

Pei Evaluation Service® is an accredited ISO Standard 17065 Product Certifier, accredited by the IAS. This **Product Evaluation Report** represents a product that **Pei ES** has Evaluated. This product has a Product Evaluation Service Agreement & Follow-up Inspection Service Agreement. This **Product Evaluation Report** in no way implies warranty for this product or relieves **United States Gypsum Company** of their liabilities for this product. This **PER** is an official document if it is within one year of the Initial or Re-Approval date.

Initial Approval
September, 2015

Re-Approved
April, 2018

See all **Pei ES** Listings at: www.p-e-i.com

Report Owner

United States Gypsum Company
700 North Highway 45
Libertyville, IL 60048

Product

5/8" (15.9mm) USG Securock® Brand Firecode® X & USG Securock® Brand Ultralight Firecode® X
(with Improved Coated Mat)

1/2" (12.7mm) USG Securock® Brand Glass-Mat Sheathing & USG Securock® Brand Ultralight Glass-Mat Sheathing
(with Improved Coated Mat)

Approved Manufacturing Locations

USG Co. Plant #225 6825 Evergreen Avenue Jacksonville, FL 32208	USG Co. Plant #301 10 W. Evan Hewes Hwy. El Centro, CA 92243
USG Co. Plant #320 13425 210th Street Mediapolis, IA 52637	USG Co. Plant #360 12802 Deep Cut Lake Road Shoals, IN 47581
USG Co. Plant #833 5500 Quarantine Road Baltimore, MD 21226	USG Co. Plant #850 100 DL Nootens Dr. Bridgeport, AL 35740
USG Co. Plant #861 1 USG Road Sweetwater, TX 79556	USG Co. Plant #CGC-066 55 Third Line Road, Hwy#6 Hagersville, ON NOA 1H0
	Atlantic Wallboard Ltd. #015 30 Jervis Lane St. John, NB E2J 0A9

General Details

5/8" (15.9mm) USG Securock Firecode X Glass-Mat Sheathing, 5/8" (15.9mm) USG Securock Ultralight Firecode X Glass-Mat Sheathing, 1/2" (12.7mm) USG Securock Glass-Mat Sheathing, and 1/2" (12.7mm) USG Securock Ultralight Glass-Mat Sheathing all manufactured with the improved coated mat are manufactured at the plant locations listed on this **PER**. These plant locations have an approved Quality Control Manual to manufacture these products and are audited quarterly by **Pei**.

Product Description

5/8" (15.9mm) USG Securock Firecode X Glass-Mat Sheathing, 5/8" (15.9mm) USG Securock Ultralight Firecode X Glass-Mat Sheathing, 1/2" (12.7mm) USG Securock Glass-Mat Sheathing, and 1/2" (12.7mm) USG Securock Ultralight Glass-Mat Sheathing are noncombustible coated exterior gypsum sheathing panels used under exterior claddings such as brick veneer, clapboard siding, panel siding, shingle siding, shake siding, and architecturally specified EIFS. Panels are available in a 48-in. width and standard lengths of 8-ft, 9-ft, and 10-ft, with square edges. Other sizes are available on special order.

Compliance

5/8" (15.9mm) USG Securock Firecode X Glass-Mat Sheathing:

- Meets or exceeds the requirements of ASTM C 1177 Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing.
- Meets or exceeds the requirements for an Air Barrier Material when tested in accordance with ASTM E2178 and defined in the **2015 International Energy Conservation Code® (IECC)**.
- Meets or exceeds the requirements of gypsum sheathing in accordance with the **2015 IRC** and the **2015 IBC**.
- Non-combustible core when tested in accordance with ASTM E 136, and defined in **2015 IBC** Section 703.5.2.
- Surface Burning Characteristics - Flame Spread 0 / Smoke Development 0 when tested in accordance with ASTM E 84.
- Meets Type X definition in accordance with ASTM C 1396 and ASTM C 1177 when tested in accordance with ASTM E 119.
- **5/8" (15.9mm) USG Securock Firecode X Glass-Mat Sheathing** is classified by Underwriter's Laboratories, Inc. as to fire resistance, surface burning characteristics, and non-combustibility. See the UL Fire Resistance Directory for fire resistive design listings.
- Listed by ICC-ES, Evaluation Report ESR-3044 for compliance with 2015, 2012, 2009 & 2006 **IBC & IRC** for Structural, Noncombustibility, Surface Burning Characteristics, Fire-Resistance-Rated construction, and Physical Properties.
- Approved by City of Los Angeles Research Report RR 25748 as to compliance with the 2011 Los Angeles Building Code.
- Approved by State of Florida Product Approval FL 11429 as to compliance with the 2014 Florida Building Code for use outside High Velocity Hurricane Zones (HVHZ).
- Approved by Miami-Dade County Notices of Acceptance (NOA) for use as a substrate in specific EIFS clad wall & protected direct-applied soffit assemblies constructed within areas designated High Velocity Hurricane Zones (HVHZ). Visit the Miami-Dade County product Control Division website for approved assemblies.

Compliance continued**5/8" (15.9mm) USG Securock Ultralight Firecode X Glass-Mat Sheathing:**

- Meets or exceeds the requirements of ASTM C 1177 Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing.
- Meets or exceeds the requirements of gypsum sheathing in accordance with the **2015 IRC** and the **2015 IBC**.
- Non-combustible core when tested in accordance with ASTM E 136, and defined in **2015 IBC** Section 703.5.2.
- Surface Burning Characteristics - Flame Spread 0 / Smoke Development 0 when tested in accordance with ASTM E 84.
- Meets Type X definition in accordance with ASTM C 1396 and ASTM C 1177 when tested in accordance with ASTM E 119.
- 5/8" (15.9mm) **USG Securock** Firecode X Glass-Mat Sheathing is classified by Underwriter's Laboratories, Inc. as to fire resistance, surface burning characteristics, and non-combustibility. See the UL Fire Resistance Directory for fire resistive design listings.
- Listed by ICC-ES, Evaluation Report ESR-3044 for compliance with 2015, 2012, 2009 & 2006 **IBC & IRC** for Structural, Noncombustibility, Surface Burning Characteristics, Fire-Resistance-Rated construction, and Physical Properties.
- Approved by City of Los Angeles Research Report RR 25748 as to compliance with the 2011 Los Angeles Building Code.
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1/2" (12.7mm) USG Securock Glass-Mat Sheathing:

- Meets or exceeds the requirements of ASTM C 1177 Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing.
- Meets or exceeds the requirements for an Air Barrier Material when tested in accordance with ASTM E2178 and defined in the **2015 IECC**.
- Meets or exceeds the requirements of gypsum sheathing in accordance with the **2015 IRC** and the **2015 IBC**.
- Surface Burning Characteristics - Flame Spread 0 / Smoke Development 0 when tested in accordance with ASTM E 84.
- Meets the requirements of a thermal barrier as defined by **2015 IBC** Section 2603.4.
- Non-combustible core when tested in accordance with ASTM E 136, and defined in **2015 IBC** Section 703.5.2.
- Listed by ICC-ES, Evaluation Report ESR-3044 for compliance with 2015, 2012, 2009 & 2006 **IBC & IRC** for Structural, Noncombustibility, Surface Burning Characteristics, Fire-Resistance-Rated construction, and Physical Properties.
- Approved by City of Los Angeles Research Report RR 25748 as to compliance with the 2011 Los Angeles Building Code.
- Approved by State of Florida Product Approval FL 11429 as to compliance with the 2014 Florida Building Code for use outside High Velocity Hurricane Zones (HVHZ).
- Approved by Miami-Dade County Notices of Acceptance (NOA) for use as a substrate in specific EIFS clad wall & protected direct-applied soffit assemblies constructed within areas designated High Velocity Hurricane Zones (HVHZ). Visit the Miami-Dade County product Control Division website for approved assemblies.

