



Product Evaluation Report

PER-06013

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This Document Published By:

Progressive Engineering Inc.

Initial Listing
December, 2007

Re-Approved
November, 2011

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Listed Products

BlazeGuard® Structural Rated Sheathing

BlazeGuard® Structural 1 Sheathing

LP® FlameBlock™ Fire-Rated Rated Sheathing

LP® FlameBlock™ Fire-Rated Structural One Sheathing

Listed For

Barrier Technology Corp.

510 4th Street North
Watkins, MN 55389

Approved Manufacturer

Barrier Technology Corp.

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 Corp.** 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

The **Rated Sheathing** is used for **Roof & Wall Sheathing** and **Sub Flooring** in residential and commercial construction. The sheathing is applied to typical wood framing.

The **Structural 1 Sheathing** is used for **Roof** and **Wall Sheathing** in residential and commercial construction. The sheathing is applied to typical wood framing.

Product Description

The **Rated Sheathing** is manufactured using 3/8", 7/16", 19/32" or 23/32" 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 creating a 7/16", 15/32", 5/8" or 3/4" finished thickness.

The final product has a fire rating and an increased structural rating as compared to the Rated OSB substrate.

The **Structural 1 Sheathing** is manufactured using Structural 1 Rated APA Oriented Strand Board and Barrier Technology's proprietary coating. The coating is applied with either chopped fiberglass strands or continuous fiberglass mat to one side of the Structural 1 OSB creating a 7/16", 15/32", 5/8" or 3/4" finished thickness.

General Product Use

1. Both **Rated** and **Structural 1** Sheathings should be installed per the APA Engineered Wood Construction Guide along with the following notes.
2. The **Rated 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 sheathings 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 and **LP® FlameBlock™** MSDS sheet dated 1/13/2010

BlazeGuard® "Handling and Installation Instructions" and **LP® FlameBlock™** Specifications

A Quality Control Manual Dated 11/11/2010

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. 2006-297(I) - Concentrated Load & Impact Load Test on 7/16" & 19/32" Sheathing on 24" o.c. Framing - Dry Test - Coated Side Up - Dated 10/16/2006.

A Pei test report No. 2006-1099 (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. 2006-1707 - APA Test Method S-2 Uniform Load Testing on 7/16" Chopped BlazeGuard (OSB) Chopped Fiberglass - Dated 11/9/2006.

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. 2007-425 (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.

A Pei test report No. 2008-296 (A) - Uniform Load Tests on Mule Hide FR Deck Panel "C" 24" O.C. Framing - Dry Test - Coated Side Up - Dated 2/26/2008.

A Pei test report No. 2008-296 (B) - Concentrated Load & Impact Load Mule Hide FR Deck Panel "C" 24" O.C. Framing - Dry Test - Coated Side Up - Dated 3/07/2008.

A Pei test report No. 2008-296 (C) - Concentrated Load & Impact Load Mule Hide FR Deck Panel "C" 24" O.C. Framing - Wet Test - Coated Side Up - Dated 3/11/2008.

ICC Evaluation Report - ESR 1365 - Re-Issued April 2008

A Pei test report No. 2011-362A - DOC PS 2 Evaluation of Sheathing Materials, Racking Load using 3/8" OSB with Barrier coating. Dated 5/3/2011.

A Pei test report No. 2011-362B - DOC PS 2 Evaluation of Sheathing Materials, Bond Performance Testing using 3/8" OSB with Barrier coating. Dated 5/3/2011.

A Pei test report No. 2011-362C - DOC PS 2 Evaluation of Sheathing Materials, Dimensional Stability Testing using 3/8" OSB with Barrier coating. Dated 5/4/2011.

A Pei test report No. 2011-362D - DOC PS 2 Uniform Load Test using 3/8" OSB with Barrier coating. 24" o.c., Dry Test. Dated 4/6/2011.

A Pei test report No. 2011-362E - DOC PS 2 Concentrated & Impact Load Test using 3/8" OSB with Barrier coating. Dry & Wet Test with Coated side down. Dated 4/13/2011.

Code Compliance

2006 International Residential Code
2006 International Building Code

2009 International Residential Code
2009 International Building Code

Product Labeling

Each Sheet or Bundle shipped of **BlazeGuard®** or **LP® FlameBlock™** Sheathing, that is covered by this PER, must have a label attached with at least the following information:

1. Manufacturer's name
2. Date of manufacture
3. This PER number & *Pei's* logo
4. Load vs. Span rating or public Website to ratings
5. The Third Party Inspection Agency Information

Fastener Withdrawal Values for **BlazeGuard® & **LP® FlameBlock™****

	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
15/32" Rated Sheathing w/Chopped Fiberglass	14.9 lbs.	21.2 lbs	97.0 lbs	98.6 lbs.	106.3 lbs	107.5 lbs
15/32" Rated Sheathing w/Continuous Mat Fiberglass	16.4 lbs.	16.4 lbs.	---	---	---	---
5/8" Rated Sheathing w/Continuous Mat Fiberglass	29.5 lbs.	26.0 lbs.	---	---	---	---

Framing Spacing	Coated Side	Rated Sheathing	Fiberglass	Fiberglass	Rated Sheathing	Fiberglass
		Uniform psf	Uniform psf	Uniform psf	Uniform psf	Uniform psf
16" o.c.	Up	100	141	140	305	305
16" o.c.	Down	---	---	200	---	---
24" o.c.	Up	40	62	72	130	151
24" o.c.	Down	---	---	94	---	---
32" o.c.	Up	none	---	34	60	81

Floor Span Rating			
		19/32" APA	19/32" Mat
		Rated Sheathing	Fiberglass
Framing Spacing	Coated Side	Uniform psf	Uniform psf
16" o.c.	Up	150	192
20" o.c.	Up	100	100

Notes:

1. All **Rated Sheathing** Design values and fastening schedules, as published in the APA System Report dated December 2009 using the **Rated Sheathing** values, should be used for **BlazeGuard®** or **FlameBlock™** **Rated Sheathing** Products unless higher values are shown in the charts above.
2. All **Structural 1** Sheathing Design values and fastening schedules, as published in the APA System Report dated December 2009 using the **Structural 1** values, should be used for **BlazeGuard®** or **FlameBlock™** **Structural 1** Products.
3. **Rated Sheathing** or **Structural 1 Sheathing** Design values and fastening schedules, as published in the APA System Report dated December 2009, shall be used for sheathing coated with Barrier Technology's proprietary coating on **Both** sides of substrate .



BlazeGuard Raw Bundles



BlazeGuard packaged as shipped