

GoBoard®

TER No. 1811-01

**Johns Manville, A Berkshire Hathaway Company**

717 17<sup>th</sup> Street Ste 800  
Denver, CO 80202-3332  
(303) 978-2000  
[jm.com](http://jm.com)

**Issue Date: March 14, 2019**  
**Subject to Renewal: April 1, 2020**

**DIVISION: 06 00 00 – WOOD, PLASTICS, AND COMPOSITES**

Section: 06 12 00 – Structural Panels  
Section: 06 12 19 – Shear Wall Panels  
Section: 06 16 00 – Sheathing

**DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION**

Section: 07 21 00 – Thermal Insulation  
Section: 07 25 00 – Water-Resistive Barriers/Weather Barriers  
Section: 07 27 00 – Air Barrier

**1. Products Evaluated:**

- 1.1. GoBoard®
- 1.2. For the most recent version of this Technical Evaluation Report (TER), visit [drjengineering.org](http://drjengineering.org). For more detailed state professional engineering and code compliance legal requirements and references, visit [drjengineering.org/statelaw](http://drjengineering.org/statelaw). DrJ is fully compliant with all state professional engineering and code compliance laws.
- 1.3. This TER can be used to obtain product approval in any country that is an IAF MLA Signatory (all countries found [here](#)) and covered by an [IAF MLA Evaluation](#) per the [Purpose of the MLA](#) (as an example, see [letter to ANSI](#) from the Standards Council of Canada). Manufacturers can go to jurisdictions in the U.S., Canada and other [IAF MLA Signatory Countries](#) and have their products readily approved by authorities having jurisdiction using [DrJ's ANSI accreditation](#).
- 1.4. Building code regulations require that evaluation reports are provided by an approved agency meeting specific requirements, such as those found in [IBC Section 1703](#). Any agency accredited in accordance with ANSI ISO/IEC 17065 meets this requirement within ANSI's scope of accreditation. For a list of accredited agencies, visit ANSI's [website](#). For more information, see [drjcertification.org](http://drjcertification.org).

**DrJ is a Professional Engineering Approved Source**

 **Learn more about DrJ's Accreditation**

- DrJ is an ISO/IEC 17065 accredited product certification body through ANSI Accreditation Services.
- DrJ provides certified evaluations that are signed and sealed by a P.E.
- DrJ's work is backed up by professional liability insurance.
- DrJ is fully compliant with IBC Section 1703.

## Technical Evaluation Report (TER)

- 1.5. Requiring an evaluation report from a specific private company (i.e., ICC-ES, IAPMO, CCMC, DrJ, etc.) can be viewed as discriminatory and is a violation of international, federal, state, provincial and local anti-trust and free trade regulations.
- 1.6. DrJ's code compliance work:
  - 1.6.1. Conforms to code language adopted into law by individual states and any relevant consensus based standard such as an ANSI or ASTM standard.
  - 1.6.2. Complies with accepted engineering practice, all professional engineering laws and by providing an engineer's seal DrJ takes professional responsibility for its specified scope of work.

### 2. Applicable Codes and Standards:<sup>1</sup>

- 2.1. 2012, 2015 and 2018 International Building Code (IBC)
- 2.2. 2012, 2015 and 2018 International Residential Code (IRC)
- 2.3. 2012, 2015 and 2018 International Energy Conservation Code (IECC)
- 2.4. ASTM C518 – Standard Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
- 2.5. ASTM C1289 – Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board
- 2.6. ASTM D2394 – Standard Test Methods for Simulated Service Testing of Wood and Wood-Based Finish Flooring
- 2.7. ASTM E72 – Standard Test Methods of Conducting Strength Tests of Panels for Building Construction
- 2.8. ASTM E84/UL 723 – Standard Test Method for Surface Burning Characteristics of Building Materials
- 2.9. ASTM E96 – Standard Test Methods for Water Vapor Transmission of Materials
- 2.10. ASTM E330 – Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference
- 2.11. ASTM E331 – Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
- 2.12. ASTM E2178 – Standard Test Method for Air Permeance of Building Materials
- 2.13. ASCE 7 – Minimum Design Loads for Buildings and Other Structures
- 2.14. AWC Wind & Seismic – Special Design Provisions for Wind and Seismic (SDPWS)