1/2" (12.7mm) USG Securock Ultralight Glass-Mat Sheathing:

- Meets or exceeds the requirements of ASTM C 1177 Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing.
- Approved by State of Florida Product Approval FL 11429 as to compliance with the 2014 Florida Building Code for use outside High Velocity Hurricane Zones (HVHZ).
- Meets or exceeds the requirements of gypsum sheathing in accordance with the **2015 IRC** and the **2015 IBC**.
- Non-combustible core when tested in accordance with ASTM E 136, and defined in **2015 IBC** Section 703.5.2.
- Surface Burning Characteristics - Flame Spread 0 / Smoke Development 0 when tested in accordance with ASTM E 84.
- Listed by ICC-ES, Evaluation Report ESR-3044 for compliance with 2015, 2012, 2009 & 2006 **IBC & IRC** for Structural, Noncombustibility, Surface Burning Characteristics, Fire-Resistance-Rated construction, and Physical Properties.
- Approved by City of Los Angeles Research Report RR 25748 as to compliance with the 2011 Los Angeles Building Code.
- Approved by State of Florida Product Approval FL 11429 as to compliance with the 2014 Florida Building Code for use outside High Velocity Hurricane Zones (HVHZ).
- Approved by Miami-Dade County Notices of Acceptance (NOA) for use as a substrate in specific EIFS clad wall & protected direct-applied soffit assemblies constructed within areas designated High Velocity Hurricane Zones (HVHZ). Visit the Miami-Dade County product Control Division website for approved assemblies.

General Product Usage and Limitations

1. These products shall be installed in accordance with ASTM C 1280 *Standard Specification for Application of Gypsum Sheathing, GA-253 Application of Gypsum Sheathing*, and the requirements of **USG** Product Literature.
2. These products shall not be used as a nail base. Mechanical attachment of exterior claddings must be made directly to the framing.
3. **Securock** can be installed on wood or steel framing. The maximum spacing for framing members is 24-in. o.c. The framing strength, fastener holding capacities of framing and fastener length information can be found in Tables 2 and 5.
4. Fasteners shall be driven flush with the panel surface without countersinking or being deep enough to break the glass mat.
5. These products may be applied with long dimensions parallel or perpendicular to framing members except where limited by specific requirements. Sheathing orientation and fastener spacing may be governed by local code, or by the requirements of shear, wind or fire-resistance-rated construction. Consult local codes and site-specific construction documents to ensure such requirements are met for every assembly prior to construction.
6. These products shall remain in their original unopened packaging at the site and stored in an enclosed shelter providing protection from physical damage and exposure to the elements until used. Protect these products from exposure to cascading water.
7. **USG** approves the use of pneumatic or gas-power-driven pin fasteners to attach **Securock Glass-Mat Sheathing** to cold-formed steel framing, provided the pin manufacturer has evaluated **Securock** with the pin fastener in accordance with ICC-ES AC259 Acceptance Criteria, and where permitted by local codes.

Tested to

- ASTM C 1177/C 1177M-13** - Standard Specification for Glass-Mat Gypsum Substrate for Use as Sheathing.
- ASTM C 518-04** - Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
- ASTM D136-04** - Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750 ° C.
- ASTM E 84-13**- Standard Test Method for Surface Burning Characteristics of Building Materials.
- ASTM E 96-16**- Standard Test Methods for Water Vapor Transmission of Materials.
- ASTM E 72-15** - Standard Test Methods of Conducting Strength Tests of Panels for Building Construction; Section 14 Racking Load - Evaluation of Sheathing Materials on a Standard Wood Frame.
- ASTM E 72-05** - Standard Test Methods of Conducting Strength Tests of Panels for Building Construction; Section 15 Racking Load - Evaluation of Sheathing Materials (Wet) on a Standard Wood Frame.
- ASTM E 119-15** - Standard Methods of Fire Endurance Tests of Building Construction and Materials
- ASTM E 330-14** - Standard Test Methods for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference
- ASTM E2178-11** - Standard Test Method for Air Permeance of Building Materials
- UL 1715** - Fire Test of Interior Finish Materials.

