



TECHNICAL DATA SHEET

REVITALITE™ PANELS

Prefabricated, Lightweight,
Structural, Insulated Façade
DS964

PRODUCT DESCRIPTION

Revitalite™ is a prefabricated, lightweight, structural, non-thermally conductive insulated façade panel system for use in new construction or retrofit/recladding onto exterior above-grade wall assemblies.

Revitalite panels may be mechanically fastened to approved, load bearing substrates or rested on a concrete footer. For a mechanical attachment, this panel can leverage two different attachment systems based on the project requirements to allow for maximum design flexibility.

Revitalite patent pending attachment methods provides the benefit of attaching to the rear of the panel in order to eliminate any thermal bridging. One of the attachment options can create a 4- or 6-inch cavity space between the existing façade and the back of the Revitalite panel for new MEP services in a retrofit/reclad application while the other attachment option is designed for applications where lot line encroachment may be a concern.

BASIC USES

Revitalite is typically installed directly to existing facades for retrofits/recladding. Revitalite panels can also be used in new construction applications by installation onto a concrete slab or into a concrete slab edge. Revitalite can also be installed onto Nudura Insulated Concrete Forms (ICF), or other manufacturers' ICF.

FEATURES & BENEFITS

- Lightweight (approximately 9.0 lb/ft²) allows for minimal structural reinforcement on most commercial projects, saving cost and allowing expedited on-site installation
- Prefabricated panels allow for factory controlled QA/QC measures that are not easily obtainable with field fabrication.
- Internal framing allows for windows to be installed and sealed in the factory, dramatically decreasing construction cycle time, site logistics and tenant disruptions.
- Mechanically attached systems, in conjunction with Willseal® weather sealing tapes allows for inclement weather installs and helps reduce in-field installation labor.

AVAILABILITY

Revitalite is available directly from Tremco® as part of a project specific order only.

COLORS

Revitalite is available in a variety of finishes. Please contact your local Tremco CPG representative for more information.

APPLICABLE STANDARDS

Revitalite has been tested to the following industry standards:

- AAMA 501.1 Water Penetration of Windows, Curtain Walls and Doors Using Dynamic Pressure
- AAMA 501.4 Test Method for Evaluating Window Wall, Curtain Wall and Storefront Systems Subjected to Seismic and Wind-Induced Inter-Story Drift
- AATCC 127 Test Method for Water Resistance: Hydrostatic Pressure
- ASTM B117 Standard Practice for Operating Salt Spray (Fog) Apparatus
- ASTM C272 Standard Test Method for Water Absorption of Core Materials for Sandwich Construction
- ASTM C297 Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions
- ASTM C303 Standard Test Method for Dimensions and Density of Preformed Block and Board Type Thermal Insulation
- ASTM C518 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
- ASTM C1363 Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus

- ASTM D968 Standard Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive
- ASTM D1621 Standard Test Method for Compressive Properties of Rigid Cellular Plastics
- ASTM D2247 Standard Practice for Testing Water Resistance of Coatings in 100% Relative Humidity
- ASTM D2863 Standard Test Method for Measuring the Minimum Oxygen Concentration to support Candle-Like Combustion of Plastics (Oxygen Index)
- ASTM D3273 Standard Test Method for Resistance to Growth of Mold on the surface of Interior Coatings in an Environmental Chamber
- ASTM D4060 Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser
- ASTM E72 Standard Test Methods for Conducting Strength Tests of Panels for Building Construction
- ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials
- ASTM E96 Standard Test Methods for Water Vapor Transmission of Materials
- ASTM E119 Standard Test Methods for Fire Tests of Building Construction and Materials
- ASTM E283 Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, ASTM E330 Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference Skylights, Curtain Walls, and Doors under specified pressure differences Across the Specimen
- ASTM E331 Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
- ASTM E1233 Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Cyclic Air Pressure Differential
- ASTM E2098 Standard Test Method for Determining Tensile Breaking Strength of Glass Fiber Reinforcing Mesh for Use in Class PB Exterior Insulation and Finish Systems, after Exposure to a Sodium Hydroxide Solution
- ASTM E2178 Standard Test Method for Determining Air Leakage Rate and Calculation of Air Permeance of Building Materials
- ASTM E2357 Standard Test Method for Determining Air Leakage of Air Barrier Assemblies
- ASTM E2485 Standard Test Method for Freeze/Thaw Resistance of Exterior Insulation and Finish Systems and Water Resistive Barrier Coatings
- ASTM G155 Standard Practice for Operating Zenon Arch Light Apparatus for Exposure of Non-Metallic Materials
- NFPA 268 Standard Test Method for Determining Ignitability of Exterior Wall Assemblies Using a Radiant Heat Energy Source
- NFPA 275 – Standard Test Method of Fire Tests for the Evaluation of Thermal Barriers
- NFPA 285 Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components

FIRE-RATED SYSTEMS

Revitalite has been tested in assemblies according to NFPA 285 Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components. All of the NFPA 285 Intertek listed assemblies using Tremco CPG materials can be found using the hyperlink: [Intertek Directory of Building Products](#).

For NFPA 285 engineering judgment requests please go to [Tremco NFPA 285 Engineering Judgement Request](#) or contact Tremco Technical Service at 866.209.2404.

