

## Technical Details

Mar 2026

| Property                             | Units   | Value                              |            |            |            |
|--------------------------------------|---|------------------------------------|------------|------------|------------|
| <b>Surface Properties</b>            |   |                                    |            |            |            |
| Face Finish                          |   | Polyester Paint: white and colours |            |            |            |
| Surface Pencil Hardness              |   | > HB                               |            |            |            |
| Toughness of Coating                 |   | 3T                                 |            |            |            |
| Gloss Level Tolerance                |   | +/- 5%                             |            |            |            |
| <b>Physical Properties</b>           |   | <b>2mm</b>                         | <b>3mm</b> | <b>4mm</b> | <b>6mm</b> |
| Skin                                 | mm  | 0.3                                | 0.3        | 0.3        | 0.3        |
| Weight                               | Kg/m <sup>2</sup>   | 2.9                                | 3.8        | 4.75       | 6.6        |
| Panel Thickness Tolerance            | mm  | +/- 0.2                            |            |            | +/- 0.4    |
| Sheet Flatness Tolerance             | 0 – ≤2mm across any measured point of the panel perimeter from a flat surface |                                    |            |            |            |
| Aluminium Thickness Tolerance        |   | Complies to EN 485-3               |            |            |            |
| Core Composition                     |   | 100% Recycled LLDPE                |            |            |            |
| Core Density                         | g/cm <sup>3</sup>   | 0.94 (+/- 0.03)                    |            |            |            |
| Width Tolerance                      | mm  | 0 - +2                             |            |            |            |
| Length Tolerance                     | mm  | 0 - +3                             |            |            |            |
| Diagonal Tolerance                   | mm  | 0 - +4                             |            |            |            |
| <b>Mechanical</b>                    |   | <b>2mm</b>                         | <b>3mm</b> | <b>4mm</b> | <b>6mm</b> |
| Rigidity                             | kNcm <sup>2</sup> /m  | 298                                | 753        | 1414       | 3357       |
| Peel Strength                        | N/mm  | > 3                                |            |            |            |
| Tensile Strength of Aluminium Layers | MPa   | 149                                |            |            |            |
| Modulus of Elasticity                | N/mm <sup>2</sup>   | 70'000                             |            |            |            |
| Elongation                           | %   | A50 >3                             |            |            |            |
| <b>Thermal</b>                       |   |                                    |            |            |            |
| Temperature Resistance               | °C  | -20 to +80                         |            |            |            |
| Thermal Expansion                    | mm/m°C  | 0.024                              |            |            |            |
| Thermal Resistance                   | m <sup>2</sup> K/W  | 0.0057                             |            |            |            |
| <b>Acoustic</b>                      |   |                                    |            |            |            |
| Sound Absorption α <sub>s</sub>      |   | 0.05                               |            |            |            |
| Sound Insulation R <sub>w</sub>      |   | 24                                 |            |            |            |

### Fire Classification\*

| Standard  | Class   |
|-----------|---------|
| EN13501-1 | C-s2,d0 |

\*PE finishes, not Brushed or Mirror finishes

### Did you know:

**Recycling:** All products from the Alupanel range can be recycled after use- ask your sales rep about our Closed Loop Recycling Scheme

**Fire Rating:** for projects in public areas and events which require a higher level of fire rating we also have a Alupanel M1 core version of the product- ask your sales rep for more information.

### Warranty:

Alupanel with PE paint & Silver Aluminum Brushed finishes have a 5-year limited warranty for external use. All other coloured Brushed finishes & Mirror finishes have a 5-year warranty for internal use only.

