

ICC Pei LLC Evaluation Service® is an accredited ISO Standard 17065 Product Certifier, accredited by the A2LA. This **Product Evaluation Report** represents a product that ICC Pei LLC 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**

February, 2015

**Re-Approved**

December, 2020

See all **Pei ES Listings** at: [www.p-e-i.com](http://www.p-e-i.com)

### Report Owner

**United States Gypsum Company**

700 North Highway 45

Libertyville, IL 60048

### Product

**Securock® ExoAir® 430 Panel**

### Approved Manufacturing Locations

**USG Corporation Plant No. 225**

6825 Evergreen Ave.

Jacksonville, FL 32208

### Evaluation Report Information

[usg4you@usg.com](mailto:usg4you@usg.com)

**USG Support: 800.USG4YOU**

### General Details

**Securock® ExoAir® 430 Panel** is manufactured at the plant location listed above. This plant location has an approved Quality Control Manual to manufacture this product a Product Evaluation Service Agreement and a Follow-up Inspection Service Agreement with **ICC Pei LLC** (formerly Pei ES).

### Product Description

**Securock® ExoAir® 430 Panel** is a glass mat-faced, moisture and mold-resistant gypsum panel with a noncombustible core integrated with a factory-applied synthetic air/water barrier membrane. The in-plant application provides a uniform membrane resulting in predictable air and water barrier performance and adhesion to base panel. The panel is a component of the **Securock® ExoAir® 430** Air Barrier System, to be installed using Tremco® sealants and transition to membranes to achieve air barrier continuity. The panel is designed for use under a variety of exterior claddings where traditionally a separate gypsum sheathing panel and air barrier would have been used. Panels are 1/2" & 5/8" thick by 48 inches wide by 8 ft. long with square edges.

### General Product Usage and Limitations

1. This product 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. **Securock® ExoAir® 430 Panel** 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 is outside the scope of this **Product Evaluation Report**.
3. This product may be applied with long dimensions parallel or perpendicular to framing members, except where limited by specific requirements, orange side to the exterior.
4. Fasteners shall be driven so the head is seated flush to the membrane of the panel surface without breaking or punching through the surface. Wafer or modified truss head fasteners shall be driven so the underside of the head is flush against the panel surface without breaking or punching through the surface.
5. This product shall remain in its original unopened packaging at the site and stored in an enclosed shelter providing protection from physical damage and exposure to the elements until used. Prevent these products from exposure to cascading water.
6. The use of pneumatic or gas-power-driven pin fasteners to attach **Securock® ExoAir® 430 Panel** to cold-formed steel framing, provided the pin manufacturer has evaluated **Securock® ExoAir® 430 Panel** with the pin fastener in accordance with ICC-ES AC259 Acceptance Criteria, and where permitted by local codes.
7. This product shall not be used as a nail base. Mechanical attachment of exterior claddings must be made directly to the framing.
8. 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.
9. This product shall be installed per **USG** installation instructions where joint materials and coating specifications are as stated.
10. Proper detailing of the joints shall be completed within 12 months of the panel installation and before the exterior cladding is installed.
11. This product shall not be directly laminated to masonry surfaces. Panels shall be installed over furring strips or framing.
12. **Securock® ExoAir® 430 Panels** are not recommended for use as a tile backer.
13. Roofing System applications shall be capped and sealed. Top of the walls shall be protected as to eliminate the potential for water to penetrate the wall and/or interior space both before or after the air barrier installation.

