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SRP[™] CEILING PRODUCT RANGE

16mm BATTEN

Low profile, suitable for apartments, offices and house ceilings. Face width is 38mm and can be Direct fixed or combines with the Top Cross rail and TCR clip to form a suspended ceiling.

Stock lengths - 3.6 & 4.8M

22mm BATTEN

Offers a generous face width of 38mm while maintaining a low profile, strength, light weight and is suitable for wall strapping or direct fixing via the adjustable wall fix clip. The Strongback and furring strap combine with the 22mm Batten to form a suspended ceiling system.m

Stock lengths - 3.6, 4.8, 6M

28mm BATTEN

Medium height. Suitable for larger spans, face width is 38mm and can be direct fixed or combined with TCR and TCR clip to form a suspended ceiling system.

Stock lengths - 3.6 & 4.8M



35mm BATTEN

A robust profile that matches up to the ribbon plate thickness of house framing. This product has a generous face width of 38mm.

Stock lengths are 3.6, 4.8,6M



35mm NOTCHED BATTEN

A robust profile that matches up to the ribbon plate thickness of house framing. This product has a generous face width of 38mm.

Notched Batten can be cut to length with a standard tongue of 25mm either end

38 X 12mm STRONGBACK CHANNEL

Combines with 22mm Batten and furring strap to make a suspended ceiling.

Stock lengths – 3.6, 4.8M

26 X 21mm TCR

Combines with 16mm and 28mm Batten to form a suspended ceiling system.

Stock lengths - 3.6, 4.8M

TCR CLIP



FURRING STRAP CLIP

Works to combine 22mm Batten and Strongback to form a suspended ceiling system.



16/28mm DIRECT FIX CLIP

Offering a 19mm of slot adjustment the 16/28mm clip combines with 16mm or 28mm Batten for direct fixing.



22/35mm DIRECT FIX CLIP

Offering 25mm of slot adjustment the 22/35 clip combines with the 22mm or 35mm Batten for direct fixing.



UNIVERSAL WALL FIX CLIP

21mm slot adjustment can combine with all four Batten sizes.





ADJUSTABLE WALL FIX CLIP

Used for strapping concrete and block walls. Accommodates 22mm & 35mm Battens.



ADJUSTABLE WALL FIX CLIP LONG SERIES

Used for strapping concrete and block walls. Accommodates 16mm or 28mm Battens.



ADJUSTABLE WALL FIX CLIP SHORT SERIES

Used for strapping concrete and block walls. Accommodates 16mm or 28mm Battens.



ANGLE - 35 X 35 AND 40 X 40

Commonly used as room perimeter and bracing.



PERIMETER TRACK FOR ALL SIZED BATTENS

Runs the perimeter of the room to support ceiling Batten, Strongback or TCR.

Stock lengths – 3, 3.6M

STRENGTH AND DURABILITY

Steel Rollformed Products Ltd (SRP[™]) has selected the very best industry standard profiles to produce a range of ceiling battens that are most popular in the industry for strength, reliability and ease of installation.

Accuracy of manufacture and use of top quality materials, such as GALVSTEEL[®] by New Zealand Steel, are the key to quality, durability and strength.

SERVICE

SRP[™] offers a service promise that reflects their dedication to looking after the needs of their customers in every respect.

Paramount in that service offer is, on time delivery, personal sales, technical backup and industry leading technical literature to offer the best possible assistance in design and installation to meet customer expectations.

USE ONLY THE CURRENT SPECIFICATION

This is to certify the SRP[™] Ceiling Products and associated componentry supplied by Steel Rollformed Products Ltd (SRP[™]) are designed to, and manufactured from, a compliant base material, to the relevant New Zealand/International Standards and to the relevant parts of the New Zealand Building Code.

AS/NZS 4600 Cold-formed Steel Strucutures

Galvanised Coating Z275 to AS/NZS 1397

NZS 3404 Steel Structural Standard

NZS 3404.1 Steel Structures Standard - Materials, fabrication, and construction

AS/NZS 1397 Steel sheet and strip

AS/NZS 1170 Structural design actions

NZBC- BI/VMI and B2

PURPOSE

 SRP^{**} manufactures a wide range of easy to install Metal Ceiling products.

This Handbook is intended to provide installation and specification guidance for SRP[™] ceiling systems that will meet both customer expectations and the requirements of the New Zealand Building Code.

SCOPE OF USE

New Zealand Building Code Compliance.

