

PANEL DESCRIPTION / COMPOSITION

Cladding Sheet

APPLICATIONS

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

PANEL - DIMENSIONAL & GEOMETRICAL CHARACTERISTICS

| Dimensional/Geometrical Characteristic | Specification | Manufacturing Tolerance | Relevant Standard | | |
|--|--------------------------------------|---|-------------------|--|--|
| Panel Dimensions | 900mmW x 2400mmL x 6mmD | Width +0 -3 mm Length +0 -4 mm Thickness +0.5 -0 mm | | | |
| | 1200mmW x 1800mmL x 6mmD | | | | |
| | 1200mmW x 2400mmL x 6mmD | | | | |
| | 1200mm W x 2700mmL x 6mmD | | | | |
| | 1200mm W x 3000mmL x 6mmD | | | | |
| | 900mmW x 1800mmL x 4.5mmD | | | | |
| | 900mmW x 2400mmL x 4.5mmD | | | | |
| | 900mmW x 2700mmL x 4.5mmD | | | | |
| | 900mmW x 3000mmL x 4.5mmD | | | | |
| | 1200mmW x 1800mmL x 4.5mmD | | | | |
| | 1200mmW x 2400mmL x 4.5mmD | | | | |
| | 1200mmW x 2700mmL x 4.5mmD | | | | |
| | 1200mmW x 3000mmL x 4.5mmD | | | | |
| | Profile | Square Edge | | | |
| | Perpendicularity/squareness of edges | 2mm/linear meter | | | |

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| Weight (typical) | 6mm = 10kg/m ² , 4.5mm = 7.3kg/m ² |
| Layout Options | Vertical |
| Jointing | Cover Strip |

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 ³ | 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 | Unprimed | |
| Coating Type | | |
| 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 |
|------------------------------|---------------------|--------------------|--------------|-------------------|
| Cladding Sheet | | | | 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 Properties | Group 1 Av Specific Extinction Area <250 | AS/NZ 3837 |
| Classification | 1 | AS/NZ 3837 |
| Surface Burning Characteristics | Ignitability =0, Flame Propagation =0, Heat Release =0, Smoke Release=1 | AS1530.3 |
| THERMAL CONDUCTIVITY | | |
| Thermal Conductivity (λ -Factor) | ≈ 0.2704 W/m.K | |
| 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, C1, C2, C3 | |
| Weatherproofing | Suitable for all building classes as set out in the BCA (ie 1&10, 2-9) | N/A |
| Cyclonic Conditions | N/A | N/A |

| | | |
|-------------------------------|---|---------------------------------|
| Fire Resistance Limits (FRLs) | Up to 120/120/120 - 180/180 | Refer to Gyprock® The Red Book™ |
| Bushfire Construction | BAL 29 (Construction for Bushfire Attack Level 29 for an external wall) , BAL 40 (Eaves only) | AS 3959-8 |
| Acoustic | Acoustic solution of up to RW/RW+CTR 53/44 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 600mm |
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DIRECT FIX

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| Nail to Timber Frame | Yes |
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|-----------------------|---------------------------|
| Screw to Timber Frame | Option for ceilings/eaves |
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| Screw to Steel Frame | No |
|----------------------|----|

INDIRECT FIX

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|--------------|-----|
| Timber Frame | Yes |
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|-------------|----|
| Steel Frame | No |
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|---------------|----|
| Masonry Frame | No |
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EXPOSED FASTENERS

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|-------|----|
| Screw | No |
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|-------|----|
| Rivet | No |
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| Nail | No |
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CONCEALED FASTENERS

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| Clip | No |
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| Countersunk Screw/Nail | Yes |
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| Adhesive, Split Batten, etc. | No |
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| Hidden by Overlapping Panel | No |
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| Flush Jointed (Taped) | No |
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