**Compliance****5/8" Securock ExoAir 430 Panels**

- Meets or exceeds the requirements of gypsum sheathing in accordance with Section R702.3.1 of the 2015, 2018 & 2021 International Residential Code® (IRC) and Table 2506.2 of the 2015, 2018 & 2021 International Building Code® (IBC).
  - Meets or exceeds the requirements for Water Resistive Barriers in accordance with Sections R702.3.7, R703.1.1, R703.9 the 2015, 2018 & 2021 IRC and Section 1408.4.1.1 of the 2015, 2018 & 2021 IBC.
  - Meets or exceeds the requirements for an Air Barrier Material in accordance with Section N1102.4 and Table N1102.1.1.1 the 2015, 2018 & 2021 IRC and Sections C402.5.1.2.1 & C402.5.1.2.2 of the 2015 and 2018 & Sections C402.5.1.3 & C402.5.1.4 of the 2021 International Energy Conservation Code® (IECC).
  - Meets or exceeds the requirements of ASTM C 1177 Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing.
  - Meets or exceeds the physical property requirements of ASTM C 1396, Section 9 Standard Specification for Gypsum Sheathing Board.
  - Non-combustible core when tested in accordance with ASTM E 136, and defined in 2015 & 2018 IBC Section 703.5.1 and Section 703.3.1 of the 2021 IBC.
  - Substrate meets Type X definition in accordance with ASTM C 1396 and ASTM C 1177 when tested in accordance with ASTM E 119.
  - Surface Burning Characteristics - Flames Spread 20 / Smoke Development 15 when tested in accordance with ASTM E84 (UL 723).
  - Fire propagation characteristics - Tested in accordance with and meets the requirements of NFPA 285. See UL Building Materials Directory for approved listings under category FWFO - Exterior Wall Systems.
  - Classified by Underwriter's Laboratories, Inc. as to Fire Resistance (substrate), Surface Burning Characteristics and Non-combustibility. See the UL Fire Resistive Design Listings, under UL Category CKNX, Gypsum Board, UL File No. R1319, Type USGX.
  - Meets or exceeds the requirements of the ABAA Process for Approval of Air Barrier Materials, Accessories and Assemblies Section 5.2 Factory-Bonded Membranes to Sheathing.
  - Meets or exceeds the requirements of ICC-ES AC212 Acceptance Criteria for Water-Resistive Coatings Used as Water-Resistive Barriers Over Exterior Sheathing.
  - Meets or exceeds the requirements of ICC-ES AC38 Acceptance Criteria for Water-Resistive Barriers Over Exterior Sheathing per Table 1 Grade C.
  - Exceeds 15 psi flatwise tensile bond capacity required for acrylic and cementitious adhesives used to attach EIFS when tested in accordance with ASTM C 297.
  - 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 with the 2017 and 2020 Florida Residential and Florida Building Code as prescribed as stated in ICC-ES ESR-4423 FBC Supplement. Compliance for use in HVHZ zones is outside the scope of this report.

**1/2" Securock ExoAir 430 Panels**

- Meets or exceeds the requirements of gypsum sheathing in accordance with Section R702.3.1 of the 2015, 2018 & 2021 International Residential Code® (IRC) and Table 2506.2 of the 2015, 2018 & 2021 International Building Code® (IBC).
- Meets or exceeds the requirements for Water Resistive Barriers in accordance with Sections R702.3.7, R703.1.1, R703.9 the 2015, 2018 & 2021 IRC and Section 1408.4.1.1 of the 2015, 2018 & 2021 IBC.
- Meets or exceeds the requirements for an Air Barrier Material in accordance with Section N1102.4 and Table N1102.1.1.1 the 2015, 2018 & 2021 IRC and Sections C402.5.1.2.1 & C402.5.1.2.2 of the 2015 and 2018 & Sections C402.5.1.3 & C402.5.1.4 of the 2021 International Energy Conservation Code® (IECC).
- Meets or exceeds the requirements of ASTM C 1177 Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing.
- Meets or exceeds the physical property requirements of ASTM C 1396, Section 9 Standard Specification for Gypsum Sheathing Board.
- Non-combustible core when tested in accordance with ASTM E 136, and defined in 2015 & 2018 IBC Section 703.5.1 and Section 703.3.1 of the 2021 IBC.
- Surface Burning Characteristics - Flames Spread 20 / Smoke Development 15 when tested in accordance with ASTM E84 (UL 723).
- Meets or exceeds the requirements of the ABAA Process for Approval of Air Barrier Materials, Accessories and Assemblies Section 5.2 Factory-Bonded Membranes to Sheathing.
- Meets or exceeds the requirements of ICC-ES AC212 Acceptance Criteria for Water-Resistive Coatings Used as Water-Resistive Barriers Over Exterior Sheathing.
- Meets or exceeds the requirements of ICC-ES AC38 Acceptance Criteria for Water-Resistive Barriers Over Exterior Sheathing per Table 1 Grade C.
- Exceeds 15 psi flatwise tensile bond capacity required for acrylic and cementitious adhesives used to attach EIFS when tested in accordance with ASTM C 297.
- 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.