NZBC CLAUSE B2 - DURABILITY

When installed in accordance with the installation instructions and in dry interior environments, SRP[™] Ceiling Systems will satisfy the requirements of NZBC Clause B2 – Durability.

SRP[™] Ceiling Systems are manufactured from galvanized coated steel Z275 conforming to AS/NZS 1397.

NZBC CLAUSE B1

NZBC CLAUSES C3 – FIRE AND G6 NOISE CONTROL

SRP[™] Ceiling Systems meet the requirements of specific fire and acoustic systems. Where installed ceilings form part of a specific fire or sound rated system the plasterboard manufacturer's specification must be followed. Refer to GIB[®] Fire Rated Systems and GIB[®] Noise Control Systems.

RELEVANT STANDARDS

SRP[™] galvanized steel products are manufactured to meet the requirements of NZS 3404 Steel Structures Standard, NZs 404.1 Steel Structures Standard – Materials, Fabrication and Construction and AS/NZS 1397 Steel Sheet and Strip

OTHER RELEVANT STANDARDS:

- » AZSNZS 4600 cold-formed Steel Structures
- » AS/NZS 2785 Suspended Ceilings
- » AS/NZS 1170 Structural Design Actions

Where design is outside the scope of this publication, including span tables herein, suitable professional advice should be sought for a specific design.

SUMMARY

SRP[™] has gathered independent, leading experts with extensive experience to create this document to ensure professionals like yourself, have detailed literature for design and installation reference. Information is included on all SRP[™] Ceiling Systems, including components, standard application details, installation information, design tables and other important material. All of the information detailed, has been created in accordance with relevant New Zealand/International Standards listed in the Compliance Section of this document. In addition, SRP[™] can provide advice and specific engineering design assistance for the design of non-standard ceilings subject to specific seismic loading, wind pressure.

Please be aware, however, that products, systems, building codes and any third party referenced material may change over time and interpretations could also vary. While every care has been taken to ensure the accuracy of the information, SRP[™] cannot accept any responsibility or liability for any economic or consequential losses with respect to using the information contained in this Handbook. It is the responsibility of the designer, specifier and/or installer to ensure the correct use and interpretation of the information in this Handbook and ensure it is in accordance with up-to-date industry practice. SRP[™] recommends that you ensure you are referring to the latest edition of this handbook and any referenced third party material prior to design, specification and/or installation. Please check the website www.srpltd.co.nz to ensure you are using the current available information.

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If you need further information, please contact $\mathsf{SRP}^{\scriptscriptstyle {\mathbb M}}$ on 09-579 0175.

TABLE 1

The materials Base Metal Thickness BMT of SRP™ Ceiling Profiles.

	MATE	RIALS	
0.50mm BMT	0.55mm BMT	0.75mm BMT	1.15mm BMT
16.5mm Ceiling Battens	22mm Ceiling Battens	Perimeter Trim	C Section Strong Back
28mm Ceiling Battens	35mm Ceiling Battens		
	Top Cross Rail		

PERFORMANCE OF CEILING PRODUCTS AND ASSOCIATED COMPONENTRY

The performance of SRP[™] Ceiling Products is dependent upon correct installation. SRP[™] Ceiling Products must be installed as specified in this publication and following good industry practice. In addition, all plasterboard ceiling products are to be installed in accordance with the plasterboard manufacturer's recommendations.

Specific design and seismic requirements will require an engineer's specific design and relevant producer statement for the level of building importance, class and seismic zoning if required for the building type, design and location.

DELIVERY, STORAGE AND HANDLING

Store in a dry flat area to avoid distortion and/or moisture damage. Exercise care and use appropriate safety equipment during installation.

SRP[™] products are not to be installed in a corrosive atmosphere, or come in direct contact with CCA treated timber, copper or chemically treated materials. If this is unavoidable, a separation barrier between the galvanized SRP[™] product and the potentially corrosive surface should be used. In addition, SRP[™] recommends its products are not installed before the building envelope is enclosed. SRP[™] also recommends that all electrical wiring regulations must be strictly adhered to.

Store and install all ceiling products in accordance with the New Zealand Steel GALVSTEEL® 50 year Durability Statement document.

SYSTEMS SUMMARY

SRP[™] Ceiling Systems are divided into three distinct groups, each based on the connection between the SRP[™] batten and the ceiling structure. SRP[™] battens are available in multiple heights (See Table 2), and are fixed by either an SRP[™] Strongback, an SRP[™] Top Cross Rail, or direct-fix on an SRP[™] Direct Fix Clip.

