard to the floor. Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the EPB Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners (As per Specified System Above)

Non Load Bearing

	Side One	Side Two Single Layer				
System Number	Single Layer					
	Self-Tapping Drywall Screws					
E2Sa30-M20	10mm	10mm				
E25a30-M20	25 x 6g	25 x 6g				
F25-20-525	13mm	13mm				
E2Sa30-S26	25 x 6g	25 x 6g				

#### **Fastener Centres**

Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

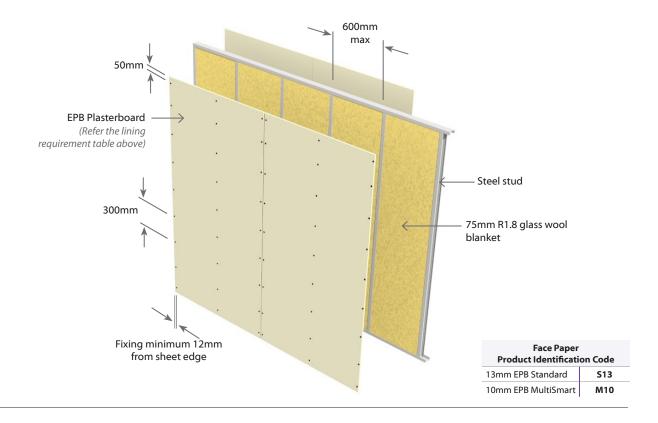
Place fasteners at 200mm centres where sheet end butt joints occur.

#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing and the single layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



Non Load Bearing

March 2025

**Two Way FRR** 

Sub Intertenancy **a**coustic

## E3Sa30 Single <u>Steel</u> Frame

**<u>3</u>** Layers: 1 Layer of Plasterboard to one side of frame & 2 Layers of Plasterboard to other side of frame

System Number	Lining	FRR	Load Noise Control Bearing		Control	Lining Requirement
System Number	Suffix	FAA	Ability	STC	Rw	
	-S33	-/30/30	NLB	43	42	1 x 13mm EPB Standard one side 2 x 10mm EPB Standard other side
E3Sa30	-S39	-/30/30	NLB	44	42	1 x 13mm EPB Standard one side 2 x 13mm EPB Standard other side
	-M30	-/30/30	NLB	44	43	1 x 10mm EPB MultiSmart one side 2 x 10mm EPB MultiSmart other side

#### Framing Non Load Bearing Systems

Steel studs with minimum dimensions  $64mm \times 34mm \times 0.55$  BMT with 6mm return. Channels to be minimum size  $64mm \times 30mm \times 0.55$  BMT and are fixed to floor and ceiling. Studs are placed with a 15mm expansion gap at top of frame. Channel runners are fixed to the floor and ceiling in true alignment. The studs are not directly fixed to channel. The studs are held in place by the grip of the channel runners. No other fixing is to be used. Studs are placed at 600mm centres maximum.

#### Wall Heights

Recommended maximum height is 3.0m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 75mm thick R1.8 glass wool blanket.

#### **Plasterboard Lining**

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of EPB Plasterboard to one side and Two layers to the Other Side as per specified system above.

Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm to those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating)

Fasteners (As per Specified System Above)

	Side	Side Two						
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	Single Layer					
	Self-Tapping Drywall Screws							
E3Sa30-M30	10mm	10mm	10mm					
E33830-14130	25 x 6g	32 x 6g	25 x 6g					
F36-30 633	10mm	10mm	13mm					
E3Sa30-S33	25 x 6g	32 x 6g	25 x 6g					
F36-30 630	13mm	13mm	13mm					
E3Sa30-S39	25 x 6g	41 x 6g	25 x 6g					

#### **Fastener Centres**

Inner Layer: Fix at 600mm centres up each stud with no fixing to top or bottom channel sections.

Outer or Single Layer: Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

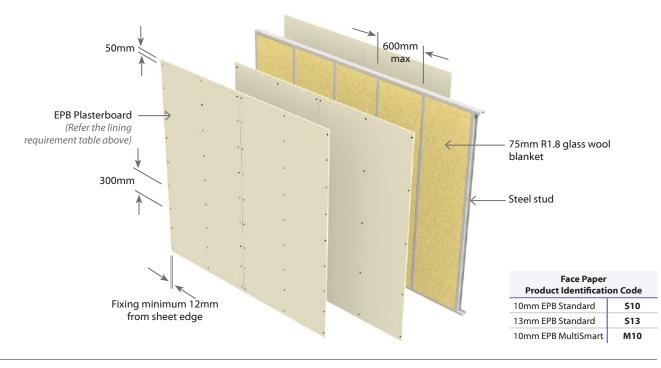
#### **Acoustic Sealant**

A bead of acoustic sealant must be placed on the perimeter of the framing or the inner layer. The single or outer layer is then bedded onto the bead. The perimeter junctions of the wall must be airtight.

## Jointing

#### Inner Layer: Unstopped

Outer or Single Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



#### **Plasterboard Lining**

face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of 10mm EPB Standard linings to each side of the steel framing.

be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners

Non Load Bearing

March 2025

	Side	One	Side two						
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer					
	Self-Tapping Drywall Screws								
F46- 45 640	10mm	10mm	10mm	10mm					
E4Sa45-S40	25 x 6g	32 x 6g	25 x 6g	32 x 6g					

#### **Fastener Centres**

Inner Layer: Fix at 600mm centres up each stud with no fixing to top or bottom channel sections.

Outer Layer: Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm

Place fasteners at 200mm centres where sheet end butt joints occur.

Avoid outer layer screws from hitting inner layer screws.

#### **Acoustic Sealant**

A bead of acoustical sealant is required around the perimeter of the inner layer and the outer layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

Inner Layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.

SUB INTERTENANCY

**<u>4</u>** Layers: 2 Layers of Plasterboard to each side of frame

Suctom Number	Lining FRR		Load Noise Bearing		Control	Lining Poquiromont
System Number	Suffix	FNR	Ability	STC	Rw	Lining Requirement
E4Sa45	-S40	-/45/45	NLB	45	44	2 x 10mm EPB Standard each side

#### **Framing Non Load Bearing Systems**

EPB Noise Control Systems

Steel studs with minimum dimensions 64mm x 34mm x 0.55 BMT with 6mm return. Channels to be minimum size 64mm x 30mm x 0.55 BMT and are fixed to floor and ceiling. Studs are placed with a 15mm expansion gap at top of frame. Channel runners are fixed to the floor and ceiling in true alignment. The studs are not directly fixed to channel. The studs are held in place by the grip of the channel runners. No other fixing is to be used. Studs are placed at 600mm centres maximum.

#### Wall Heights

Recommended maximum height is 3.0m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### Wall Sound Absorber

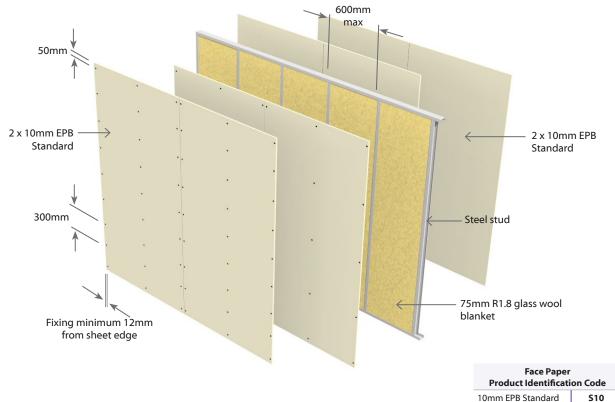
Install Sound Absorber between studs of the frame.

Use 75mm thick R1.8 glass wool blanket.

NB: The installer must look for the Product Identification Code on the

from sheet ends.

Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm to those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall



Sub Intertenancy **a**coustic

Two Way FRR

E2Sa60

#### Single <u>S</u>teel Frame

Non Load Bearing

## Two Way FRR

Sub Intertenancy **a**coustic

## **<u>2</u>** Layers: 1 Layer of Plasterboard to each side of frame

System Number	Lining	FRR	Load Bearing	Noise Control		Lining Requirement
System Number	Suffix	FNN	Ability	STC	Rw	Lining Requirement
E2Sa60	-M26	-/60/60	NLB	43	42	1 x 13mm EPB MultiSmart each side

#### Framing

Steel studs with minimum dimensions 64mm x 34mm x 0.55 BMT with 6mm return. Channels to be minimum size 64mm x 30mm x 0.55 BMT and are fixed to floor and ceiling. Studs are placed with a 15mm expansion gap at top of frame. Channel runners are fixed to the floor and ceiling in true alignment. The studs are not directly fixed to channel. The studs are held in place by the grip of the channel runners. No other fixing is to be used. Studs are placed at 600mm centres maximum.

#### Wall Heights

Recommended maximum height is 3.0m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame.

Use 75mm thick R1.8 glass wool blanket.

#### Plasterboard Lining

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of 13mm EPB MultiSmart lining to each side of the steel framing.

Vertical fixing only permitted. Use full height or full length sheets where possible. Sheet edge and butt joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Sheet end butt joints must be formed over nogs. Sheets are fixed hard to the floor. Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the Elephant Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners

	Side One	Side Two					
System Number	Single Layer						
	Self-Tapping Drywall Screws						
F26-60-M26	13mm						
E2Sa60-M26	25 x 6g						

#### **Fastener Centres**

Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

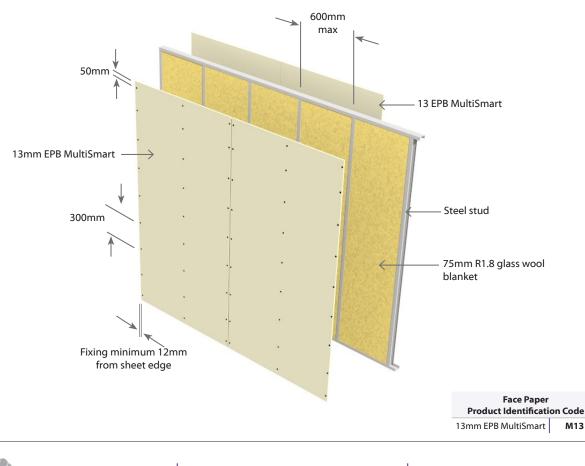
Place fasteners at 200mm centres where sheet end butt joints occur.

#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing and the single layer is bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



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Freephone 0800 353 742

Single **S**teel Frame

March 2025

**Two Way FRR** 

#### Sub Intertenancy acoustic

<b><u>3</u></b> Layers:1 Layer of Plasterboard to one side of the frame & 2 Layers of Plasterboard to other side of the frameSub Intertenancy									
System Number	Lining Suffix	FRR	Load Bearing Ability	Noise ( STC	Control Rw	Lining Requirement			
	-MS39	-/60/60	NLB	44	43	1 x 13mm EPB MultiSmar			

45

44

NLB

#### Framing Non Load Bearing Systems

-M39

Steel studs with minimum dimensions 64mm x 34mm x 0.55 BMT with 6mm return. Channels to be minimum size 64mm x 30mm x 0.55 BMT and are fixed to floor and ceiling. Studs are placed with a 15mm expansion gap at top of frame. Channel runners are fixed to the floor and ceiling in true alignment. The studs are not directly fixed to channel. The studs are held in place by the grip of the channel runners. No other fixing is to be used. Studs are placed at 600mm centres maximum.

-/60/60

#### Wall Heights

E3Sa60

E3Sa60

Recommended maximum height is 3.0m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 75mm thick R1.8 glass wool blanket.

#### **Plasterboard Lining**

NB: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of EPB Plasterboard to one side and Two layers to the Other Side as per specified system above.

Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm to those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the EPB Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph. Fixing of Linings (to achieve Fire Rating)

#### Fasteners (As per Specified System Above) **Fastener Centres**

2 x 13mm FPB Standard other side

1 x 13mm EPB MultiSmart one side

2 x 13mm EPB MultiSmart other side

Inner Layer: Fix at 600mm centres up each stud with no fixing to top or

Non Load Bearing

	Side	Side Two						
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	Single Layer					
	Self-Tapping Drywall Screws							
E3Sa60-MS39	13mm	13mm	13mm					
E3Sa60-M39	25 x 6g	41 x 6g	25 x 6g					

#### bottom channel sections.

Outer or Single Layer: Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

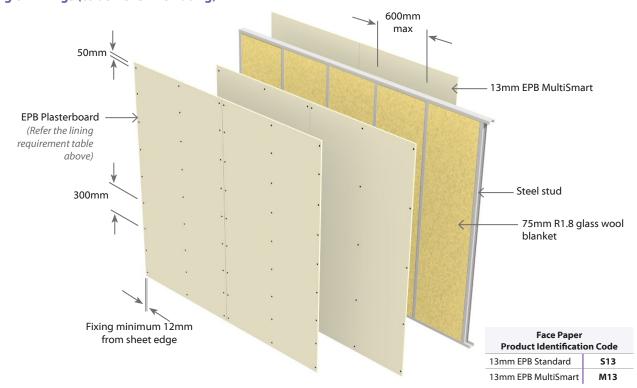
#### **Acoustic Sealant**

A bead of acoustic sealant must be placed on the perimeter of the framing or the inner layer. The single or outer layer is then bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

#### Inner Layer: Unstopped

Outer or Single Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



Non Load Bearing

March 2025

**Two Way FRR** 

Sub Intertenancy **a**coustic

#### E4Sa60

#### 4 Layers: 2 Layers of Plasterboard to each side of frame

Single Steel Frame

Custom Number	Lining FRR		Load Bearing	Noise Control		Lining Requirement
System Number	Suffix	FAA	Ability	STC	Rw	Lining requirement
	-S46	-/60/60	NLB	46	45	1 x 10mm EPB Standard & 1 x 13mm EPB Standard each side
E4Sa60	-\$52	-/60/60	NLB	48	47	2 x 13mm EPB Standard each side
	-M40	-/60/60	NLB	48	47	2 x 10mm EPB MultiSmart each side

#### Framing Non Load Bearing Systems

Steel studs with minimum dimensions 64mm x 34mm x 0.55 BMT with 6mm return. Channels to be minimum size 64mm x 30mm x 0.55 BMT and are fixed to floor and ceiling. Studs are placed with a 15mm expansion gap at top of frame. Channel runners are fixed to the floor and ceiling in true alignment. The studs are not directly fixed to channel. The studs are held in place by the grip of the channel runners. No other fixing is to be used. Studs are placed at 600mm centres maximum.

#### Wall Heights

Recommended maximum height is 3.0m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 75mm thick R1.8 glass wool blanket.

#### **Plasterboard Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of EPB Plasterboard to one side and Two layers to the Other side as per specified system above.

Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm to those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the EPB Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners (As per Specified System Above)

	Side	One	Side two						
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer					
	Self-Tapping Drywall Screws								
E4Sa60-M40	10mm	10mm	10mm	10mm					
E43400-INI40	25 x 6g	32 x 6g	25 x 6g	32 x 6g					
E4Sa60-S46	10mm	13mm	10mm	13mm					
E45800-540	25 x 6g	41 x 6g	25 x 6g	41 x 6g					
F45-60 652	13mm	13mm	13mm	13mm					
E4Sa60-S52	25 x 6g	41 x 6g	25 x 6g	41 x 6g					

#### **Fastener Centres**

Inner Layer: Fix at 600mm centres up each stud with no fixing to top or bottom channel sections.

Outer Layer: Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

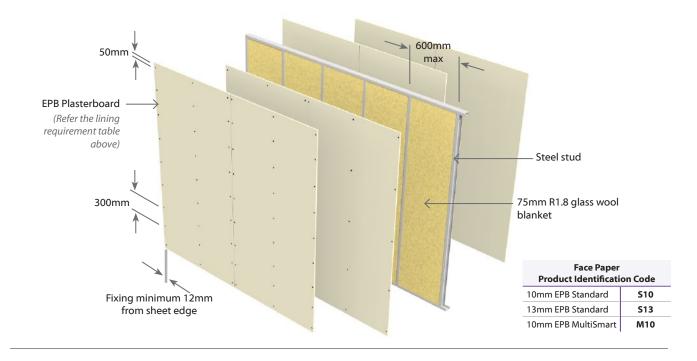
#### **Acoustic Sealant**

A bead of acoustic sealant must be placed on the perimeter of the framing or the inner layer. The outer layer is then bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

Inner Layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



Single Steel Frame

March 2025

Two Way FRR

Sub Intertenancy **a**coustic

#### 4 Layers: 2 Layers of Plasterboard to each side of frame

	System Number	Lining Suffix	FRR	Load Noise Bearing		Control	Lining Requirement
			FNN	Ability	STC	Rw	Lining Requirement
	E4Sa90	-M46	-/90/90	NLB	50	49	1 x 10mm EPB MultiSmart & 1 x 13mm EPB MultiSmart each side

#### Framing Non Load Bearing Systems

Steel studs with minimum dimensions  $64mm \times 34mm \times 0.55$  BMT with 6mm return. Channels to be minimum size  $64mm \times 30mm \times 0.55$  BMT and are fixed to floor and ceiling. Studs are placed with a 15mm expansion gap at top of frame. Channel runners are fixed to the floor and ceiling in true alignment. The studs are not directly fixed to channel. The studs are held in place by the grip of the channel runners. No other fixing is to be used. Studs are placed at 600mm centres maximum.

#### Wall Heights

E4Sa90

Recommended maximum height is 3.0m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame.

Use 75mm thick R1.8 glass wool blanket.

#### Plasterboard Lining

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of 10mm EPB MultiSmart and One layer of 13mm EPB MultiSmart to each side of the steel framing.

Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm to those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

#### **Fixing of Linings (Non Fire Rated)**

Fix the linings as per the EPB Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners

Non Load Bearing

	Side	One	Side Two							
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer						
	Self-Tapping Drywall Screws									
E4Sa90-M46	10mm	13mm	10mm	13mm						
E45890-IVI46	25 x 6g	41 x 6g	25 x 6g	41 x 6g						

#### **Fastener Centres**

Inner Layer: Fix at 600mm centres up each stud with no fixing to top or bottom channel sections.

Outer Layer: Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur.

Avoid outer layer screws from hitting inner layer screws.

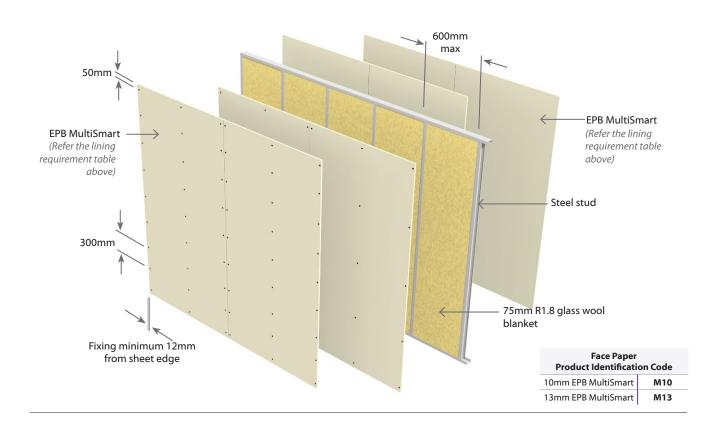
#### **Acoustic Sealant**

A bead of acoustic sealant must be placed on the perimeter of the framing or the inner layer. The outer layer is then bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

#### Inner Layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



March 2025

**Two Way FRR** 

Sub Intertenancy **a**coustic

E4Sa105

Single <u>S</u>teel Frame

#### 4 Layers: 2 Layers of Plasterboard to each side of frame

System Number	Lining	FRR B	Load Noise Bearing Ability STC	Noise (	Control	Lining Requirement
System Number	Suffix				Rw	
E4Sa105	-M52	-/105/105	NLB	52	51	2 x 13mm EPB MultiSmart each side

#### Framing Non Load Bearing Systems

Steel studs with minimum dimensions 64mm x 34mm x 0.55 BMT with 6mm return. Channels to be minimum size 64mm x 30mm x 0.55 BMT and are fixed to floor and ceiling. Studs are placed with a 15mm expansion gap at top of frame. Channel runners are fixed to the floor and ceiling in true alignment. The studs are not directly fixed to channel. The studs are held in place by the grip of the channel runners. No other fixing is to be used. Studs are placed at 600mm centres maximum.