**Approved Components****Securock® ExoAir® 430 System Approved Sealants (by others):**

- Tremco's Dymonic® 100 (green)
- Tremco's Spectrum® 1 (purple)

Note: Please visit Tremco Sealants for product compliance.

**Tested to**

**AATCC 127 - 08** - Water Resistance: Hydrostatic Pressure Test for 5 h.

**ASTM C 1177/C 1177M-13** - Standard Specification for Glass-Mat Gypsum Substrate for Use as Sheathing.

**ASTM C 297-04** - Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions.

**ASTM C473-06a** - Test Methods for Physical Testing of Gypsum Panel Products.

**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 D3330 / D3330M-04 Method F** - Standard Test Method for Peel Adhesion of Pressure-Sensitive Tape.

**ASTM E72-05** - 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 E72-05** - 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 E84-13** - Test Methods for Surface Burning Characteristics of Building Materials.

**ASTM E96/E96M-16** - Standard Test Methods for Water Vapor Transmission of Materials.

**ASTM E119-11** - Standard Test Methods for Fire Tests of Building Construction and Materials. (Substrate)

**ASTM E136-04** - Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750° C. (Substrate)

**ASTM E330-14** - Standard Test Methods for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.

**ASTM E331-00 (2009)** - Standard Test Method for Water Penetration of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.

**ASTM E2178-03** - Standard Test Method for Air Permeance of Building Materials.

**ASTM E2357-11** - Standard Test Method for Determining Air Leakage of Air Barrier Assemblies.

**ASTM E2570-07** - Standard Test Method of Evaluating Water-Resistive Barrier (WRB) Coatings Used under Exterior Insulation and Finish Systems (EIFS) or EIFS with Drainage.

**NFPA 285** - Standard Method of Test for the Evaluation of Flammability Characteristics of Exterior Nonload-bearing Wall Assemblies Containing Combustible Components.

**Product Performance**

**Table 1 - Design Shear Loads for Securock ExoAir 430 Panel<sup>8,9</sup>**

Sheathing	Framing <sup>3,5</sup>	Maximum Height to Width Aspect Ratio	Fastener <sup>1,2</sup>	Fastener Spacing <sup>4</sup> (Perimeter & Field)	Design Shear <sup>6,7</sup>
<b>1/2" Securock® ExoAir® 430 Parallel to Framing</b>	16" o.c.	1:1	#6-18 Bugle head Screw	4" and 8"	123.4 plf
<b>5/8" Securock® ExoAir® 430 Parallel to Framing</b>	24" o.c.	1:1	#6-18 Bugle head Screw	4" and 8"	138.1 plf

Notes:

1. #6 Screws must have a minimum head dia. of .325"
2. The perimeter of the sheathing must be supported by framing members and / or blocking.
3. The Screws must have a minimum edge distance of 3/8".
4. Framing to be nominal 2 x4 Stud Grade SPF minimum.
5. Allowable shear values are for short term wind loads.
6. Shear wall anchorage is outside of the scope of this report.
7. 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.

