

# ALUMINIUM COMPOSITE

## 0.12mm SKIN

Panel Dimensions				
Panel Thickness (mm)	2.0	3.0	4.0	6.0
Aluminium Thickness (mm)	0.12	0.12	0.12	0.12
Weight (kg/m <sup>2</sup> )	2.49	3.51	4.47	6.44
Dimensional Tolerances (mm)				
Thickness	+/- 0.2			
Width	-0 + 2.0			
Length	-0 + 3.0			
Diagonal	-0 + 5.0			
Thermal Expansion	2.4mm/m @100°C Temp Difference			
Aluminium Thickness (mm)	Where applicable as specified in EN485-4; otherwise ±0.02			
Surface Properties				
Paint Thickness (micron)	20			
Pencil Hardness	>HB			
Toughness of Coating	3T			
Gloss level tolerance	±5%			
Temperature Resistance	-50°C to + 80°C			
Impact Strength (kg cm <sup>2</sup> )	42			
Boiling Water Resistance	Boiling for 2hrs without change			
Acid Resistance	Immerse Surface in 2% HCl for 24 hrs without change			
Alkali Resistance	Immerse Surface in 2% NaOH for 24 hrs without change			
Oil Resistance	Immerse Surface in 20# engine oil for 24 hrs without change			
Solvent Resistance	Cleaned 100 times with Dimethylbenzene without change			
Cleaning Resistance	>1000 times without change			
Peel Strength (Newton/mm)	>5			
Product Properties				
Sound Absorbion NRC	0.05			
Sound Attenuation R <sub>w</sub> db	24			
Water Absorbion % By Volume	0.01			
Thermal Performance R Values	0.0057			
Core Composition	Polyethylene			
Core Density (kg/m <sup>3</sup> )	0.97 (± 0.03)			
Tensile strength of Aluminium (MPa)	148			
Reaction to Fire Classification	EN13501-1 - Class D			