SYSTEM SELECTION

The SRP[™] Ceiling Systems are all equitable in their ability to provide a base grid to fix GIB plasterboard to and their ability to be the batten system in GIB Plasterboard systems. It is important to note that all of the SRP[™] Ceiling Systems included in this document can be used in GIB systems as the batten system.

The selection of an $\mathsf{SRP}^{\scriptscriptstyle\mathsf{M}}$ system is determined by:

1. Space requirements.

The plenum space or the internal room height may dictate the system. For example an SRP[™] Direct Fix system provides less distance between the ceiling structure and the GIB plasterboard lining, this may be suitable when greater internal room height is required. Conversely, a SRP[™] Strongback or SRP[™] Top Cross Rail system would be suitable where there's a desire to make the ceiling lower than the ceiling structure.

2. Experience and preference.

SRP[™] Strongback and SRP[™] Top Cross Rail systems provide similar opportunities to create space between the ceiling structure and the GIB Plasterboard. As such, the selection is usually determined by an installer's experience and preference. SRP[™] CEILING SYSTEMS

TABLE 2

				CEILING	BATTEN SELE	TION				
Product	Direct Fix Clip	Long Direct Fix Clip	Nail Up	Suspended with TCR / Strongback	Notched ends available	Drain holes available	Stock lengths 3.6/4.8/6.0	Volume Cut to Length	ADJ Wall Fix Clip	Resilient Clips (bought in)
Ceiling Batten 16mm	V	v		r			v	r	v	V
Ceiling Batten 28mm	v	v		v			v	v	v	v
Ceiling Batten 22mm	v	v	v	v	Consult with SRP	v	v	v	r	V
Ceiling Batten 35mm	v	v	v	Consult with SRP	v	v	v	v	v	V
35mm Ceiling Batten with 50mm Face	V	` 1	~		~	V	V	~		



PRODUCER ST (Guidance notes on	ATEMENT - P the use of this form are prin	Building Code Clause S1 – DESIGN ted on page 2)	(s)
ISSUED BY: ACH CONSULTING ENGINEERS LIMI	TED		
TO: STEEL ROLLFORMED PRODUCTS LIMITED ((Design Firm) SRP) (Owner/Developer)		
TO BE SUPPLIED TO: LOCAL BUILDING CONSEN	IT AUTHORITY		
IN RESPECT OF: SPAN TABLES FOR SUSPENDE	D/DIRECT FIX CEILI	NG/WALL BATTENS AN	ID CHANNELS
AT: VARIOUS LOCATIONS	(A - Julies		
·····	(Address) LOT. ^{N/A}	DP	so . ^{N/A}
We have been engaged by the owner/developer re	eferred to above to p	rovide STRUCTURAL D	ESIGN
(Extent of Engagement)		services in respec	t of the requirements of
Clause(s) .B.1. All [] or Part only [] (as specified in the attachment	to this statement), o	of the Building Code f the proposed building w	for /ork.
The design carried out by us has been prepared in a	ccordance with:		
Compliance Documents issued by the Ministry of	Business, Innovatior	a & Employment .B1/VN	11 or
Alternative solution as per the attached schedule	N/A	(verification m	iethod / acceptable solution)
The proposed building work covered by this produce	r statement is descril	ped on the drawings titled	N/A - INDICATIVE
DETAILS ONLY ATTACHED an together with the specification, and other documents On babalf of the Design Firm and subject to:	d numbered N/A set out in the schedu	ule attached to this stater	nent.
(i) Site verification of the following design assumption(ii) All proprietary products meeting their performance	ns AS PER LISTED I e specification requir	NOTES WITH SPAN TAE ements;	BLES
I believe on reasonable grounds that a) the buildin other documents provided or listed in the attached s and that b), the persons who have undertaken the de following level of construction monitoring/observation CM1 CM2 CM3 CM4 CM5 (Engineering Categ	ig, if constructed in a chedule, will comply ssign have the neces n: nories) or ■ as per agre	ccordance with the drawi with the relevant provisio sary competency to do so sement with owner/develo	ings, specifications, and ons of the Building Code o. I also recommend the oper (Architectural)
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SIGNED BY Voytek Wieczorek	ON BEHALF	OF ACH Consulting Eng	gineers Ltd
Date 23/09/2016 (signature) Note: This statement shall only be relied upon by the Building C Firm only. The total maximum amount of damages payable ari Authority in relation to this building work, whether in contract, t	Consent Authority named ising from this statement fort or otherwise (includin	(Design Firm) above. Liability under this stat and all other statements prov. g negligence), is limited to the	ement accrues to the Design ided to the Building Consent a sum of \$200,000*.