Table 1 - Physical Properties

Physical Property Test	1/2" Securock Glass-Mat Sheathing	1/2" Securock Ultralight Glass-Mat Sheathing	5/8" Securock Firecode X Glass-Mat Sheathing	5/8" Securock Ultralight Firecode X Glass-Mat Sheathing
Flexural Strength (ASTM C473-13) Minimum Breaking Load				
Edge Perpendicular	100 lbf	100 lbf	140 lbf	140 lbf
Edge Parallel	80 lbf	80 lbf	100 lbf	100 lbf
Hardness (ASTM C473-13) Minimum				
Core Test	15 lbf	15 lbf	15 lbf	15 lbf
End Test	15 lbf	15 lbf	15 lbf	15 lbf
Edge Test	15 lbf	15 lbf	15 lbf	15 lbf
Nail Pull Resistance (ASTM C473-13) Method B				
Minimum Average Resistance	80 lbf	80 lbf	90 lbf	90 lbf
Water Resistance (ASTM C473-13)				
Water Absorption (% by weight)	10% max	10% max	10% max	10% max
ASTM E84-13 Surface Burning				
Flame / Smoke Developed Index	0/0	0/0	0/0	0/0
ASTM C518 Thermal Resistance				
Thermal Resistance - R (K·M ² /W)	0.079	--	0.088	--
Thermal Resistance R (°F·ft ² ·h/BTU)	0.45	--	0.5	--
ASTM E96 Water Vapor Transmission (Procedure A)				
Average Permeance	29.7	34.4	28.5	28.6

Table 2 - Design Shear Loads for Securock & Securock Ultralight⁸

Sheathing	Framing ^{3,5}	Maximum Height to Width Aspect Ratio	Fastener ^{1,2}	Fastener Spacing ⁴ (inches o.c. around Perimeter, in Field)	Design Shear ^{6,7}
1/2" Securock Parallel to Framing	16" o.c.	1:1	#6-18 Bugle head Screw	4 and 8	123.4 plf
1/2" Securock Parallel to Framing	16" o.c.	1:1	Hot Dipped Galv. Roofing Nail	4 and 8	122.0 plf
5/8" Securock Firecode X Parallel to Framing	24" o.c.	1:1	#6-18 Bugle head Screw	4 and 8	138.1 plf
5/8" Securock Firecode X Parallel to Framing	24" o.c.	1:1	Hot Dipped Galv. Roofing Nail	4 and 8	148.3 plf

Notes:

- #6 Screws must have a minimum head dia. of .325"
- Roofing Nails must have a minimum head dia. of .372"
- The perimeter of the sheathing must be supported by framing members and / or blocking.
- The Nails & Screws must have a minimum edge distance of 3/8".
- Framing to be nominal 2 x4 No.1 Grade S.Y.P. minimum
- Allowable shear values are for short term wind loads.
- Shear wall anchorage is outside of the scope of this report.
- The values in this table are based on testing per ASTM E72 and represent the ultimate capacity of the sheathing to resist fastener pull-through and/or flexural failure using a 3.0 Safety Factor.
- The sheathing can be installed parallel to the framing.