### 3. Performance Evaluation:

- 3.1. GoBoard® was evaluated to determine:
  - 3.1.1. Structural performance under lateral load conditions for wind loading for use with the IBC performance-based provisions, [Section 2306.1](#) and [Section 2306.3](#) for light-frame wood wall assemblies.
  - 3.1.2. Resistance to transverse loads for wall assemblies used in light-frame wood construction in accordance with [IRC Section R301.2.1](#) and [IBC Section 1609.1.1](#).
  - 3.1.3. Performance of the foam plastic component of GoBoard® in accordance with [IRC Section R316](#) and [IBC Section 2603](#).
  - 3.1.4. Performance for use as insulating sheathing (R-value) in accordance with [IRC Section N1102.1](#) and [N1102.2](#) and [IECC Section R402](#).
  - 3.1.5. Compressive performance in accordance with *ASTM D2394*.

---

<sup>1</sup> Unless otherwise noted all references in this code compliant technical evaluation report (TER) are from the 2018 version of the codes and the standards referenced therein, including, but not limited to, ASCE 7, SDPWS and WFCM. This product also complies with the 2000-2015 versions of the IBC and IRC and the standards referenced therein. As required by law, where this TER is not approved, the building official shall respond in writing, stating the reasons this TER was not approved. For variations in state and local codes, if any see [Section 8](#).

## Technical Evaluation Report (TER)

- 3.1.6. Performance for use as a water-resistive barrier (WRB) in accordance with [IRC Section R703.2](#) and [IBC Section 1404.2](#).
- 3.1.7. Performance for use as a vapor retarder in accordance with [IRC Section R202](#) and [Section R702.7](#), and [IBC Section 202](#) and [Section 1404.3](#)<sup>2</sup>.
- 3.1.8. Performance for use as an air barrier in accordance with [IRC Section N1102.4](#) and [IECC Section R402](#).
- 3.1.9. Surface burning characteristics in accordance with [IBC Section 2603.3](#) and [IRC Section R316.3](#).
- 3.2. Use of GoBoard® in a PFH portal frame is outside the scope of this evaluation.
- 3.3. Performance of GoBoard® under lateral load conditions for seismic loading is outside the scope of this TER.
- 3.4. Any code compliance issues not specifically addressed in this section are outside the scope of this Technical Evaluation Report (TER).

## 4. Product Description and Materials:

Figure 1: GoBoard® Structural Sheathing



- 4.1. GoBoard® consists of a high density, closed-cell, rigid polyisocyanurate (polyiso) foam core with proprietary coated fiberglass mats on both faces.
  - 4.1.1. Material Availability
    - 4.1.1.1. Thickness: 1/2" (12.7 mm) and 5/8" (16.9 mm)
    - 4.1.1.2. Standard product width: 48" (1219 mm)
    - 4.1.1.3. Standard length: 96" (2438 mm)

## 5. Applications:

### 5.1. General

- 5.1.1. GoBoard® is used as wall sheathing in Type V construction in accordance with the *IRC and IBC*.
- 5.1.2. GoBoard® is used as insulating structural wall sheathing to provide lateral load resistance (wind) for braced wall panels and shear walls used in wood construction.
- 5.1.3. GoBoard® is used as structural wall sheathing to provide resistance to transverse loads for wall assemblies used in wood construction.
- 5.1.4. GoBoard® contains foam plastics complying with [IRC Section R316](#) and [IBC Section 2603](#).
- 5.1.5. When GoBoard® is installed with GoBoard® Sealant on sheathing seams, it is an approved WRB in accordance with [IRC Section R703.2](#) and [IBC Section 1404.2](#). See the manufacturer's product information for further details.

<sup>2</sup> [2015 IBC Section 1405.3](#)

## Technical Evaluation Report (TER)

5.1.5.1. Where the GoBoard® joints are not sealed, a separate WRB shall be installed in accordance with the WRB manufacturer's installation instructions.

5.1.6. Walls constructed with GoBoard® are used to meet air barrier requirements in accordance with [IRC Section N1102.4](#) and [IECC Section R402](#) when all seams are sealed, including the top and bottom of the walls in accordance with the manufacturer's installation instructions and this TER.

5.1.7. Where the application exceeds the limitations set forth herein, design shall be permitted in accordance with accepted engineering procedures, experience and technical judgment.