This form is to accompany Form 2 of the Building (Forms) Regulations 2004 for the application of a Building Consent. THIS FORM AND ITS CONDITIONS ARE COPYRIGHT TO ACENZ, IPENZ AND NZIA

PRODUCER STATEMENT PS1

October 2013

SRP[®] DIRECT FIX

The SRP^{\mathbb{M}} Direct Fix systems have been designed to allow for a high level of flexibility, including the possibility of using any of the SRP^{\mathbb{M}} Batten range.

INSTALLATION INSTRUCTIONS

STEP 1: PREPARATION

Establish finished height of the ceiling allowing for any services below joists or truss chords. A minimum of 25mm between the truss chord/joist is recommended for acoustic separation.





STEP 2: PERIMETER CHANNEL

Fix the perimeter channel/angle to the ribbon or top plate with 8 gauge 12 x 25mm wafer/flathead self-drilling wood screws at 450 centres max. (Long leg of channel to the bottom).

FIGURE 36



STEP 3: SETOUT

Set out batten centres to suit plasterboard system type and thickness in accordance with the plasterboard manufacturers recommendations.



STEP 4: FIXING CLIPS

Using the travel slots, secure the direct fix clips to joist/truss chords with a single 8 gauge 12 x 25mm wafer flathead self-drilling wood screws or 30 x 2.5 mm galv clout. Leave fasteners slightly loose to allow for final adjustment.





SRP[™] TOP CROSS RAIL SYSTEMS

The SRP[™] Top Cross Rail Systems have been designed to allow for either the SRP[™] 16 or the SRP[™] 28 batten, when suspended on wire or droppers.

INSTALLATION INSTRUCTIONS



STEP 5: BATTEN INSTALLATION

28mm or 16mm ceiling battens are then located into locating lugs in the legs of the Top Cross Rail clips to allow seating into final location point. Top Cross Rails should be placed at 1200 centres or as per the centres specified in the loading charts.



STEP 6: SUSPENSION WIRES

Wires are set at 1200mm centres or as per the charts and wrapped around the Top Cross Rail one wrap and then twitched back on itself a minimum of 3 turns.



STEP 7: TOP CROSS RAIL JOINTERS

Jointers are available in 400mm lengths. These are splayed over the butt joint to give cover of 200mm either side of the butt joint. Screw fixings must penetrate through the main body of the suspended Top Cross Rail and into the jointer 100mm either side of the butt joint using selftapping wafer button head screws. The Top Cross Rail must run continuously over at least three spans between wire suspension points.

STEP 8: JOINING BATTENS

Snap in batten joiners are available for 16mm and 28mm battens 200mm long overlapping 100mm each way. These are fixed in place using two wafer tech button head screws within 100mm and no closer than 12mm to butt joint.

FIGURE 48



FIGURE 49



SRP[™] STRONGBACK SYSTEMS

The SRP[™] Strongback System has been designed to combine with the SRP[™] 22mm batten.

INSTALLATION INSTRUCTIONS

STEP 1: PREPARATION Establish height of finished ceiling in accordance with architectural design and mechanical services requirements. Framing Ceiling height Ceiling height

STEP 2: PERIMETER CHANNEL

Fix Perimeter channel in place around the wall edges with 8 gauge 32mm screws at 600 centres. This will supply sufficient edge support to complement suspended components. Maximum weight loading should not exceed 25k/m².

FIGURE 51



STEP 3: DROPPER INSTALLATION

Position the 20 x 20 solid droppers or wire to be above the Strongback at the prescribed centres. Tie off the wires or screw the droppers to the Strongback. Twist off the wire with one complete runs around the vertical strand then twitch back on itself a minimum of 3 turns, setting the height of the Strongback so that the battens are attached under the Strongback and will land in the perimeter channel.

FIGURE 52



STEP 4: STRONGBACK INSTALLATION

Strongbacks are joined by way of lapping 200mm back to back and screwing together with two selftapping wafer head screws. Should perimeter track be used, the top leg provides a suitable landing for the Strongback. If angle is used, provide a short batten packer between the Strongback and the angle or position a batten close to the perimeter angle. Once the furring strap is placed over the face of the ceiling batten at an appropriate fixing point, lock ceiling battens to C Strong back leading edge with furring strap receiving slot.