Table 3 - Windload Design Pressure - Securock & Securock Ultralight

Frame Spacing	12" o.c.			16" o.c.			24" o.c.		
	Fastener Spacing	4"	6"	8"	4"	6"	8"	4"	6"
5/8" Allowable Pressure	96	67	50	75	50	38	34	27	25
1/2" Allowable Pressure	75	35	26	40	26	26	26	17	16

Notes:

- The panel can be installed perpendicular or parallel to the framing.
- #6 Buglehead screws with an average head dia. of .327"
- The screws must have a minimum edge distance of 3/8".
- Allowable values are for short term wind loads.
- The values in this table are based on testing per ASTM E330 and represent the ultimate capacity of the panel to resist fastener pull-through and/or flexural failure using a 3.0 Safety Factor. The withdrawal resistance of fasteners from framing is different on several factors including but not limited to fastener type, fastener length and framing properties. The specification of fasteners is the responsibility of the designer of record.
- Framing and bracing are beyond the scope of this evaluation report.

Product Labeling

Each panel of **Securock**, **Securock Ultralight**, **Securock Firecode X Glass-Mat Sheathing** and **Securock Ultralight Firecode X Glass-Mat Sheathing** that is covered by this **PER**, must be marked with the following information:

- 1. **USG** Name
- 2. Product Name
- 3. Plant Identifier & Date Code
- 4. This **PER** Number & *Pei* **Evaluation Service**® Name or Logo
- 5. UL Backstamp Information for Fire Resistance (5/8" Only)
- 6. ICC-ES ESR-3044
- 7. Approval by City of Los Angeles Research Report RR25748
- 8. Florida Product Approval FL11429
- 9. Miami-Dade County Notice of Acceptance

Acceptable Evaluation Marks



Figure 1 - USG Securock® Brand Glass-Mat Sheathing Face Mat



Figure 2 - CGC Securock® Brand Glass-Mat Sheathing Face Mat

Product Documentation

A Product Evaluation Service Agreement between **Pei Evaluation Service®** and **USG Corporation**

A Follow-up Inspection Service Agreement between **Progressive Engineering Inc.** and **USG Corporation**

A **USG Corporation** Quality Control Manual - Dated: 4/16/2018

Irving Wallboard - Atlantic Wallboard, LLC Quality Control Procedures Manual - Dated: 6/29/2017

USG Securock Glass-Mat Sheathing Installation Guide No. WB2451/Rev. 5/2015

USG Securock Glass-Mat Sheathing Submittal Sheet No. WB2452/Rev. 6/2015

SDS for Securock® Glass-Mat Sheathing Panels - No. 54000004002A - Dated: 3/24/2017

A **Pei** test report No. 2008-0430 (A) - Evaluation of the 5/8" **USG Securock** Firecode X Glass-Mat Sheathing - Dated: 4/22/2008 - Stamped by a professional engineer.

A **Pei** test report No. 2008-1099 (A) - Evaluation of the 1/2" **USG Securock** Glass-Mat Sheathing to ASTM C1177/C1177 M-06 - Dated: 10/16/2008 - Stamped by a professional engineer.

A **Pei** test report No. 2014-1069 (A) - ASTM C1177/C1177M-13 Nail Pull Resistance Specification Test on 5/8" **USG Securock** Glass-Mat Sheathing with Coated Atlas Mat (WT ES 9000) - Dated: 7/29/2014

A **Pei** test report No. 2016-0379 (A) - Evaluation of the 5/8" **USG Securock** Ultralight Firecode X Glass-Mat Sheathing to ASTM C1177/C1177M-13 Specifications - Dated: 3/17/2016

A **Pei** test report No. 2016-1677 - Evaluation of the 1/2" **USG Securock** Ultralight Glass-Mat Sheathing to ASTM C1177/C1177M-13 Specifications - Dated: 9/26/2016

A **Pei** test report No. 2014-1069 (B) - ASTM C297 Flatwise Tensile Strength Tests on 5/8" **USG Securock** Glass-Mat Sheathing with Coated Atlas Mat (WT ES 9000) - Dated: 7/30/2014

A **Pei** test report No. 2014-1069 (C) - ASTM E96 Water Vapor Transmission Tests on 1/2" and 5/8" **USG Securock** Glass-Mat Sheathing with Coated Atlas Mat (WT ES 9000) Tested to Procedure A - Dessicant Method - Dated: 7/21/2014

