

ICC-ES Evaluation Report

ESR-3767

Reissued February 2024

This report also contains:


Revised July 2024

- HUD Supplement

Subject to renewal February 2026

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<p>DIVISION: 09 00 00—FINISHES</p> <p>Section: 09 30 00—Tiling</p> <p>DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION</p> <p>Section: 07 25 00—Water-Resistive Barriers/Weather Barriers</p> <p>Section: 07 27 00—Air Barriers</p>	<p>REPORT HOLDER:</p> <p>JOHNS MANVILLE</p>	<p>EVALUATION SUBJECT:</p> <p>1/4-IN. GOBOARD® COMPOSITE BACKER BOARD; 1/2-IN. GOBOARD® COMPOSITE BACKER BOARD;</p> <p>5/8-IN. GOBOARD® COMPOSITE BACKER BOARD;</p> <p>GOBOARD® WEDGE COMPOSITE BACKER BOARD</p>	
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1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2015 and 2012 [International Building Code® \(IBC\)](#)
- 2015 and 2012 [International Residential Code® \(IRC\)](#)

Properties evaluated:

- Physical Characteristics
- Surface Burning Characteristics
- Waterproofness
- Water-resistive barrier
- Air permeability

2.0 USES

2.1 General:

GoBoard® composite backer boards are for use as an alternative non-structural substrate for field-applied ceramic tile or dimensional stone on interior floors, walls, and ceilings in wet and dry areas. GoBoard® Wedge composite backer board is for use on interior floors.

2.2 Backer:

GoBoard® composite backer boards and GoBoard® Wedge composite backer board used as a tile backer board provide equivalent performance to ANSI A118.9 cementitious backer units (CBU).

2.3 Waterproof Membrane:

GoBoard® composite backer boards and GoBoard® Wedge composite backer board used as a waterproof membrane in interior wet areas provides equivalent performance to ANSI A118.10 when installed in accordance with Section 4.2.4 of this report.

2.4 Water Resistive Barrier:

GoBoard[®] composite backer boards are for use as a water resistive barrier when installed in accordance with Section 4.2.8 of this report.

3.0 DESCRIPTION

3.1 General:

GoBoard[®] composite backer boards, as shown in [Figures 1](#) through [3](#), are composite backer boards available in three thicknesses: 1/4-inch (6 mm), 1/2-inch (12.7 mm) and 5/8-inch (15.9 mm). *GoBoard*[®] Wedge composite backer board, as shown in [Figure 4](#), is a composite backer board with a tapering thickness from 1/8 inch (3 mm) to 1 1/8 inches (28.6 mm).

The 1/4-inch (6 mm), 1/2-inch (12.7 mm), and 5/8-inch (15.9 mm) thick *GoBoard*[®] composite backer boards, and the *GoBoard*[®] Wedge composite backer board are considered to be Class A materials with a flame-spread index of 25 or less and a smoke-developed index of 450 or less.

3.2 Materials:

GoBoard[®] composite backer boards and *GoBoard*[®] Wedge composite backer board have a polyisocyanurate foam core laminated with a glass mat facer on each face.

3.3 Physical Properties:

3.3.1 The 1/2-inch (12.7 mm) *GoBoard*[®] composite backer board meets the minimum requirements of a Type II Class 4 board specified in ASTM C1289.

3.3.2 The 5/8-inch (15.9 mm) *GoBoard*[®] composite backer board meets the minimum physical properties of Type II Class 4 board specified in ASTM C1289, with the exception of the limitation on thickness. Thermal properties reported in [Table 6](#) reflect the performance in the nominal material thicknesses.

3.4 Dimensions and Tolerances:

GoBoard[®] composite backer boards and *GoBoard*[®] Wedge composite backer board meet the dimension and tolerance requirements found in ANSI A118.9.

4.0 DESIGN AND INSTALLATION

4.1 Design:

The scope of this report is limited to evaluation of *GoBoard*[®] composite backer boards and *GoBoard*[®] Wedge composite backer board as tile backer boards and waterproof membranes, and *GoBoard*[®] composite backer boards used as a water-resistive barrier and air barrier material. Details related to incorporation of the product beyond that scope are the responsibility of the designer of record.

4.2 Installation:

4.2.1 General: *GoBoard*[®] composite backer boards and *GoBoard*[®] Wedge composite backer board shall be fabricated, identified, and erected in accordance with this report, the approved construction documents and the applicable code. In the event of a conflict between the manufacturer's published installation instructions and this report, this report shall govern. Approved construction documents shall be available at all times on the jobsite during installation.

4.2.2 Fastening: *GoBoard*[®] composite backer boards are to be installed with 0.122-inch-diameter (3.1 mm) x 1 1/2-inch long (38.1 mm) barbed shank roofing nails, #8-18 x 1 1/4-inch-long (32 mm) *GoBoard*[®] Steel Stud screws, #9-18 x 1 1/4-inch-long (32 mm) *GoBoard*[®] Hi-Lo Wood Screws, #7 x 1 5/8-inch-long (41.3 mm) *GoBoard*[®] Hi-Lo Wood Screws for wood with 1 1/4-inch-diameter (32 mm) washers, #6 x 1 5/8-inch-long (41.3 mm) self-tapping screws for steel studs with 1 1/4-inch-diameter (32 mm) washers, #10 x 1 1/4-inch-long (32 mm) Backer-On Screws or 1-inch x 1 1/2-inch (25.4 mm x 38 mm) 16 Ga. galvanized staples. Fastener maximum spacings are indicated in [Tables 1](#) through [5](#).

