

GeoBoard™

GEOBOARD | Cement Board Building Panel

| PHYSICAL & MECHANICAL PROPERTIES | | |
|---|--|---------------------------|
| PROPERTY | VALUE | STANDARD / REFERENCE |
| Modulus of Elasticity, psi (machine direction, dry) | 652,000* | EN 634.2* |
| Modulus of Rupture, psi | 2,611 | ASTM C120 |
| Shear Strength, psi | 1,308.27 | ASTM D732 |
| Bending Strength, psi | 1,305* | EN 634.2* |
| Tensile Strength, psi (machine direction, dry) | 963.39 | ASTM D1037 |
| Compressive Strength, psi (machine direction, dry) | 2,937.96 | ASTM D1037 |
| Concentrated Static Load | PASS | ASTM E661 |
| Impact Load Test | PASS | ASTM E661 |
| Thermal Conductivity 7/8" (22mm) | 'K' value = 1.511 Btu / hr.ft ² .°F | ASTM C518 |
| | 'R' value = 0.669 °F.ft ² .h / Btu | |
| Linear Variation With Change In Moisture (from 50% to 90% relative humidity) | Length = 0.05% Weight = 2.04% | ASTM D1037 |
| Saturated Thickness Swelling (24-hour water immersion) | Thickness = 0.3% Volume = 0.27% Weight = 9.41% | ASTM D1037 |
| Lateral Nail Resistance Max Load, lbf | 491.39 | ASTM D1761 |
| Nail Head Pull Through, lbf (dry) | 804.04 | ASTM D1037 |
| PH Value | 11 - 12* | EN 634.2* |
| Density – Oven Dry | 78 lbs/ft ³ * | EN 634.2* |
| Moisture Content (at 65% RH) | 6% - 12% * | EN 634.2* |
| Frost Resistance | 50 cycles, zero damage* | EN 634.2* |
| Formaldehyde Content | Zero | MSDS |
| Asbestos Content | Zero | MSDS |
| Rot & Termite Resistance | Resistant to destruction | Resistant / No Food Value |
| Surface Burning Characteristics | CLASS A (0 Flame / 0 Smoke) | ASTM E84 - ANSI / UL 723 |
| UL Listed | File # R25825 | UL 723 |
| Non-Combustibility | Passed 10 Minute Duration | ASTM E136 |

* Values marked with an asterik (*) are the minimum allowable performance requirements of the EN 634.2 European Standard for CBPB. ARMOROC® is in compliance with the EN 634.2 and performance against this standard shall be considered superior where applicable.

¹ All ARMOROC® installations must be designed and reviewed by a qualified architect or engineer. Panels perpendicular to supports. Refer to installation specifications for additional information.

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