STEP 5: BATTEN JOINTING

Joining of battens may be achieved by using batten joiners at a minimum length of 200mm to allow for a 100mm overlap of butt joint each side. These must be fixed in place by wafer tech screws at a minimum of two within 100mm and no closer than 12mm to the butt joint itself. All batten joins and Strongback joins should be staggered.



FIGURE 54



STEP 6: BATTEN END FIXING

Fix the ends of the battens to the perimeter section with a single wafer head screw.

Ceiling battens are spaced at 450 centres for 10mm Gib Plasterboard and 600 centres for 13mm Gib plasterboard.



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* For A, B, C dimensions refer to relevant figure

See notes

TABLE 3

			SUS	SPENDE	D CEIL	L - SNI	OP CR	OSS RA	IL - MA	VIMUN	I LOAD	ING (k	g/m²)											
	Suspension distance - A (mm)			-	-	006							1200							1500		-		
	Primary Support Spacing - B (mm)		906		1200	5	00	180	0	900		1200	-	200	18	00	6	0	1200	_	1500		1800	
9	Batten type		16.5 2 0.50 0	28 16. 50 0 5	5 28	16.5	28 0.50	16.5 0 50	28 1 050 0	6.5 2 50 0 1	8 16	5 28	16.5	28 0 50	16.5 0 50	28 0.50	16.5 0 50	28 0.50	16.5	28 10 0	5.5 2 50 0	8 50 0-	5 28	c
Defl Spar		300	34.0 5	1.1 16.	5 36.9	8.6	23.1	5.0	14.9 2	25 25	12	7 19.	7.6	14.9	4.8	10.8	12.7	13.0	8.6	9.8	.8 7	8	0 6.5	
lect 1/x)	Single Span	400	28.4 5	1.1 12.	7 31.5	6.5	18.9	3.8	11.8	9.5 25	.5 10.	8.18.	7 6.2	13.1	3.8	9.2	12.1	13.0	7.7	9.8	7 0.6	80 	3 6.3	
ion x - L	Celling Batten (secondary support spacing) = GIR fastening centres - C (mm)	450	26.2 5	1.1 11.	3 29.4	5.8	17.3	3.3	10.7 1	8.6 25	.5	0 18.	5.7	12.4	3.3	8.6	11.8	13.0	7.4	9.8	1.7 7	8. 3.	0 6.0	
limi ./36		600	20.0 4	5.4 8.4	t 24.4	4.3	13.8	2.5	8.4 1	6.3 24	.9 .8	3 16.3	3 4.3	10.7	2.5	1:1	10.9	13.0	6.5	9.8	3.9 7	.2 2.	5 5.3	
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	Colling Patton (consultation connect concing)	400	28.4 5	1.1 12.	7 31.5	6.5	18.9	3.8	11.8 1	9.5 25	.5 10.	8 18.	7 6.2	13.1	3.8	9.2	12.1	13.0	7.7	9.8	0.0	.8	3 6.3	
	Centring Batten (secondary support spacing) GIB fastening centres - C (mm)	450	26.2 5	11 11	3 29.4	5.8	17.3	3.3	10.7 1	8.6 25	.5 10	0 18	5.7	12.4	3.3	8.6	11.8	13.0	7.4	9.8	1.7 7		0 6.0	
	•	909	20.0 4	5.4 8.4	t 24.4	4.3	13.8	2.5	8.4 1	6.3 24	6 <u>.</u> 8	3 16.	3 4.3	10.7	2.5	17	10.9	13.0	6.5	8.6	1 28	.2 2.	5.3	
	Suspension distance - A (mm)					006							1200							1500				
	Primary Support Spacing - B (mm)		006		1200	5	00	180	0	006		1200	-	200	18	00	6	0	1200		1500		1800	
I S	Batten type		16.5 2 0.50 0.	28 16. 50 0.5	5 28 0 0.5(16.5 0.50	28 0.50	16.5 0.50	28 1 0.50 0	6.5 2 1.50 0.1	8 16 50 0.5	.5 28 50 0.5	16.5 0 0.50	28 0.50	16.5 0.50	28 0.50	16.5 0.50	28 0.50	16.5 0.50 (28 1 0.50 0	5.5 2 50 0.	8 16 50 0.!	5 28 50 0.5(0