4.2.3 Joints: A 1/8-inch (3.2 mm) gap is to be provided between *GoBoard*[®] composite backer board and *GoBoard*[®] Wedge composite backer board edges at all joints.

4.2.4 Waterproof Barrier Construction: The following construction shall be used for *GoBoard*[®] composite backer boards and *GoBoard*[®] Wedge composite backer board when used in interior wet areas such as showers and baths. *GoBoard*[®] composite backer boards and *GoBoard*[®] Wedge composite backer board used as the waterproof barrier shall be installed in accordance with either of the following procedures:

4.2.4.1 The composite backer boards shall be laid out with a 1/8-inch (3.2 mm) gap provided at all board joints. The gap shall be filled with Johns Manville *GoBoard*[®] Sealant or *GoBoard*[®] Pro Sealant, silyl-modified polyether

hybrid sealants meeting ASTM C920, Type S, Grade NS, Class 25 or better. The sealant shall be spread over a 1-inch (25.4 mm) width adjacent to the seam on each piece of *GoBoard*[®] composite backer board. The same sealant shall be used to cover a 2-inch (50.8 mm) diameter area over all fastener heads.

4.2.4.2 The composite backer boards shall be laid out with a 1/8-inch (3.2 mm) gap provided at all joints. The gap shall be filled with mortar and a 2-inch (50.8 mm) wide self-adhesive, alkaline resistant fiberglass mesh tape applied parallel to and centered over the joint. Mortar shall then be applied over the joint. Once the mortar is cured, two layers of a liquid water-proofing membrane, meeting ANSI A118.10, shall be applied over the mortar. A final layer of mortar shall be applied over the water-proofing membrane. The same procedure shall be used over fastener heads, except the cement board alkaline resistant fiberglass mesh tape is not required in these areas.

4.2.5 Walls: *GoBoard*[®] composite backer boards may be installed on wall framing with a maximum spacing of 16 inches (406 mm) on center. Vertical *GoBoard*[®] composite backer board edges must be continuously supported.

4.2.6 Ceilings: *GoBoard*[®] composite backer boards may be installed on ceiling framing with a maximum spacing of 16 inches (406 mm) on center.

4.2.7 Floors: The 1/4-inch (6 mm) and 1/2-inch (12.7 mm) thick *GoBoard*[®] composite backer boards and *GoBoard*[®] *Wedge* composite backer board may be installed as a backer for tile flooring. The boards must be fully supported by minimum 19/32-inch-thick (15.1 mm) PS-1, Exposure 1 plywood with joists spaced a maximum of 16 inches (406 mm) on center. The boards shall be installed on a level subfloor with thin-set mortars complying with ANSI A118.1. A tiled floor assembly using 1/4-inch (6 mm) and 1/2-inch (12.7 mm) thick *GoBoard*[®] composite backer boards and installed in accordance with this report meets the requirements for a *Light Commercial Rating*, per the Tile Council of North America *TCNA Handbook*. A tiled floor assembly using *GoBoard*[®] *Wedge* composite backer boards installed in accordance with this report meets the requirements for a *Residential Rating*, per the Tile Council of North America *TCNA Handbook*.

4.2.8 Water-resistive Barrier: The following construction shall be used for *GoBoard*[®] composite backer boards when used on exterior walls as part of a water resistive barrier:

The 1/2-inch (12.7 mm) and thicker *GoBoard*[®] composite backer boards shall be laid out with a 1/8-inch (3.2 mm) gap provided at all board joints. The boards shall be fastened to the framing using 1-inch x 1 1/2-inch (25.4 mm x 38 mm) 16 Ga. galvanized staples at 2 inches (50.8 mm) on center around the perimeter with a 3/8-inch (9.5 mm) edge distance and 6 inches (152.4 mm) on center in the field. The gap at *GoBoard*[®] composite backer board joints shall be filled with Johns Manville *GoBoard*[®] Sealant or *GoBoard*[®] Pro Sealant, silyl-modified polyether hybrid sealants meeting ASTM C920, Type S, Grade NS, Class 25 or better. The sealant shall be spread over a 2-inch (50.8 mm) width adjacent to the seam on each piece of *GoBoard*[®] composite backer board. The same sealant shall be used to cover a 1 1/2-inch-diameter (38 mm) area over all fastener heads.

4.2.9 Thermal Barrier: *GoBoard*[®] composite backer boards and *GoBoard*[®] *Wedge* composite backer board that are tiled over and installed in accordance with this report do not require a thermal barrier on the interior/tiled surface when installed in a floor, ceiling, or wall assembly.

5.0 CONDITIONS OF USE:

The *GoBoard*[®] composite backer boards and *GoBoard*[®] *Wedge* composite backer board described in this report comply with, or are a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** The 1/4-inch (6 mm) and 1/2-inch (12.7 mm) *GoBoard*[®] composite backer boards and *GoBoard*[®] *Wedge* are rated for use on interior applications as identified in this report, except as noted in Sections 5.2.
- 5.2** The 1/2-inch (12.7 mm) and 5/8-inch (15.9 mm) *GoBoard*[®] composite backer boards used as part of a water-resistive barrier in exterior wall applications shall be installed in accordance with Section 4.2.8.
- 5.3** When installed in accordance with this report, *GoBoard*[®] composite backer board will support loads as described in [Tables 1](#) through [5](#).
- 5.4** When installed in accordance with this report, 5/8-inch (15.9 mm) *GoBoard*[®] composite backer board will perform as an air barrier material with air permeability as described in [Table 6](#).
- 5.5** *GoBoard*[®] composite backer boards and *GoBoard*[®] *Wedge* composite backer board shall be considered a combustible building element when assessing construction type in accordance with IBC Chapter 6.
- 5.6** *GoBoard*[®] composite backer boards and *GoBoard*[®] *Wedge* composite backer board evaluated as part of fire-resistance rated assemblies is outside the scope of this report.

