

Performance index

Item	units	LITE				PLUS				PREMIUM			
		Alu. Thickness: 0.2mm				Alu. Thickness: 0.25mm				Alu. Thickness: 0.3mm			
	mm	2	3	4	6	2	3	4	6	2	3	4	6
Alu thickness tolerance	mm	±0.02				±0.02				±0.02			
Alu grade		1100				1100				1100, 3003, 5005			

Composite Panel Size

Panel weight	Kg/m ²	≥2.93	≥4.08	≥5.23	≥7.53	≥3.09	≥4.24	≥5.39	≥7.69	≥3.25	≥4.40	≥5.55	≥7.85
Panel length tolerance	mm	±3				±3				±3			
Panel width tolerance	mm	±2				±2				±2			
Panel thickness tolerance	mm	±0.2				±0.2				±0.2			

Mechanical Property

Bending strength	MPa	/	≥50		/	≥50		/	≥50				
Penetration resistance	MPa	/	≥3		/	≥3		/	≥5				
Shear strength	MPa	/	≥12		/	≥12		/	≥12				
Tensile strength of Alu	MPa	≥145											
Alu Proof stress(0.2%)	MPa	≥115											
The elongation of Alu	%	≥2											
Liner thermal expansion	mm/m	≤2.4(100°C) Aluminum product											
	°C-1	≤0.0004 Composite panel											
Thermal deformation temperature	°C	≥85											
180° peel strength	N/mm	≥4				≥4				≥5			
Heat resistance water	/	No change											

Composite Panel Core

Core density		1.15-1.20										
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Coating

Coating thickness	μm	Single avg≥16 min≥14; Double avg≥25 min≥23; Third avg≥32 min≥30										
Glossiness	%	≥25										
Coating hardness	/	≥HB										

Acoustic Performance

Sound absorption factor	α	0.05											
Sound insulation factor	dB	23	25	26	27	23	25	26	27	23	25	26	27

Thermal Performance

Heat transition coefficient	W/mK	5.98	5.65	5.54	5.34	5.98	5.65	5.54	5.34	5.98	5.65	5.54	5.34
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