A **Pei** test report No. 2014-1069 (D) - ASTM C297 Flatwise Tensile Strength Tests on 5/8" **USG Securock** Glass-Mat Sheathing Five (5) Sample Sets - Dated: 4/24/2015

A **Pei** test report No. 2014-1069 (E) - ASTM C297 Flatwise Tensile Strength Tests on Alternative Glass-Mat Facing Material for **USG Securock** Glass-Mat Sheathing - Dated: 4/24/2015

A **Pei** test report No. 2016-379 (D) - ASTM C297 Flatwise Tensile Strength Tests on 5/8" **USG Securock** Ultralight Firecode X Glass-Mat Sheathing With A Cement Base Coat on an Acrylic Base Coat - Dated: 3/24/2016

A **Pei** test report No. 2008-1099 (H) - ASTM E330 Negative Wind Load Test on Dry 1/2" **USG Securock** Glass-Mat Sheathing on Lumber Framing - Dated: 10/20/2008 - Stamped by a professional engineer.

A **Pei** test report No. 2008-1099 (I) - ASTM E330 Negative Wind Load Test on Dry 1/2" **USG Securock** Glass-Mat Sheathing on Lumber Framing - Dated: 10/20/2008 - Stamped by a professional engineer.

A **Pei** test report No. 2008-1099 (J) - ASTM E330 Negative Wind Load Test on Dry 1/2" **USG Securock** Glass-Mat Sheathing on Lumber Framing - Dated: 10/28/2008 - Stamped by a professional engineer.

A **Pei** test report No. 2008-1099 (K) - ASTM E330 Negative Wind Load Test on Dry 1/2" **USG Securock** Glass-Mat Sheathing on Lumber Framing - Dated: 10/15/2008 - Stamped by a professional engineer.

A **Pei** test report No. 2008-1853 (E) - ASTM E330 Negative Windload Test on Dry 5/8" **USG Securock** Firecode X Glass-Mat Sheathing Vertical on 16" o.c. Lumber Framing Using Screws - Dated: 12/16/2008 - Stamped by a professional engineer.

A **Pei** test report No. 2008-1853 (F) - ASTM E330 Negative Windload Test on Dry 5/8" **USG Securock** Firecode X Glass-Mat Sheathing Horizontal on 24" o.c. Lumber Framing Using Screws - Dated: 12/18/2008 - Stamped by a professional engineer.

A **Pei** test report No. 2008-1853 (G) - ASTM E330 Negative Windload Test on Dry 5/8" **USG Securock** Firecode X Glass-Mat Sheathing Vertical on 24" o.c. Lumber Framing Using Screws - Dated: 12/19/2008 - Stamped by a professional engineer.

A **Pei** test report No. 2008-1853 (L) - ASTM E330 Negative Windload Test on Dry 5/8" **USG Securock** Firecode X Glass-Mat Sheathing Vertical on 16" o.c. Lumber Framing Using Nails - Dated: 1/21/2009 - Stamped by a professional engineer.

A **Pei** test report No. 2008-1853 (M) - ASTM E330 Negative Windload Test on Dry 5/8" **USG Securock** Firecode X Glass-Mat Sheathing Vertical on 24" o.c. Lumber Framing Using Nails - Dated: 1/21/2009 - Stamped by a professional engineer.

A **Pei** test report No. 2009-0863 (A) - ASTM E330 Negative Windload Test on Dry 5/8" **USG Securock** Firecode X Glass-Mat Sheathing Vertical on 24" o.c. Lumber Framing Using Screws 4" o.c. - Dated: 7/17/2009 - Stamped by a professional engineer.

A **Pei** test report No. 2009-0863 (B) - ASTM E330 Negative Windload Test on Dry 5/8" **USG Securock** Firecode X Glass-Mat Sheathing Vertical on 12" o.c. Lumber Framing Using Screws 4" o.c. - Dated: 7/23/2009 - Stamped by a professional engineer.