- 5.7 Refer to [Tables 2](#) and [3](#) for the maximum veneer load *GoBoard*[®] composite backer boards can support for the intended application.
- 5.8 Installation of 1/4-inch (6 mm) and 1/2-inch (12.7 mm) *GoBoard*[®] composite backer boards requires the backer boards to be supported by a structural sheathing. The 1/4-inch (6 mm) and 1/2-inch (12.7 mm) *GoBoard*[®] composite backer boards and *GoBoard*[®] *Wedge* composite backer board installed on floors must be applied over a rated subfloor.
- 5.9 The 5/8-inch (15.9 mm) *GoBoard*[®] composite backer board for use as a backer for floor tile is outside the scope of this report.
- 5.10 *GoBoard*[®] composite backer boards and *GoBoard*[®] *Wedge* composite backer board shall not be located within 6 inches (152.4 mm) of exposed earth.
- 5.11 *GoBoard*[®] composite backer boards and *GoBoard*[®] *Wedge* composite back board are manufactured in Cornwall, Ontario, Canada under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the [ICC-ES Acceptance Criteria for Water Membranes for Flooring and Shower Liners \(AC115\)](#), dated June 2003 (editorially revised February 2021).
- 6.2 Report of tests in accordance with ANSI A118.1, ANSI A118.9 and ANSI A118.10.
- 6.3 Report of load testing for transverse load, flexural strength, tensile strength, breaking strength, and seam strength.
- 6.4 Report of durability testing, including freezing and thawing, biodeterioration, concentrated loading, falling ball impact, and linear variation due to moisture and temperature.
- 6.5 Report of tests addressing fastener pull through and fastener dowel bearing strength.
- 6.6 Reports of tests in accordance with ASTM E84.
- 6.7 Reports of tests in accordance with NFPA 286.
- 6.8 Reports of tests in accordance with ASTM C627.
- 6.9 Reports of tests in accordance with ASTM D4068.
- 6.10 Reports of tests in accordance with ASTM E331.
- 6.11 Reports of tests in accordance with ASTM C518.
- 6.12 Reports of tests in accordance with ASTM E96.
- 6.13 Report of test in accordance with ASTM E2178.

7.0 IDENTIFICATION

- 7.1 *GoBoard*[®] composite backer boards and *GoBoard*[®] *Wedge* composite back board are identified with the following information:
 - 7.1.1 The ICC-ES Evaluation Report number (ESR-3767).
 - 7.1.2 Manufacturer Name
 - 7.1.3 Product Identification
 - 7.1.4 Production Date, Code, or Lot/Batch Number
- 7.2 The report holder's contact information is the following:

JOHNS MANVILLE
POST OFFICE BOX 5108
DENVER, COLORADO 80217

TABLE 1—TRANSVERSE LOAD PERFORMANCE

SHEATHING	DESCRIPTION OF FRAMING	FASTENER	FASTENER SPACING (edge/field)	IN-USE LOAD DIRECTION	ALLOWABLE LOAD ^{1,2} (psf)	LOAD AT L/240 ² (psf)
1/2-inch GoBoard®	2x4 Stud Grade SPF spaced 16" on center	#9-18 x 1 1/4" GoBoard® Hi-Lo Wood Screws	8"/8" spacing with 3/8" edge distance	Negative	28	20
				Positive	29	23
1/2-inch GoBoard®	2x4 Stud Grade SPF spaced 16" on center	#7 x 1 5/8" GoBoard® Hi-Lo Wood Screws for wood with 1 1/4" diameter washers	12"/12" spacing with 3/8" edge distance	Negative	36	26
				Positive	40	27
5/8-inch GoBoard®	2x4 Stud Grade SPF spaced 16" on center	#9-18 x 1 1/4" GoBoard® Hi-Lo Wood Screws	8"/8" spacing with 3/8" edge distance	Negative	28	20
				Positive	29	23

For SI: 1 inch = 25.4 mm; 1 foot = 304.8 mm; 1 psf = 0.0479 kPa.

¹ Allowable load based on a safety factor of 3.

² The wall framing shall be designed to comply with the deflection limit of Table 1604.3 and Section 1405.10.3 of the IBC, as applicable. The L/240 limit shown above is based on the deflection of the sheathing between the studs.