Defl par		300	24.5 4	2.7 11.	9 26.6	6.2	16.7	3.6	10.7 1	5.5 18	 	1 13.6	3 5.5	10.7	3.4	7.8	9.2	9.4	6.2	7.0	1.2 5	.6	9 4.7	
ect 1/xx	Single Span	400	20.4 3	8.7 9.	22.7	4.7	13.6	2.7	8.5 1	4.0 18	.3 7.	8 13.5	5 4.5	9.5	2.7	6.6	8.7	9.4	5.6	7.0	6 5	.6 2.	4 4.6	
ion (- L	celling batten (secondary support spacing) GIR fastaning centres - C (mm)	450	18.8 3	7.0 8.	21.2	4.2	12.5	2.4	7.7	3.4 18	.3 7.	2 13.(4.1	8.9	2.4	6.2	8.5	9.4	5.3	7.0	3.4 5	.6 2.	2 4.3	
limi /50		009	14.4 3	2.7 6.	17.6	3.1	10.0	1.8	. 0.9	11.7 17	.9 6.	0 11.7	3.1	7.7	1.8	5.1	7.9	9.4	4.7	7.0 2	.8	.2 1.	3.8	
t O		300	37.8 4	3.5 21.	9 32.6	13.0	26.1	8.1	19.7	8.3 18	.3 13.	2 13.6	3 9.2	11.0	6.4	9.2	9.4	9.4	7.0	7.0	6 5	6 4	4 4.7	
	Continuous Span	400	33.5 4	3.5 18.	2 32.6	10.4	23.8	6.3	16.5	18.1 18	.3 12	0 13.6	3 7.9	11.0	5.3	9.2	9.4	9.4	7.0	7.0	6.3 5	.6 3.	9 4.7	
	Cenning batten (secondary support spacing) GIR factening centres - C (mm)	450	31.7 4	3.5 16.	8 32.6	9.5	22.3	5.7	15.2	17.7 18	.3 11.	4 13.8	3 7.4	11.0	4.9	9.2	9.4	9.4	7.0	7.0	5.1 5	.6 3.	7 4.7	
		600	27.3 4	3.5 13.	7 29.1	7.5	18.8	4.3	12.4 1	6.4 18	.3 10.	.0 13.6	3 6.2	11.0	4.0	8.6	9.4	9.4	6.5	7.0 4	1.6 5	.6 3.	2 4.7	
	Suspension distance - A (mm)																							
	Primary Support Spacing - B (mm)		006	-	1200	5	00	180	0	006	-	1200	_	200	18	00	6	0	1200		1500	-	1800	
	Batten type		16.5 2	28 16. 2.7	5 28	16.5	28	16.5 2.50	28 1	6.5 2	8 16	5 28	16.5	28	16.5	28	16.5 2.50	28	16.5	28 1	5.5 2 5.5 2	8 16	5 28	
Dei Spa		300	.0 0C.0	ים פיר סיים איני	10.0 0	00.0 1	0c.0	nc.n	0 0C.0	.n oc.		c.u v	9 4 6	00.0	0C.U	00.0	0c.0	0 C.U	ر. 1 ا	0 0 0 5	.0 ℃	- v - v	0.0 0	-
ilec n/x	Single Span	400	17.0 3	2.3 7.6	18.9	3.9	11.3	2.3	. 12	11.7 15		5 11.2	3.7	7.9	2.3	5.5	7.2	7.8	4.6	5.9	6 0.3	7 2.	3.8	
tion x - I	Celling Batten (secondary support spacing) = CIR factoning contrac - C (mm)	450	15.7 3	0.8 6.8	3 17.6	3.5	10.4	2.0	6.4	11.1 15	.3 .3	0 10.8	3.4	7.5	2.0	5.1	1.7	7.8	4.4	5.9 2	8.0	7 1.	3.6	
limi _/60		600	12.0 2	7.2 5.	14.6	2.6	8.3	1.5	5.0	9.8 14	.9 5.	9.6	2.6	6.4	1.5	4.3	6.6	7.8	3.9	5.9 2	2.4 4	.3 1.	5 3.2	
it 0		300	31.5 3	5.2 18.	2 27.2	10.8	21.7	6.7	16.4 1	5.3 15	.3 11.	0 11.5	7.7	9.2	5.3	7.6	7.8	7.8	5.9	5.9 4	1.7 4	7 3.	7 3.9	_
	Continuous Span	400	27.9 3	5.2 15.	2 27.2	8.7	19.8	5.3	13.7 1	15.1 15	.3 10	0 11.5	6.6	9.2	4.4	7.6	7.8	7.8	5.9	5.9 4	1.4	.7 3.	3 3.9	
	Genning batteri (secondar y support spacing) GIB fastening centres - C. (mm)	450	26.4 3	5.2 14.	0 27.2	7.9	18.6	4.8	12.7	4.7 15	.3	5 11.5	6.2	9.2	4.1	7.6	7.8	7.8	5.8	5.9 4	1.2 4	.7 3	1 3.9	_
		009	22.8 3	5.2 11.	4 24.2	6.2	15.7	3.6	10.3 1	3.7 15	.3	4 11.5	5.2	9.2	3.3	1:1	7.8	7.8	5.4	5.9 3	8.8	.7 2.	7 3.9	

