



ARMOROC STRUCTURAL CEMENT BOARD

Published 10/12/18

TECHNICAL DATA SHEET		
ITEM	VALUE	STANDARD / REFERENCE
Modulus of Elasticity, psi (machine direction, dry)	≥ 435,000 psi / 3000 Mpa	ISO 8335 Standard*
Modulus of Rupture, psi	2,611	ASTM C120†
Shear Strength, psi	1,308.27	ASTM D732†
Bending Strength, psi	≥ 1,305 psi / 9 Mpa	ISO 8335 Standard*
Tensile Strength, psi (machine direction, dry)	963.39	ASTM D1037†
Compressive Strength, psi (machine direction, dry)	2,937.96	ASTM D1037†
Thermal Conductivity 7/8" (22mm)	'K' value = 1.511 Btu / hr.ft ² .°F 'R' value = 0.669 °F.ft ² .h / Btu	ASTM C518+
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+
Shear Diaphragm (19mm, ultimate shear)	1,703 PLF (with glue) 1,000 PLF (w/out glue)	ASTM E455‡
Lateral Nail Resistance Max Load, lbf	491.39	ASTM D1761+
Nail Head Pull Through, lbf (dry)	804.04	ASTM D1037+
PH Value	11 - 12	ISO 8335 Standard*
Density – Oven Dry	≥ 62.4 lbs/ft ³	ISO 8335 Standard*
Moisture Content (at 65% RH)	6% - 12%	ISO 8335 Standard*
Frost Resistance	50 cycles, zero damage	ISO 8335 Standard*
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/UL 723/ULC S102
Fire Rated Floor & Roof Assemblies	Yes - Refer to Test Reports	UL & NYC MEA
UL Listed	File # R25825	UL 723

* These values are the minimum allowable performance requirements of ISO 8335 International Standard for CBPB. ARMOROC® is in compliance with the ISO 8335 Standard and performance shall be equal to or greater than values set forth by the standard.

† These values are from Bodycote Test Report 0606_M03551 R.3. Sep. 20, 2007, which was an evaluation test on 22mm thick Armoroc, uncalibrated boards. Performance of other thicknesses and finishes may vary but shall still meet or exceed the ISO 8335 Standard.

‡ Shear Diaphragm is reported in Ultimate Shear, allowing the engineer to apply the appropriate safety factor for wind, seismic as suggested by their preferred method of load calculation. Please refer to shear diaphragm test assembly for complete details.

NOTES:

1) All ARMOROC® installations must be designed and reviewed by a qualified architect or engineer. Panels perpendicular to supports. 3/4" minimum for floors, subject to load table and building code limitations. Refer to installation specifications for additional information on proper use and installation of Armoroc. Failure to follow manufacturer's installation instructions will affect product performance.

2) This technical data sheet replaces all previously published technical data sheets or physical & mechanical property sheets

3) ARMOROC® is a registered trademark of Ectek International

Ameriform, LLC., 41 Pope Rd, Holliston, MA 01746
Ph: (508)429-1470 | Fx: (508)429-1765 | www.ameriform.com