#### Wall Heights

Recommended maximum height is 3.0m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 75mm thick R1.8 glass wool blanket.

Use / Smith thick R1.8 glass wool blanket.

#### Plasterboard Lining

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of 13mm EPB MultiSmart to each side of the steel framing. Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm to those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners

Non Load Bearing

	Side	One	Side Two							
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer						
	Self-Tapping Drywall Screws									
E46-105 ME2	13mm	13mm	13mm	13mm						
E4Sa105-M52	25 x 6g	41 x 6g	25 x 6g	41 x 6g						

#### Fastener Centres

Inner Layer: Fix at 600mm centres up each stud with no fixing to top or bottom channel sections.

Outer Layer: Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur.

#### Avoid outer layer screws from hitting inner layer screws.

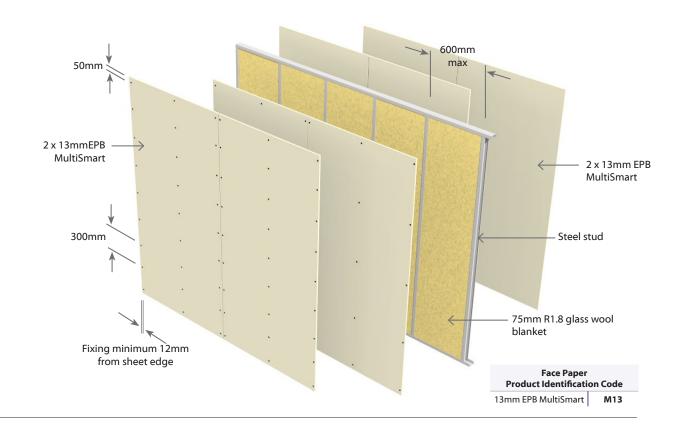
#### **Acoustic Sealant**

A bead of acoustic sealant must be placed on the perimeter of the framing or the inner layer. The outer layer is then bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

#### Inner Layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



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Freephone 0800 353 742

Single Steel Frame

March 2025

Two Way FRR

Sub Intertenancy **a**coustic

#### **<u>2</u>** Layers: 1 Layer of Plasterboard to each side of frame

System Number	Lining	EBB I		Load Noise Control		Lining Requirement	
System Number	Suffix	FRR	Ability	STC	Rw	Lining Requirement	
E2SLa30	-M26	30/30/30	LB	43	42	1 x 13mm EPB MultiSmart each side	

#### Framing

E2SLa30

Any steel frame designed to meet structural criteria for strength and serviceability under dead and live loads.

Stud width shall be 35mm minimum.

Stud spacing's at 600 centres maximum.

Frame heights as determined by specific design.

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame.

Use 75mm thick R1.8 glass wool blanket.

#### **Plasterboard Lining**

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of 13mm EPB MultiSmart lining on each side of the steel framing.

Vertical fixing only permitted. Use full height or full length sheets where possible. Sheet edge and butt joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Sheet end butt joints must be formed over nogs. Sheets are fixed hard to the floor. Sheets shall be touch fitted.

#### **Fixing of Linings (Non Fire Rated)**

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

# Fixing of Linings (to achieve Fire Rating)

	Side One	Side Two			
System Number	Single Layer	Single Layer			
	Self-Tapping Drywall Screws				
E261 - 20 M26	13mm	13mm			
E2SLa30-M26	25 x 6g	25 x 6g			

Load Bearing

#### **Fastener Centres**

Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

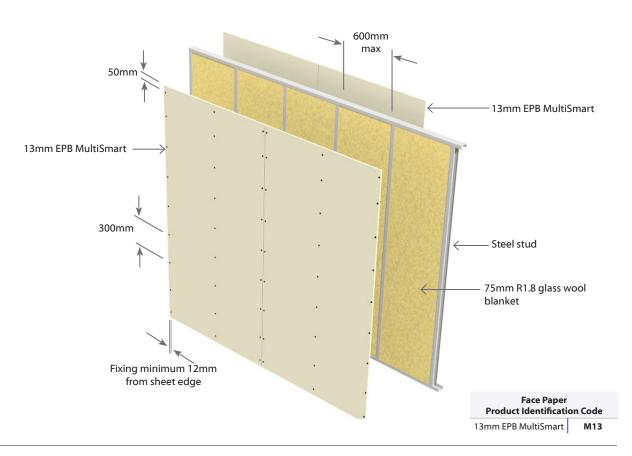
Place fasteners at 200mm centres where sheet end butt joints occur

#### Acoustic Sealant

A bead of acoustic sealant is required around the perimeter of the framing and the single layer is bedded into the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



March 2025

**Two Way FRR** 

#### E3SLa30

Single <u>S</u>teel Frame

**<u>3</u>** Layers: <sup>1</sup> Layer of Plasterboard to one side of frame & 2 Layers of Plasterboard to other side of frame

#### Sub Intertenancy <u>a</u>coustic

System Number	Lining	FRR	Load Bearing	Noise (	Control	Lining Requirement
System Number	Suffix	Suttiv	Ability	STC Rw	Lining requirement	
E3SLa30	-M39	30/30/30	LB	45	44	1 x 13mm EPB MultiSmart one side 2 x 13mm EPB MultiSmart other side

#### Framing

Any steel frame designed to meet structural criteria for strength and serviceability under dead and live loads.

Stud width shall be 35mm minimum.

Stud spacing's at 600 centres maximum.

Frame heights as determined by specific design.

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame.

Use 75mm thick R1.8 glass wool blanket.

#### **Plasterboard Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of 13mm EPB MultiSmart lining on one side and Two layers of 13mm EPB MultiSmart on the other side of the steel framing.

Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm to those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners

	Side	Side Two					
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	Single Layer				
	Self-Tapping Drywall Screws						
F261 - 20 M20	13mm	13mm	13mm				
E3SLa30-M39	25 x 6g	25 x 6g					

Load Bearing

#### Fastener Centres

Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

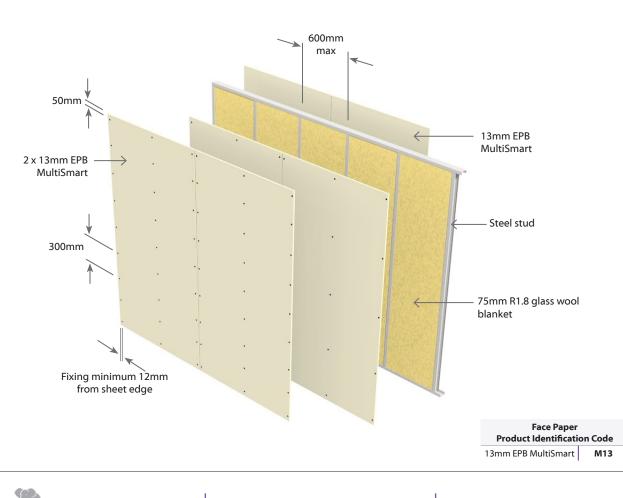
Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing and the single layer is bedded into the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



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Single Steel Frame

March 2025

Two Way FRR

Sub Intertenancy **a**coustic

4 Layers: 2 Layers of Plasterboard to each side of frame

Load **Noise Control** Lining FRR Bearing System Number **Lining Requirement** Suffix STC Rw Ability E4SLa30 -S40 30/30/30 LB 45 44 2 x 10mm EPB Standard each side

#### Framing

E4SLa30

Any steel frame designed to meet structural criteria for strength and serviceability under dead and live loads.

Stud width shall be 35mm minimum.

Stud spacing's at 600 centres maximum.

Frame heights as determined by specific design.

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame.

Use 75mm thick R1.8 glass wool blanket.

#### **Plasterboard Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of 10mm EPB Standard to each side of the steel framing.

Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm to those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners

	Side	One	Side Two							
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer						
	Self-Tapping Drywall Screws									
E4SLa30-S40	10mm	10mm	10mm	10mm						
E45La30-540	25 x 6g	32 x 6g	25 x 6g	32 x 6g						

Load Bearing

#### **Fastener Centres**

Inner Layer: Fix at 600mm centres up each stud with no fixing to top or bottom channel sections.

Outer Layer: Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur.

Avoid outer layer screws from hitting inner layer screws.

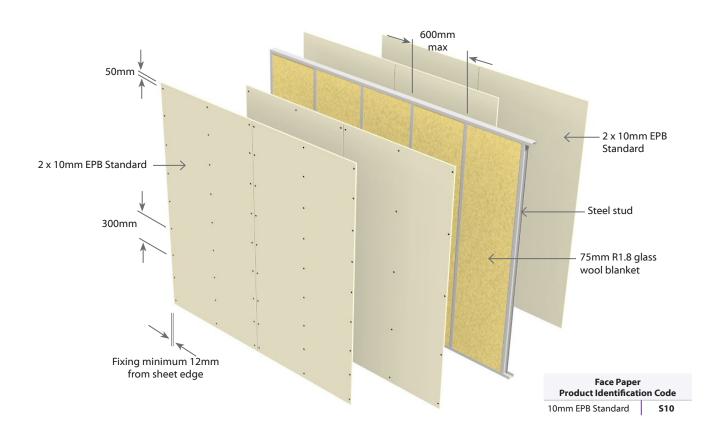
#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing and the single layer is bedded into the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

Inner Layer: Unstopped

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



Freephone 0800 353 742

March 2025

Two Way FRR

E4SLa45

# **<u>4</u>** Layers: 2 Layers of Plasterboard to each side of frame

Single Steel Frame

Sub Intertenancy **a**coustic

System Number	Lining FRR Suffix	EDD	Load Bearing	Noise Control		Lining Requirement
System Number		FRR	Ability	STC	Rw	
E4SLa45	-\$52	45/45/45	LB	48	47	2 x 13mm EPB Standard each side
C43L843	-M40	45/45/45	LB	48	47	2 x 10mm EPB MultiSmart each side

#### Framing

Any steel frame designed to meet structural criteria for strength and serviceability under dead and live loads.

Stud width shall be 35mm minimum.

Stud spacing's at 600 centres maximum.

Frame heights as determined by specific design.

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 75mm thick R1.8 glass wool blanket.

#### **Plasterboard Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of EPB Plasterboard to one side and Two layers to the Other side as per specified system above.

Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm to those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

#### **Fixing of Linings (Non Fire Rated)**

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners (As per Specified System Above)

	Side	One	Side Two							
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer						
	Self-Tapping Drywall Screws									
E4SLa45-S52	13mm	13mm	13mm	13mm						
E45L845-552	25 x 6g	41 x 6g	25 x 6g	41 x 6g						
F461 - 45 M40	10mm	10mm	10mm	10mm						
E4SLa45-M40	25 x 6g	32 x 6g	25 x 6g	32 x 6g						

Load Bearing

#### **Fastener Centres**

Inner Layer: Fix at 600mm centres up each stud with no fixing to top or bottom channel sections.

Outer Layer: Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

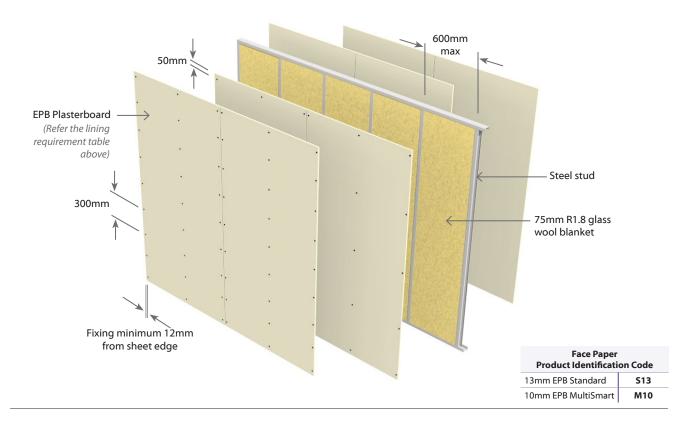
#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing and the single layer is bedded into the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

Inner Layer: Unstopped

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



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Single Steel Frame

March 2025

Two Way FRR

4 Layers: 2 Layers of Plasterboard to each side of frame

Sub Intertenancy **a**coustic

System Number	Lining Epr		g FRR Bearing		Control	Lining Poquiroment
System Number	Suffix	FKK	Ability	STC	Rw	Lining Requirement
E4SLa60	-M52	60/60/60	LB	52	51	2 x 13mm EPB MultiSmart each side

#### Framing

E4SLa60

Any steel frame designed to meet structural criteria for strength and serviceability under dead and live loads.

Stud width shall be 35mm minimum.

Stud spacing's at 600 centres maximum.

Frame heights as determined by specific design.

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 75mm thick R1.8 glass wool blanket.

Use 75mm thick R1.8 glass wool bi

#### Plasterboard Lining

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of 13mm EPB MultiSmart linings fixed to each side of the steel framing.

Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm to those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners (As per Specified System Above)

	Side	One	Side Two			
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer		
	Self-Tapping Drywall Screws					
546L - 60 M50	13mm	13mm	13mm	13mm		
E4SLa60-M52	25 x 6g	41 x 6g	25 x 6g	41 x 6g		

Load Bearing

#### **Fastener Centres**

Inner Layer: Fix at 600mm centres up each stud with no fixing to top or bottom channel sections.

Outer Layer: Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

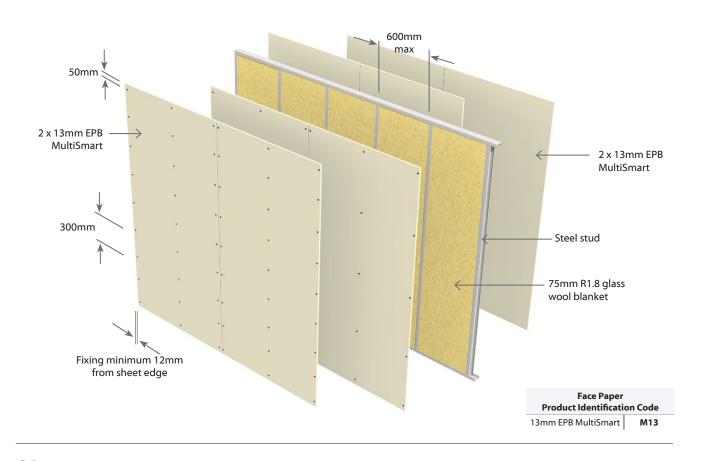
#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing and the single layer is bedded into the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

#### Inner Layer: Unstopped

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



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March 2025

**Two Way FRR** 

Sub Intertenancy **a**coustic

#### E4SLa90

Single <u>S</u>teel Frame

#### **<u>4</u>** Layers: 2 Layers of Plasterboard to each side of frame

Load **Noise Control** Lining Bearing FRR System Number **Lining Requirement** Suffix STC Rw Ability E4SLa90 -F64 90/90/90 LB 53 52 2 x 16mm EPB FireSmart each side

#### Framing

Any steel frame designed to meet structural criteria for strength and serviceability under dead and live loads.

Stud width shall be 35mm minimum.

Stud spacing's at 600 centres maximum.

Frame heights as determined by specific design.

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame.

Use 75mm thick R1.8 glass wool blanket.

#### **Plasterboard Lining**

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of 16mm EPB FireSmart linings fixed to each side of the steel framing.

Vertical fixing only permitted. Use full height sheets where possible. Inner layer joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm to those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

## Fixing of Linings (to achieve Fire Rating)

Side	One	Side Two				
1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer			
Self-Tapping Drywall Screws						
16mm	16mm	16mm	16mm			
32 x 6g	51 x 7g	32 x 6g	51 x 7g			
	1 <sup>st</sup> Layer 16mm	Self-Tapping D 16mm 16mm	1 <sup>st</sup> Layer         2 <sup>nd</sup> Layer         1 <sup>st</sup> Layer           Self-Tapping Drywall Screws           16mm         16mm			

Load Bearing

#### **Fastener Centres**

Inner Layer: Fix at 600mm centres up each stud with no fixing to top or bottom channel sections.

Outer Layer: Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

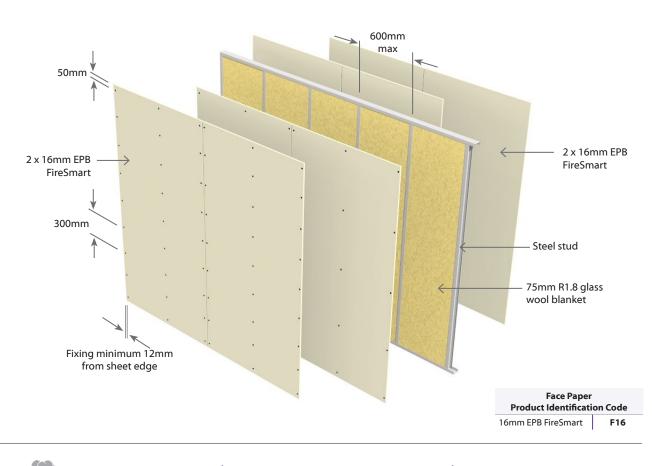
#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing and the single layer is bedded into the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

#### Inner Layer: Unstopped

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



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March 2025

Two Way FRR

Double Steel Frame

Sub Intertenancy **a**coustic

System Number	Lining FRR		Load Noise ( Bearing		Control	Lining Demoissment
System Number	Suffix Fi	FRR	Ability	STC	Rw	Lining Requirement
E2SDa30	-S26	-/30/30	NLB	52	51	1 x 13mm EPB Standard each side
E25Da30	-M20	-/30/30	NLB	52	51	1 x 10mm EPB MultiSmart each side

#### Framing

E2SDa30

**Double Frame** - Steel studs to be of minimum dimension 64mm x 34mm x 0.55 BMT with a 6mm return.

Tracks to be minimum dimension 64mm x 30mm x 0.55 BMT.

Top & bottom tracks are fixed to the floor and ceiling in true alignment. Studs are placed at 600mm centres maximum. Studs aligned. Place studs to allow the nominated expansion gap (minimum 15mm)

at the top of frame. The studs are not directly fixed to the tracks. The studs are held in place by the grip of the track runners.

#### Wall Heights

Recommended maximum height is 2.7m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### **Minimum Partition Width**

Space between Frames shall be a minimum of 25mm in order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 153mm. Increasing the partition width would increase STC performance as per the table below.

Stud Size	Spaces Between Frames	Partition Width (Excludes Board)	STC Rating
64mm	25mm Min	153mm	+0
64mm	77mm Min	205mm	+2

#### Wall Sound Absorber

Install Sound Absorber between studs on one side of the double frame. Use 75mm thick R1.8 glass wool blanket.

#### **Plasterboard Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of EPB Plasterboard lining as per specified system above on each side of the double steel framing.

Vertical fixing only permitted. Use full height or full length sheets where possible. Sheet edge and butt joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Sheet end butt joints must be formed over nogs. Sheets are fixed hard to the floor. Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners (As per Specified System Above)

Non Load Bearing

	Side One	Side Two			
System Number	Single				
	Self-Tapping D	Drywall Screws			
E2SDa30-M20	10mm	10mm			
E25Da30-IVI20	25 x 6g	25 x 6g			
F26D-20 626	13mm	13mm			
E2SDa30-S26	25 x 6g	25 x 6g			

#### **Fastener Centres**

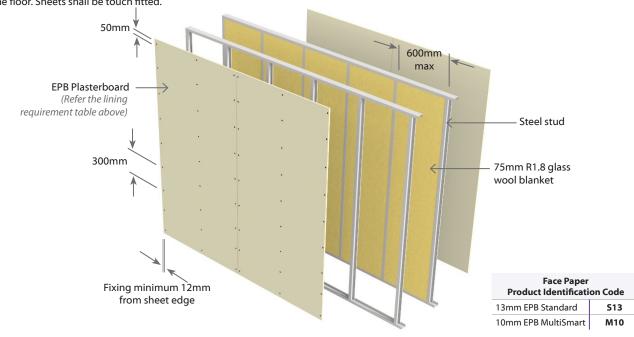
Fix at 300mm centres up each stud with no fixing to top and bottom channel sections. Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing and the single layer is bedded into the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



Freephone 0800 353 742

Non Load Bearing

March 2025

Two Way FRR

Sub Intertenancy **a**coustic

### E3SRa30

# **3** Layers: <sup>1</sup> Layer of Plasterboard to Framing side&

Steel Frame with Resilient Rail

2 Layers of Plasterboard to Rail side

System Number	Lining		Load	Noise control		Linian Demoissment	
System Number	Suffix	FRR	J		Rw	Lining Requirement	
E3SRa30	-S39	-/30/30	NLB	51	50	Framing Side: 1 x 13mm EPB Standard Rail Side: 2 x 13mm EPB Standard	
ESSRASU	-M30	-/30/30	NLB	51	50	Framing Side: 1 x 10mm EPB MultiSmart Rail Side: 2 x 10mm EPB MultiSmart	

#### Framing

Steel studs with minimum dimensions  $64mm \times 34mm \times 0.55$  BMT with 6mm return. Tracks to be minimum size  $64mm \times 30mm \times 0.55$  BMT and are fixed to floor and ceiling in true alignment. Studs are placed at 600mm centres maximum. Studs are placed with a 15mm expansion gap at top of frame. The studs are not directly fixed to the tracks. The studs are held in place by the grip of the channel runners. No other fixing is to be used.