TABLE 2—ALLOWABLE VENEER WEIGHT BASED ON FASTENER CAPACITY – 1/4-INCH GOBOARD® COMPOSITE BACKER BOARD

ORIENTATION	FASTENER	ALLOWABLE WEIGHT (psf)	
		6" on center fasteners 16" on center studs	12" on center fasteners 16" on center studs
Ceiling ²	0.122" shank diameter x 1 1/2" barbed shank roofing nails (0.383" head diameter)	13	6
	#10 x 1 1/4" Backer-On Screws	13	6
	#9-18 x 1 1/4" GoBoard® Hi-Lo Wood Screws	17	—
	#8-18 x 1 1/4" GoBoard® Steel Stud screws	17	—
	1"x 1 1/2" 16 Ga. galvanized staples	13	6
	#7 x 1 5/8" GoBoard® Hi-Lo Wood Screws for wood with 1 1/4" diameter washers	28	14
	#6 x 1 5/8" GoBoard® self-tapping screws for steel studs with 1 1/4" diameter washers	28	14
Wall ¹	0.122" shank diameter x 1 1/2" barbed shank roofing nails (0.383" head diameter)	18	—
	#10 x 1 1/4" Backer-On Screws	18	—
	#9-18 x 1 1/4" GoBoard® Hi-Lo Wood Screws	36	—
	#8-18 x 1 1/4" GoBoard® Steel Stud screws	36	—
	1"x 1 1/2" 16 Ga. galvanized staples	28	14
	#7 x 1 5/8" GoBoard® Hi-Lo Wood Screws for wood with 1 1/4" diameter washers	98	49
	#6 x 1 5/8" GoBoard® self-tapping screws for steel studs with 1 1/4" diameter washers	98	49

For SI: 1 inch = 25.4 mm; 1 foot = 304.8 mm; 1 psf = 0.0479 kPa.

¹ Allowable load is based on a safety factor of 3.

² Allowable load is based on a safety factor of 5.

TABLE 3—ALLOWABLE VENEER WEIGHT BASED ON FASTENER CAPACITY – 1/2-INCH AND 5/8-INCH GOBOARD® COMPOSITE BACKER BOARDS

ORIENTATION	FASTENER	ALLOWABLE WEIGHT (psf)		
		6" on center fasteners 16" on center studs	8" on center fasteners 16" on center studs	12" on center fasteners 16" on center studs
Ceiling ²	0.122" shank diameter x 1 1/2" barbed shank roofing nails (0.383" head diameter)	15	11	—
	#10 x 1 1/4" Backer-On Screws	15	11	—
	#8-18 x 1 1/4" GoBoard® Steel Stud screws	28	21	—
	#9-18 x 1 1/4" GoBoard® Hi-Lo Wood Screws	28	21	—
	1"x 1 1/2" 16 Ga. galvanized staples	16	12	—
	#7 x 1 5/8" GoBoard® Hi-Lo Wood Screws for wood with 1 1/4" diameter washers	31	23	15
	#6 x 1 5/8" self-tapping screws for steel studs with 1 1/4" diameter washers	31	23	15
Wall ¹	0.122" shank diameter x 1 1/2" barbed shank roofing nails (0.383" head diameter)	18	14	—
	#10 x 1 1/4" Backer-On Screws	18	14	—
	#8-18 x 1 1/4" GoBoard® Steel Stud screws	48	36	—
	#9-18 x 1 1/4" GoBoard® Hi-Lo Wood Screws	48	36	—
	1"x 1 1/2" No. 16 Ga. galvanized staples	41	31	—
	#7 x 1 5/8" GoBoard® Hi-Lo Wood Screws for wood with 1 1/4" diameter washers	142	106	71
	#6 x 1 5/8" self-tapping screws for steel studs with 1 1/4" diameter washers	142	106	71

For SI: 1 inch = 25.4 mm; 1 foot = 304.8 mm; 1 psf = 0.0479 kPa.

¹Allowable load is based on a safety factor of 3.

²Allowable load is based on a safety factor of 5.

TABLE 4—FASTENER HEAD PULL THROUGH VALUES

FASTENER	FASTENER PULL THROUGH STRENGTH ¹ (lbs)					
	1/4-inch GoBoard®		1/2-inch GoBoard®		5/8-inch GoBoard®	
	Wet	Dry	Wet	Dry	Wet	Dry
0.122" shank diameter x 1 1/2" barbed shank roofing nails (0.383" head diameter)	45	52	51	62	51	62
#10 x 1 1/4" Backer-On Screws	45	52	49	52	49	52
#8-18 x 1 1/4" GoBoard® Steel Stud screws	57	68	68	86	68	86
#9-18 x 1 1/4" GoBoard® Hi-Lo Wood Screws	57	68	68	85	68	85
1"x 1 1/2" 16 Ga. galvanized staples	44	55	54	60	54	60
#7 x 1 5/8" GoBoard® Hi-Lo Wood Screws for wood with 1 1/4" diameter washers	98	119	102	180	102	180
#6 x 1 5/8" self-tapping screws for steel studs with 1 1/4" diameter washers	98	119	102	180	102	180

For SI: 1 inch = 25.4 mm; 1 lb = 4.45 N.

¹ Values shown are ultimate loads based on testing in accordance with ASTM D1037 Section 15. No safety factor has been applied.

TABLE 5—ALLOWABLE IN-PLANE RACKING SHEAR STRENGTH (POUNDS PER FOOT)¹

PRODUCT	FRAMING	FASTENER	FASTENER SPACING (edge/field)	ALLOWABLE LOAD (plf)	LOAD FOR 5/8-INCH DEFLECTION ² (plf)	LOAD FOR 0.2-INCH DEFLECTION ² (plf)
1/2-inch and 5/8-inch GoBoard® Dry	2x4 Stud Grade SPF studs spaced 16" on center Double top plate Single bottom plate	1"x 1 1/2" No. 16 Ga. galvanized staples	2"/6" spacing parallel to framing with 3/8" edge distance	158	104	145
1/2-inch and 5/8-inch GoBoard® Wet	2x4 Stud Grade SPF studs spaced 16" on center Double top plate Single bottom plate	1"x 1 1/2" No. 16 Ga. galvanized staples	2"/6" spacing parallel to framing with 3/8" edge distance	146	56	87

For SI: 1 inch = 25.4 mm; 1 plf = 14.6 N/m.

