

ALUMINIUM COMPOSITE

0.20mm SKIN

| Panel Dimensions | | | | |
|---------------------------------------|---|------|------|------|
| Panel Thickness (mm) | 2.0 | 3.0 | 4.0 | 6.0 |
| Aluminium Thickness (mm) | 0.20 | 0.20 | 0.20 | 0.20 |
| Weight (kg/m ²) | 2.83 | 3.86 | 4.81 | 6.79 |
| 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 ²) | 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 Absorbtion NRC | 0.05 | | | |
| Sound Attenuation R _w db | 24 | | | |
| Water Absorbtion % By Volume | 0.01 | | | |
| Thermal Performance R Values | 0.0057 | | | |
| Core Composition | Polyethylene | | | |
| Core Density (kg/m ³) | 0.97 (± 0.03) | | | |
| Tensile strength of Aluminium (MPa) | 148 | | | |
| Reaction to Fire Classification | EN13501-1 - Class D | | | |