



INSTALLATION GUIDE FOR EXTERIOR APPLICATIONS

Manufacturer

Southern Cross Technologies, Inc
 Delray Beach, FL 33444
 Information: 866.966.4922

Product Description

GreenEboard™: A building panel manufactured from a proprietary formula including Magnesium OxyChloride blends, perlite, reinforcing mesh, and recycled wood dust. Product contains no silica dust.

Uses

Product is suitable for use as a tile backer on countertops, walls and floors, where a durable, environmentally friendly installation is required.

Product can also be used as a backer for outdoor entertainment/kitchen installations, and other exterior stucco and stone veneer applications. This installation guide covers only the exterior installations. See the complete technical guide, available at www.GreenEboard.com for other installation instructions.

Sizes

NOMINAL DIMENSIONS

Width	Length	Thickness	Weight
36"	60"	¼" (6 mil)	1.2 lbs/SF
48"	48"	¼" (6 mil)	1.2 lbs/SF
48"	96"	¼" (6 mil)	1.2 lbs/SF
36"	60"	½" (12 mil)	2.3 lbs/SF
48"	48"	½" (12 mil)	2.3 lbs/SF
48"	96"	½" (12 mil)	2.3 lbs/SF
48"	96"	1/8" (3 mil)	.60 lbs/SF

PHYSICAL PROPERTIES			
Property	Method	½"	¼"
Mold/Fungus	ASTM D3273	0 *	0 *
Flame*	ASTM E84	Class 1 Class A*	Class 1 Class A*
Smoke*	ASTM E84	Class 1 Class A*	Class 1 Class A*
Combustibility*	BS EN1182	Class1A*	Class1A*
Floor System	ASTM C627	Extra Heavy*	
Formaldehyde	EN120	0*	0*
Asbestos	NIOSH9002	0*	0*
Weight/SF	(nominal)	2.3 lbs	1.2 lbs
		Result	Requirement
½" characteristics			
Sound	ASTM E90 Wall system	STC 31 STC 47	
Thermal	ASTM C-518-04	1" R = .493 (°F ft ² h.BTU)	
Squareness	CCMC 6.4.3	0 mm deviation	≤ 2
Length Tolerance	CCMC 6.4.2	-3	± 3
Width Tolerance		-1	
Humidified Deflection	CAN/CSA- A82.20.3-M91	1 mm	≤4
Flexural Strength, Wet	ASTM C947-89	3.14 MPa	
Thickness tolerance mm	CCMC 6.4.1	.6	≤1.6
Hardness, N	CAN3-0188.0- M78	2674 2483 2438	≥2200
Core			
End			
Edge			
Max. Moisture Absorption	ASTM C 1185	27%/24 hrs 29%/48 hrs	
Fastener Pull Through	CAN/CSA- A82.20.3-M91	958	≥320
Fastener Lateral Resistance	ASTM D 1037- 93	720 dry 558 wet 481 aged	≥400
Humidified Deflection	CAN/CSA- A82.20.3-M91	1mm	≤4mm
Impact-Fracture point	CCMC 5.1.2	5 ft.lb. load	
Impact- Indentation	CCMC 5.1.2	.66 dry indentation	≤1
Impact- Indentation	CCMC 5.1.2	.71 wet indentation	≤1





INSTALLATION GUIDE FOR EXTERIOR APPLICATIONS

Materials Needed:

These instructions include guidelines for both ¼" and ½" thicknesses of GreenEboard™. Framing spacing requirements will vary with the thickness. ¼" must be supported at 12" O.C.

Frame Requirements:

The framework supporting GreenEboard™ must be of corrosion resistant metal or treated wood. Framework must be fastened securely to provide a substructure that does not flex without the GreenEboard™ applied. Provide internal sway bracing as needed to create the rigid framework.

The fastener heads must be flush or slightly countersunk so that the GreenEboard™ has continuous contact with the framework.

Horizontal surfaces to be tiled with ceramic or stone tiles must have framing member spacing of 12" O.C. or less, and must comply with engineering deflection standard of L/240.

Horizontal surfaces to be tiled and used as seating areas must comply with engineering deflection standard L/360.

Inside and Outside radius applications can be installed with ¼" GreenEboard™ without pre-soaking the board. Pre-soaking is not recommended. If pre-soaking is used, allow 24 hours to dry

Installing GreenEboard™ on the Framework

Prepare the GreenEboard™ for installation by applying a generous coat of elastomeric cement sealer or latex cement primer to the smooth side and all edges. Allow to dry.

Cut to size and install the GreenEboard™ to the framework with the rough side out. Use non-rusting fasteners that are compatible with the framework materials.

Remove excess dust on surface prior to applying stucco or tile. Follow all manufacturer's instructions for mixing and application of acrylic stucco, using a base coat and finish coat procedure.

Applying the Finish Materials

Apply acrylic stucco base coat or latex modified thinset as a joint filler, then apply mesh joint tape recommended by the stucco manufacturer. Apply a base coat over the entire area to be covered with acrylic stucco. Allow to dry according to manufacturer's instructions. Apply the finish coat.

Areas to be tiled or covered with stone veneer must have the joints filled with latex modified thinset, then mesh tape applied over the joints. Install tile only with latex modified thinset. Grout joints with a flexible grout suitable for exterior use, and seal the grout with elastomeric cement sealer. Areas subject to direct contact with water features must be fully covered with waterproof finish materials, whether acrylic stucco or properly sealed tile and grout.

GreenEboard™ is a non-combustible cement board, suitable for installation with zero clearance appliances. GreenEboard™ installed adjacent to zero clearance gas appliances or woodburning appliances must be installed with an expansion control joint to allow for expansion and contraction of the appliance, and must not be fastened to any part of the heat shield or other part of the appliance that may be subject to movement due to expansion/contraction.

Carefully follow appliance manufacturer's installation

Warranty.

GreenEboard™ is warranted against product failure due to faulty manufacturing for a period of ten years when used in an outdoor application and installed according to these installation guidelines.

Southern Cross Technologies, Inc (SCT) will, at its discretion, replace all defective GreenEboard™ product, and if appropriate, provide funds for labor to remove and re-install. The warranty does not extend to defective finish materials.

The warranty shall be voided by mishandling of partially or fully constructed modular units, or by improper storage of raw materials, or by failure to fully follow installation instructions of GreenEboard and the stucco manufacturer.

To make a warranty claim, proof of purchase must be presented. Provide valid dated delivery documents to the customer at the time of installation. The claimed installation must be left in the damaged condition until a certified third party inspector provided by SCT has visited the installation and filed an official report. Upon receipt of the report, SCT will determine the liability, if any, and contact the customer to make any adjustments.

This is the sole warranty for this use of GreenEboard™, no other warranty, expressed or implied, exists.

All rights reserved. Southern Cross Technologies, Inc 2013

