

# designersplash

Technical Information



SUPPLIED BY:

**PSP** MATERIALS  
PRODUCTS  
SOLUTIONS

Technical Information provided by SGS-CSTC Standards Technical Services CO LTD.

FIRE PROOF B1 LEVEL				
Panel Thickness	Standard	Unit	4mm	4mm
Thickness of Aluminium	DIN 1784	mm	0.5	0.3
Aluminium Thickness Deviation	DIN 1784	mm	±0.01	±0.01
Weight		Kg/m <sup>2</sup>	7.4	6.9
Tolerance in Length	DIN 16927/ISO 11833-1	mm	-0/+3	-0/+3
Tolerance in Width	DIN 16927/ISO 11833-1	mm	±1	±1
Tolerance in Thickness	DIN 16927/ISO 11833-1	mm	±0.20	±0.20
Horizontal Flatness	DIN ISO 1101	mm	4	4
Longitudinal Roughness	DIN ISO 1101	mm	5	5

TECHINCAL PROPERTIES				
Technical Properties	Standard	ENAW	4mm	4mm
Alloy	EN 573-3	ENAW	1100	
Temper of Cover Sheets	EN 515		H16/H18	
Modulus of Elasticity	EN 1999 1-1	N/mm <sup>2</sup>	70000	
Tensile Strength of Aluminium	EN 485-2	N/mm <sup>2</sup>	Rm ≥ 145	
0.2% Proof Stress	EN 485-2	N/mm <sup>2</sup>	Rp0.2 ≥ 115	
Elongation	EN 485-2	%	A50 ≥ 3	
Linear Thermal Expansion	EN 1999 1-1	mm/m/°C	2.4 at 100 °C Temp difference	
Apparent Thermal Conductivity	ASTM D976	kcal/m.hr.°C	0.39	0.35
Deflection Temperature	ASTM D648	°C	116	109

CORE				
Technical Properties	Standard	ENAW	4mm	4mm
Fire Resist Core	-	KG/m <sup>2</sup>	1.45	

SURFACE				
Surface	Standard	ENAW	4mm	4mm
Outside Surface	-	µm	FEVE/PVDF, ≥ 26µm	
Gloss (intial value)	ASTM D523-89	%	30-80	30-80
Pencil Hardness	ASTM D522-88		1-2H	1-2H
Inside Surface		µm	Protective paint, ≥ 8µm	

ACOUSTICAL PROPERTIES				
Properties	Standard	ENAW	4mm	4mm
Sound Absorption Factor $\alpha_s$	ISO 354	-	0.05	
Sound Transmission Loss $R_w$	ASTM E413	DB	26	26

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MECHANICAL PROPERTIES				
Properties	Standard	ENAW	4mm	4mm
Tensile Strength	ASTM E8	Kg/mm <sup>2</sup>	5	5
Yield Strength	ASTM E8	Kg/mm <sup>2</sup>	4.5	4.2
Elongation	ASTM E8	%	5	5
Flexural Rigidity (20cm span)	ASTM C393	x10 <sup>5</sup> Kg.mm <sup>2</sup>	14	14
Flexural Elasticity	ASTM C393	Kg/mm <sup>2</sup>	4060	4060

Flammability	Standard
As per ASTM E84	Class A
As per ASTM E119: 1-hr Fire Rating & 2-hr Fire Rating	PASSED
As per BS 476, Part 6	Class 0
As per BS 476, Part 7	Class 1
As per EN 13501-1	B-S1, D0

**Do not use products containing Sodium Hydroxide on DesignerSplash.**