SRP[™] CEILING SYSTEMS

See notes

* For A, B, C dimensions refer to relevant figure

SRP[™] CEILING SYSTEMS

TABLE 5

* For A, B, C dimensions refer to relevant figure

See notes

	Deflection limit Span/xx - L/360											l S	Defl ipan	ecti /xx	on li - L/	mit 500							S	Defl Span	ecti /xx	on li - L/(mit 600				
	Batten fastening distance - B (mm)	Batten type		Single Span	Celling Batten (secondary support spacing) GIB fastening centres - C (mm)			Continuous Span	Celling batten (secondary support spacing) - GIB fastening centres - C (mm)		Batten fastening distance - B (mm)	Batten type		Single Span	cening batten (secondary support spacing) GIB fastening centres - C (mm)		ntinuous Span liing Batten (secondary support spacing) 3 fastening centres - C (mm)					Batten fastening distance - B (mm)	Batten type	ngle Span siling Batten (secondary support spacing) B fastening centres - C (mm)					Continuous Span	cening batten (secondary support spacing) GIB fastening centres - C (mm)	
			300	400	450	600	300	400	450	600			300	400	450	600	300	400	450	600				300	400	450	600	300	400	450	600
		16.5 0 E0	40.0	30.0	26.7	20.0	96.5	72.3	64.3	48.2		16.5 0.50	28.8	21.6	19.2	14.4	69.5	52.1	46.3	34.7			16.5 0.50	24.0	18.0	16.0	12.0	57.9	43.4	38.6	28.9
DIRECT		28 0 E0	136.9	102.6	91.2	68.4	256.4	192.3	170.9	128.2		28 0.50	98.5	73.9	65.7	49.3	237.4	178.0	158.2	118.7		906	28 0.50	82.1	61.6	54.7	41.1	197.8	148.4	131.9	98.9
r fix - WA	006	22 0 EE	88.1	66.1	58.7	44.0	203.8	152.9	135.9	101.9	900	22 0.55	63.4	47.6	42.3	31.7	152.8	114.6	101.9	76.4			22 0.55	52.9	39.6	35.2	26.4	127.3	95.5	84.9	63.7
ALL - MAXIM		35 0 EE	255.3	191.5	170.2	127.7	389.3	292.0	259.5	194.6		35 0.55	183.8	137.9	122.5	91.9	389.3	292.0	259.5	194.6			35 0.55	153.2	114.9	102.1	76.6	369.0	276.8	246.0	184.5
IMUM FAC		35W	283.2	212.4	188.8	141.6	398.2	298.7	265.5	199.1		35W 0.55	203.9	152.9	135.9	101.9	398.2	298.7	265.5	199.1			35W 0.55	169.9	127.4	113.3	85.0	398.2	298.7	265.5	199.1
E LOADIN		16.5 0 E0	00-00 16.91	12.7	11.3	8.4	40.7	30.5	27.1	20.3	Ľ	16.5 0.50	12.2	9.1	8.1	6.1	29.3	22.0	19.5	14.7			16.5 0.50	10.1	7.6	6.8	5.1	24.4	18.3	16.3	12.2
G (kg/m²)		28 0 E0	57.7	43.3	38.5	28.9	139.1	104.3	92.7	69.5	-	28 0.50	41.6	31.2	27.7	20.8	1001	75.1	66.8	50.1			28 0.50	34.6	26.0	23.1	17.3	83.5	62.6	55.6	41.7
	1200	22 0 EE	37.2	27.9	24.8	18.6	89.5	67.1	59.7	44.8	1200	22 0.55	26.8	20.1	17.8	13.4	64.5	48.3	43.0	32.2		1200	22 0.55	22.3	16.7	14.9	111	53.7	40.3	35.8	26.9
		35 0 EE	107.7	80.8	71.8	53.9	219.0	164.2	146.0	109.5	-	35 0.55	77.6	58.2	51.7	38.8	186.8	140.1	124.5	93.4			35 0.55	64.6	48.5	43.1	32.3	155.7	116.8	103.8	77.8
		35W	119.5	89.6	79.6	59.7	224.0	168.0	149.3	112.0		35W 0.55	86.0	64.5	57.3	43.0	207.2	155.4	138.1	103.6			35W 0.55	7.17	53.8	47.8	35.8	172.7	129.5	115.1	86.3
		16.5 0 E0	8.6	6.5	5.8	4.3	20.8	15.6	13.9	10.4	-	16.5 0.50	6.2	4.7	4.2	3.1	15.0	11.3	10.0	7.5			16.5 0.50	5.2	3.9	3.5	2.6	12.5	9.4	8.3	6.3
		28 0 E0	29.6	22.2	19.7	14.8	71.2	53.4	47.5	35.6	-	28 0.50	21.3	16.0	14.2	10.6	51.3	38.5	34.2	25.6			28 0.50	17.7	13.3	11.8	8.9	42.7	32.0	28.5	21.4
	1500	22 0 ee	19.0	14.3	12.7	9.5	45.8	34.4	30.6	22.9	1500	22 0.55	13.7	10.3	9.1	6.8	33.0	24.8	22.0	16.5		1500	22 0.55	11.4	8.6	7.6	5.7	27.5	20.6	18.3	13.8
		35 0 EE	55.1	41.4	36.8	27.6	132.8	9.66	88.6	66.4	-	35 0.55	39.7	29.8	26.5	19.9	95.6	7.17	63.8	47.8			35 0.55	33.1	24.8	22.1	16.5	7.67	59.8	53.1	39.9
		35W	61.2	45.9	40.8	30.6	143.4	107.5	95.6	71.7		35W 0.55	44.0	33.0	29.4	22.0	106.1	79.6	7.07	53.0			35W 0.55	36.7	27.5	24.5	18.3	88.4	66.3	58.9	44.2