¹Allowable load is based on a safety factor of 3. It is the responsibility of the designer of record to select the appropriate safety factor or deflection limit. Allowable loads were obtained from testing dry and wet assemblies in accordance with ASTM E72 Sections 14 and 15 respectively. Wet assemblies per the standard are to account for wetting possible during construction of a structure, when, because of rain, the framing and sheathing may be wetted on one or both sides. It is the responsibility of the designer of record to select the appropriate values. ²The deflection limits, as published in this table, are based on testing of an 8-foot (2.44 m) x 8-foot (2.44 m) wall assembly.

TABLE 6—TEST VALUES

PROPERTY	PRODUCT							
	1/4-inch GoBoard®		1/2-inch GoBoard®		5/8-inch GoBoard®		GoBoard® Wedge	
		Yield Strength (psi)	Break Strength (psi)	Yield Strength (psi)	Break Strength (psi)	Yield Strength (psi)	Break Strength (psi)	NR
ASTM C947, Average Flexural Strength (4" Wide Specimen on 12" Span)	Dry:	876	1204	813	932	669	747	NR
	Wet:	599	729	375	495	274	453	NR
		Greater than or equal to 50 psi						
Average ANSI A118.1 Shear Bond Strength (7 days dry conditioning)	Greater than or equal to 50 psi							
Average ANSI A118.1 Shear Bond Strength (7 days dry plus 7 days water soaked conditioning)	Greater than or equal to 50 psi							
Average ANSI A118.1 Shear Bond Strength (28 days dry conditioning)	Greater than or equal to 50 psi							NR
Average ANSI A118.1 Shear Bond Strength (84 days dry conditioning)	Greater than or equal to 50 psi							NR
Average ANSI A118.1 Shear Bond Strength (7 days dry plus 100 days water soaked conditioning)	Greater than or equal to 50 psi							NR
ASTM C666, Procedure B, 25 Cycles of Freezing and Thawing	No defects observed							NR
ASTM G21: Resistance to Fungi	No Growth							
ASTM G22: Resistance to Bacteria	No Growth							

See notes at end of [Table 6](#).

(Continued)

TABLE 6—TEST VALUES (CONTINUED)

PROPERTY	PRODUCT			
	1/4-inch GoBoard®	1/2-inch GoBoard®	5/8-inch GoBoard®	GoBoard® Wedge
ASTM D2394 Concentrated Load, Average Compressive Stress at 0.05" Deformation	NR	262 psi	240 psi	NR
ASTM D1037, Section 21: Falling Ball, Average Drop Height Producing Failure	NR	Dry: 30-in. Soaked: 27-in.	Dry: 31-in. Soaked: 34-in	Dry: 19 Soaked: 19
ASTM E84: Surface Burning Characteristics (Testing Conducted on the Board Only)	Class A Material	Class A Material	Class A Material	Class A Material
ASTM E331, Resistance to Water Penetration	—	Pass	Pass	NR
ASTM C627, Robinson Floor Test on Tile Installation System	Light Commercial		—	Residential
ASTM C518 as Specified by ASTM C1289 Section 11.2 Thermal Transmission	1/2-inch GoBoard®: Thermal Resistance of 2.03 hr-ft ² ·°F/BTU @75°F ASTM C1289-15 Type II Class 4 5/8-inch GoBoard®: Thermal Resistance of 2.41 hr-ft ² ·°F/BTU @75°F			NR
ASTM E96 Water Vapor Permeability	1/2-inch GoBoard®: 0.50 Perms 5/8-inch GoBoard®: 0.43 Perms (Procedure A Desiccant Method at 73.4°F, 50%RH)			NR
ASTM E96 Water Vapor Permeability as Modified by TCNA Handbook	1/2-inch GoBoard® 0.69 Perms 5/8-inch GoBoard® 0.53 Perms (Procedure E Desiccant Method at 100±1.8°F, 90±2%RH)			NR
ASTM E2178 Air Permeability	1/2-inch GoBoard®: Air Permeability < 0.004cfm/ft ² at 75 Pa (Meets 2015 IECC C402.5.1.2.1)			NR
ASTM D1037, Section 24, Average Linear Variation Due to Moisture	Less than or Equal to 0.07%			
ASTM D1204, Average Linear Variation Due to Temperature	Less than or equal to 0.7%			
ASTM C297, Average Tensile Strength	Greater than or equal to 35 psi			
2015 IBC Section 803.12 (2012 IBC Section 803.10) Temperature Test, 200°F for 30 minutes	Interior materials did not detach when tested in horizontal and vertical directions			NR
ASTM D4068, Hydrostatic Pressure Test	Pass			
ASTM D751, Average Strength Test Values	Breaking Strength: Greater than 170 psi Seam Strength: Greater than 8 lbf/in			

For SI: 1 inch = 25.4 mm; 1 lb = 4.45 N; 1 psi = 6.8948 kPa

“NR” denotes “Not Required” due to the application.

“—”denotes that this product thickness was not tested.

