



Product Evaluation Report

PER-06013

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Progressive Engineering Inc.

Initial Listing
December-07

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Goshen, Indiana 46528

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Listed Product
BlazeGuard® Structural Sheathing

Listed For
Barrier Technology
510 4th Street North
Watkins, MN 55389
Approved Manufacturer
Barrier Technology
510 4th Street North
Watkins, MN 55389

Progressive Engineering Inc. is an accredited Testing Laboratory and Third Party Quality Control Agency. This **Product Evaluation Report** represents a product that Pei has a follow-up service agreement with. This **Product Evaluation Report** in no way implies warranty for this product or relieves **Barrier Technology** of their liabilities for this product. Pei is accredited to ISO Standard 17020 and 17025. This **PER** is an official document if it is within one year of the initial or renewal date.

Listing Details

BlazeGuard® Structural Sheathing is used for **Roof Sheathing** and **Sub Flooring** in residential and commercial construction. The sheathing is applied to typical wood framing.

Product Description

BlazeGuard® Structural Sheathing is manufactured using only Rated APA Oriented Strand Board and Barrier Technology's proprietary coating. The proprietary coating is applied with either chopped fiberglass strands or continuous fiberglass mat to one side of the OSB. The final product has a fire rating and an increased structural rating as compared to the Rated OSB substrate.

General Product Use

1. **BlazeGuard®** Sheathing should be installed per the published information for APA rated sheathing along with the following notes.
2. **BlazeGuard®** Sheathing is to be installed with the long side perpendicular to the framing.
3. Fasteners are applied using the fastening schedule that applies to APA rated OSB sheathing as shown on Table R602.3 in the IRC and Table 2304.9.1 in the IBC.
4. Load ratings and spans are as shown on page 3 of this report.

Tested to

- APA Test Method S-2** Sheathing and Sturd-I-Floor Performance Under Uniform Loads
- APA PS2-92** - Performance Standard for Wood Based Structural-Use Panels, Test Method S-2, Section 6.4.2
- ASTM E 661** Concentrated Static Load & Impact Load Test - Dry & Wet Tests
- ASTM D1037-99** Fastener Withdrawal Test
- ASTM E72-04** - Standard Test Method of Conducting Strength Tests of Panels for Building Construction, Section 14 Racking Load - Evaluation of Sheathing Materials

Product Documentation

- A MSDS sheet dated 6/20/05
- BlazeGuard® "Handling and Installation Instructions"
- A Quality Control Manual Dated 10/9/2007
- A follow-up Listing & Inspection agreement between *Progressive Engineering Inc.* and **Barrier Technology**

A Pei test report No. 2008-296(A) - Uniform Load Test on 7/16" & 19/32" Sheathing on 24" o.c. Framing - Dry Test - Dated 2/26/2008.

A Pei test report No. 2006-297(B) - Uniform Load Test on 7/16" & 19/32" Sheathing on 24" o.c. Framing - Re-Dry Test - Dated 10/16/2006.

A Pei test report No. 2006-297(C) - Fastener Withdrawal Tests from Sheathing - Dated 3/21/2006.

A Pei test report No. 2006-297(D) - Uniform Load Test on 7/16" & 19/32" Sheathing on 16" o.c. Framing - Dry Test - Dated 10/16/2006.

A Pei test report No. 2006-297(E) - Uniform Load Test on 7/16" & 19/32" Sheathing on 16" o.c. Framing - Re-Dry Test - Dated 10/16/2006.

A Pei test report No. 2008-296(C) - Concentrated Load & Impact Load Test on 7/16" & 19/32" Sheathing on 24" o.c. Framing - Wet Test - Dated 3/11/2008.

A Pei test report No. 2006-297(G) - Concentrated Load & Impact Load Test on 7/16" & 19/32" Sheathing on 16" o.c. Framing - Dry Test - Coating Side Up - Dated 10/16/2006.

A Pei test report No. 2006-297(H) - Concentrated Load & Impact Load Test on 7/16" & 19/32" Sheathing on 16" o.c. Framing - Wet Test - Coated Side Up - Dated 10/16/2006.

A Pei test report No. 2008-296(B) - Concentrated Load & Impact Load Test on 7/16" & 19/32" Sheathing on 24" o.c. Framing - Dry Test - Coated Side Up - Dated 3/7/2008.