### 5.2. Structural Applications

#### 5.2.1. General Provisions

5.2.1.1. Except as otherwise described in this TER, GoBoard® shall be installed in accordance with the applicable building codes listed in [Section 2](#) using the provisions set forth therein for the design and installation of wood structural panels (WSP).

5.2.1.1.1. GoBoard® is permitted to be designed in accordance with *SDPWS* for the design of shear walls using the methods set forth therein, including the perforated shear wall methodology, and subject to the *SDPWS* boundary conditions, except as specifically allowed in this TER.

5.2.1.2. Anchorage for in-plane shear shall be provided to transfer the induced shear force into and out of each shear wall.

5.2.1.2.1. For wind design, anchor bolt spacing shall not exceed 6' o.c.

5.2.1.3. The maximum aspect ratio for GoBoard® shall be 1:1.

5.2.1.4. The minimum full height panel width shall be 24" (610 mm).

5.2.1.5. All panel edges shall be blocked with a minimum 2" (51 mm) nominal lumber.

5.2.1.6. GoBoard® shall be installed with one of the following:

5.2.1.6.1. #9-18 x 1¼" GoBoard® Hi-Lo Wood Screws

5.2.1.6.2. Staples shall be a minimum 16 gauge, 1" (25.4 mm) crown with minimum 1" (25.4 mm) penetration into the stud.

5.2.1.6.3. Galvanized roofing nails minimum 1¼" (32 mm).

5.2.1.7. Fasteners shall be installed flush to the surface of the board.

5.2.1.8. Installation is permitted for single top plate (advanced framing method) or double top plate applications.

5.2.1.9. Where GoBoard® is installed with ½" (12.7 mm) gypsum wallboard on the interior side of the wall, the gypsum sheathing shall be applied to the interior side of the wall assembly and fastened with minimum 5d cooler nails or 1¼" (32 mm) #6 types W or S screws.

5.2.1.10. Where the application exceeds the limitations set forth herein, design shall be permitted in accordance with code-defined accepted engineering procedures, experience, and technical judgment.

## Technical Evaluation Report (TER)

### 5.2.2. Physical Properties

#### 5.2.2.1. Compressive Strength

5.2.2.1.1. GoBoard® panels have the compressive strength listed in [Table 1](#).

Table 1: Compressive Strength of GoBoard®			
GoBoard® Compressive Strength Properties			
Product	Concentrated Loading		
	Compressive load at 0.05" Deformation (lbf)	Compressive stress at 0.05" Deformation (psi)	Deformation at 1,000 lbf. (in.)
GoBoard® 5/8" (15.9 mm)	188	240	0.475

1. Tested in accordance with ASTM D2394.

### 5.2.3. Performance-Based Wood-Framed Construction

5.2.3.1. GoBoard® panels used in wall assemblies designed as shear walls are permitted to be designed in accordance with the methodology used in *SDPWS* for WSP using the capacities shown in [Table 2](#) and [Table 3](#).

5.2.3.2. GoBoard® panel shear walls are permitted to resist lateral wind load forces using the allowable shear loads (in pounds per linear foot) set forth in [Table 2](#).

Table 2: Allowable Unit Shear Design Values for GoBoard® – Wind						
Product (in.)(mm)	GoBoard® Allowable Strength Design (ASD) Capacity - Wind					
	Maximum Stud Spacing (in.)(mm)	Minimum Fastener Type & Size	Fastener Spacing (edge/field) (in.)(mm)	Gypsum Wallboard <sup>1</sup> Thickness (in.)(mm)	Gypsum Wallboard Fastener Spacing (edge/field) (in.)(mm)	Allowable Design Value (plf)
GoBoard® 1/2"(12.7)	16" (406)	16 ga. 1" (25.4 mm) crown x 1" (25.4 mm) leg galvanized staple	2/6 (51/152)	-	-	240
GoBoard® 5/8" (15.9)		16 ga. 15/16" (23.8 mm) crown x 1 1/4" (32 mm) leg galvanized staples	3/6 (76/152)	1/2" (12.7)	3/6 (76/152)	435

1. Gypsum attached with minimum #6 x 1 5/8" coarse drywall screws.

## Technical Evaluation Report (TER)

5.2.3.3. GoBoard® panels are permitted to resist transverse wind load forces using the allowable transverse loads (in pounds per linear foot) set forth in [Table 3](#).