#### Wall Heights

Recommended maximum height is 2.7m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### **Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 77mm.

Stud Depth	Rail	Lining Suffix	Plasterboard	Total Partition
C Array	12	M30	30mm	107mm
64mm	13mm	\$39	39mm	116mm

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 75mm thick R1.8 glass wool blanket.

#### **Acoustic Resilient Rail**

The resilient rail shall be fixed to the studs at 600mm centres using 32mm x 8g wafer head self tapping screws through the base flange and into each stud. The base flange to face downwards and resilient edge upwards. Channel may be joined by nesting together with no more than 20mm overlap. Fasten through both channels into stud. Highest resilient channel shall be fixed no more than 75mm from the ceiling line and the lowest channel, 50mm from the floor line.

#### **Plasterboard Lining**

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

**Framing Side:** One layer of EPB Plasterboard lining fixed vertically. All sheet joints must be fixed over steel framing.

**Resilient Rail Side:** Two layers fixed vertically on the furring channel. Vertical joints of outer layer should be offset by 600mm from those of the inner layer. Use full height sheets where possible. The inner layers are fixed hard to the floor. Sheet end butt joints must be formed over nogs or rails and offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

#### **Fixing of Linings (Non Fire Rated)**

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners (As per Specified System Above)

	Resilient	Framing Side			
System Number	1 <sup>st</sup> Layer 2 <sup>nd</sup> Layer		Single Layer		
	Self-Tapping Drywall Screws				
E3SRa30-M30	10mm	10mm	10mm		
E35Ka30-MI30	25 x 6g	32 x 6g	25 x 6g		
E3SRa30-S39	13mm	13mm	13mm		
	25 x 6g	32 x 6g	25 x 6g		

#### **Fastener Centres**

**Framing Side:** Fix at 300mm centres up each stud with no fixing to top or bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

**Resilient Rail Side:** Fix 300mm centres on all furring channels on other side.

Place fasteners minimum 12mm from sheet edges and sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

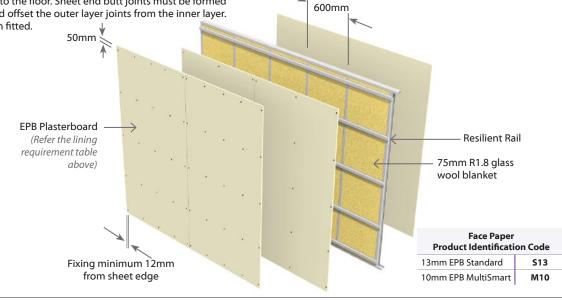
#### Acoustic Sealant

A bead of acoustic sealant must be placed on the perimeter of the framing or the inner layer. The single or outer layer is then bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

Inner Layer: Unstopped

Outer or Single Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



Steel Frame with Resilient Rail

March 2025

**Two Way FRR** 

#### Sub Intertenancy **a**coustic

	<u>3</u> Layers: <sup>1</sup> Layer 2 Layer	of Plasters of Plast	erboard to Frar erboard to Rai	ning si il side	de &			Sub Intertena
	System Number	Lining Suffix	FRR	Load Bearing Ability		Control Rw	Lining Requirement	
_			1					

#### -MS39 -/60/60 NLB 52 E3SRa60 -M39 -/60/60 NLB 53

#### Framing

E3SRa60

Steel studs with minimum dimensions 64mm x 34mm x 0.55 BMT with 6mm return. Tracks to be minimum size 64mm x 30mm x 0.55 BMT and are fixed to floor and ceiling in true alignment. Studs are placed at 600mm centres maximum. Studs are placed with a 15mm expansion gap at top of frame. The studs are not directly fixed to the tracks. The studs are held in place by the grip of the channel runners. No other fixing is to be used.

#### Wall Heights

Recommended maximum height is 2.7m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### **Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 77mm.

Stud Depth	Rail	Lining Suffix	Plasterboard	Total Partition
6.4	12	MS30	20	116.00.00
64mm	13mm	M39	39mm	116mm

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame.

Use 75mm thick R1.8 glass wool blanket.

#### Acoustic Resilient Rail

The resilient Rail shall be fixed to the studs at 600mm centres using 32mm x 8g wafer head self tapping screws through the base flange and into each stud. The base flange to face downwards and resilient edge upwards. Channel may be joined by nesting together with no more than 20mm overlap. Fasten through both channels into stud. Highest resilient channel shall be fixed no more than 75mm from the ceiling line and the lowest channel, 50mm from the floor line.

#### Plasterboard Lining

NB: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Framing Side: One layer of EPB Plasterboard lining fixed vertically. All sheet joints must be fixed over steel framing.

Resilient Rail Side: Two layers fixed vertically on the furring channel. Vertical joints of outer layer should be offset by 600mm from those of the inner layer. Use full height sheets where possible. The inner layers are fixed hard to the floor.

2	Rw	Lining Requirement
	51	Framing Side: 1 x 13mm EPB MultiSmart Rail Side: 2 x 13mm EPB Standard
	52	Framing Side: 1 x 13mm EPB MultiSmart Rail Side: 2 x 13mm EPB MultiSmart

Non Load Bearing

Sheet end butt joints must be formed over nogs or rails and offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners (As per Specified System Above)

System Number	Resilient	Framing Side			
	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	Single Layer		
	Self-Tapping Drywall Screws				
E3SRa60-MS39	13mm	13mm	13mm		
E3SRa60-M39	25 x 6g	41 x 6g	25 x 6g		

#### Fastener Centres

Framing Side: Fix at 300mm centres up each stud with no fixing to top or bottom channel sections. Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

Resilient Rail Side: Fix 300mm centres on all furring channels on other side.

Place fasteners minimum 12mm from sheet edges and sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

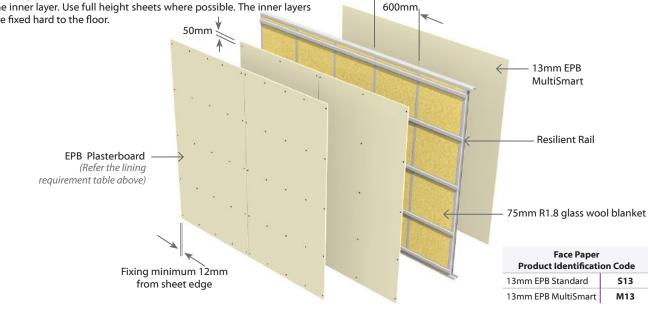
#### Acoustic Sealant

A bead of acoustic sealant must be placed on the perimeter of the framing or the inner layer. The single or outer layer is then bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

#### Inner Layer: Unstopped

Outer or Single Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



Non Load Bearing

March 2025

Two Way FRR

E2SQa30

#### **Q**uiet **S**teel Frame

**2** Layers: 1 Layer of Plasterboard to each side of frame

Sub Intertenancy **a**coustic

Sustan Number	Lining		Lining FRR Bearing		Control	Lining Demuirement
System Number	Suffix	ffix FRR Bearing Linin Ability STC Rw		Rw	Lining Requirement	
E250-20	-S26	-/30/30	NLB	47	46	1 x 13mm EPB Standard each side
E2SQa30	-M20	-/30/30	NLB	48	47	1 x 10mm EPB MultiSmart each side

#### Framing

**Quiet Steel Frame** – Channels to be 92mm x 30mm x 0.55 BMT and are fixed to floor and ceiling. Quiet Steel studs 92mm x 45mm x 0.55 BMT are friction fitted and placed at 600mm centres with a 15mm expansion gap at top of frame.

No fixings to the top channel allowed.

#### **Wall Heights**

Recommended maximum height is 3.6m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### **Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 92mm.

Stud Size	Lining Suffix	Plasterboard	<b>Total Partition</b>
02	M20	20mm	112mm
92mm	S26	26mm	118mm

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame.

Use 90mm thick R2.2 glass wool blanket.

#### **Plasterboard Lining**

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of EPB Plasterboard lining as per table above on each side of the Quiet steel framing.

Vertical fixing only permitted. Use full height or full length sheets where possible. Sheet edge and butt joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Sheet end butt joints must be formed over nogs. Sheets are fixed hard to the floor. Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners (As per Specified System Above)

	Side One	Side Two Single Layer		
System Number	Single Layer			
	Self-Tapping Drywall Screws			
E2SOa30-M20	10mm	10mm		
E23Q830-IVI20	25 x 6g	25 x 6g		
5250-20 526	13mm	13mm		
E2SQa30-S26	25 x 6g	25 x 6g		

#### **Fastener Centres**

Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

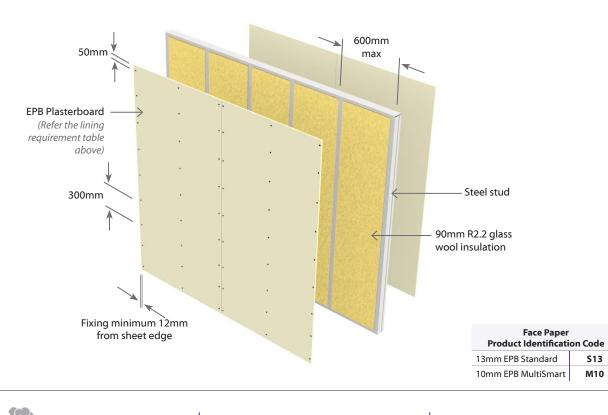
Place fasteners at 200mm centres where sheet end butt joints occur

#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the steel framing and the single layer is bedded into the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



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Non Load Bearing

**Two Way FRR** 

Sub Intertenancy **a**coustic

	2 Layer	Sub Intertenancy <u>a</u> coustic							
	System Number	Lining	FRR	Load Noise Control			Lining Requirement		
	System Number	Suffix	FNN	Bearing Ability STC Rw		Lining Requirement			
	E3SQa30	-\$39	-/30/30	NLB	53	52	1 x 13mm EPB Standard 2 x 13mm EPB Standard		
		-M30	-/30/30	NLB	53	52	1 x 10mm EPB MultiSma 2 x 10mm EPB MultiSma		

#### Framing

E3SQa30

Quiet Steel Frame - Channels to be 92mm x 30mm x 0.55 BMT and are fixed to floor and ceiling. Quiet Steel studs 92mm x 45mm x 0.55 BMT are friction fitted and placed at 600mm centres with a 15mm expansion gap at top of frame.

Quiet Steel Frame

**3** Layers: 1 Layer of Plasterboard to one side of the frame &

No fixings to the top channel allowed.

EPB Noise Control Systems

#### Wall Heights

Recommended maximum height is 3.6m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### **Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 92mm.

Stud Size	Lining Suffix	Plasterboard	<b>Total Partition</b>
02	M30	30mm	122mm
92mm	\$39	39mm	131mm

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame.

Use 90mm thick R2.2 glass wool blanket.

#### **Plasterboard Lining**

NB: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of EPB Plasterboard lining on one side and Two layers on the other side as per specified system above.

Vertical fixing only permitted. Vertical joints of the outer layer should be offset by 600mm from those of the inner layer. Use full height sheets where possible. The inner layers are fixed hard to the floor. All sheet joints must be fixed over steel framing. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the Elephant Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners (As per Specified System Above)

	Side	Side Two				
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	Single Layer			
	Self-Tapping Drywall Screws					
5260-20 M20	10mm	10mm	10mm			
E3SQa30-M30	25 x 6g	32 x 6g	25 x 6g			
E3SQa30-S39	13mm	13mm	13mm			
	25 x 6g	41 x 6g	25 x 6g			

#### **Fastener Centres**

Inner layer: Fix at 600mm centres up all studs.

Single or Outer Layer: Fix at 300mm centres up all studs.

Place fasteners 12mm from the sheet edge and 50mm from sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the steel framing and the single layer is bedded into the bead. The perimeter junctions of the wall must be airtight.

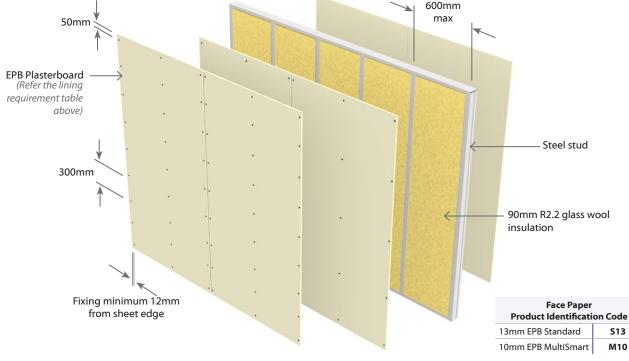
#### Jointing

#### Inner Layer: Unstopped

Outer or Single Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with Elephant Plasterboard Installation Guide.

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Version update: March 2025



SUB INTERTENANCY

March 2025

Non Load Bearing

Two Way FRR

E3SQa45

Quiet Steel Frame

**3** Layers: <sup>1</sup> Layer of Plasterboard to one side of the frame & 2 Layers of Plasterboard to other side of the frame

Sub Intertenancy **a**coustic

System Number	Lining	FRR	Load Noise Control RR Bearing		Control	Lining Requirement
System Number	Suffix	Ability	STC	Rw	Lining Requirement	
E3SQa45	-MS33	-/45/45	NLB	52	51	1 x 13mm EPB MultiSmart one side 2 x 10mm EPB Standard other side

#### Framing

Quiet Steel Frame - Channels to be 92mm x 30mm x 0.55 BMT and are fixed to floor and ceiling. Quiet Steel studs 92mm x 45mm x 0.55 BMT are friction fitted and placed at 600mm centres with a 15mm expansion gap at top of frame.

No fixings to the top channel allowed.

#### **Wall Heights**

Recommended maximum height is 3.6m. Higher walls may be subject to specific engineering design or consult the framing manufacturer. **Partition Width** 

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 92mm.

Stud Size	Lining Suffix	Plasterboard	<b>Total Partition</b>
92mm	MS33	33mm	125mm

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame.

Use 90mm thick R2.2 glass wool blanket.

#### **Plasterboard Lining**

NB: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of 13mm EPB MultiSmart lining fixed on one side and Two layers of 10mm EPB Standard linings fixed on the other side of the quiet steel framing.

Vertical fixing only permitted. Vertical joints of the outer layer should be offset by 600mm from those of the inner layer. Use full height sheets where possible. The inner layers are fixed hard to the floor. All sheet joints must be fixed over steel framing. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners

	Side	Side Two				
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	Single Layer			
	Self-Tapping Drywall Screws					
E3SQa45-MS330	10mm	10mm	13mm			
	25 x 6g	25 x 6g				

#### **Fastener Centres**

Inner layer: Fix at 600mm centres up all studs.

Single or Outer Layer: Fix at 300mm centres up all studs.

Place fasteners 12mm from the sheet edge and 50mm from sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

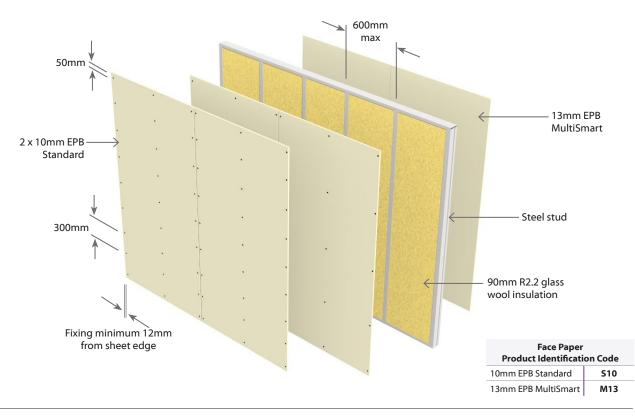
#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the steel framing and the single layer is bedded into the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

#### Inner Layer: Unstopped

Outer or Single Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



March 2025

**Two Way FRR** 

Sub Intertenancy **a**coustic

#### 2 Layers: 1 Layer of Plasterboard to each side of frame

Quiet Steel Frame

System Number	Lining	FRR	Load Noise Control		Control	Lining Requirement
System Number	Suffix	Ability	STC Rw	Lining Requirement		
E2SQa60	-M26	-/60/60	NLB	50	49	1 x 13mm EPB MultiSmart each side

#### Framing

E2SQa60

Quiet Steel Frame - Channels to be 92mm x 30mm x 0.55 BMT and are fixed to floor and ceiling. Quiet Steel studs 92mm x 45mm x 0.55 BMT are friction fitted and placed at 600mm centres with a 15mm expansion gap at top of frame.

No fixings to the top channel allowed.

#### Wall Heights

Recommended maximum height is 3.6m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### **Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 92mm.

Stud Size	Lining Suffix	Plasterboard	<b>Total Partition</b>
92mm	M26	26mm	118mm

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame.

Use 90mm thick R2.2 glass wool blanket.

#### **Plasterboard Lining**

NB: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of 13mm EPB MultiSmart lining fixed on each side of the Ouiet steel framing.

Vertical fixing only permitted. Use full height sheets where possible. Sheets are fixed hard to the floor. All sheet joints must be fixed over steel framing. Sheet end butt joints must be formed over nogs. Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners

Non Load Bearing

	Side One	Side Two Single Layer	
System Number	Single Layer		
	Self-Tapping Drywall Screws		
E2SQa60-M26	13mm	13mm	
	25 x 6g	25x 6g	

#### **Fastener Centres**

Fix at 300mm centres up each stud with no fixing to top and bottom channel sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

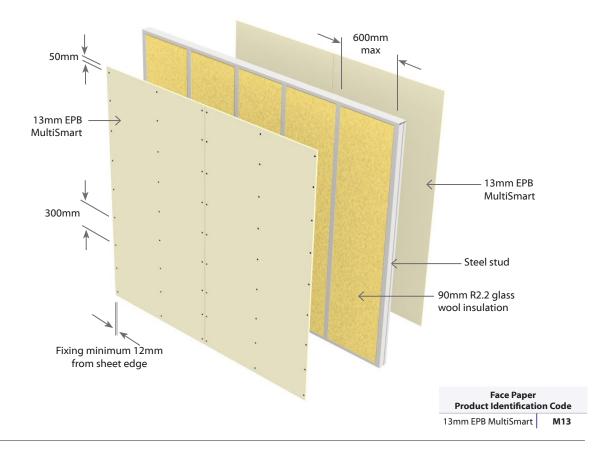
Place fasteners at 200mm centres where sheet end butt joints occur.

#### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the steel framing and the single layer is bedded into the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



Non Load Bearing

March 2025

**Two Way FRR** 

### E2SSa30 <u>S</u>taggered <u>S</u>teel Frame

#### 2 Layers: 1 Layer of Plasterboard to each side of frame

Sub Intertenancy **a**coustic

System Number	Lining	EDD	RR Bearing Ability STC		Control	Lining Requirement
System Number	Suffix	FRR			Rw	Lining Requirement
E2SSa30	-S26	-/30/30	NLB	50	49	1 x 13mm EPB Standard each side
E255830	-M20	-/30/30	NLB	49	48	1 x 10mm EPB MultiSmart each side

#### Framing

**Staggered Steel Frame** – Tracks to be a minimum size of 92mm x 30mm x 0.55 BMT and are fixed to floor and ceiling. Steel studs with minimum dimensions  $64 \times 34$ mm x 0.55 BMT with 6mm return. Stud to be fixed to the tracks using Staggered Stud Clip and placed at 600mm centres with a 15mm expansion gap at top of frame. No other fixings to track are allowed. Studs to be offset 300mm centres.