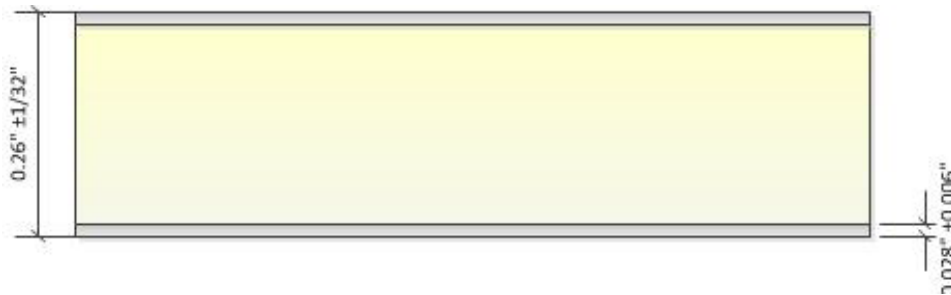


FIGURE 1—1/4-INCH GOBOARD® THICKNESS DIMENSIONS

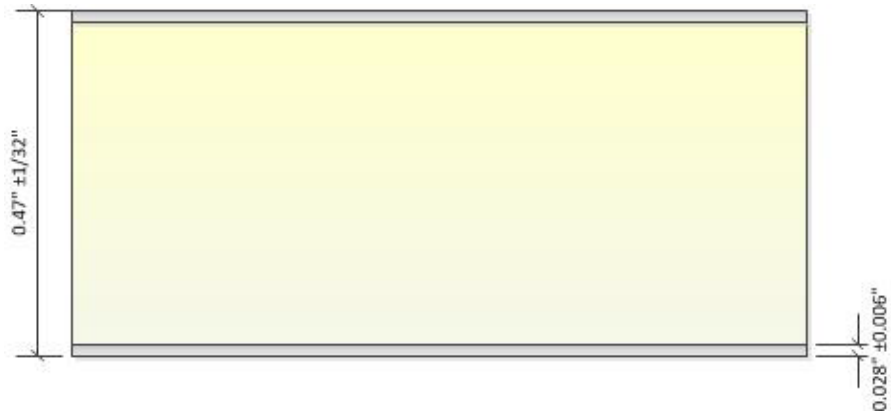


FIGURE 2— $1/2$ -INCH GOBOARD® THICKNESS DIMENSIONS

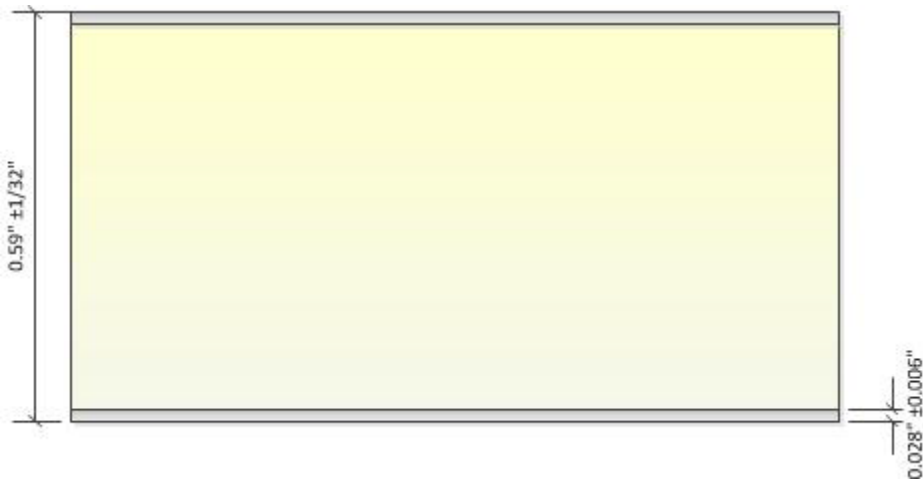


FIGURE 3— $5/8$ -INCH GOBOARD® THICKNESS DIMENSIONS

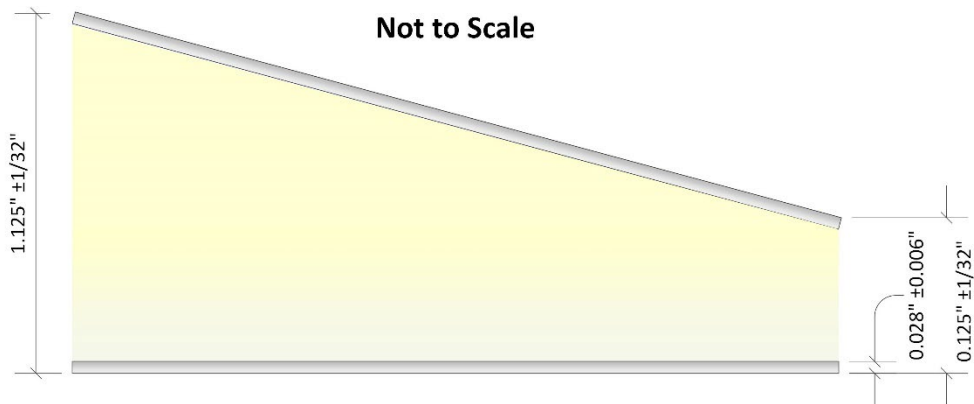


FIGURE 4—GOBOARD® WEDGE THICKNESS DIMENSIONS