Table 3: Transverse Load Performance of GoBoard®					
Allowable Design Values (psf) for GoBoard® Resisting Out-of-Plane Wind Loads					
Product	Transverse Wind Load Resistance				
	Thickness (in.)	Ultimate Average Pressure (psf)	Allowable Design Value (psf)	Maximum Stud Spacing (in.)(mm)	Fastener Schedule
GoBoard®	5/8" (15.9)	210	130	16" (406)	#9-18 x 1 1/4" (32 mm) GoBoard® Hi-Lo Wood Screw, 8" (203 mm) o.c. at the perimeter and 8" o.c. (203 mm) in the field. 3/8" (9.5 mm) edge distance.
1. For GoBoard®, the ASD allowable uniform load capacities for wind design are determined using the minimum of the nominal uniform load capacities in <a href="#">Table 2</a> divided by an ASD reduction factor of 1.6, per <i>SDPWS</i> Section 3.2.1. 2. Design wind load capacity shall be in accordance with <a href="#">IBC Section 1609.1.1</a> .					

### 5.2.4. Thermal Insulation

5.2.4.1. GoBoard® meets the continuous insulated sheathing requirements complying with the provisions of [IECC Section C402](#).

5.2.4.2. GoBoard® has the thermal resistance as shown in [Table 4](#).

Table 4: GoBoard® Thermal Resistance Properties	
GoBoard® R-value	
Thickness(in.)(mm)	R-Value (h·ft²·°F/Btu)
1/2" (12.7)	2.1
1. Tested in accordance with <i>ASTM C518</i> .	

### 5.2.5. Water-Resistive Barrier

5.2.5.1. GoBoard® may be used as a WRB as prescribed in [IRC Section R703.2](#) and [IBC Section 1404.2](#) when installed on exterior walls as described in this section.

5.2.5.2. GoBoard® shall be installed with board joints placed directly over exterior framing spaced a maximum of 16" (610 mm) o.c. The fasteners used to attach the board shall be installed in accordance with [Section 6](#).

5.2.5.3. All seams and joints shall be sealed with GoBoard® Sealant.

5.2.5.4. A separate WRB may also be provided. If a separate WRB method is used, sealing of the sheathing joints is not required.

5.2.5.5. Flashing must be installed at all sheathing penetrations and shall comply with the all applicable code sections.

## Technical Evaluation Report (TER)

### 5.2.6. Water Vapor Transmission

5.2.6.1. GoBoard® has the water resistance properties as shown in [Table 5](#).

Table 5: GoBoard® Water-Resistance Properties	
GoBoard® Water Vapor Transmission Properties	
GoBoard® ½" (12.7 mm)	< 0.5 Perm
GoBoard® 5/8" (15.9 mm)	
1. Tested in accordance with ASTM E96, desiccant method.	

### 5.2.7. Air Barrier

5.2.7.1. GoBoard® meets the requirements of [IECC Section C402](#) for use as a component of the air barrier when installed in accordance with the manufacturer's installation instructions and this TER with all seams, including the top and bottom edges, taped.

5.2.7.2. All penetrations shall be flashed and sealed in accordance with the flashing manufacturer's installation instructions.

Table 6: GoBoard® Air Barrier Properties	
GoBoard® Air Barrier Properties	
<i>ASTM E2178</i>	< 0.02 (L/s·m <sup>2</sup> ) <sup>1</sup>
1. Liter per second per square meter 2. Tested in accordance with ASTM E2178.	

### 5.2.8. Fire Resistance Properties

#### 5.2.8.1. Surface Burn Characteristics

5.2.8.1.1. GoBoard® panels have the flame spread characteristics as shown in [Table 7](#).

Table 7: Flame Spread & Smoke Developed Indexes of GoBoard®		
Flame Spread & Smoke Developed Indexes of GoBoard®		
Product	Flame Spread	Smoke Developed
GoBoard® ½" (12.7 mm)	< 75	< 450
GoBoard® 5/8" (15.9 mm)		
1. Tested in accordance with ASTM E84.		

## 6. Installation:

### 6.1. General

6.1.1. GoBoard® shall be installed in accordance with the manufacturer's published installation instructions and this TER. In the event of a conflict between the manufacturer's installation instructions and this TER, the more restrictive shall govern.