#### Wall Heights

Recommended maximum height is 2.4m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### **Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 92mm.

Track Depth	Lining Suffix	Plasterboard	<b>Total Partition</b>
02	M20	20mm	112mm
92mm	S26	26mm	118mm

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 75mm thick R1.8 glass wool blanket. Split 600mm wide blankets into 300mm.

#### Plasterboard Lining

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of EPB Plasterboard lining to each side of Staggered Steel frame as per specified system above.

Vertical fixing only permitted. Use full height sheets where possible. All sheet joints must be fixed over steel framing.

Sheet end butt joints must be formed over nogs. Sheets are fixed hard to the floor. Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners (As per Specified System Above)

	Side One	Side Two		
System Number	Single Layer	Single Layer		
	Self-Tapping D	Self-Tapping Drywall Screws		
E2SSa30-M20	10mm	10mm		
	25 x 6g	25 x 6g		
E2SSa30-S26	13mm	13mm		
	25 x 6g	25 x 6g		

#### **Fastener Centres**

Fix at 300mm centres up each stud with no fixing to top and bottom tracks.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

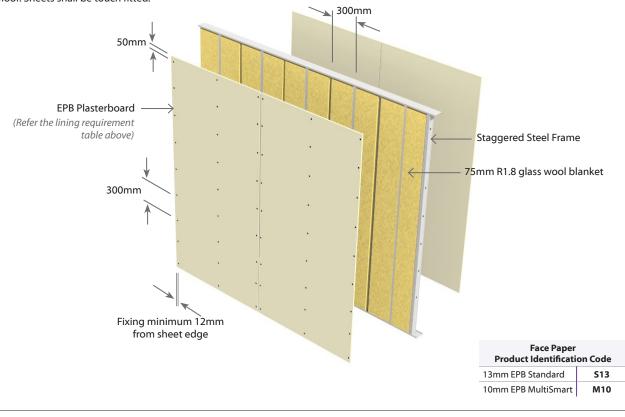
Place fasteners at 200mm centres where sheet end butt joints occur.

#### **Acoustic Sealant**

A bead of acoustic sealant must be placed on the perimeter of the framing. The single or outer layer is then bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



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March 2025

#### Two Way FRR

Sub Intertenancy **a**coustic

#### 2 Layers: 1 Layer of Plasterboard to each side of frame

<u>Staggered</u> Steel Frame

Load **Noise Control** Lining System Number FRR Bearing **Lining Requirement** Suffix STC Rw Ability -M26 -/60/60 NLB 1 x 13mm EPB MultiSmart each side 52 51 E2SSa60 -F32 -/60/60 NLB 54 53 1 x 16mm EPB FireSmart each side

#### Framing

E2SSa60

**Staggered Steel Frame** – Tracks to be a minimum size of 92mm x 30mm x 0.55 BMT and are fixed to floor and ceiling. Steel studs with minimum dimensions  $64 \times 34$ mm x 0.55 BMT with 6mm return. Stud to be fixed to the tracks using Staggered Stud Clip and placed at 600mm centres with a 15mm expansion gap at top of frame. No other fixings to track are allowed. Studs to be offset 300mm centres.

#### Wall Heights

Recommended maximum height is 2.4m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

#### **Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 92mm.

Track Depth	Lining Suffix	Plasterboard	<b>Total Partition</b>
92mm	M26	26mm	118mm
92mm	F32	32mm	124mm

#### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 75mm thick R1.8 glass wool blanket. Split 600mm wide blankets into 300mm.

#### Plasterboard Lining

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of EPB Plasterboard lining to each side of Staggered Steel frame as per specified system above.

Vertical fixing only permitted. Use full height sheets where possible. All sheet joints must be fixed over steel framing.

Sheet end butt joints must be formed over nogs. Sheets are fixed hard to the floor. Sheets shall be touch fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing of Linings (to achieve Fire Rating) Fasteners (As per Specified System Above)

Non Load Bearing

-asteners (As per Specified System Above)

	Side One	Side Two		
System Number	Single Layer	Single Layer		
	Self-Tapping Drywall Screws			
E2SSa60-M26	13mm	13mm		
	25 x 6g	25 x 6g		
E2SSa60-F32	16mm	16mm		
	32 x 6g	32 x 6g		

#### **Fastener Centres**

Fix at 300mm centres up each stud with no fixing to top and bottom tracks.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

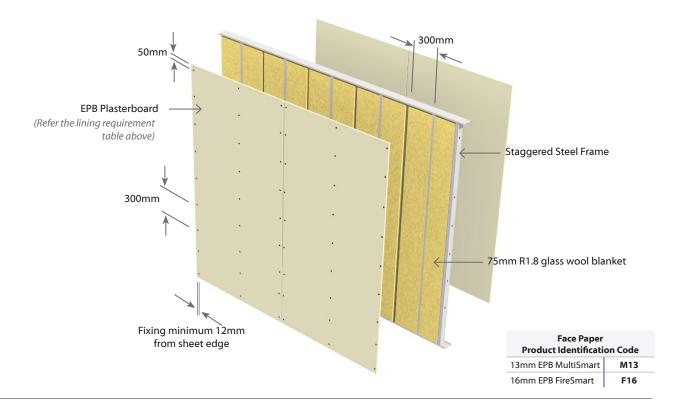
Place fasteners at 200mm centres where sheet end butt joints occur.

#### **Acoustic Sealant**

A bead of acoustic sealant must be placed on the perimeter of the framing. The single or outer layer is then bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with EPB Plasterboard Installation Guide.



Freephone 0800 353 742

# Sub Intertenancy Floor/Ceiling Systems

March 2025

#### E1DFa15

Direct Fix Clip - Floor/Ceiling

<u>Load</u> Bearing

Sub Intertenancy **a**coustic

1 Layer: 1 Layer of Plasterboard to underside of framing

Load **Noise Control** Lining Bearing System Number FRR **Lining Requirement** Suffix STC Rw IIC\* Ability E1DFa15 -S13 15/15/15 LB 48 47 43-69 1 x 13mm EPB Standard (back blocked)

#### Framing

Timber floor joists shall comply with NZS3604 with a minimum depth of 190 x 45mm and spaced at no more than 600mm centres. Alternatively, a proprietary I-joist system may be used subject to specific structural design and approved by the normal building consent process.

Consult the joist manufacturer regarding construction of the solid blocking contained in the floor/ceiling to wall junctions.

#### Flooring

Flooring shall be 20mm thick particle board of 17mm thick structural ply, fixed to the joists as per manufacturer's instructions. Flooring sheet joints must have a polypropylene tongue and groove jointer or be formed over framing.

#### **Acoustic Clip and Battens**

The Acoustic Clip shall be fastened to the joists at 1200mm centres maximum (and no less than 900mm centres) to support the metal ceiling battens. They are spaced at 600mm centres maximum. Use 3 x 32mm x 8g Wafer Head screws. Insert first screw into the middle rubber grommet. Adjust clip to correct height. Then insert remaining two screws. Do not over tighten.

A minimum 10mm gap is recommended between the flange of the ceiling batten and the underside of the joist.

#### **Ceiling Sound Absorber**

Install Sound Absorber between joists above the metal ceiling battens. Use minimum 90mm thick R2.2 glass wool Acoustic insulation.

#### Plasterboard Lining

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of 13mm EPB Standard fixed at right angles to the metal ceiling battens. All sheet end butt joints shall occur on the battens. For fire rated systems, joints formed by sheet edges shall be back blocked between furring channels with strips of plasterboard equivalent to the lining thickness used and with a minimum width 300mm. They shall be adhered with a cove or cornice bond adhesive. Sheets shall be touched fitted.

#### **Fixing of Linings (Non Fire Rated)**

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing the Lining (to achieve Fire Rating) Fasteners

Custom Number	Single Layer	
System Number	Self-Tapping Drywall Screws	
E1DFa15-S13	13mm	
	25 x 6g	

#### **Fastening Centres**

Ceiling sheets shall be fixed at 200mm centres along each metal ceiling batten.

Fix butt ends at 100mm centres. Fasteners to be placed no closer than 12mm from sheet edge.

#### Acoustic Sealant

A bead of fire retardant acoustic sealant is required around the ceiling perimeter.

#### Wall/Ceiling Junction

The internal angle between the ceilings and walls must be protected by Cornice or square stopped corners taped and filled in accordance with EPB Plasterboard Installation Guide.

#### Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped in accordance with the publication entitled EPB Plasterboard Installation Guide.

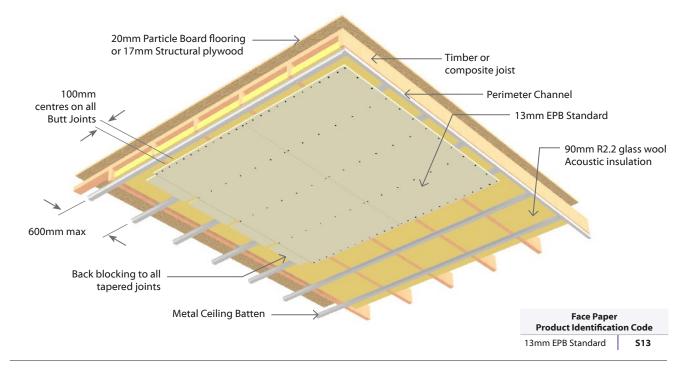
#### \*Impact Insulation Class (IIC)

IIC of 43 is achieved with a bare floor.

IIC of 44 is achieved with loose laid Vinyl.

IIC of 68 is achieved with 40oz loop pile carpet on 8mm foam chip underlay.

IIC of 69 is achieved with 40oz loop pile carpet on waffle underlay.



Sub Intertenancy **a**coustic

#### E2DFa30 Direct Fix Clip - Floor/Ceiling

## **2** Layers: 2 Layers of Plasterboard to underside of framing

Load **Noise Control** Lining Bearing System Number FRR **Lining Requirement** Suffix STC Rw IIC\* Ability E2DFa30 -S26 30/30/30 LB 53 43-69 2 x 13mm EPB Standard 52

#### Framing

Timber floor joists shall comply with NZS3604 with a minimum depth of 190 x 45mm and spaced at no more than 600mm centres. Alternatively, a proprietary I-joist system may be used subject to specific structural design and approved by the normal building consent process.

Consult the joist manufacturer regarding construction of the solid blocking contained in the floor/ceiling to wall junctions.

#### Flooring

Flooring shall be 20mm thick particle board of 17mm thick structural ply, fixed to the joists as per manufacturer's instructions. Flooring sheet joints must have a polypropylene tongue and groove jointer or be formed over framing.

#### **Acoustic Clip and Battens**

The Acoustic Clip shall be fastened to the joists at 1200mm centres maximum (and no less than 900mm centres) to support the metal ceiling battens. They are spaced at 600mm centres maximum. Use 3 x 32mm x 8g Wafer Head screws. Insert first screw into the middle rubber grommet. Adjust clip to correct height. Then insert remaining two screws. Do not over tighten.

A minimum 10mm gap is recommended between the flange of the ceiling batten and the underside of the joist.

#### **Ceiling Sound Absorber**

Install Sound Absorber between joists above the metal ceiling battens. Use minimum 90mm thick R2.2 glass wool Acoustic insulation.

#### Plasterboard Lining

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of 13mm EPB Standard fixed at right angles to the metal ceiling battens. All sheet end butt joints shall occur on the battens. Offset the outer layer by 600mm from that of the inner layer. Sheet joints should be touched fitted.

#### Fixing of Linings (Non Fire Rated)

Fix the linings as per the EPB Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

#### Fixing the Lining (to achieve Fire Rating) Fasteners

Custom Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	
System Number	Self-Tapping Drywall Screws		
E2DFa30-S26	13mm	13mm	
	25 x 6g	41 x 6g	

Load Bearing

#### **Fastening Centres**

Ceiling sheets shall be fixed at 200mm centres along each metal ceiling batten.

Fix butt ends at 100mm centres.

Fasteners to be placed no closer than 12mm from sheet edge.

#### Acoustic Sealant

A bead of fire retardant Acoustic Sealant must be applied around the perimeter of the first layer and the second layer bedded on the bead

#### Wall/Ceiling Junction

The internal angle between the ceilings and walls must be protected by Cornice or square stopped corners taped and filled in accordance with EPB Plasterboard Installation Guide

#### Jointing

Inner layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped in accordance with the publication entitled EPB Plasterboard Installation Guide.

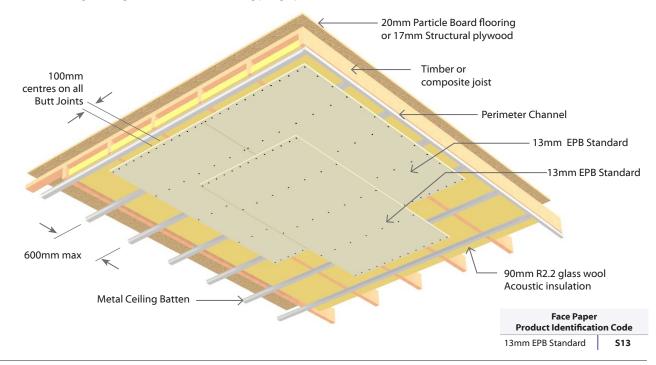
#### \*Impact Insulation Class (IIC)

IIC of 43 is achieved with a bare floor.

IIC of 44 is achieved with loose laid Vinyl.

IIC of 68 is achieved with 40oz loop pile carpet on 8mm foam chip underlay.

IIC of 69 is achieved with 40oz loop pile carpet on waffle underlay.



### E1DFa45

**D**irect **F**ix Clip - Floor/Ceiling

<u>L</u>oad Bearing

Sub Intertenancy **a**coustic

1 Layer: 1 Layer of Plasterboard to underside of framing

Load **Noise Control** Lining Bearing System Number FRR **Lining Requirement** Suffix STC Rw IIC\* Ability E1DFa45 -M13 45/45/45 LB 52 51 43-69 1 x 13mm EPB MultiSmart (back blocked)

### Framing

Timber floor joists shall comply with NZS3604 with a minimum depth of 190 x 45mm and spaced at no more than 600mm centres. Alternatively, a proprietary I-joist system may be used subject to specific structural design and approved by the normal building consent process.

Consult the joist manufacturer regarding construction of the solid blocking contained in the floor/ceiling to wall junctions.

### Flooring

Flooring shall be 20mm thick particle board of 17mm thick structural ply, fixed to the joists as per manufacturer's instructions. Flooring sheet joints must have a polypropylene tongue and groove jointer or be formed over framing.

### **Acoustic Clip and Battens**

The Acoustic Clip shall be fastened to the joists at 1200mm centres maximum (and no less than 900mm centres) to support the metal ceiling battens. They are spaced at 600mm centres maximum. Use 3 x 32mm x 8g Wafer Head screws. Insert first screw into the middle rubber grommet. Adjust clip to correct height. Then insert remaining two screws. Do not over tighten.

A minimum 10mm gap is recommended between the flange of the ceiling batten and the underside of the joist.

### **Ceiling Sound Absorber**

Install Sound Absorber between joists above the metal ceiling battens. Use minimum 90mm thick R2.2 glass wool Acoustic insulation.

### Plasterboard Lining

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of 13mm EPB MultiSmart fixed at right angles to the metal ceiling battens. All sheet end butt joints shall occur on the battens. For fire rated systems, joints formed by sheet edges shall be back blocked between furring channels with strips of plasterboard equivalent to the lining thickness used and with a minimum width 300mm. They shall be adhered with a cove or cornice bond adhesive. Sheets shall be touched fitted.

### **Fixing of Linings (Non Fire Rated)**

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

### Fixing the Lining (to achieve Fire Rating) Fasteners

Custom Number	Single Layer
System Number	Self-Tapping Drywall Screws
E1DFa45-M13	13mm
	25 x 6g

### Fastening Centres

Ceiling sheets shall be fixed at 200mm centres along each metal ceiling batten and around ceiling perimeter.

Fix butt ends at 100mm centres.

Fasteners to be placed no closer than 12mm from sheet edge.

### **Acoustic Sealant**

A bead of fire retardant acoustic sealant is required around the ceiling perimeter.

### Wall/Ceiling Junction

The internal angle between the ceilings and walls must be protected by Cornice or square stopped corners taped and filled in accordance with EPB Plasterboard Installation Guide.

### Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped in accordance with the publication entitled EPB Plasterboard Installation Guide.

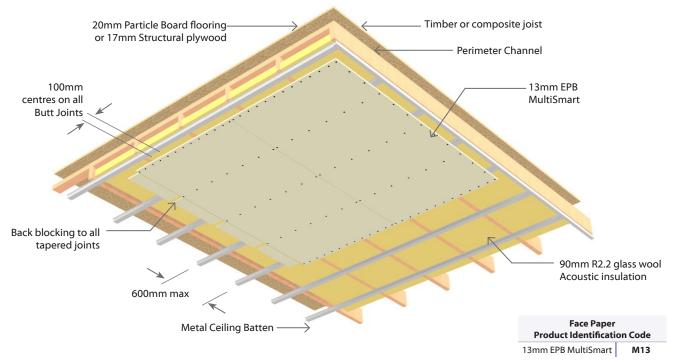
### \*Impact Insulation Class (IIC)

IIC of 43 is achieved with a bare floor.

IIC of 44 is achieved with loose laid Vinyl.

 $\mathsf{IIC}$  of 68 is achieved with 40oz loop pile carpet on 8mm foam chip underlay.

IIC of 69 is achieved with 40oz loop pile carpet on waffle underlay.



SUB INTERTENANCY

March 2025

# E1DFa60 <u>D</u>irect <u>F</u>ix Clip - Floor/Ceiling

### 1 Layer: 1 Layer of Plasterboard to underside of framing

Sub Intertenancy acoustic

System Number	Lining	FRR	Load Bearing	Noise Control			Lining Requirement
System Number	Suffix		Ability	STC	Rw	IIC*	
E1DFa60	-F16	60/60/60	LB	52	51	43-69	1 x 16mm EPB FireSmart (back blocked)

### Framing

Timber floor joists shall comply with NZS3604 with a minimum depth of 190 x 45mm and spaced at no more than 600mm centres. Alternatively, a proprietary I-joist system may be used subject to specific structural design and approved by the normal building consent process.

Consult the joist manufacturer regarding construction of the solid blocking contained in the floor/ceiling to wall junctions.

### Flooring

Flooring shall be 20mm thick particle board of 17mm thick structural ply, fixed to the joists as per manufacturer's instructions. Flooring sheet joints must have a polypropylene tongue and groove jointer or be formed over framing.

### **Acoustic Clip and Battens**

The Acoustic Clip shall be fastened to the joists at 1200mm centres maximum (and no less than 900mm centres) to support the metal ceiling battens. They are spaced at 600mm centres maximum. Use 3 x 32mm x 8g Wafer Head screws. Insert first screw into the middle rubber grommet. Adjust clip to correct height. Then insert remaining two screws. Do not over tighten.

A minimum 10mm gap is recommended between the flange of the ceiling batten and the underside of the joist.

### **Ceiling Sound Absorber**

Install Sound Absorber between joists above the metal ceiling battens. Use minimum 90mm thick R2.2 glass wool Acoustic insulation.

### Plasterboard Lining

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of 16mm EPB FireSmart fixed at right angles to the metal ceiling battens. All sheet end butt joints shall occur on the battens. For fire rated systems, joints formed by sheet edges shall be back blocked between furring channels with strips of plasterboard equivalent to the lining thickness used and with a minimum width 300mm. They shall be adhered with a cove or cornice bond adhesive. Sheets shall be touched fitted.

