

## PANEL DESCRIPTION / COMPOSITION

Soffitline®

## APPLICATIONS

|                            | Result   |
|----------------------------|--|
| Applications               | Eaves & Soffits  |
| Type of Building Structure | Residential Housing Buildings within the scope of AS4055, Commercial & Other |
| Wet Areas                  | Yes  |

## PANEL - DIMENSIONAL &amp; GEOMETRICAL CHARACTERISTICS

| Dimensional/Geometrical Characteristic | Specification        | Manufacturing Tolerance | Relevant Standard |
|--|----------------------|-------------------------|-------------------|
| Panel Width                            | 1200mm               | +0 -3 mm                |                   |
| Panel Length                           | 3600mm               | +0 -4 mm                |                   |
| Panel Thickness                        | 6mm                  | +0.5 -0 mm              |                   |
| Profile                                | Recessed Edge        |                         |                   |
| Perpendicularity/squareness of edges   | 2mm/linear meter     |                         |                   |
| Weight (typical)                       | 9.4kg/m <sup>2</sup> |                         |                   |
| Layout Options                         | N/A                  |                         |                   |
| Jointing                               | Concealed            |                         |                   |

## PANEL - STRENGTH &amp; MOISTURE RELATED PROPERTIES

| Physical Property                    | Result                 | Relevant Standard |
|--------------------------------------|------------------------|-------------------|
| Modulus of Rupture (Wet)             | > 8 MPa                | AS2908.2          |
| Modulus of Elasticity (Wet)          | 3-5 GPa                | AS2908.2          |
| Density (Oven Dry)                   | 1350 kg/m <sup>3</sup> | AS2908.2          |
| Water Vapor Diffusion                | Not Required           | Not Required      |
| Water Tightness (24hrs)              | No water droplet       | AS2908.2          |
| Water Absorption (Saturated - 48hrs) | 30 wt%                 | ASTM C 1186       |
| Moisture Content (EMC)               | 7 Wt %                 | ASTM C 1186       |
| Moisture Movement                    | 0.06%                  | ASTM C 1186       |

## PANEL - OTHER DURABILITY/WEATHER RESISTANCE INDICATORS

| Test                  | Result             | Relevant Standard |
|-----------------------|--------------------|-------------------|
| Heat Rain             | PASSED (25 Cycles) | AS2908.2          |
| Freeze Thaw           | PASSED (50 Cycles) | AS2908.2          |
| Warm Water Resistance | PASSED (56 days)   | AS2908.2          |
| Soak Dry              | PASSED (25 Cycles) | AS2908.2          |

## PANEL - FINISH CHARACTERISTICS

| Characteristic             | Result                            | Relevant Standard |
|----------------------------|-----------------------------------|-------------------|
| Finish                     | Preprimed                         |                   |
| Coating Type               | Sealer Type: Clear Sealer On Face |                   |
| Colour Bodied              | No                                |                   |
| Paint Type                 |                                   |                   |
| UV Resistance              | N/A                               | N/A               |
| Formaldehyde Emission Rate | N/A                               | N/A               |
| VOC Emission Rate          | N/A                               | N/A               |

| Spectral Reflectivity Values | Solar Reflectance % | Solar Absorption % | Basix Colour | Relevant Standard |
|------------------------------|---------------------|--------------------|--------------|-------------------|
| Soffitline®                  |                     |                    |              | N/A               |

## PANEL - FIRE RESISTANCE, THERMAL & ACOUSTIC PROPERTIES

| Characteristic                            | Result   | Relevant Standard |
|---|--|-------------------|
| <b>FIRE RESISTANCE</b>                    |  |                   |
| Combustibility                            | Suitable for use in applications where non-combustible materials are specified by the Deemed to Satisfy Provisions of the 2016 BCA Vol 1 Amendment 1 Clause C1.9 (2015 BCA Vol Clause C1.12) |                   |
| Fire Hazard Properties                    | Group 1 Av Specific Extinction Area <250   | AS 5637.1         |
| Classification                            | 1  | AS/NZ 3837        |
| <b>THERMAL CONDUCTIVITY</b>               |  |                   |
| Thermal Conductivity ( $\lambda$ -Factor) | $\approx 0.2776$ W/m.K.  |                   |
| Thermal Expansion Co-efficient            | 0.005-0.01mm/mK  | N/A               |
| <b>ACOUSTIC VALUE</b>                     |  |                   |
| Sound reduction (depends on construction) | N/A  | N/A               |

## SYSTEM SOLUTIONS

| Characteristic  | Result  | Relevant Standard |
|---|---|-------------------|
| Within Scope of AS4055?   | Yes   |                   |
| Wind Loading - Residential housing buildings within the scope of AS4055 | N1, N2, N3, N4, N5, C1, C2, C3  |                   |
| Weatherproofing   | N/A   | N/A               |
| Cyclonic Conditions   | N/A   | N/A               |
| Fire Resistance Limits (FRLs)   | N/A   | N/A               |
| Bushfire Construction   | BAL 40 (Construction for Bushfire Attack Level 40 for an external wall) | AS 3959-8         |
| Acoustic  | N/A   | N/A               |
| Thermal   | N/A   | N/A               |

## FIXING

| Characteristic               |  |
|------------------------------|--|
| Maximum Span (Stud Spacing)  | Up to 1200mm (internal), Up to 1610mm (external) |
| <b>DIRECT FIX</b>            |  |
| Nail to Timber Frame         | No   |
| Screw to Timber Frame        | No   |
| Screw to Steel Frame         | No   |
| <b>CAVITY FIX</b>            |  |
| Timber Frame                 | No   |
| Steel Frame                  | Yes  |
| Masonry Frame                | No   |
| <b>EXPOSED FASTENERS</b>     |  |
| Screw                        | No   |
| Rivet                        | No   |
| Nail                         | No   |
| <b>CONCEALED FASTENERS</b>   |  |
| Clip                         | No   |
| Countersunk Screw/Nail       | Yes  |
| Adhesive, Split Batten, etc. | No   |
| Hidden by Overlapping Panel  | No   |
| Flush Jointed (Taped)        | Yes  |