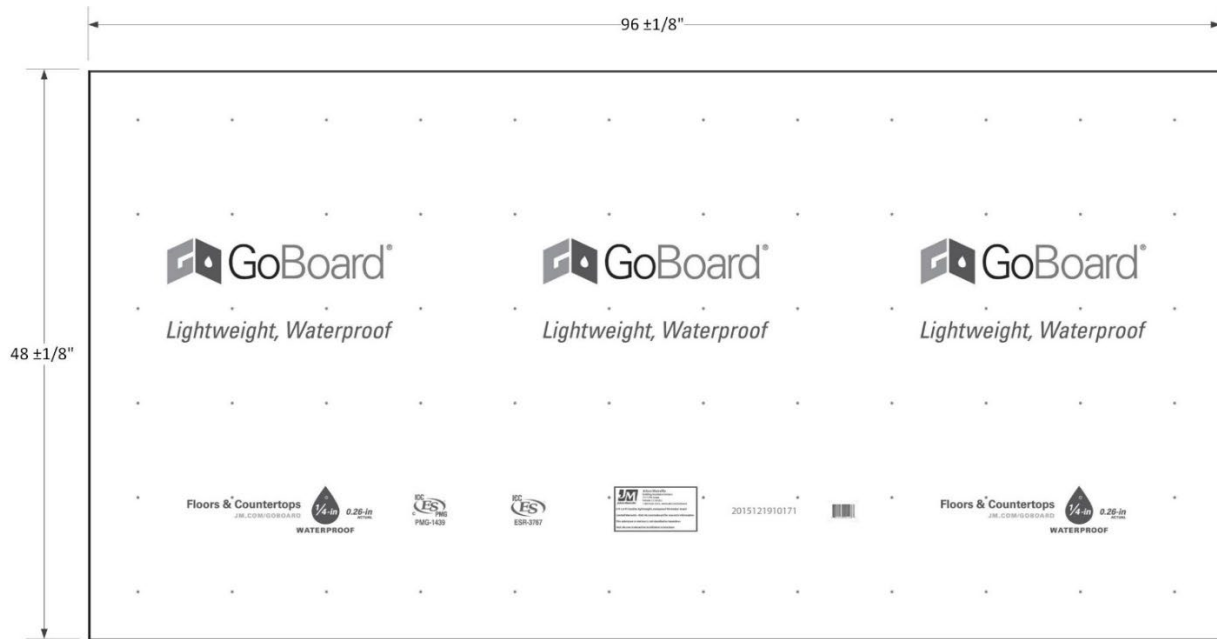


FIGURE 5—GOBOARD® 48-INCH X 96-INCH SHEET DIMENSIONS
(1/4-INCH GOBOARD® IS SHOWN AS AN EXAMPLE; DIMENSIONS ARE THE SAME FOR ALL THREE THICKNESSES)

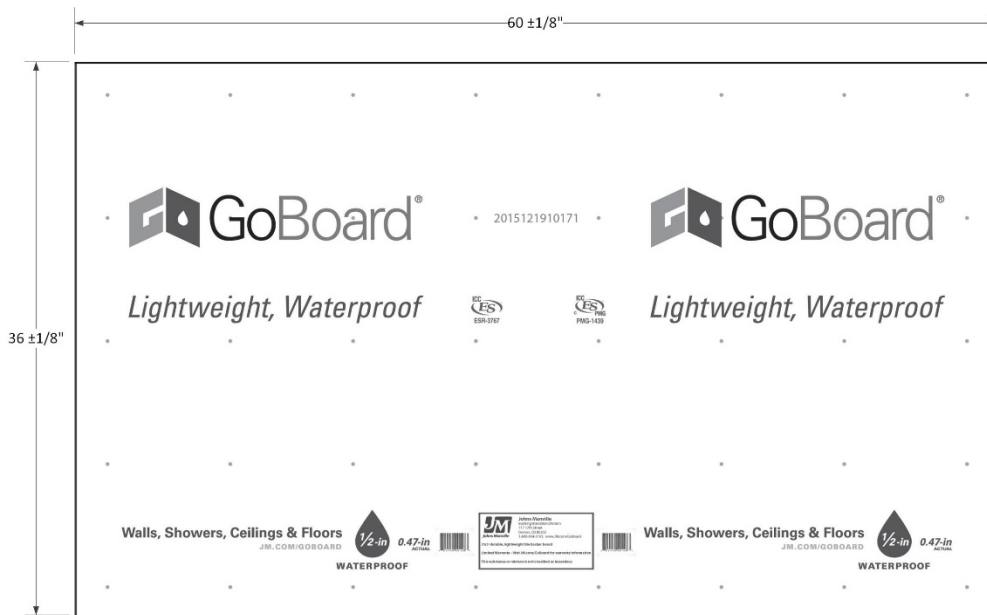


FIGURE 6—GOBOARD® 36-INCH X 60-INCH SHEET DIMENSIONS
(1/2-INCH GOBOARD® IS SHOWN AS AN EXAMPLE; DIMENSIONS ARE THE SAME FOR 1/4-INCH AND 1/2-INCH)