### **Fixing of Linings (Non Fire Rated)**

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

Load Bearing

### Fixing the Lining (to achieve Fire Rating) Fasteners

Custom Number	Single Layer
System Number	Self-Tapping Drywall Screws
E1DFa60-F16	16mm
	32 x 6g

### **Fastening Centres**

Ceiling sheets shall be fixed at 200mm centres along each metal ceiling batten and around ceiling perimeter.

Fix butt ends at 100mm centres.

Fasteners to be placed no closer than 12mm from sheet edge.

### **Acoustic Sealant**

A bead of fire retardant acoustic sealant is required around the ceiling perimeter.

### Wall/Ceiling Junction

The internal angle between the ceilings and walls must be protected by Cornice or square stopped corners taped and filled in accordance with EPB Plasterboard Installation Guide.

### Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped in accordance with the publication entitled EPB Plasterboard Installation Guide.

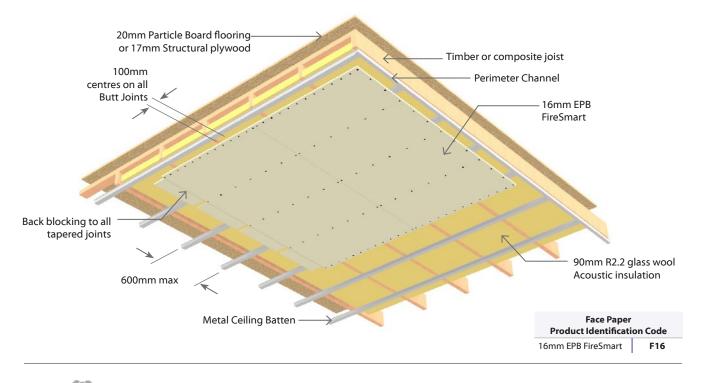
### \*Impact Insulation Class (IIC)

IIC of 43 is achieved with a bare floor.

IIC of 44 is achieved with loose laid Vinyl.

 $\mathsf{IIC}$  of 68 is achieved with 40oz loop pile carpet on 8mm foam chip underlay.

IIC of 69 is achieved with 40oz loop pile carpet on waffle underlay.



### E1SCa15

**S**uspended Grid - Floor/**C**eiling

<u>L</u>oad Bearing

1 Layer: 1 Layer of Plasterboard to underside of framing

Sub Intertenancy **a**coustic

System Number	Lining	FRR	Load Bearing	Noise Control			Lining Requirement
System Number	Suffix	FNN	Ability	STC	Rw	IIC*	
E1SCa15	-S13	15/15/15	LB	48	48 47 39-62		1 x 13mm EPB Standard (back blocked)

### Framing

Timber floor joists shall comply with NZS3604 with a minimum depth of 190 x 45mm and spaced at no more than 600mm centres. Alternatively, a proprietary I-joist system may be used subject to specific structural design and approved by the normal building consent process.

### Flooring

Flooring shall be 20mm thick particle board of 17mm thick structural ply, fixed to the joists as per manufacturer's instructions. Flooring sheet joints must have a polypropylene tongue and groove jointer or be formed over framing.

### **Minimum Cavity Depth**

Acoustic Systems require a minimum of 275mm cavity depth

### **Suspension System**

Rondo ScrewFix<sup>®</sup> steel frame suspension system comprising 2.5mm wire hangers at 1200mm centres supporting F38 strong back channels spaced at a maximum of 1200mm centres and F37 furring channels at 600mm centres.

Alternative suspension systems with equivalent performance characteristics and layout may be used.

Suspended Grid ceiling system to be installed as per manufacturer's specification.

### **Ceiling Sound Absorber**

Install Sound Absorber over the suspension system. Use minimum 90mm thick R2.2 glass wool blanket.

### **Plasterboard Lining**

<u>NB:</u> The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

One layer of 13mm EPB Standard fixed at right angles to the metal furring channels. All sheet butt joints should occur on the furring channel. For fire rated systems, joints formed by sheet edges shall be back blocked between furring channels with strips plasterboard equivalent to the lining thickness used and with a minimum width 300mm. They shall be adhered with a cove or cornice bond adhesive. Sheet joints shall be touched fitted.

### Fixing of Linings (Non Fire Rated)

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

### Fixing the Lining (to achieve Fire Rating) Fasteners

System Number	Single Layer
System Number	Self-Tapping Drywall Screws
E1SCa15-S13	13mm
	25 x 6g

### Fastening Centres

Ceiling sheets shall be fixed at 200mm centres along each furring channel and around the ceiling perimeter.

Fix at 100mm centres where butt joints occur.

Fasteners to be placed no closer than 12mm from sheet edge.

### **Acoustic Sealant**

A bead of fire retardant acoustic sealant is required around the ceiling perimeter.

### Wall/Ceiling Junction

The internal angle between the ceilings and walls must be protected by Cornice or square stopped corners taped and filled in accordance with EPB Plasterboard Installation Guide.

### Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped in accordance with the publication entitled EPB Plasterboard Installation Guide.

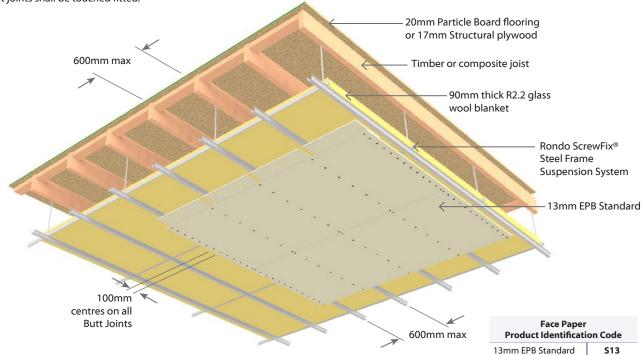
### \*Impact Insulation Class (IIC)

IIC of 39 is achieved with a bare floor.

IIC of 40 is achieved with loose laid Vinyl.

IIC of 60 is achieved with 40oz loop pile carpet on 8mm foam chip underlay.

IIC of 62 is achieved with 40oz loop pile carpet on waffle underlay.



**SUB INTERTENANCY** 

March 2025

E2SCa30

### <u>Suspended Grid - Floor/Ceiling</u>

2 Layers: 2 Layers of Plasterboard to underside of framing

Sub Intertenancy **a**coustic

System Number	Lining	FRR	Load Bearing	Noise Control			Lining Requirement			
	System Number	Suffix	FRR	Ability	ѕтс	Rw	IIC*			
	E2SCa30	Ca30 -S26 30/30/30 LB		53	52	42-67	2 x 13mm EPB Standard (back blocked)			

### Framing

Timber floor joists shall comply with NZS3604 with a minimum depth of 190 x 45mm and spaced at no more than 600mm centres. Alternatively, a proprietary I-joist system may be used subject to specific structural design and approved by the normal building consent process.

### Flooring

Flooring shall be 20mm thick particle board of 17mm thick structural ply, fixed to the joists as per manufacturer's instructions. Flooring sheet joints must have a polypropylene tongue and groove jointer or be formed over framing.

### Minimum Cavity Depth

Acoustic Systems require a minimum of 275mm cavity depth

### **Suspension System**

Rondo ScrewFix<sup>®</sup> steel frame suspension system comprising 2.5mm wire hangers at 1200mm centres supporting F38 strongback channels spaced at a maximum of 1200mm centres and F37 furring channels at 600mm centres.

Alternative suspension systems with equivalent performance characteristics and layout may be used.

Suspended Grid ceiling system to be installed as per manufacturer's specification.

### **Ceiling Sound Absorber**

Install Sound Absorber over the suspension system. Use minimum 90mm thick R2.2 glass wool blanket.

### **Plasterboard Lining**

<u>NB</u>: The installer must look for the Product Identification Code on the face paper to ensure the correct board type is installed. Refer to the Face Paper Product Identification Code table on this page.

Two layers of 13mm EPB Standard fixed at right angles to metal furring channels.Offset the joints of the outer layer by 600mm from those of the inner layer. All sheet butt joints should occur on the furring channel. Sheet joints shall be touched fitted.

### **Fixing of Linings (Non Fire Rated)**

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

Load Bearing

### Fixing the Lining (to achieve Fire Rating) Fasteners

System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer							
System Number	Self-Tapping Drywall Screws								
5255-20.525	13mm	13mm							
E25Ca30-526	25 x 6g	41 x 6g							

### **Fastening Centres**

Ceiling sheets shall be fixed at 200mm centres along each furring channel and around the ceiling perimeter.

Fix at 100mm centres where butt joints occur. Fasteners to be placed no closer than 12mm from sheet edge.

### **Acoustic Sealant**

A bead of Acoustic Sealant must be applied on the inner layer around the perimeter of the ceiling. The outer layer is then bedded into the bead.

### Wall/Ceiling Junction

The internal angle between the ceilings and walls must be protected by Cornice or square stopped corners taped and filled in accordance with EPB Plasterboard Installation Guide.

### Jointing

Inner layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped in accordance with the publication entitled EPB Plasterboard Installation Guide.

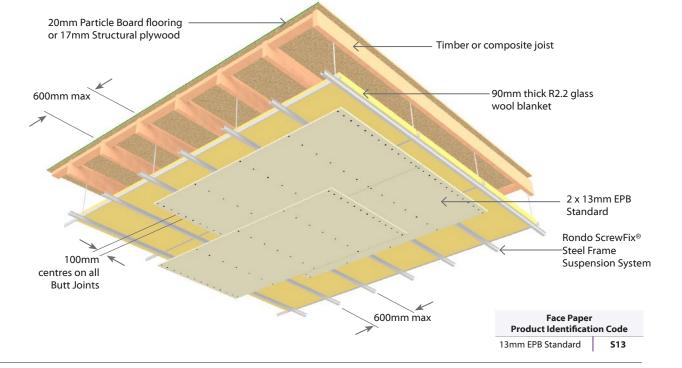
### \*Impact Insulation Class (IIC)

IIC of 42 is achieved with a bare floor.

IIC of 43 is achieved with loose laid Vinyl.

IIC of 66 is achieved with 40oz loop pile carpet on 8mm foam chip underlay.

IIC of 67 is achieved with 40oz loop pile carpet on waffle underlay.



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# **1** Layer: 1 Layer of Plasterboard to underside of framing

Suspended Grid - Floor/Ceiling

Load **Noise Control** Lining Bearing System Number FRR **Lining Requirement** Suffix STC Rw IIC\* Ability E1SCa45 -M13 45/45/45 LB 51 50 43-69 1 x 13mm EPB MultiSmart (back blocked)

### Framing

E1SCa45

Timber floor joists shall comply with NZS3604 with a minimum depth of 190 x 45mm and spaced at no more than 600mm centres. Alternatively, a proprietary I-joist system may be used subject to specific structural design and approved by the normal building consent process.

### Flooring

Flooring shall be 20mm thick particle board of 17mm thick structural ply, fixed to the joists as per manufacturer's instructions. Flooring sheet joints must have a polypropylene tongue and groove jointer or be formed over framing.

### **Minimum Cavity Depth**

Acoustic Systems require a minimum of 275mm cavity depth

### **Suspension System**

Rondo ScrewFix<sup>®</sup> steel frame suspension system comprising 2.5mm wire hangers at 1200mm centres supporting F38 strongback channels spaced at a maximum of 1200mm centres and F37 furring channels at 600mm centres.

Alternative suspension systems with equivalent performance characteristics and layout may be used.

Suspended Grid ceiling system to be installed as per manufacturer's specification.

### **Ceiling Sound Absorber**

Install Sound Absorber over the suspension system. Use minimum 90mm thick R2.2 glass wool blanket.

### Plasterboard Lining

One layer of 13mm EPB MultiSmart fixed at right angles to the metal furring channels. All sheet butt joints should occur on the furring channel. For fire rated systems, joints formed by sheet edges shall be back blocked between furring channels with strips plasterboard equivalent to the lining thickness used and with a minimum width 300mm. They shall be adhered with a cove or cornice bond adhesive. Sheet joints shall be touched fitted.

### **Fixing of Linings (Non Fire Rated)**

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

Load Bearing

Sub Intertenancy acoustic

### Fixing the Lining (to achieve Fire Rating) Fasteners

Custom Number	Single Layer
System Number	Self-Tapping Drywall Screws
F166-45 M12	13mm
E1SCa45-M13	25 x 6g

### **Fastening Centres**

Ceiling sheets shall be fixed at 200mm centres along each furring channel and around the ceiling perimeter.

Fix at 100mm centres where butt joints occur. Fasteners to be placed no closer than 12mm from sheet edge.

### Acoustic Sealant

A bead of fire retardant acoustic sealant is required around the ceiling perimeter.

### Wall/Ceiling Junction

The internal angle between the ceilings and walls must be protected by Cornice or square stopped corners taped and filled in accordance with EPB Plasterboard Installation Guide.

### Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped in accordance with the publication entitled EPB Plasterboard Installation Guide.

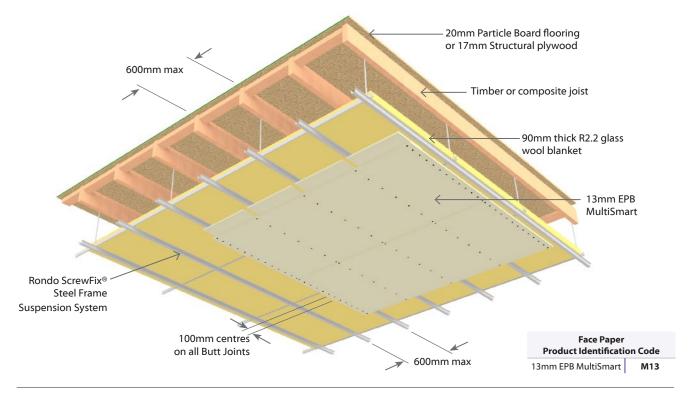
### \*Impact Insulation Class (IIC)

IIC of 43 is achieved with a bare floor.

IIC of 44 is achieved with loose laid Vinyl.

IIC of 68 is achieved with 40oz loop pile carpet on 8mm foam chip underlay.

IIC of 69 is achieved with 40oz loop pile carpet on waffle underlay.



SUB INTERTENANCY

March 2025

E1SCa60Suspended Grid - Floor/Ceiling

1 Layer: 1 Layer of Plasterboard to underside of framing

Sub Intertenancy **a**coustic

System Number	Lining	FRR	Load Bearing	Noise Control			Lining Requirement	
	System Number	Suffix	FKK	Ability	STC	Rw	IIC*	Lining Requirement
	E1SCa60	-F16	F16         60/60/60         LB         52         51         43-69         1 x 16mm EPB FireSmart (back b		1 x 16mm EPB FireSmart (back blocked)			

### Framing

Timber floor joists shall comply with NZS3604 with a minimum depth of 190 x 45mm and spaced at no more than 600mm centres. Alternatively, a proprietary I-joist system may be used subject to specific structural design and approved by the normal building consent process.

### Flooring

Flooring shall be 20mm thick particle board of 17mm thick structural ply, fixed to the joists as per manufacturer's instructions. Flooring sheet joints must have a polypropylene tongue and groove jointer or be formed over framing.

### **Minimum Cavity Depth**

Acoustic Systems require a minimum of 275mm cavity depth

### **Suspension System**

Rondo ScrewFix<sup>®</sup> steel frame suspension system comprising 2.5mm wire hangers at 1200mm centres supporting F38 strongback channels spaced at a maximum of 1200mm centres and F37 furring channels at 600mm centres.

Alternative suspension systems with equivalent performance characteristics and layout may be used.

Suspended Grid ceiling system to be installed as per manufacturer's specification.

### **Ceiling Sound Absorber**

Install Sound Absorber over the suspension system. Use minimum 90mm thick R2.2 glass wool blanket.

### Plasterboard Lining

One layer of 16mm EPB FireSmart fixed at right angles to the metal furring channels. All sheet butt joints should occur on the furring channel. For fire rated systems, joints formed by sheet edges shall be back blocked between furring channels with strips plasterboard equivalent to the lining thickness used and with a minimum width 300mm. They shall be adhered with a cove or cornice bond adhesive. Sheet joints shall be touched fitted.

### **Fixing of Linings (Non Fire Rated)**

Fix the linings as per the EPB Plasterboard Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

Load Bearing

### Fixing the Lining (to achieve Fire Rating) Fasteners

System Number	Single Layer
System Number	Self-Tapping Drywall Screws
E1SCa60-F16	16mm
	32 x 6q

### **Fastening Centres**

Ceiling sheets shall be fixed at 200mm centres along each furring channel and around the ceiling perimeter.

Fix at 100mm centres where butt joints occur. Fasteners to be placed no closer than 12mm from sheet edge.

### **Acoustic Sealant**

A bead of fire retardant acoustic sealant is required around the ceiling perimeter.

### Wall/Ceiling Junction

The internal angle between the ceilings and walls must be protected by Cornice or square stopped corners taped and filled in accordance with EPB Plasterboard Installation Guide.

### Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped in accordance with the publication entitled EPB Plasterboard Installation Guide.

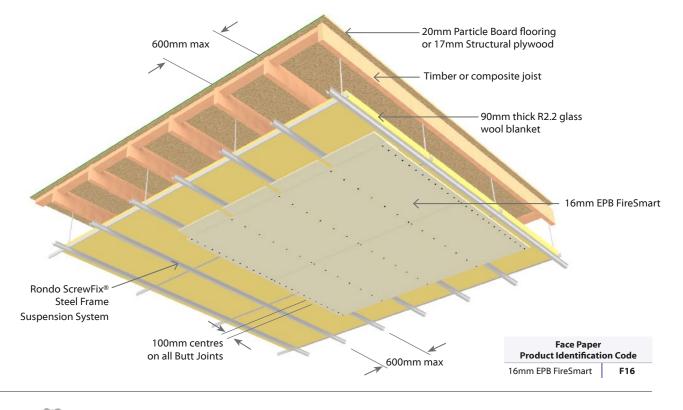
### \*Impact Insulation Class (IIC)

IIC of 43 is achieved with a bare floor.

IIC of 44 is achieved with loose laid Vinyl.

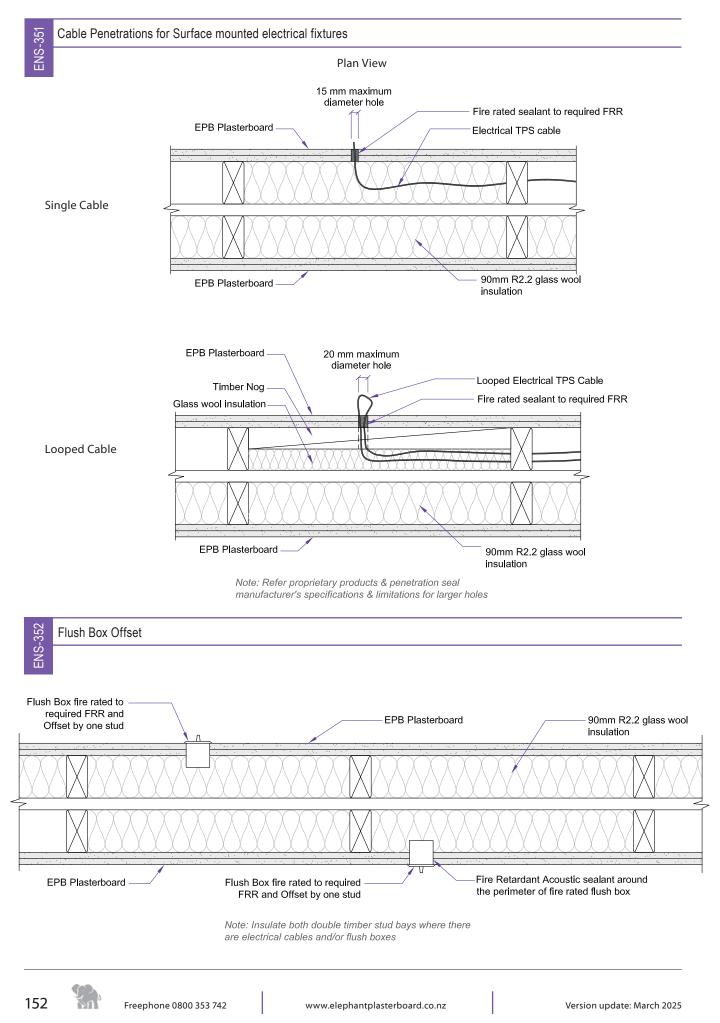
IIC of 68 is achieved with 40oz loop pile carpet on 8mm foam chip underlay.