**Table 2 - Physical Properties for Securock® ExoAir® 430 Panel**

Flexural Strength (ASTM C473-06a)	Securock® ExoAir® 430 Panel (1/2" Lightweight Core)	Securock® ExoAir® 430 Panel 430 Panel (5/8" Lightweight Core)
<b>Flexural Strength (ASTM C473-13) Minimum Breaking Load</b>		
<b>Edge Perpendicular</b>	100 lbf	140 lbf
<b>Edge Parallel</b>	80 lbf	100 lbf
<b>Hardness (ASTM C473-13) Minimum</b>		
<b>Core Test</b>	15 lbf	15 lbf
<b>End Test</b>	15 lbf	15 lbf
<b>Edge Test</b>	15 lbf	15 lbf
<b>Nail Pull Resistance (ASTM C473-13) Method B</b>		
<b>Minimum Average Resistance</b>	80 lbf	90 lbf
<b>Water Absorption (ASTM C473-13)</b>		
<b>% by weight</b>	10% max	10% max
<b>Humidified Deflection</b>	1/4" max	1/8" max
<b>ASTM E96 Water Vapor Transmission (Perms)</b>		
	Wet	Wet
<b>Base Panel w/Coating</b>	9.77	9.25
<b>ASTM C518 Thermal Resistance Values</b>		
<b>R (K·M2/W)</b>	--	--
<b>R (°F·ft2·h/BTU)</b>	--	--
<b>ASTM E2178 Air Permeance (≤0.004 CFM/ft2 @ 1.57 psf)</b>		
<b>Result</b>	Pass	Pass
<b>ASTM E84 (UL 723) Surface Burning Characteristics</b>		
<b>Flame Spread Index</b>	20	20
<b>Smoke Developed Index</b>	15	15

**Product Performance**

**Table 3 - Windload Design Pressure - Securock® ExoAir® 430 Panel<sup>7</sup> (psf)**

Frame Spacing	12" o.c.			16" o.c.			24" o.c.		
Fastener Spacing	4"	6"	8"	4"	6"	8"	4"	6"	8"
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:

1. The panel can be installed perpendicular or parallel to the framing.
2. #6 Buglehead screws with an average head dia. of .327"
3. The screws must have a minimum edge distance of 3/8".
4. Allowable values are for short term wind loads.
5. 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.
6. Framing and bracing are beyond the scope of this evaluation report.

**Product Labeling**

Each **Securock® ExoAir® 430 Panel** 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 ES** Name or Logo
5. UL Backstamp Information for Fire Resistance (5/8" Only)
6. Miami-Dade County Notice of Acceptance

**Acceptable Evaluation Marks**



**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 Quality Control Manual Dated for **USG Securock® ExoAir® 430 Panel** - Dated: 6/15/2020

**USG** Securock® ExoAir® Panel Installation Instructions (BE102/10-18)

SDS - Securock® ExoAir® 430 Panel - No. 54000004008 - Dated: 4/4/2017

SDS - Tremco® EXOAIR 430 - Material No. DEV430 - Dated: 10/24/2016

A **Pei** test report No. 2014-0868 (B) - ASTM E2570 / ICC-ES AC212 Flatwise Tensile Strength Tests on 5/8" **USG** Securock® ExoAir® 430 Panel Using 2" x 2" and 6" x 6" Samples and Various Coatings - Dated: 8/28/2014

A **Pei** test report No. 2014-1788 (A) - ASTM E2570 / ICC-ES AC212 Flatwise Tensile Strength Tests on **USG** 5/8" Securock® ExoAir® 430 Panel with a Cement Base Coat and an Acrylic Base Coat with ExoAir® 230 Joint Treatment - Dated: 1/22/2015

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

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

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

A **Pei** test report No. 2008-0430 (A) - Evaluation of the 5/8" **USG** Securock® Firecode X Glass-Mat Sheathing to ASTM C1177/1177 M-06 - Revised: 6/5/2008 - 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. 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

Test Report for ASTM D1970-14 Standard Specification for Self Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection; Section 7.9 Self Sealability (Head of Water Test) - Dated: 8/29/2014

