**ALUCOBOND TECHNICAL DATA SHEET**

<table>
<thead>
<tr>
<th>Alucobond Type</th>
<th>Alucobond PE</th>
<th>Alucobond PLUS</th>
<th>Alucobond A2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Thickness</td>
<td>Standard</td>
<td>Unit</td>
<td>3mm</td>
</tr>
<tr>
<td>Aluminum skin thickness</td>
<td>mm</td>
<td>Virgin LDPE</td>
<td>0.5</td>
</tr>
<tr>
<td>Core</td>
<td>Weight</td>
<td>kg/m²</td>
<td>4.5</td>
</tr>
<tr>
<td>Section Modulus</td>
<td>Z</td>
<td>DIN 53293</td>
<td>1.25</td>
</tr>
<tr>
<td>Rigidity</td>
<td>EI</td>
<td>DIN 53293</td>
<td>1250</td>
</tr>
<tr>
<td>Modulus of Elasticity</td>
<td>E</td>
<td>EN 1999.1.1</td>
<td>1.25</td>
</tr>
<tr>
<td>Alloy</td>
<td>EN 573.3</td>
<td>EN AW 5050A (A1Mg1)</td>
<td></td>
</tr>
<tr>
<td>Temper</td>
<td>EN 515</td>
<td>H22 / H42</td>
<td></td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>EN 485.2</td>
<td>MPa</td>
<td>0.60</td>
</tr>
<tr>
<td>0.2% Proof Stress</td>
<td>EN 485.2</td>
<td>MPa</td>
<td>0.60</td>
</tr>
<tr>
<td>Elongation</td>
<td>EN 485.2</td>
<td>%</td>
<td>0.00</td>
</tr>
<tr>
<td>Linear Thermal Expansion</td>
<td>EN 1999.1.1</td>
<td>2.4mm/m at 10° C temperature difference</td>
<td></td>
</tr>
<tr>
<td>Finish</td>
<td>EN 13523.2</td>
<td>Finish Dependant - Standard = 30 - 40%</td>
<td></td>
</tr>
<tr>
<td>Pencil Hardness</td>
<td>EN 13523.4</td>
<td>HB - F</td>
<td></td>
</tr>
</tbody>
</table>

### Acoustic Properties
- **Sound Absorption factor** $\alpha_a$ (ISO 354)
- **Sound Transmission Loss** $R_w$ (EN ISO 140.3)
- **Loss Factor** $d$ (EN ISO 6721)

### Thermal Properties
- **Thermal Resistance** $R$ (DIN 52612)
- **Thermal Conductivity** $\lambda$ (DIN 52612)
- **Heat Transition Coefficient** $U$ (DIN 4108)
- **Temperature Resistance** $\theta_C$ (€)

### Fire Behaviour
- **Australian Fire Classification**
- **ABCB CodeMark Certification**
- **ACM**
- **CMA**
- **CM40022**
- **CM40032**
- **CM40059**

### Surface Finishes
- 1. Standard Colour Range
- 2. Spectra Colour
- 3. Sparkling Effect
- 4. Anodized Look
- 5. NaturAL
- 6. NaturAL Finesse
- 7. Wood Design
- 8. Design Decor

### Recycling
Alucobond can be fully recycled, ie. Both the core material and aluminium skins can be recycled and reused for the production of new material.

### Environment, Health & Safety
During the life cycle of ALUCOBOND no substances containing CFC, VOC's are released. The core material does not contain any Nitrogen, Chlorine or Sulphur. 3A Composites were one of the first companies to develop its own environmental management systems which is regularly audited by independant auditors and is certified to EN ISO 14001. All Alucobond finishes are RoHS compliant and contain no Lead, Cadmium, Mercury or Chromium. Alucobond is an ECOSPECIFIER Verified Product and its use can contribute towards AGBC Green Star points. [http://www.ecospecifier.com.au/products/product-summary.aspx?prodid=8644](http://www.ecospecifier.com.au/products/product-summary.aspx?prodid=8644)

### Sheet Sizes
- **Widths**: 1250mm & 1575mm held in stock. 1000mm, 1500mm and special widths up to 2000mm available as project order.
- **Lengths**: 2500mm, 3200mm & 4000mm held in stock. Other lengths up to 10,000mm available as project order.

### Surface Finishes
- High quality Fluoropolymer finishes (PVDF and/or FEVE) with optimum UV & weathering properties are used exclusively.
- Non standard custom colours are available subject to minimum quantity requirements.
- Solar Reflective Indices (SRI) and Light Reflective Values (LRV) for most of the above finishes are available upon request.

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