

# ALUMINIUM COMPOSITE

0.3MM SKIN

## Panel Dimensions

Panel Thickness (mm)	2.0	3.0	4.0	6.0
Aluminium Thickness (mm)	0.30	0.30	0.30	0.30
Weight (kg/m <sup>2</sup> )	3.18	4.20	5.15	7.13

## 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
Sheet Flatness Tolerance	0 – ≤2mm across any measured point of the panel perimeter from a flat surface

## 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