

TECHNICAL DATA SHEET | BARESTONE™ ORIGINAL

| APPLICATIONS | |
|-----------------------------------|--|
| | RESULT |
| Applications | Façades and Cladding, Internal Linings, Eaves, Ceilings and Soffits |
| 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 Dimensions | 1200 mmW x 2400 mmL x 9 mmD 1200 mmW x 3000 mmL x 9 mmD | Width +0.0 mm / -2.0 mm Length +0.0 mm / -2.0 mm Thickness +0.9 mm / -0.0 mm | |
| Profile | Square Edge | | |
| Perpendicularity/squareness of edges | 1 mm/linear metre | | |
| Weight (typical) | 17.8 kg/m ² | | |
| Layout Options | Horizontal, Vertical, Diagonal | | |
| Jointing | Expressed | | |

| PANEL – STRENGTH & MOISTURE RELATED PROPERTIES | | | |
|--|------------------------|-------------------|--|
| PHYSICAL PROPERTY | RESULT | RELEVANT STANDARD | |
| Modulus of Rupture (Wet) | >18 MPa | AS/NZS 2908.2 | |
| Modulus of Elasticity (Wet) | 9-13 GPa | | |
| Density (Oven Dry) | 1625 kg/m ³ | AS/NZS 2908.2 | |
| Water Vapor Diffusion | Not Required | Not Required | |
| Water Tightness (24hrs) | No water droplet | AS/NZS 2908.2 | |
| Water Absorption (Saturated – 48hrs) | 18 wt% | ASTM C 1186 | |
| Moisture Content (EMC) | 7 wt% | ASTM C 1186 | |
| Moisture Movement | 0.04% | ASTM C 1186 | |

| PANEL – OTHER DURABILITY/WEATHER RESISTANCE INDICATORS | | | |
|--|--------------------|-------------------|--|
| TEST | RESULT | RELEVANT STANDARD | |
| Heat Rain | PASSED (25 Cycles) | AS/NZS 2908.2 | |
| Freeze Thaw | PASSED (50 Cycles) | AS/NZS 2908.2 | |
| Warm Water Resistance | PASSED (56 Days) | AS/NZS 2908.2 | |
| Soak Dry | PASSED (25 Cycles) | AS/NZS 2908.2 | |

| PANEL – FINISH CHARACTERISTICS | | | | |
|-----------------------------------|--|--------------------|--------------|-------------------|
| CHARACTERISTIC | RESULT | | | RELEVANT STANDARD |
| Finish | Prefinished | | | |
| Coating Type | Barestone Original External: Silane (Water Repellent) Barestone Internal: Acrylic Barestone Colours External: Silane + Acrylic | | | |
| Colour Bodied | No – Barestone Original Yes – Barestone Colours | | | |
| Paint Type | | | | |
| UV Resistance | Yes | | | 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 |
| Barestone Original | 39.8 | 60.2 (+/-1.2) | Medium | ASTM E903-96 |

| 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 NCC 2022 C2D10 [2019: C1.9] | | | |
| Fire Hazard Properties | Group Number 1 SMOGRARC ≤ 0.2 (m2.s2 x 1000) | | | |
| Classification | | | | |
| Thermal Conductivity | | | | |
| Thermal Conductivity (λ-Factor) | ≈ 0.4108 W/m.K. ± 4% | | | ASTM C 518-10 |
| Thermal Expansion Co-efficient | 0.005-0.01 mm/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, N6, C1, C2, C3, C4 | | | |
| Weatherproofing | Assessed for serviceability loads to 2.5kPa | | | AS/NZS 4284 |
| Cyclonic Conditions | Tested and assessed to 7.0 kPa | | | AS 4040.3 |
| Fire Resistance Limits (FRLs) | Up to 120/120/120 & -/180/180 | | | Refer to The Red Book™ 1 – Design Guide |
| Bushfire Construction | BAL-40 (Construction for Bushfire Attack Level 40 for an external wall) | | | AS3959-8 |
| Acoustic | Acoustic solutions of up to RW/RW+CTR 56/47dB are detailed | | | Refer to The Red Book™ 1 – Design Guide |
| Thermal | Thermal solutions of up to RT(sum) /RT(win) 3.5/3.8m2.K/W are detailed | | | Refer to The Red Book™ 1 – Design Guide |

FIXING

CHARACTERISTIC

Maximum Span (Stud Spacing) Up to 600 mm

Direct Fix

Nail to Timber Frame No

Screw to Timber Frame No

Screw to Steel Frame No

Screw to Timber Battens Yes

Cavity Fix

Timber Frame Yes

Steel Frame Yes

Masonry Wall Yes (refer to DesignLink for custom solution)

Concealed Fasteners (Internal Use only)

Screw Yes

Rivet Yes

Nail No

Concealed Fasteners

Clip No

Countersunk Screw/Nail No

Adhesive, Split Batten, etc. Yes

Hidden by Overlapping Panel No

Flush Jointed (Taped) No

WARRANTY

10 YEARS