**Product Documentation**

- A **Pei** test report No. 2014-1788 (G) - ASTM D3330 Peel Adhesion Tests (Method F) with Various Joint Treatments and Flashing Tape on 5/8" Securock® ExoAir® 430 Panel - Dated: 1/26/2015
- A **Pei** test report No. 2014-1788 (F) - ASTM D4541 Pull Adhesion Test (Method B) on **USG** 5/8" Securock® ExoAir® 430 Panel - Dated: 1/21/2015
- A **Pei** test report No. 2014-1788 (O) - ASTM E2570 / ICC-ES AC212 Water Vapor Transmission Tests on ExoAir® 430 Film Tested to Procedure A - Desiccant Method - Dated: 3/10/2015
- A **Pei** test report No. 2014-1788 (P) - ASTM E2570 / ICC-ES AC212 Water Vapor Transmission Tests on ExoAir® 430 Film Tested to Procedure A - Water Method - Dated: 3/10/2015
- A **Pei** test report No. 2014-1788 (S) - ASTM E2570 / ICC-ES AC212 Water Vapor Transmission Tests on 5/8" **USG** Securock® ExoAir® 430 Panel Tested to Procedure A - Desiccant Method - Dated: 4/24/2015
- A **Pei** test report No. 2014-1788 (T) - ASTM E2570 / ICC-ES AC212 Water Vapor Transmission Tests on 5/8" **USG** Securock® ExoAir® 430 Panel Tested to Procedure B - Water Method - Dated: 4/24/2015
- A **Pei** test report No. 2014-1788 (U) - ASTM E2570 / ICC-ES AC212 Water Vapor Transmission Tests on 5/8" **USG** Securock® Glass-Mat Sheathing Tested to Procedure B - Water Method - Dated: 6/26/2015
- 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 - Desiccant 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 - Desiccant Method and Tested to Procedure B - Water Method - Dated: 7/28/2016
- A **Pei** test report No. 2016-1313 (A) - ASTM E96 Water Vapor Transmission Test on 5/8" **USG** Securock Ultralight Glass-Mat Sheathing Tested to Procedure B - Water Method - Dated: 7/21/2016
- A **Pei** test report No. 2020-6286 (A) - ASTM E96 Water Vapor Transmission Test on 1/2" **USG** Securock ExoAir 430 Panels Tested to Procedure B - Water Method - Dated: 2/17/2021
- A **Pei** test report No. 2020-6286 (B) - ASTM E96 Water Vapor Transmission Test on 1/2" **USG** Securock ExoAir 430 Panels Tested to Procedure B - Water Method - Dated: 2/17/2021
- A **Pei** test report No. 2016-600 (E) - ASTM E2570 / ICC-ES AC212 Water Vapor Transmission Tests on 1/2" **USG** Securock® ExoAir® 430 Panel (Spray Coated), Tested to Procedure A - Desiccant Method - Dated: 4/27/2016
- A **Pei** test report No. 2016-600 (F1) - ASTM E2570 / ICC-ES AC212 Water Vapor Transmission Tests on 1/2" **USG** Securock® ExoAir® 430 Panel (Spray Coated), Tested to Procedure B - Water Method - Dated: 4/27/2016
- 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. 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

**Product Documentation Continued**

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

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 Spacing's - Dated: 7/25/2016

A **Pei** test report No. 2014-1788 (I) - ASTM 2570 / ICC-ES AC212 Water Ingression Testing on 5/8" Securock® ExoAir® 430 Panel For Use as a Water-Resistive Barrier - Dated: 2/10/2015

A **Pei** test report No. 2014-1788 (M) - ASTM E2570 / ICC-ES AC212 Freeze-Thaw Tests on 5/8" Securock® ExoAir® 430 Panels Using Dymonic® 100 and Spectrum® 1 Sealants - Dated: 2/11/2015

A **Pei** test report No. 2014-0868 (D) - ASTM E2570 / ICC-ES AC212 Water Resistance Testing on 5/8" **USG** Securock® ExoAir® 430 Panel Using Dymonic® 100 and Spectrum 1® Sealants - Dated: 7/28/2014

A **Pei** test report No. 2014-0868 (J) - ASTM E2570 / ICC-ES AC212 Weathering Tests on 5/8" Securock® ExoAir® 430 Panels Using Dymonic 100 & Spectrum 1 Sealants - Dated: 9/15/2014

Test Report No. T41 for ASTM E283 and ASTM E2357 - Dated: 7/21/2014

Test Report No. T42 for ASTM E283 and ASTM E2357 - Dated: 7/22/2014

Test Report No. T43 for ASTM E283 and ASTM E2357 - Dated: 7/23/2014

Test Report No. T44 for ASTM E283 and ASTM E2357 - Dated: 7/24/2014

Test Report No. R27656 - ASTM E331-00 (R2009), Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference and ASTM E2357-11, Standard Test Method for Determining Air Leakage of Air Barrier Assemblies- Dated: 7/16/2014

An ASTM E2178 Opinion Letter for 1/2" **USG** Securock Ultralight Glass-Mat Sheathing and 5/8" **USG** Securock Ultralight Firecode X Glass-Mat Sheathing - Dated: 11/15/2016