6.1.2. A copy of the manufacturer's published installation instructions shall be available at all times on the jobsite during installation.

6.1.3. Where required, gypsum wallboard shall be a minimum ½" thickness.

## Technical Evaluation Report (TER)

### 6.2. Orientation

- 6.2.1. GoBoard® must be installed vertically with the length dimension of the panels parallel to the framing behind and all panel edges supported by framing or blocking.
- 6.2.2. GoBoard® must be installed over studs a nominal thickness of not less than 2" (51 mm) and spaced a maximum of 16" (610 mm) o.c.

### 6.3. Fastener Type

#### 6.3.1. GoBoard®

- 6.3.1.1. #9-18 x 1¼" GoBoard® Hi-Lo Wood Screws
- 6.3.1.2. Staples shall be a minimum 16 gauge, 1" (25.4 mm) crown with minimum 1" (25.4 mm) penetration into the stud.
- 6.3.1.3. Galvanized roofing nails minimum 1¼" (31 mm).

#### 6.3.2. Gypsum Wallboard

- 6.3.2.1. Where required, gypsum wallboard shall be installed with a minimum:
  - 6.3.2.1.1. #6 x 1¼" (31 mm) Type W or S screws
  - 6.3.2.1.2. 5d cooler nails

### 6.4. Fastener Spacing

#### 6.4.1. GoBoard®

- 6.4.1.1. Maximum of 8" o.c. (203 mm) along the edge and 8" o.c. (203 mm) in the field.

### 6.5. Fastener Edge Distance

- 6.5.1. Fastener edge distance is a minimum of 3/8" (9.5 mm) for both GoBoard® and gypsum.
- 6.5.2. Where used, always fasten staples parallel to the framing member.

### 6.6. Treatment of Joints

- 6.6.1. GoBoard® sheathing joints must be butted at framing members, and a single row of fasteners must be applied to each panel edge into the framing behind.
- 6.6.2. Do not tack GoBoard® to framing, but fasten each panel completely once fastening begins.

### 6.7. Window Treatments

- 6.7.1. If windows are made to accommodate traditional 1/2" (12.7 mm) sheathing materials, order windows with adjustable nailing fins from the supplier. Door brick moldings may be planed or routed 3/8" (9.5 mm) in order to accommodate the different sheathing thickness, either at the jobsite or by the millwork supplier.
- 6.7.2. GoBoard® must be installed with appropriate flashing and counter flashing in conformance with accepted building standards and in compliance with local building codes and the flashing manufacturer's installation instructions.

## 7. Test and Engineering Substantiating Data:

- 7.1. Thermal resistance property testing conducted by QAI Laboratories in accordance with *ASTM C518*.
- 7.2. Compressive strength testing conducted by Intertek in accordance with *ASTM D2394*.
- 7.3. Lateral load testing conducted by NTA, Inc. in accordance with *ASTM E72*.
- 7.4. Flame spread and smoke developed rating tests conducted by Intertek in accordance with *ASTM E84*.
- 7.5. Water Vapor permeance testing conducted by NTA, Inc. in accordance with *ASTM E96*.
- 7.6. Transverse load testing conducted by NTA, Inc. in accordance with *ASTM E330*.
- 7.7. Water penetration testing conducted by NTA, Inc. in accordance with *ASTM E331*.
- 7.8. Air permeance testing conducted by Intertek in accordance with *ASTM E2178*.