A **Pei** test report No. 2009-0863 (C) - ASTM E330 Negative Windload Test on Dry 5/8" **USG Securock** Firecode X Glass-Mat Sheathing Vertical on 24" o.c. Lumber Framing Using Screws 6" o.c. - Dated: 7/23/2009 - Stamped by a professional engineer.

A **Pei** test report No. 2016-379 (B) - ASTM E330 Negative Windload Test on 5/8" **USG Securock** Ultralight Firecode X Glass-Mat Sheathing (Vertical) on 16" o.c. Lumber Framing Using Screws 8" o.c. - Dated: 3/9/2016

A **Pei** test report No. 2016-1002 (A) - ASTM E330 Negative Windload Test on 5/8" **USG Securock** Ultralight Firecode X Glass-Mat Sheathing (Vertical) on 12" o.c. Lumber Framing Using Screws 4" o.c. - Dated: 5/24/2016

A **Pei** test report No. 2016-1002 (B) - ASTM E330 Negative Windload Test on 5/8" **USG Securock** Ultralight Firecode X Glass-Mat Sheathing (Vertical) on 24" o.c. Lumber Framing Using Screws 4" o.c. - Dated: 5/25/2016

Product Documentation Continued

- A *Pei* test report No. 2016-1002 (C) - ASTM E330 Negative Windload Test on 5/8" **USG** Securock Ultralight Firecode X Glass-Mat Sheathing (Vertical) on 12" o.c. Lumber Framing Using Screws 6" o.c. - Dated: 5/26/2016
- A *Pei* test report No. 2016-1249 (B) - ASTM E330 Negative Windload Test on 1/2" **USG** Securock Ultralight Glass-Mat Sheathing (Vertical) on Various Lumber Frame and Screw Spacings - Dated: 7/25/2016
- A *Pei* test report No. 2008-1099 (E) - ASTM E72 Evaluation of Sheathing Materials - Single Sided Racking Load Using Wet/ReDry 1/2" **USG** Securock Glass-Mat Sheathing Mechanically Fastened to Wood Framing Using Screws - Dated: 11/04/2008 - Stamped by a professional engineer.
- A *Pei* test report No. 2008-1099 (F) - ASTM E72 Evaluation of Sheathing Materials - Single Sided Racking Load Using Dry 1/2" **USG** Securock Glass-Mat Sheathing Mechanically Fastened to Wood Framing Using Nails - Dated: 10/15/2008 - Stamped by a professional engineer.
- A *Pei* test report No. 2008-1853 (A) - ASTM E72 Evaluation of Sheathing Materials - Single Side Racking Load using Dry 5/8" **USG** Securock Firecode X Glass-Mat Sheathing Mechanically Fastened to Wood Framing Using Nails - Dated: 12/23/2008 - Stamped by a professional engineer.
- A *Pei* test report No. 2008-1853 (C) - ASTM E72 Evaluation of Sheathing Materials - Single Side Racking Load using Dry 5/8" **USG** Securock Firecode X Glass-Mat Sheathing Mechanically Fastened to Wood Framing Using Screws - Dated: 12/23/2008 - Stamped by a professional engineer.
- A *Pei* test report No. 2016-379 (C) - ASTM E72 Evaluation of Sheathing Materials - Single Sided Racking Load using 5/8" **USG** Securock Ultralight Firecode X Glass-Mat Sheathing Mechanically Fastened to Wood Framing Using Screws - Dated: 3/10/2016
- A *Pei* test report No. 2016-1249 (C) - ASTM E72 Evaluation of Sheathing Materials - Single Sided Racking Load using 1/2" **USG** Securock Ultralight Glass-Mat Sheathing Mechanically Fastened to Wood Framing Using Screws - Dated: 7/21/2016
- A *Pei* test report No. 2008-1099 (B) - ASTM E96 Water Vapor Transmission Test on 1/2" **USG** Securock Glass-Mat Sheathing - Dated: 11/07/2008 - Stamped by a professional engineer.