IIC of 69 is achieved with 40oz loop pile carpet on waffle underlay.



# Construction Details

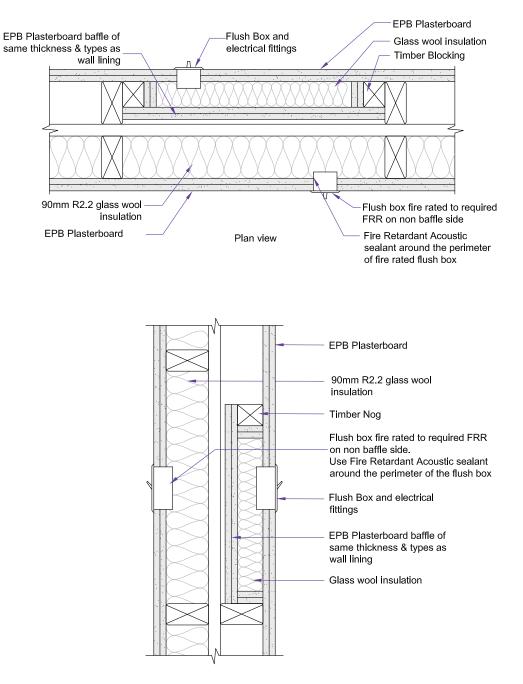
# **Penetration Detail**



Flush Box Back to Back

### **Penetration Detail**



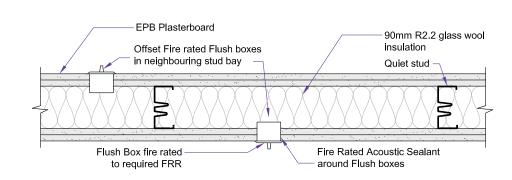


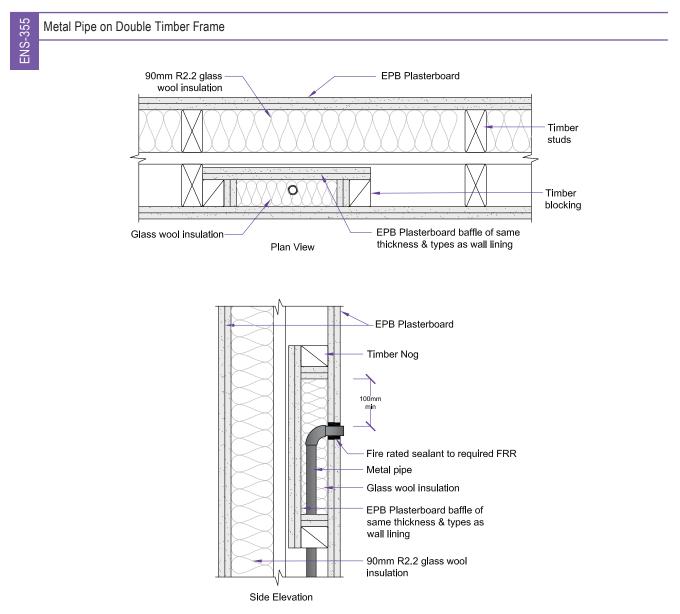
Side Elevation

# **Penetration Detail**

Flush Box Offset with Quiet Stud



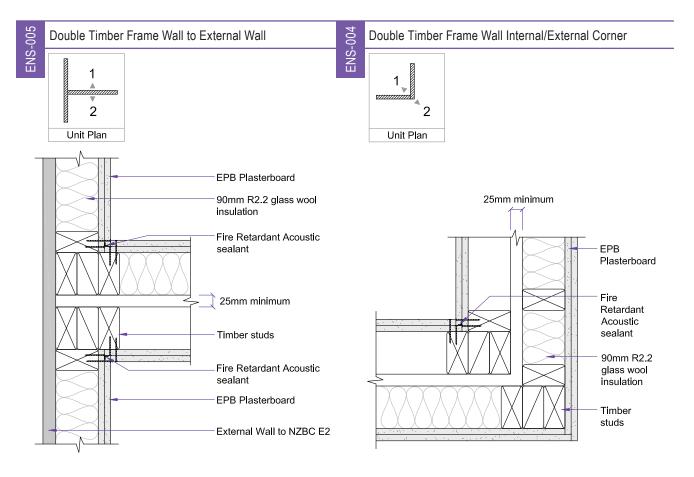


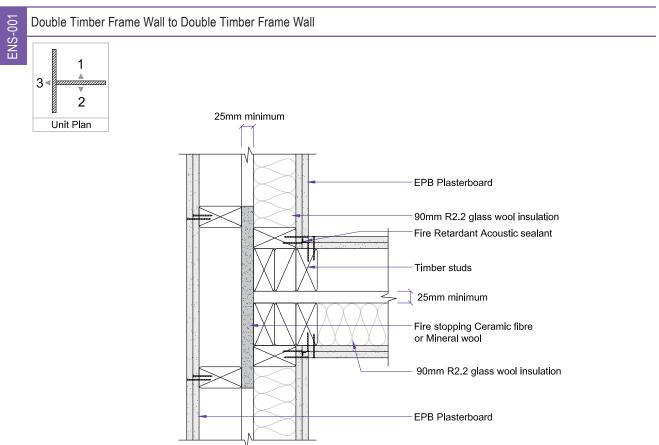


Note: Minimum 10mm gap between pipe and the baffle required

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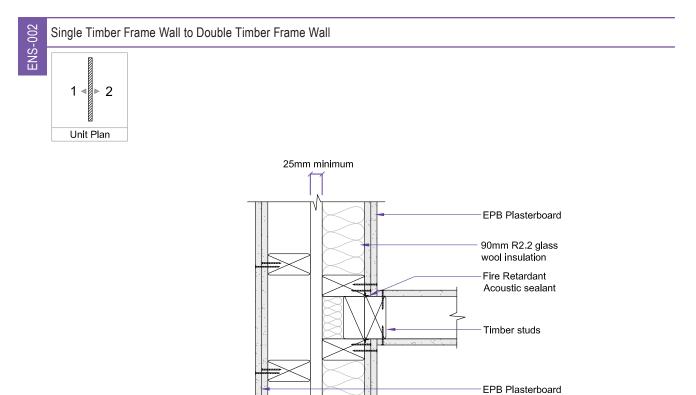
# **Double Timber Frame Wall Junction**

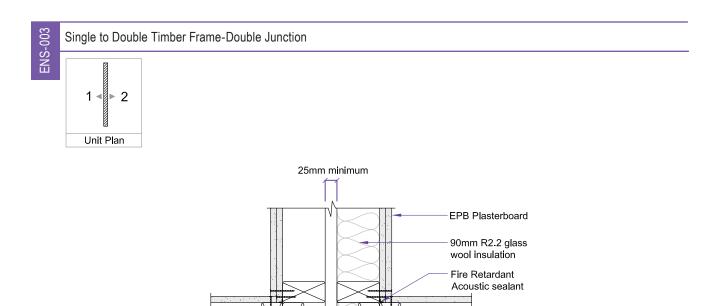




Freephone 0800 353 742

# Single Timber Frame Wall to Double Timber Frame Wall Junction





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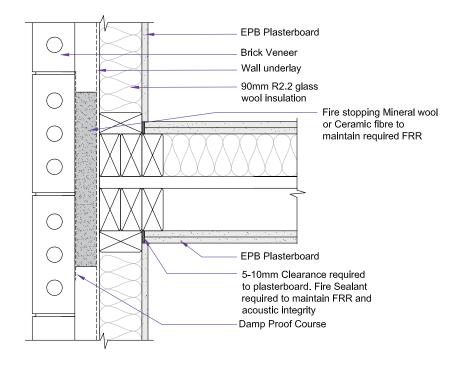
Timber studs

EPB Plasterboard

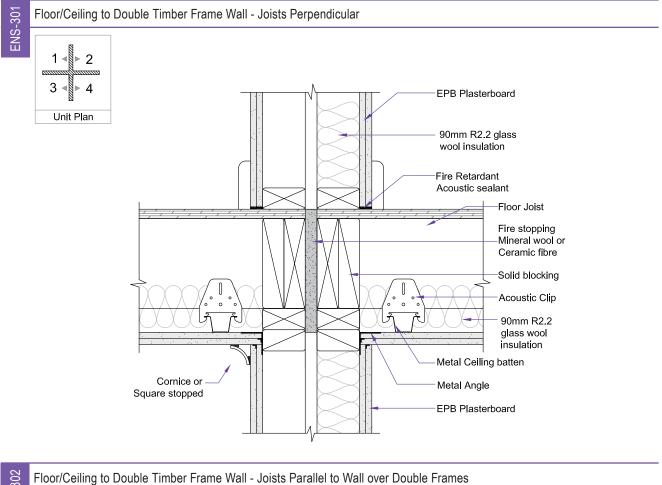
# **Timber Frame to External Wall Junction Detail**

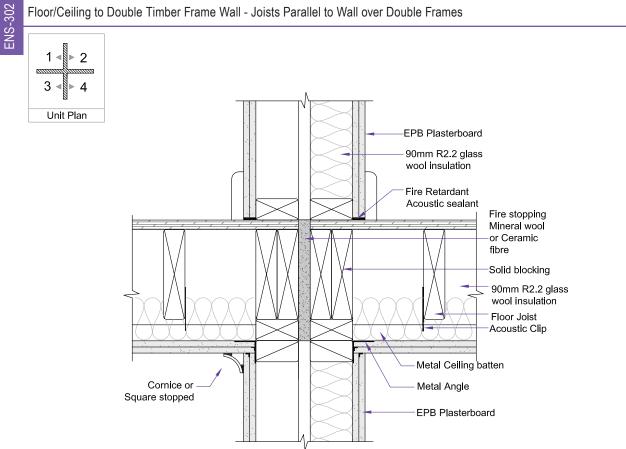
# ENS-006

External Brick Veneer Wall Detail - Option 1



# **Double Timber Frame Floor/Ceiling Junction**

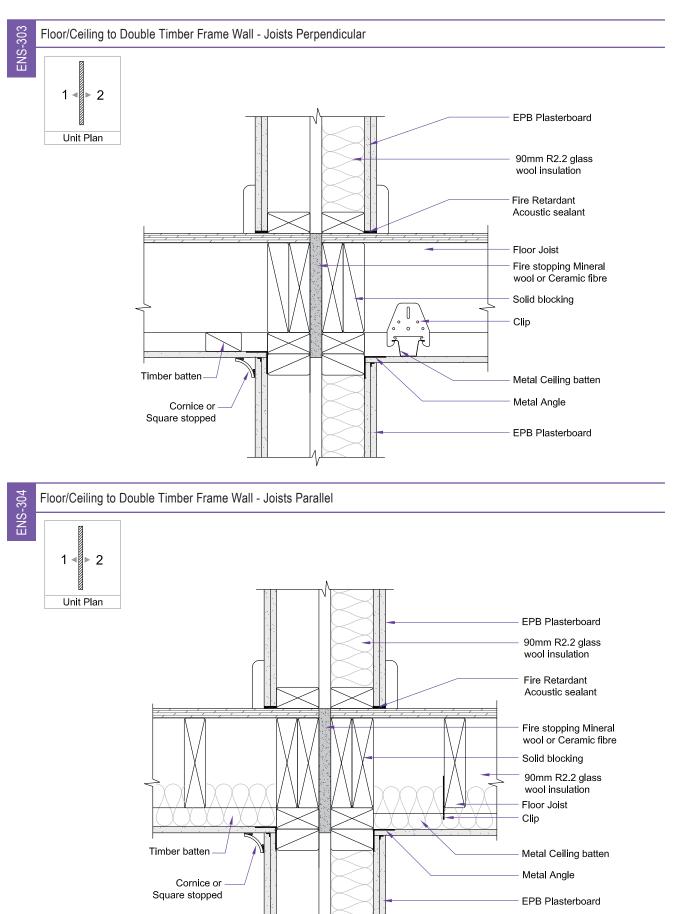




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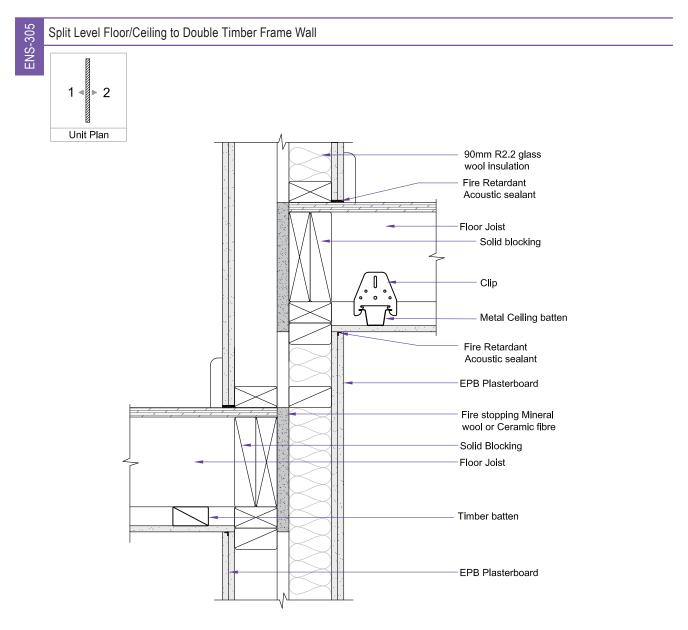
Freephone 0800 353 742

# **Double Timber Frame Floor/Ceiling Junction**

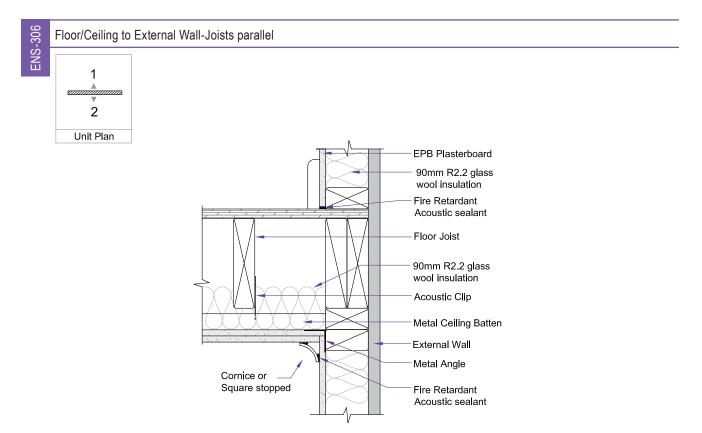


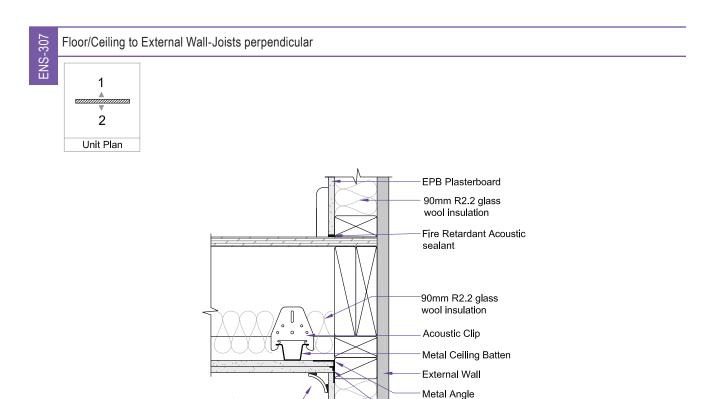
Freephone 0800 353 742

# **Double Timber Frame Floor/Ceiling Junction**



# **Timber Frame Floor/Ceiling Junction**



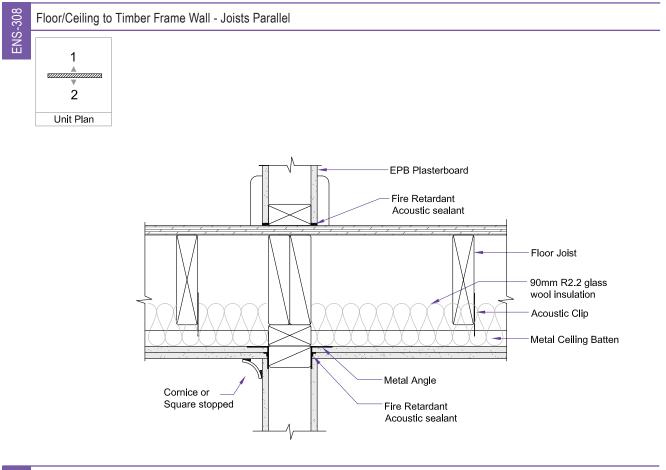


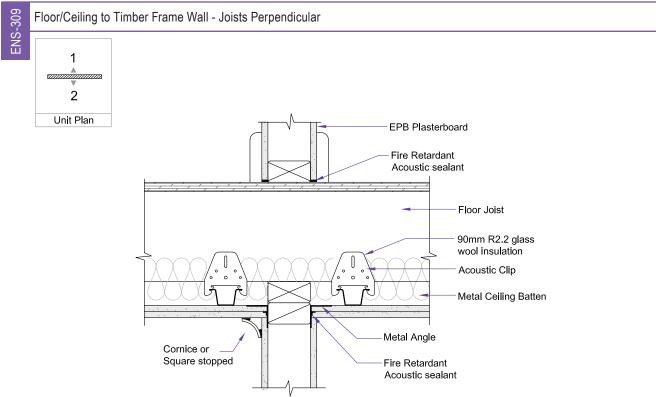
Cornice or \_\_\_\_\_ Square stopped

Fire Retardant Acoustic

sealant

# **Timber Frame Floor/Ceiling Junction**

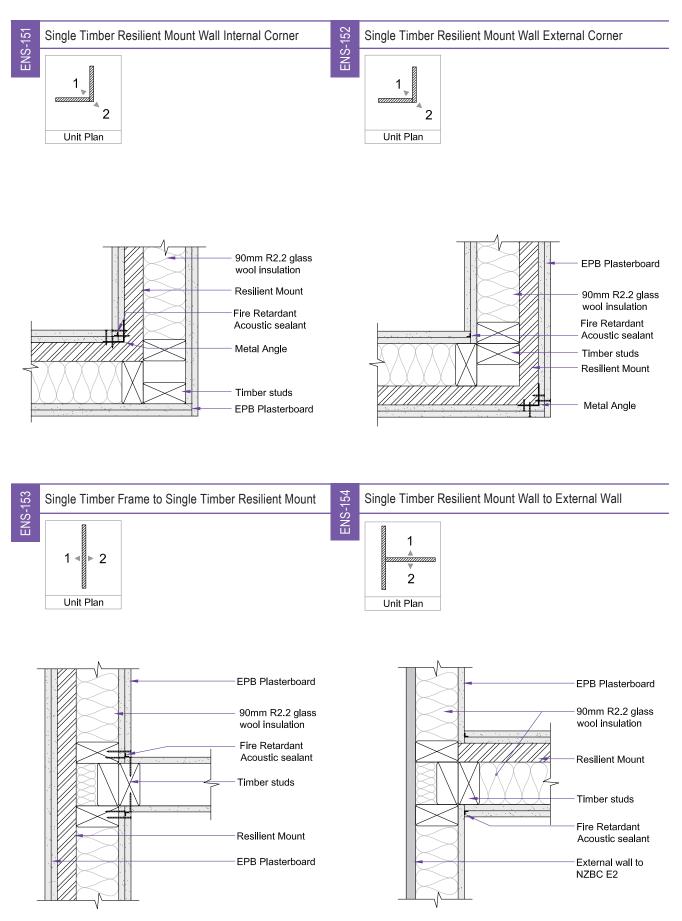




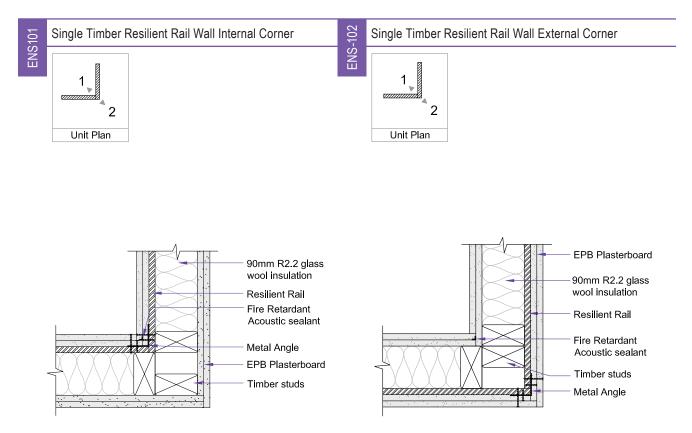
Note: Incase of simultaneous fire exposure on both sides, E2TL30S, E4TL60S or Universal wall one-way FRR systems to both sides can be used unless specific design is needed in order to maintain structural adequacy.

