

PANEL DESCRIPTION / COMPOSITION

## Commercial Rendaline®

### APPLICATIONS

|                            | Result   |
|----------------------------|--|
| Applications               | Façades & Cladding   |
| Type of Building Structure | Residential Housing Buildings within the scope of AS4055, Commercial & Other |
| Wet Areas                  | No   |

### PANEL - DIMENSIONAL & GEOMETRICAL CHARACTERISTICS

| Dimensional/Geometrical Characteristic | Specification          | Manufacturing Tolerance | Relevant Standard |
|--|------------------------|-------------------------|-------------------|
| Panel Width                            | 1200mm                 | +0 -2 mm                |                   |
| Panel Length                           | 3000mm                 | +0 -2 mm                |                   |
| Panel Thickness                        | 8mm                    | +0.5 -0 mm              |                   |
| Profile                                | Recessed Edge          |                         |                   |
| Perpendicularity/squareness of edges   | 1 mm/linear meter      |                         |                   |
| Weight (typical)                       | 14.0 kg/m <sup>2</sup> |                         |                   |
| Layout Options                         | Vertical               |                         |                   |
| Jointing                               | Concealed              |                         |                   |

### PANEL - STRENGTH & MOISTURE RELATED PROPERTIES

| Physical Property           | Result                 | Relevant Standard |
|-----------------------------|------------------------|-------------------|
| Modulus of Rupture (Wet)    | > 9 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                    | 0.05%            | 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 |
|------------------------------|---------------------|--------------------|--------------|-------------------|
| Commercial Rendaline®        |                     |                    |              | N/A               |

#### PANEL - FIRE RESISTANCE, THERMAL & ACOUSTIC PROPERTIES

| Characteristic  | Result   | Relevant Standard |
|-----------------|--|-------------------|
| FIRE RESISTANCE |  |                   |
| 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     | Group 1 Av Specific Extinction Area <250   | AS/NZ             |

|   |   |               |
|---|---|---------------|
| Properties                                |   | 3837          |
| Classification                            | 1   | AS/NZ<br>3837 |
| Surface Burning Characteristics           | Ignitability =0, Flame Propagation =0, Heat Release =0, Smoke Release=1 | AS1530.3      |
| THERMAL CONDUCTIVITY                      |   |               |
| Thermal Conductivity ( $\lambda$ -Factor) | $\approx 0.2776 \text{ W/mK}$   |               |
| Thermal Expansion Co-efficient            | 0.005-0.01mm/mK   | N/A           |
| ACOUSTIC VALUE                            |   |               |
| 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, C4                                      |                                 |
| Weatherproofing   | Wind loads up to 4.5kpa   | N/A                             |
| Cyclonic Conditions   | N/A   | N/A                             |
| Fire Resistance Limits (FRLs)   | Up to 90/90/90  | Refer to Gyprock® The Red Book™ |
| Bushfire Construction   | BAL 29 (Construction for Bushfire Attack Level 29 for an external wall) | AS 3959-8                       |
| Acoustic  | Acoustic solutions of up to RW/RW+CTR 54/45 are detailed                | Refer to Gyprock® The Red Book™ |
| Thermal   | Thermal solutions of up to RT(sum)/RT(win) 3.5/3.8 are detailed         | Refer to Gyprock® The Red Book™ |

## FIXING

| Characteristic              |              |
|-----------------------------|--------------|
| Maximum Span (Stud Spacing) | Up to 1800mm |
| DIRECT FIX                  |              |

|                              |     |
|------------------------------|-----|
| Nail to Timber Frame         | No  |
| Screw to Timber Frame        | No  |
| Screw to Steel Frame         | No  |
| INDIRECT FIX                 |     |
| Timber Frame                 | Yes |
| Steel Frame                  | Yes |
| Masonry Frame                | Yes |
| EXPOSED FASTENERS            |     |
| Screw                        | No  |
| Rivet                        | No  |
| Nail                         | No  |
| CONCEALED FASTENERS          |     |
| Clip                         | No  |
| Countersunk Screw/Nail       | Yes |
| Adhesive, Split Batten, etc. | No  |
| Hidden by Overlapping Panel  | No  |
| Flush Jointed (Taped)        | Yes |

WARRANTY

25 YEARS

February 24, 2019

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