## Technical Evaluation Report (TER)

- 7.9. The product(s) evaluated by this TER fall within the scope of one or more of the model, state or local building codes for building construction. The testing and/or substantiating data used in this TER is limited to buildings, structures, building elements, construction materials and civil engineering related specifically to buildings.
- 7.10. The provisions of model, state or local building codes for building construction do not intend to prevent the installation of any material or to prohibit any design or method of construction. Alternatives shall use consensus standards, performance-based design methods or other engineering mechanics based means of compliance. This TER assesses compliance with defined standards, accepted engineering analysis, performance-based design methods, etc. in the context of the pertinent building code requirements.
- 7.11. Some information contained herein is the result of testing and/or data analysis by other sources, which DrJ relies on to be accurate, as it undertakes its engineering analysis.
- 7.12. DrJ has reviewed and found the data provided by other professional sources are credible. The information in this TER conforms with DrJ's procedure for acceptance of data from approved sources.
- 7.13. DrJ's responsibility for data provided by approved sources conforms with [IBC Section 1703](#) and any relevant professional engineering law.
- 7.14. Where appropriate, DrJ's analysis is based on design values that have been codified into law through codes and standards (e.g., *IRC*, *WFCM*, *IBC*, *SDPWS*, *NDS*, *ACI*, *AISI*, *PS-20*, *PS-2*, etc.). This includes review of code provisions and any related test data that aids comparative analysis or provides support for equivalency to an intended end-use application. Where the accuracy of design values provided herein is reliant upon the published properties of commodity materials (e.g., lumber, steel, concrete, etc.), DrJ relies upon grade/properties provided by the raw material supplier to be accurate and conforming to the mechanical properties defined in the relevant material standard.

### 8. Findings:

- 8.1. When installed in accordance with the manufacturer's installation instructions and this TER, GoBoard® complies with, or is a suitable alternative to, the applicable sections of the codes listed in [Section 2](#) for the following applications:
  - 8.1.1. Lateral load resistance due to wind loads carried by shear walls in accordance with [IBC Section 2306.1](#) and [Section 2306.3](#) for light-frame wood wall assemblies.
  - 8.1.2. Transverse load resistance due to components and cladding pressures on building surfaces in accordance with [IRC Section R301.2.1](#) and [IBC Section 1609.1.1](#).
  - 8.1.3. Performance of foam plastics in accordance with [IRC Section R316](#) and [IBC Section 2603](#).
  - 8.1.4. Performance for use as insulating sheathing (R-value) in accordance with [IRC Section N1102.1](#) and [N1102.2](#) and [IECC Section 402](#).
  - 8.1.5. Compressive performance in accordance with *ASTM D2394*.
  - 8.1.6. Performance for use as a WRB in accordance with [IRC Section R703.2](#) and [IBC Section 1404.2](#).
  - 8.1.7. Performance for use as a vapor retarder in accordance with [IRC Section R202](#) and [Section R702.7](#), and [IBC Section 202](#) and [Section 1404.3](#)<sup>3</sup>.
  - 8.1.8. Performance for use as an air barrier in accordance with [IRC Section N1102.4](#) and [IECC Section 402](#).
  - 8.1.9. Surface burning characteristics in accordance with [IBC Section 2603.3](#) and [IRC Section R316.3](#).
- 8.2. [IBC Section 104.11](#) ([IRC Section R104.11](#) and [IFC Section 104.9](#) are similar) states:

**104.11 Alternative materials, design and methods of construction and equipment.** The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code, provided that any such alternative has been *approved*. An alternative material, design or method of construction shall be *approved* where the *building official* finds that the proposed design is satisfactory and complies with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, not less than the equivalent of that prescribed in this code. Where the alternative material, design or method of

---

<sup>3</sup> [2015 IBC Section 1405.3](#)

## Technical Evaluation Report (TER)

construction is not *approved*, the *building official* shall respond in writing, stating the reasons the alternative was not *approved*.

- 8.3.** This product has been evaluated in the context of the codes listed in [Section 2](#), and is compliant with all known state and local building codes. Where there are known variations in state or local codes that are applicable to this evaluation, they are listed here:

**8.3.1.** No known variations

- 8.4.** This TER uses professional engineering law, the building code, ANSI/ASTM consensus standards and generally accepted engineering practice as its criteria for all testing and engineering analysis. DrJ's professional engineering work falls under the jurisdiction of each state Board of Professional Engineers, when signed and sealed.