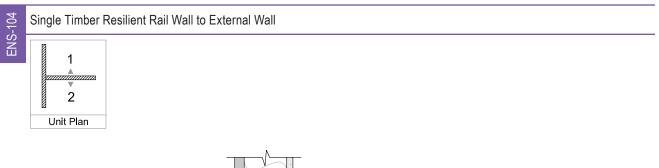
162

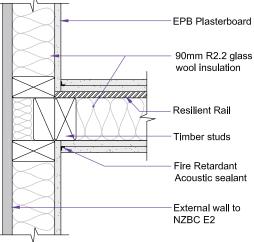
# **Timber Frame with Resilient Mount**



# **Timber Frame with Resilient Rail**



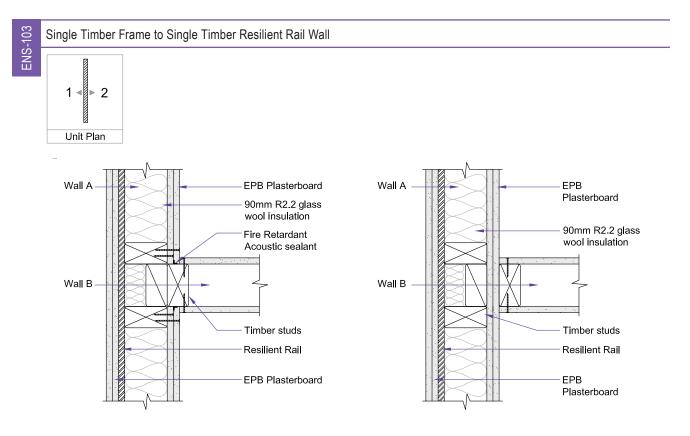




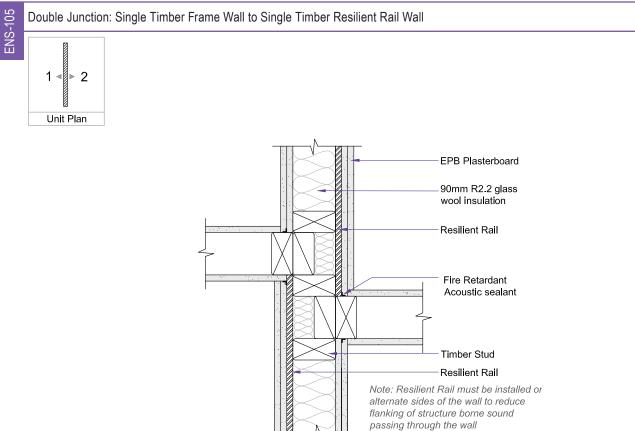
Freephone 0800 353 742

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# **Timber Frame with Resilient Rail**

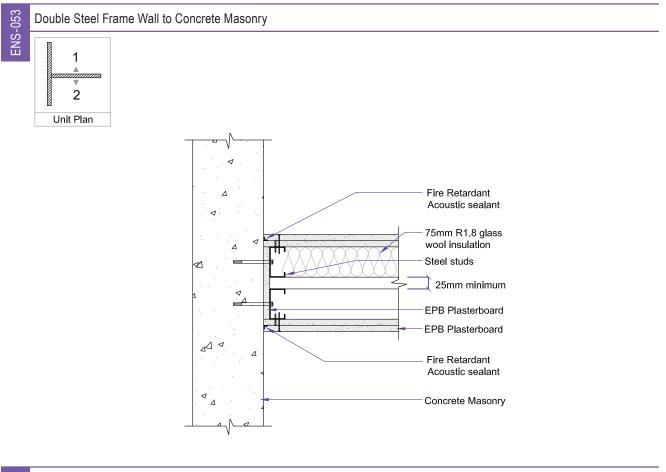


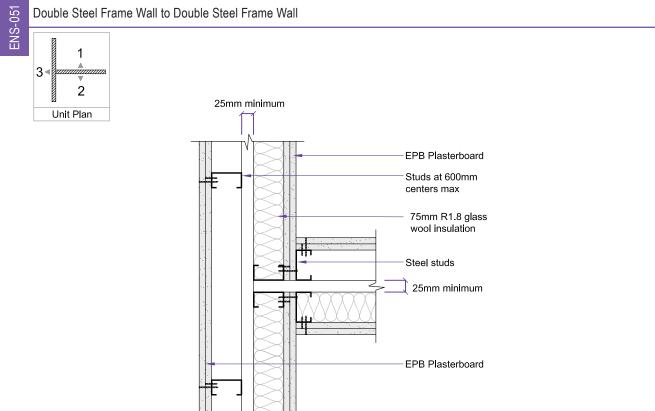
Note: The double linings of wall A must continue through if the FRR of the wall A is more than 30 minutes greater than the FRR of the wall B as shown here



alternate sides of the wall to reduce flanking of structure borne sound passing through the wall

# **Double Steel Frame Wall Junction**

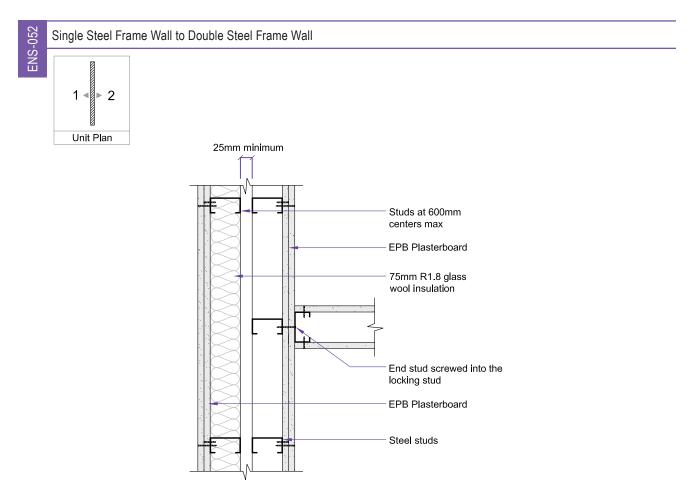




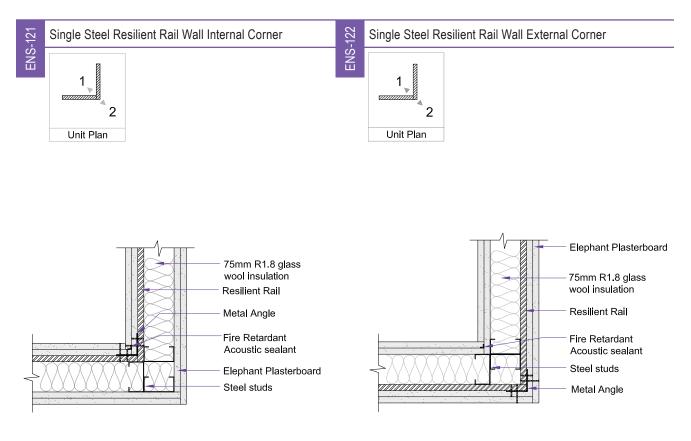
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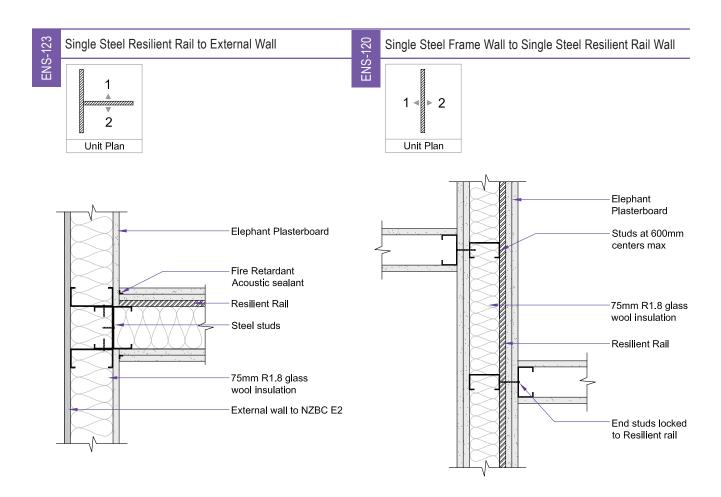
166

# Single Steel Frame Wall



# **Steel Frame with Resilient Rail**



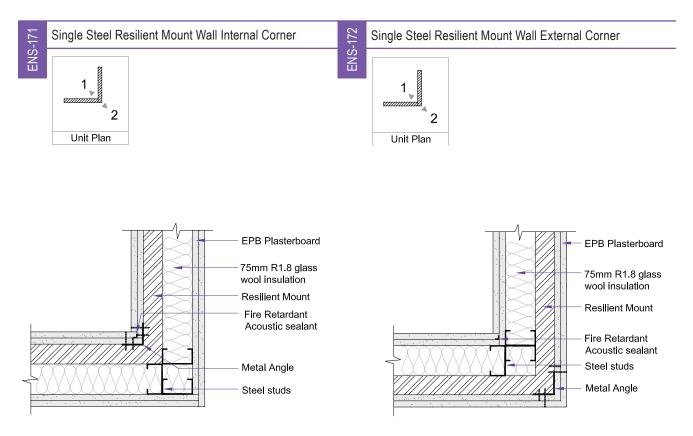


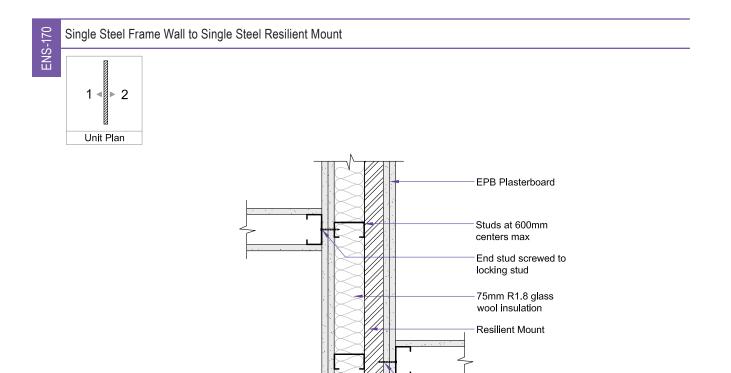
Fr Fr

168

Freephone 0800 353 742

# **Steel Frame with Resilient Mount**

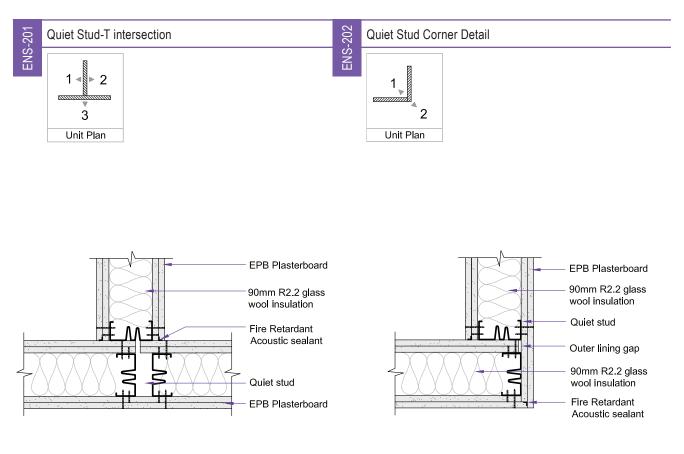




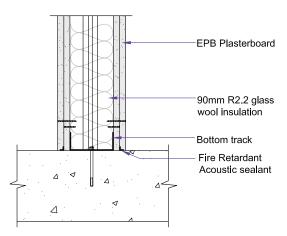
Freephone 0800 353 742

End studs locked to Resilient Mount

# **Quiet Stud**





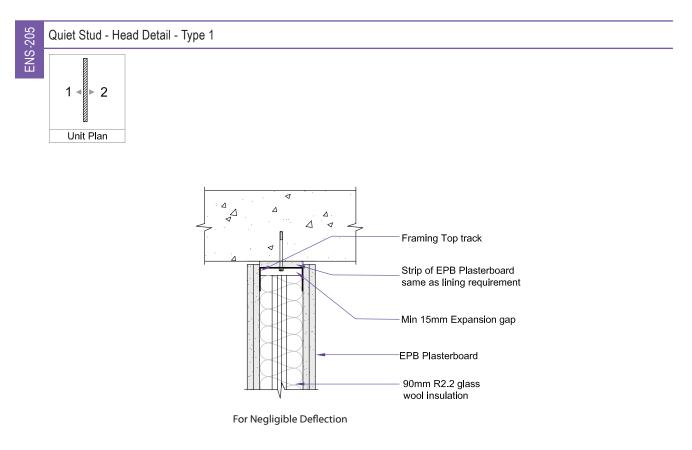


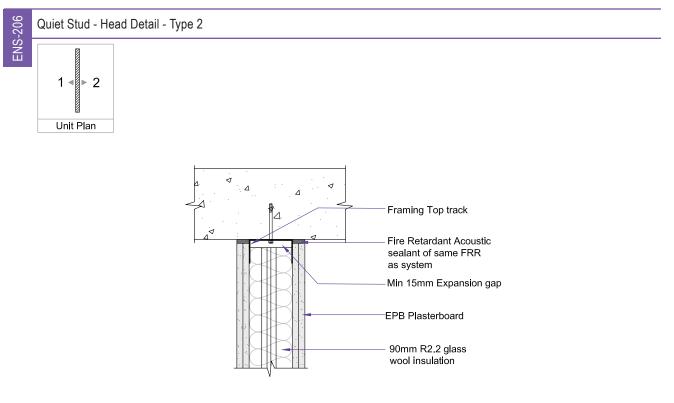
170

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Freephone 0800 353 742

# **Quiet stud**



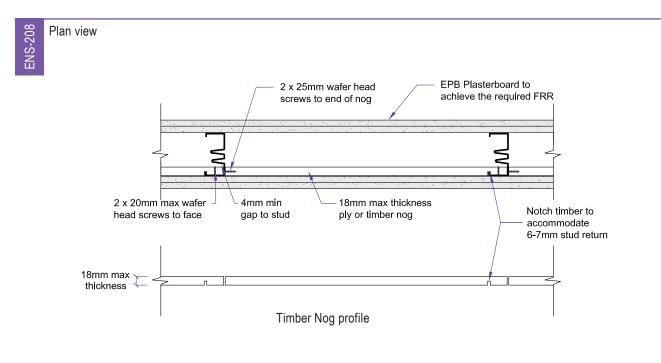


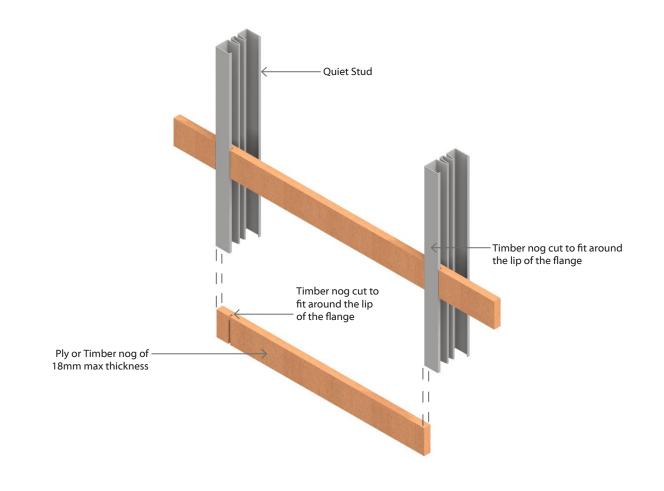
For Negligible Deflection

Freephone 0800 353 742

Version update: March 2025 171

# **Quiet stud with Timber Nog Detail**

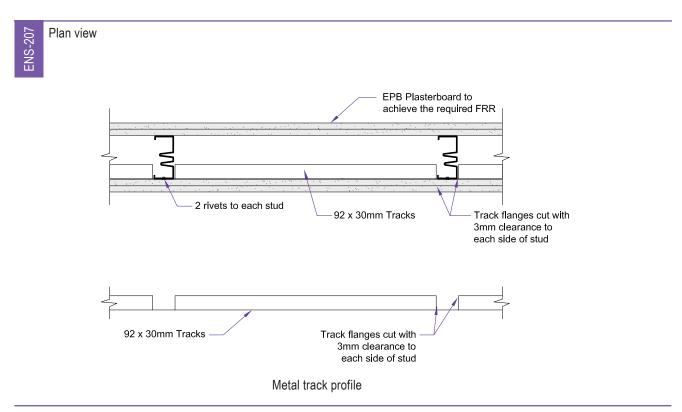


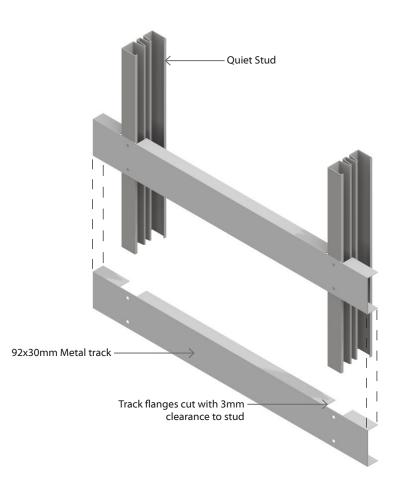


172 Nn

Freephone 0800 353 742

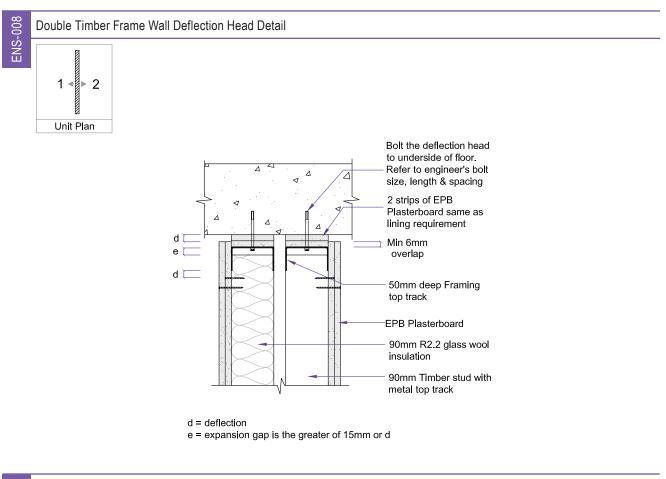
# **Quiet stud with Steel Nog Detail**

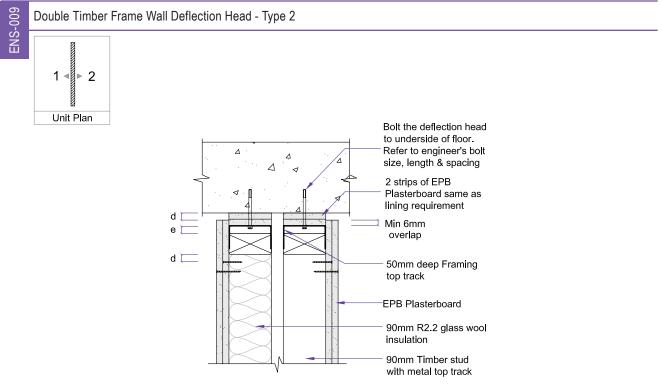




Freephone 0800 353 742

# **Deflection Head Detail**



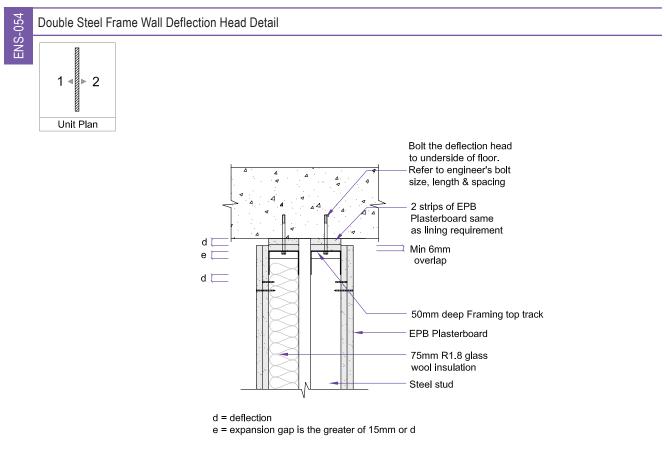


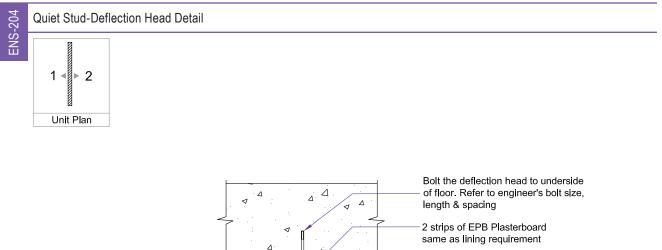


e = expansion gap is the greater of 15mm or d

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# **Deflection Head Detail**