A Pei test report No. 2007-425 (A) - Concentrated Load & Impact Load Test on 7/16" Sheathing on 16" o.c. Framing - Dry Test - Coated Side Down - Dated 7/13/2007.

A Pei test report No. 2007-1099 (A) - Concentrated Load & Impact Load Test on 7/16" Sheathing on 32" o.c. Framing - Wet Test - Coated Side Up - Dated 10/23/2006.

A Pei test report No. 2006-1099(B) - Uniform Load Test on 19/32" Sheathing on 32" o.c. Framing - Dry Test - Dated 3/2/2006.

A Pei test report No. 2007-425 (B) - Concentrated Load & Impact Load Test on 7/16" Sheathing on 16" o.c. Framing - Dry Test - Coated Side Down - Dated 6/25/2007.

A Pei test report No. 2007-425 (C) - Concentrated Load & Impact Load Test on 7/16" Sheathing on 16" o.c. Framing - Wet Test - Coated Side Down - Dated 6/19/2007.

A Pei test report No. 2007-425 (D) - Uniform Load Tests on 7/16" Sheathing on 24" o.c. Framing - Dry Test - Coated Side Down - Dated 7/25/2007.

A Pei test report No. 2007-425 (E) - Concentrated Load & Impact Load Test on 7/16" Sheathing on 24" o.c. Framing - Dry Test - Coated Side Down - Dated 7/31/2007.

A Pei test report No. 2007-425 (F) - Concentrated Load & Impact Load Test on 7/16" Sheathing on 24" o.c. Framing - Wet Test - Coated Side Down - Dated 7/30/2007.

A Pei test report No. 2007-425 (G) - Uniform Load Tests on 7/16" Sheathing on 32" o.c. Framing - Dry Test - Coated Side Up - Dated 6/7/2007.

A Pei test report No. 2007-425 (H) - Concentrated Load & Impact Load Test on 7/16" Sheathing on 32" o.c. Framing - Wet Test - Coated Side Up - Dated 6/21/2007.

A Pei test report No. 2007-425 (I) - Concentrated Load & Impact Load Test on 7/16" Sheathing on 32" o.c. Framing - Dry Test - Coated Side Up - Dated 7/31/2007.

A Pei test report No. 2007-1160 - Wall Racking Comparison Test on 15/32" OSB "A" Sheathing vs. 15/32" OSB Dated 9/21/2007.

ICC Evaluation Report - ESR 1365 - Dated February 2007

Code Compliance

2006 International Residential Code
2006 International Building Code

1997 Uniform Building Code

Product Labeling

Each Sheet or Bundle shipped of 7/16" **BlazeGuard**[®] Structural Sheathing that is covered by this PER must have a label attached with at least the following information:

1. Barrier Technology name, address or website.
2. Date of manufacture
3. This PER number & *Pei's* logo
4. Load vs. Span rating

Fastener Withdrawal Values

	Design Loads					
	1-1/4" Hand Driven	1-1/4" Power Driven	#10 Wood	#12 Wood	#14 Wood	#15 Wood
	Roofing Nail	Roofing Nail	Screw	Screw	Screw	Screw
7/16" BlazeGuard [®] w/Chopped Fiberglass	14.9 lbs.	21.2 lbs	97.0 lbs	98.6 lbs.	106.3 lbs	107.5 lbs
7/16" BlazeGuard [®] w/Continuous Mat Fiberglass	16.4 lbs.	16.4 lbs.	---	---	---	---
19/32" BlazeGuard [®] w/Continuous Mat Fiberglass	29.5 lbs.	26.0 lbs.	---	---	---	---

Roof Span Rating For BlazeGuard[®]

Framing Spacing	Coated Side	7/16" Chopped Fiberglass	7/16" Mat Fiberglass	19/32" Mat Fiberglass
		Uniform psf	Uniform psf	Uniform psf
16" o.c.	Up	141	140	305
16" o.c.	Down	---	200	---
24" o.c.	Up	62	90	151
24" o.c.	Down	---	94	---
32" o.c.	Up	---	34	81

Floor Span Rating For BlazeGuard[®]

Framing Spacing	Coated Side	19/32" Mat Fiberglass
		Uniform psf
16" o.c.	Up	192
20" o.c.	Up	100



BlazeGuard Raw Bundles



BlazeGuard packaged as shipped