- A *Pei* test report No. 2016-379 (E) - ASTM E96 Water Vapor Transmission Test on 5/8" **USG** Securock Ultralight Firecode X Glass-Mat Sheathing Tested to Procedure A - Dessicant Method - Dated: 3/24/2016
- A *Pei* test report No. 2016-1249 (D) - ASTM E96 Water Vapor Transmission Test on 1/2" **USG** Securock Ultralight Glass-Mat Sheathing Tested to Procedure A - Dessicant Method and Tested to Procedure B - Water Method - Dated: 7/28/2016
- A *Pei* test report No. 2016-2077 - ASTM E136 Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750° C on 1/2" **USG** Securock Ultralight Glass-Mat Sheathing - Dated: 11/18/2016
- An ASTM E84 Opinion Letter for 1/2" **USG** Securock Ultralight Glass-Mat Sheathing and 5/8" **USG** Securock Ultralight Firecode X Glass-Mat Sheathing - Dated: 11/16/2016
- Intertek Test Report 3164994SAT-001a - ASTM C518-04 - Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of The Heat Flow Meter Apparatus - Dated: 11/04/2008.
- Intertek Test Report 3152720SAT-001 - ASTM C518-04 - Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of The Heat Flow Meter Apparatus - Dated: 5/29/2008.
- UL Test Report 08CA05754 - Tests in accordance with:
 ASTM E119-00a - Fire Tests of Building Construction and Materials - Dated: 5/14/2009 -Stamped by a Professional Engineer
 ASTM E84-07 - Fire Tests For Surface Burning Characteristics of Building Materials - Dated: 5/21/2008 - Stamped by a Professional Engineer
- UL Test Report 09CA06340 - Tests in accordance with:
 ASTM E119-00a - Fire Tests of Building Construction and Materials - Dated: 5/29/2009 -Stamped by a Professional Engineer
 UL 1715 - Standard Fire Test of Interior Finish Materials - Dated: 5/29/2009 - Stamped by a Professional Engineer
 ASTM E84-07 - Fire Tests For Surface Burning Characteristics of Building Materials - Dated: 5/29/2009 - Stamped by a Professional Engineer
- ASTM E136-04 - Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C - Dated: 5/29/2009 - Stamped by a Professional Engineer
- UL Test Report 4786479791 - Tests in accordance with ASTM E84-13 - Test for Surface Burning Characteristics of Building Materials - Dated: 7/11/2014.
- UL Project 4786566727 - Tests in accordance with Standard Fire Tests of Building Construction and Materials, ANSI/UL263, Fourteenth Edition, Dated June 21, 2011 and the Materials CAN/ULC-S101-07 - Dated 9-10-2014.
- UL Project 4787336638 - ASTM E119-00a - Fire Tests of Building Construction and Materials Investigation, Dated March 03, 2016
- A *Radco* test report RAD-5574 - ASTM E2178 Air Permeance of Buiding Materials Tests on 1/2" **USG** Securock® Glass-Mat Sheathing with Coated Atlas Mat (WT ES 9000) - Dated: 10/8/2014
- A *Radco* test report RAD-5578 - ASTM E2178 Air Permeance of Buiding Materials Tests on 5/8" **USG** Securock® Glass-Mat Sheathing with Coated Atlas Mat (WT ES 9000) - Dated: 10/8/2014
- Miami-Dade County Notice of Acceptance - NOA No. 17-0919.03 - Dated: 6/20/2018
- A *Pei* Calculation 2009-0807 - 5/8" Securock Glass-Mat Sheathing Allowable Wind Pressure - Dated 8/28/2009
- A *Pei* Calculation 2016-0961 - 1/2" Securock Glass-Mat Sheathing Allowable Wind Pressure - Dated 5/11/2016