Min 6mm overlap Min 15mm Expansion gap

EPB Plasterboard

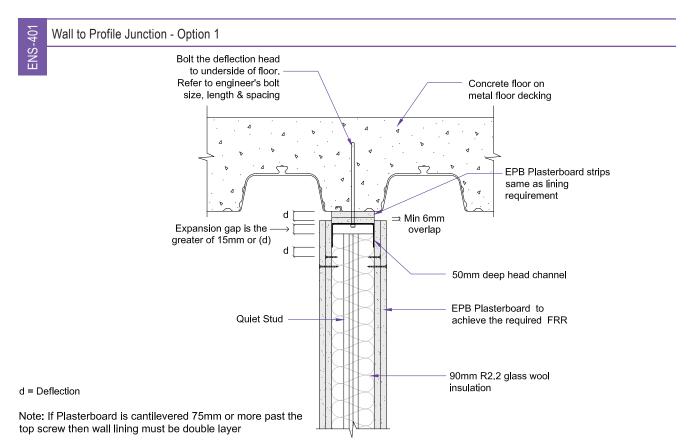
90mm R2.2 glass wool insulation

50mm deep Framing Top track

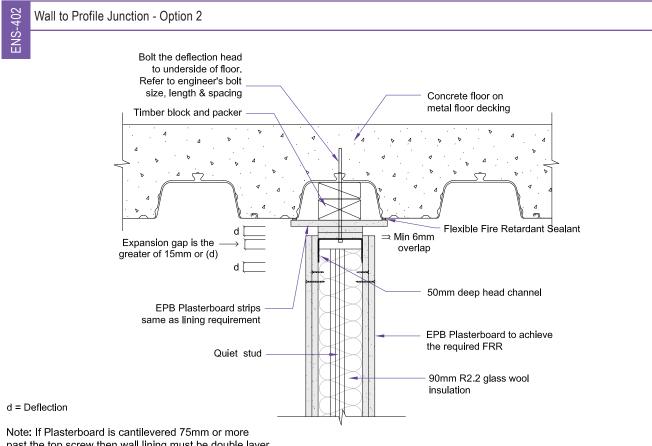
d [ d [

d = deflection

# **Composite Floor Deflection Head Detail**



NOTE: Maximum 60 mins Fire system only. For higher fire rating requirements, contact Elephant Plasterboard at 0800 353 742

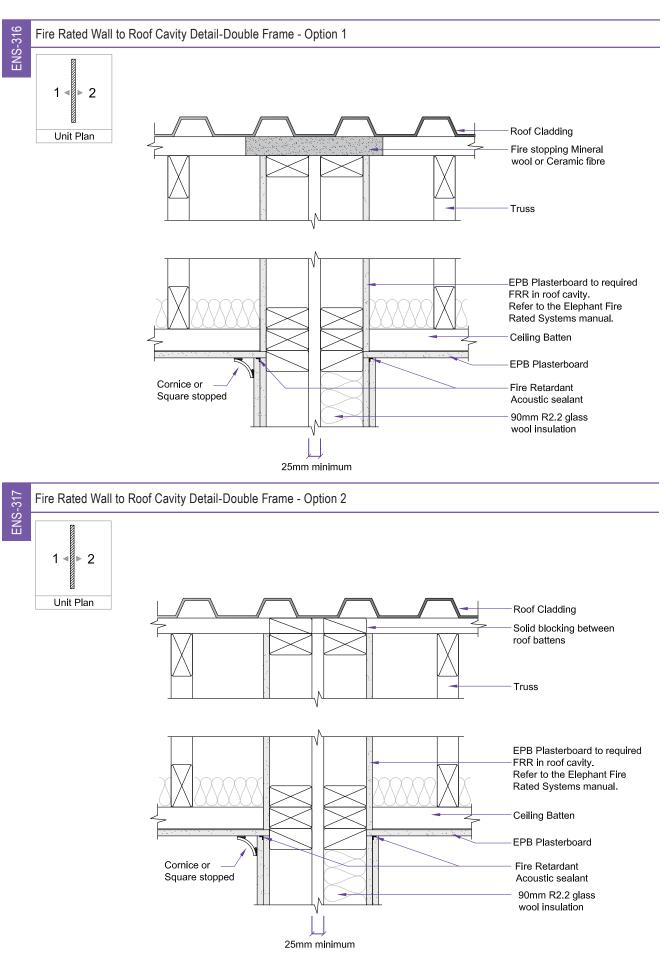


past the top screw then wall lining must be double layer

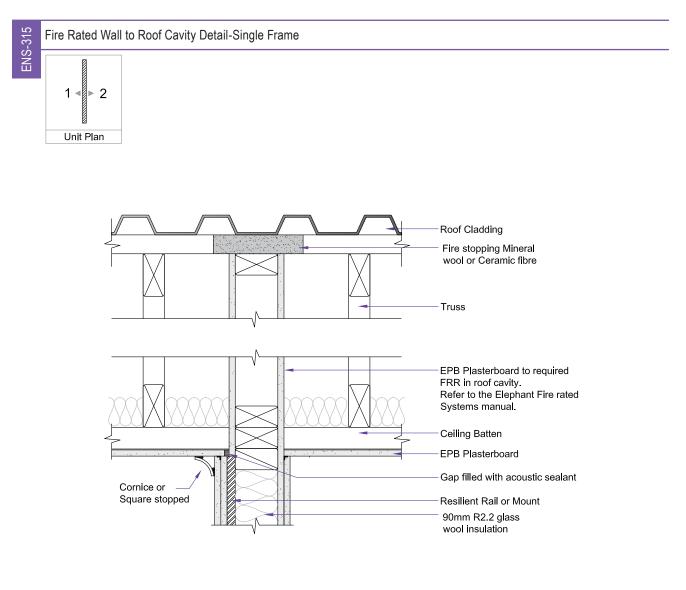
NOTE: Maximum 60 mins Fire system only. For higher fire rating requirements, contact Elephant Plasterboard at 0800 353 742



# **Roof Cavity Detail**



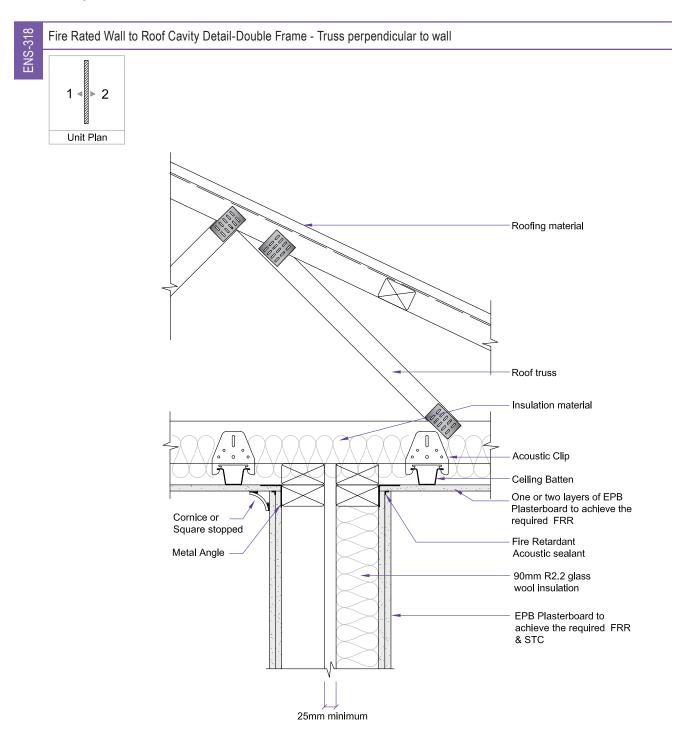
# **Roof Cavity Detail**





S. Kr

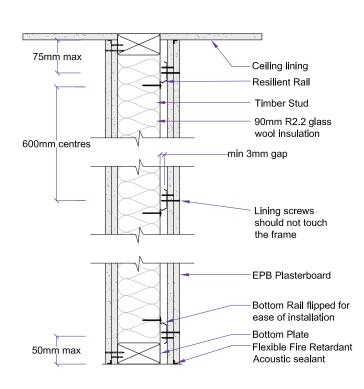
# **Roof Cavity Detail**



# **Rail and Mount Installation Details**

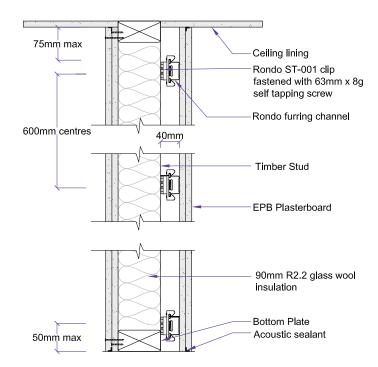
### Stud and Resilient Rail Installation Details

# ENS-124



Stud and Resilient Mount Installation Detail

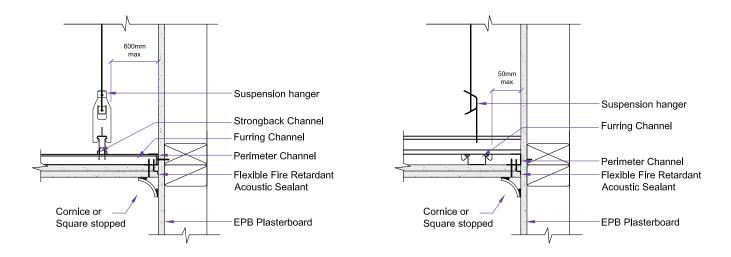
ENS-173

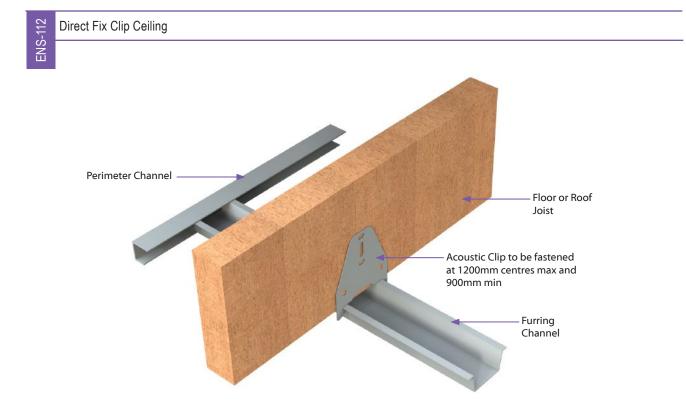




# **Ceiling Perimeter Details**





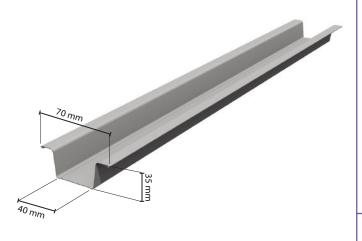


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# System Components

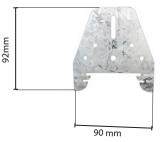
# **Ceiling Batten**

Rondo $^{\circledast}$  310 ceiling batten provides a more stable substrate for fixing ceiling lining which is also compatible with the Acoustic Clip



### **Acoustic Clip\***

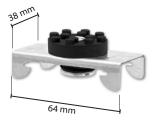
Rondo<sup>®</sup> 311D optimises acoustic performance of EPB Noise Control systems. It is compatible with Rondo<sup>®</sup> 310 ceiling batten.



\*The allowable alternatives for the Rondo<sup>®</sup> 311D Acoustic clips for EPB Noise Control Systems are Rondo<sup>®</sup> 313, Rondo<sup>®</sup> 226, Rondo<sup>®</sup> 394 and GIB Quiet Clip<sup>®</sup>

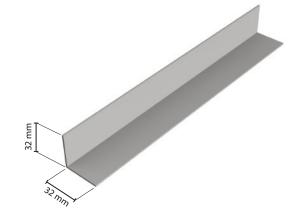
### **Acoustic Resilient Mount**

Rondo<sup>®</sup> STWC for use with wall & ceiling construction assemblies to prevent sound & vibration transmission to improve STC and IIC ratings of single framed timber or steel EPB Noise Control systems. It is compatible with Rondo<sup>®</sup> 308 & Rondo<sup>®</sup> 129.



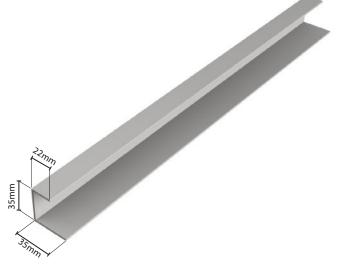
### **Perimeter Angle**

Rondo®18 Perimeter angle is a componentary part of the EPB Noise Control ceiling system.



### **Perimeter Channel\***

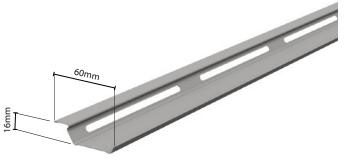
Rondo<sup>®</sup> 340 is designed to provide seamless support at wall ends of suspended ceiling systems. It is compatible with Rondo<sup>®</sup> 310 Ceiling batten.



\*Use Rondo142 channel to suit Rondo308 ceiling batten.

### **Resilient Rail**

Rondo<sup>®</sup> 581 Resilient Channel provides sound isolation of linings from the framing. It improves the STC of timber or steel single frame walls.



\*The allowable alternatives for the Rondo<sup>®</sup> STWC Acoustic Resilient Mount for EPB Noise Control Systems is ST-001 \*The allowable alternatives for the Rondo<sup>®</sup> 581 Resilient Channel for EPB Noise Control Systems is GIB Rail<sup>®</sup>



# System Components Compatibility Chart

Ceiling Batten	Acoustic Clip	Perimeter Channel				
RONDO® 310		RONDO® 340				
35mm	RONDO® 311D RONDO® 313 GIB® Quiet Clip®	22mm uugg				
RONDO® 308	RONDO® 226 RONDO® 394	RONDO® 142				
RONDO® 129		RONDO® 140				
28mm 38mm	RONDO® 226 RONDO® 394	28mm				

Horizontally aligned components are compatible

# **EPB Plasterboard Product Range**

THICK- NESS	EPB PLASTERBOARD PRODUCT RANGE	EDGE TYPE	WIDTH	AVG WEIGHT	LENGTH							
mm			mm	Kg/m²	2.4m	2.7m	3.0m	3.3m	3.6m	4.2m	4.8m	6.0m
10	EPB <sup>®</sup> Standard	TE/TE	1200	6.9	$\checkmark$							
10	EPB <sup>®</sup> Standard	TE/SE	1200	6.9	$\checkmark$		$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
10	EPB <sup>®</sup> Standard - Wide	TE/SE	1350	6.9					$\checkmark$		$\checkmark$	$\checkmark$
13	EPB <sup>®</sup> Standard	TE/TE	1200	8.8	$\checkmark$							
10	EPB CeilingSmart <sup>®</sup>	TE/TE	1200	7.4	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
10	EPB FireSmart <sup>®</sup>	TE/TE	1200	7.4	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
13	EPB FireSmart <sup>®</sup>	TE/TE	1200	11.7	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
16	EPB FireSmart <sup>®</sup>	TE/TE	1200	14.7	$\checkmark$	$\checkmark$	$\checkmark$					
10	EPB MultiSmart <sup>®</sup>	TE/TE	1200	8.9	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$	
10	EPB MultiSmart <sup>®</sup>	TE/SE	1200	8.9	$\checkmark$						$\checkmark$	
13	EPB MultiSmart <sup>®</sup>	TE/TE	1200	12.2	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
10	EPB AquaSmart <sup>®</sup>	TE/TE	1200	8.3	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$			
10	EPB AquaSmart <sup>®</sup>	TE/SE	1200	8.3	$\checkmark$						$\checkmark$	
13	EPB AquaSmart <sup>®</sup>	TE/TE	1200	11.7	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$			

## **Product Weights and available Lengths**

TE/TE = Tapered Both Edges

TE/SE = Tapered One Edge, Square the Other

### **Product Primary Functions\***

THICK- NESS	EPB PLASTERBOARD PRODUCT RANGE	EDGE TYPE	WIDTH	Horizontal Fixing	Span 600 Centres on Ceilings	ing	Fire Resistance	Noise Control	Impact Resistant	Water Resistant
mm			mm	Hori	Spar on C	Bracing	Fire	Nois	Impa	Wate
10	EPB <sup>®</sup> Standard	TE/TE	1200			$\checkmark$	$\checkmark$			
10	EPB <sup>®</sup> Standard	TE/SE	1200	$\checkmark$		$\checkmark$				
10	EPB <sup>®</sup> Standard -Wide	TE/SE	1350	$\checkmark$		$\checkmark$				
13	EPB <sup>®</sup> Standard	TE/TE	1200		$\checkmark$		$\checkmark$			
10	EPB CeilingSmart <sup>®</sup>	TE/TE	1200		$\checkmark$	$\checkmark$	$\checkmark$			
10	EPB FireSmart <sup>®</sup>	TE/TE	1200		$\checkmark$	$\checkmark$	$\checkmark$			
13	EPB FireSmart <sup>®</sup>	TE/TE	1200		$\checkmark$		$\checkmark$			
16	EPB FireSmart <sup>®</sup>	TE/TE	1200				$\checkmark$	$\checkmark$	$\checkmark$	
10	EPB MultiSmart <sup>®</sup>	TE/TE	1200		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		
10	EPB MultiSmart <sup>®</sup>	TE/SE	1200	$\checkmark$		$\checkmark$		$\checkmark$		
13	EPB MultiSmart <sup>®</sup>	TE/TE	1200		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
10	EPB AquaSmart <sup>®</sup>	TE/TE	1200				$\checkmark$	$\checkmark$		$\checkmark$
10	EPB AquaSmart <sup>®</sup>	TE/SE	1200	$\checkmark$						$\checkmark$
13	EPB AquaSmart <sup>®</sup>	TE/TE	1200		$\checkmark$		$\checkmark$	$\checkmark$		$\checkmark$

\* The above table details the product's Primary functions.

Some products may perform more than the functions indicated



EPB Plasterboard Noise Control Systems	March 2025						
EPB Plasterboard Product Range							
10mm EPB Standard	10mm EPB Horizontal Standard	13mm EPB Standard					
10mm EPB FireSmart/CeilingSmart	13mm EPB FireSmart	16mm EPB FireSmart					
10mm EPB MultiSmart	10mm EPB Horizontal MultiSmart	13mm EPB MultiSmart					
10mm EPB AquaSmart	10mm EPB Horizontal AquaSmart	13mm EPB AquaSmart					

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# Notes



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# FOR MORE INFORMATION

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CALL 0800 353 742