### 9. Conditions of Use:

- 9.1.** Where required by the authority having jurisdiction (AHJ) in which the project is to be constructed, this TER and the installation instructions shall be submitted at the time of permit application.
- 9.2.** Any generally accepted engineering calculations needed to show compliance with this TER shall be submitted to the code official for review and approval.
- 9.3.** Design loads shall be determined in accordance with the building code adopted by the jurisdiction in which the project is to be constructed and/or by the Building Designer (e.g., Owner, Registered Design Professional, etc.).
- 9.4.** This product shall be fully protected from the interior of the building by an approved 15-minute thermal barrier or ignition barrier where required by the applicable code.
- 9.5.** In areas where the probability of termite infestation is very heavy, in accordance with [IBC Section 2603.8](#) or [IRC Section R318.4](#), the product must not be placed on exterior walls located within 6" (152 mm) of the ground.
- 9.6.** GoBoard® shall not be used as a nailing base.
- 9.7.** Walls sheathed with GoBoard® shall not be used to resist horizontal loads from concrete and masonry walls.
- 9.8.** When GoBoard® is not installed for use as wall bracing, as described in this TER, the stud walls shall be braced by other materials, in accordance with the applicable code.
- 9.9.** When used as a WRB, GoBoard® seams shall be sealed with GoBoard® Sealant or 2" (51 mm) wide polymer-coated, alkali-resistant fiberglass mesh tape and mortar, coated with a liquid waterproofing membrane for waterproof installations.
- 9.10.** When used in accordance with the *IBC* in high wind areas, special inspections shall comply with [IBC Section 1705.11](#)<sup>4</sup>.
- 9.11.** Design loads shall be determined in accordance with the building code adopted by the jurisdiction in which the project is to be constructed.
- 9.12.** The manufacturer's installation instructions shall be shipped to the jobsite with the materials or otherwise be available on the jobsite for inspection.
- 9.13.** All panel edges shall be supported by wall framing or solid blocking a minimum of 2" (51 mm) nominal in thickness.
- 9.14.** GoBoard® is manufactured in Cornwall, Ontario under a quality control program with quality control inspections in accordance with [IRC Section R109.2](#) and [IBC Section 110.4](#).
- 9.15.** Design
- 9.15.1.** Building Designer Responsibility
- 9.15.1.1.** Unless the AHJ allows otherwise, the Construction Documents shall be prepared by a Building Designer for the Building and shall be in accordance with [IRC Section R106](#) and [IBC Section 107](#).

---

<sup>4</sup> [2009 IBC Section 1705.4](#), [2012 IBC Section 1705.10](#)

## Technical Evaluation Report (TER)

**9.15.1.2.** The Construction Documents shall be accurate and reliable and shall provide the location, direction and magnitude of all applied loads and shall be in accordance with [/IRC Section R301](#) and [/IBC Section 1603](#).

### 9.15.2. Construction Documents

**9.15.2.1.** Construction Documents shall be submitted to the Building Official for approval and shall contain the plans, specifications and details needed for the Building Official to approve such documents.

### 9.16. Responsibilities

**9.16.1.** The information contained herein is a product, material, detail, design and/or application TER evaluated in accordance with the referenced building codes, testing and/or analysis through the use of accepted engineering practice, experience and technical judgment.

**9.16.2.** DrJ TERs provide an assessment of only those attributes specifically addressed in the Products Evaluated or Code Compliance Process Evaluated sections.

**9.16.3.** The engineering evaluation was performed on the dates provided in this TER, within DrJ's professional scope of work.

**9.16.4.** This product is manufactured under a third-party quality control program in accordance with [/IRC Section R104.4](#) and [R109.2](#) and [/IBC Section 104.4](#) and [110.4](#).

**9.16.5.** The actual design, suitability and use of this TER, for any particular building, is the responsibility of the Owner or the Owner's authorized agent, and the TER shall be reviewed for code compliance by the Building Official.

**9.16.6.** The use of this TER is dependent on the manufacturer's in-plant QC, the ISO/IEC 17020 third-party quality assurance program and procedures, proper installation per the manufacturer's instructions, the Building Official's inspection and any other code requirements that may apply to demonstrate and verify compliance with the applicable building code.

## 10. Identification:

**10.1.** Each GoBoard® panel described in this TER is identified by a label on the board or packaging material bearing the manufacturer's name, product name, TER number, label of the third-party inspection agency, and other information to confirm code compliance.

**10.2.** Additional technical information can be found at [jm.com](http://jm.com).

## 11. Review Schedule:

**11.1.** This TER is subject to periodic review and revision. For the most recent version of this TER, visit [drjengineering.org](http://drjengineering.org).

**11.2.** For information on the current status of this TER, contact [DrJ Engineering](#).



- [Mission and Professional Responsibilities](#)
- [Product Evaluation Policies](#)
- [Product Approval – Building Code, Administrative Law and P.E. Law](#)