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A **Pei** test report No. 2014-1788 (H1) - ASTM E2570 / ICC-ES AC 212 Large Scale Durability on 5/8" Securock® ExoAir® 430 Panel Using Dymonic® 100 - Dated: 2/9/2015

A **Pei** test report No. 2014-1788 (H2) - ASTM E2570 / ICC-ES AC 212 Large Scale Durability on 5/8" Securock® ExoAir® 430 Panel Using Spectrum® 1 - Dated: 2/10/2015

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. 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

UL Project No. 09CA06340 - 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 Project No. 09CA06340 Report 3 - 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 Project No. 09CA06340 Report 4 - 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

**Product Documentation Continued**

UL Project No. 08CA05819 - ASTM E136-04 - Standard Test Methods for the Behavior of Materials in a Vertical Tube Furnace at 750°C - Dated: 5/21/2008 - Stamped by a Professional Engineer

UL Project No. 08CA05754 - ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials - Dated: 6/2/2008 - Stamped by a Professional Engineer

UL Project No. 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: 9/11/2014

UL Project No. 4787336638 - ASTM E119-00a - Fire Tests of Building Construction and Materials Investigation, Dated: 3/3/2016

ASTM E119-00a - Fire Tests of Building Construction and Materials - Dated: 5/14/2009 - Stamped by a Professional Engineer

UL Project No. 09CA06340 - Report 1 - ASTM E119-00a - Fire Tests of Building Construction and Materials - Dated: 5/29/2009 - Stamped by a Professional Engineer

A *Pei* Opinion Letter for ASTM E84 - 1/2" USG Securock Ultralight Glass-Mat Sheathing and 5/8" USG Securock Ultralight Firecode X Glass-Mat Sheathing - Dated: 11/16/2016

UL Project No. 08CA05819 - ASTM E84-07 - Fire Tests For Surface Burning Characteristics of Building Materials - Dated: 5/21/2008 - Stamped by a Professional Engineer

UL Project No. 09CA06340 - ASTM E84 - Fire Tests For Surface Burning Characteristics of Building Materials - Dated: 5/29/2009 - Stamped by a Professional Engineer

UL Project No. 4786479791 - Tests in accordance with ASTM E84-13 - Test for Surface Burning Characteristics of Building Materials - Dated: 7/10/2014

Test Report No. 1851308 - UL 723 Test for Surface Burning Characteristics of Building Materials - Dated: 7/10/2014

Test Report No. STL-R-12-29-2014a - ASTM E1252 - Standard Practice for General Techniques for Obtaining Infrared Spectra for Qualitative Analysis - Dated: 12/29/2014

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A *Pei* Calculation Project No. 2009-0807 - 5/8" Securock Glass-Mat Sheathing Allowable Wind Pressure - Dated: 8/28/2009

A *Pei* Calculation Project No. 2016-0961 - 1/2" Securock Glass-Mat Sheathing Allowable Wind Pressure - Dated: 5/11/2016

A *Pei* Opinion Letter for AABA 5.2 and ICC-ES AC212 Compliance of ExoAir 430 Products - Dated: 12/16/2016

A *Pei* Opinion Letter for AATCC 127 Compliance of Alternative Thickness & Density of ExoAir 430 Products - Dated: 12/19/2016

Miami-Dade County Notice of Acceptance - NOA No. 17-0919.03 - Expiration: 9/8/2020

A *Pei* test report No. 2018-6099 (A) - Evaluation of 1/2" USG Securock Brand Ultralight Glass-Mat Sheathing with PAREX EIFS and 1/2" USG Securock ExoAir 430 Panels with PAREX EIFS to TAS 201, 203 and 203 per the Florida Building Code - Dated: 10/3/2018

A *Pei* test report No. 2018-6099 (B) - Evaluation of 5/8" USG Securock Brand Ultralight Glass-Mat Sheathing with PAREX Armourwall Stucco and 5/8" USG Securock ExoAir 430 Panels with PAREX Armourwall Stucco to TAS 201, 203 and 203 per the Florida Building Code - Dated: 10/3/2018