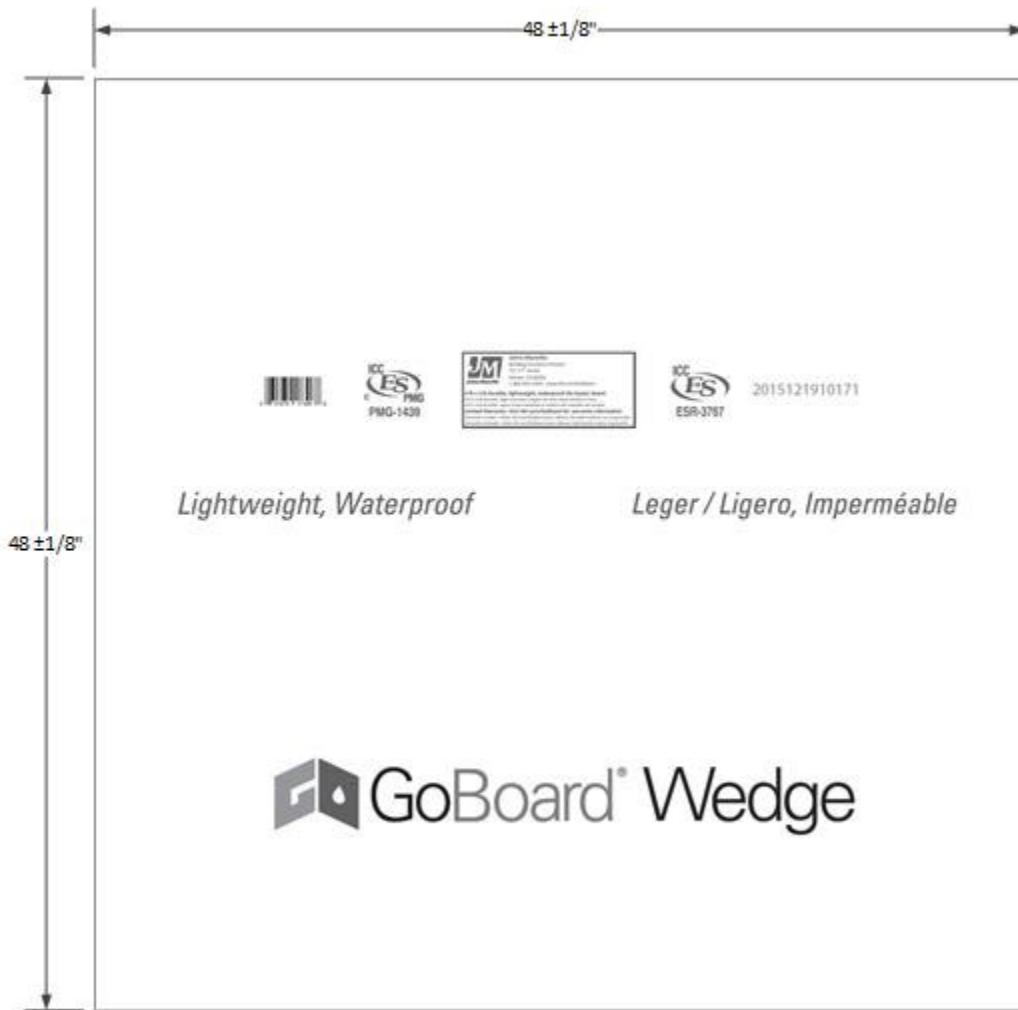


FIGURE 7—GOBOARD® WEDGE 48-INCH X 48-INCH SHEET DIMENSIONS
(ALSO AVAILABLE IN 48-INCH X 96-INCH SHEETS)

DIVISION: 09 00 00—FINISHES**Section: 09 30 00—Tiling****DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION****Section: 07 25 00—Water-Resistive Barriers/Weather Barriers****Section: 07 27 00—Air Barriers****REPORT HOLDER:**

JOHNS MANVILLE

EVALUATION SUBJECT:**1/4-IN. GOBOARD® COMPOSITE BACKER BOARD;
1/2-IN. GOBOARD® COMPOSITE BACKER BOARD;
5/8-IN. GOBOARD® COMPOSITE BACKER BOARD;
GOBOARD® WEDGE COMPOSITE BACKER BOARD**

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the *GoBoard*® composite backer boards and *GoBoard*® Wedge composite backer board, described in ICC-ES evaluation report ESR-3767, have also been evaluated for compliance with the flame spread limitations and fire protection requirements in the applicable section of the following standard.

Compliance with the following standard:

- 24 CFR Part 3280, Manufactured Home Construction and Safety Standards, United States Department of Housing and Urban Development.

Applicable Section: §3280.203 – Flame spread limitations and fire protection requirements.

2.0 CONCLUSIONS

The *GoBoard*® composite backer boards and *GoBoard*® Wedge composite backer board, described in Sections 2.0 through 7.0 of the evaluation report [ESR-3767](#), comply with the flame spread limitations and fire protection requirements of 24 CFR §3280.203 [49 FR 32008, Aug. 9, 1984, as amended at 58 FR 55005, Oct. 25, 1993; 70 FR 72042, Nov. 30, 2005].

3.0 CONDITIONS OF USE

The *GoBoard*® composite backer boards and *GoBoard*® Wedge composite backer board, described in this evaluation report supplement, must comply with all the following condition:

- All applicable sections in the master evaluation report, ESR-3767.

Use of *GoBoard*® composite backer boards and *GoBoard*® Wedge composite backer boards comply only with §3280.203 of 24 CFR Part 3280. Evaluation to other sections of 24 CFR Part 3280 is considered outside of the scope of this supplement.

This supplement expires concurrently with the evaluation report [ESR-3767](#), reissued February 2024 and revised July 2024.