TABLE 6

See notes

* For A, B, C dimensions refer to relevant figure

SRP[™] CEILING TABLES 3 – 6 NOTES

- SRP[™] Ceiling Tables are for internal ceiling applications for Importance Level 1 or 2 only where seismic considerations are not specifically required (example non-structural ceilings designed to NZS 3604:2011). Institutional applications or Importance Level 3 or 4 Specific Engineering Design is required. Contact SRP[™] for further details.
- Strength and serviceability calculations as per AS/ NZS 1170 and AS/NZS 4600 for uniformly distributed gross maximum loading (kg/m²) with a deflection limit of SRP[™] Ceiling element span /360 /500 /600. Ultimate Limit State wind pressure, or concentrated live/dead loading will require Specific Engineering Design. Contact SRP[™] for further details.
- Serviceability wind pressure and self-weight (2.5kg/ m² for 300 c/c, 1.5kg/m² for 600 c/c battens; use linear interpolation for other batten spacing) of the ceiling structure itself to be deducted from specified maximum loadings.
- 4. Suspended and Direct fix ceiling and wall tables assume no deflection and adequate capacity within overall building structure to withstand design loads applied from Steel SRP[™] Ceiling literature. This should be confirmed by the project Structural Engineer.
- 5. Tables are applicable for either suspended or direct fix ceiling and wall structure options with minimum 10mm Plasterboard applied to the external face in accordance with Manufacturers' requirements and SRP™ Handbook. *Standard GIB® plasterboard is assumed, performance and/or specialty boards may also be used, subject to having equal or better structural properties.

- 6. Standard SRP[™] brackets and clips to be directly fixed to the ceiling, wall (concrete or masonry) for direct fix applications. Adequate minimum resistance to uplift as per NZS 2785 to be designed and assessed by a suitably qualified Structural Engineer on a case by case basis. Contact SRP[™] for more information. Strength of fixings, splice connections and suspension struts/cables are subject to further consideration.
- 7. Converting kg/m² to kN/m² apply a conversion factor of 9.81×10 -3 or 0.00981.
- Material as per AS 1397 G250 Z275 steel (or greater). BMT = Base metal thickness, TCT = Total coated thickness.
- 9. Consideration has not been given to fire specialist fire engineering will also be required for FRR ceilings.
- 10. Acoustic requirements are not considered and are the responsibility of the specifier.
- Storage and installation should be in strict accordance with SRP[™] Handbook and project specific design documentation.
- 12. Designers should factor in the effects of temperature and creep when selecting SRP[™] product sizes.
- No service holes are allowed in the SRP[™] Ceiling products.
- For more information on any of the above, please contact SRP[™] on 09-579 0175





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