LIMITATIONS

- Protect Revitalite panels from physical damage prior to being installed onto the building.
- Store Revitalite panels away from ponding water to eliminate the risk of damage to the exterior finish.
- Revitalite panels are engineered to support a window unit and their own structural load. They have not been engineered as load bearing walls and as such would need special, project specific engineering consideration if intended to be used as load bearing or shear walls.

WARRANTY

Tremco warrants its Products to be free of defects in materials but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Tremco makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE with respect to Tremco Products.

Tremco's sole obligation shall be, at its option, to replace or to refund the purchase price of the quantity of Tremco Products proven to be defective, and Tremco shall not be liable for any loss or damage.

TYPICAL PANEL DATA

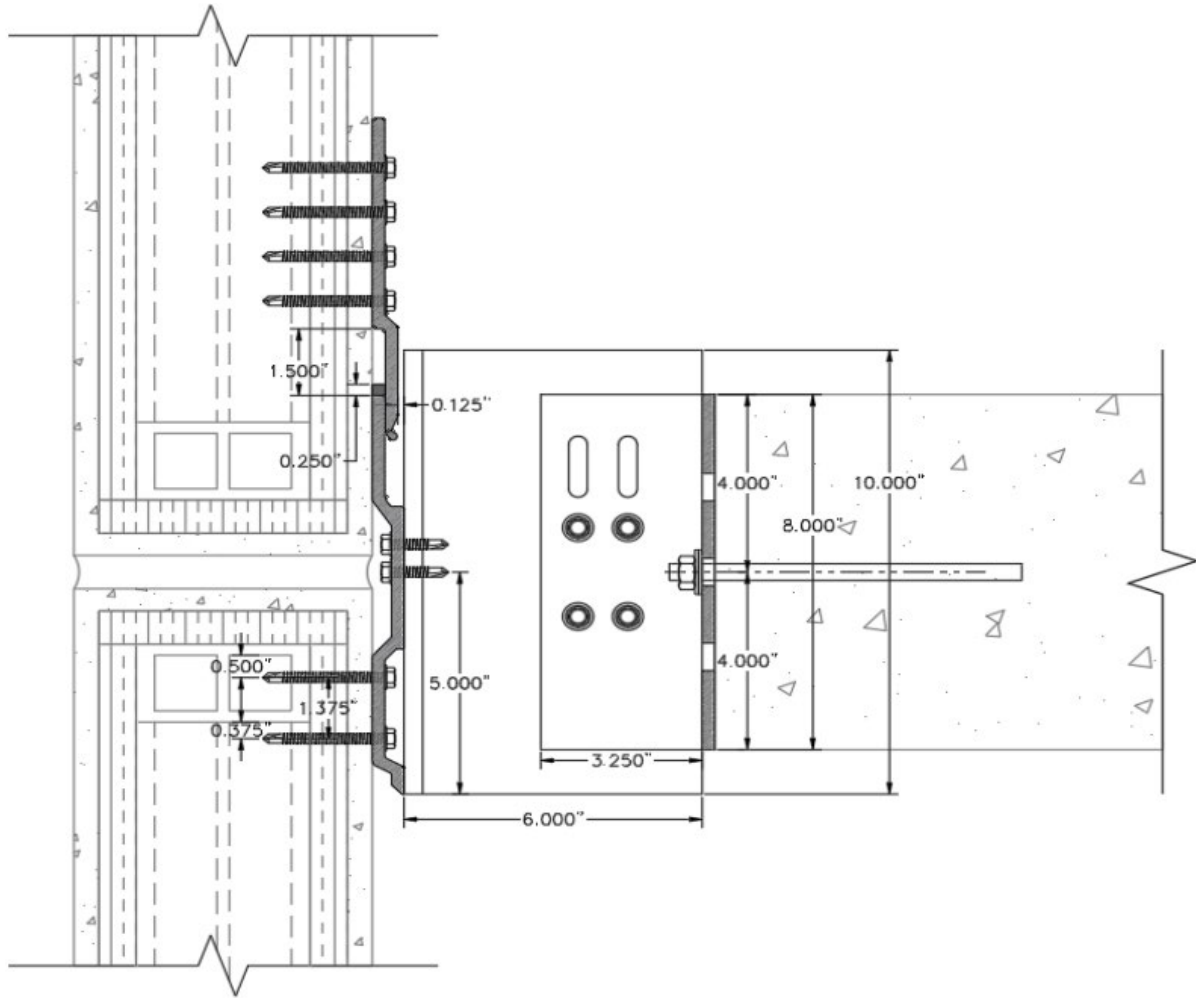
PROPERTY	DESCRIPTION
Type	Panel
Color	Standard Finish, Specialty Finish, Custom Color
Thickness	Minimum: 6 ½ inches (165 mm), Maximum: 18 inches (457 mm)
Length	Minimum: 1 foot (30 cm), Maximum: 10 feet (3 m)
Width	Minimum: 1 foot (30 cm), Maximum: 15 feet (4.57 m)
Weight, Nominal	9.0 Pounds/Square Feet (44 Kilograms/Square Meter)
Edges	Standard: Square, Rounded, Custom Shape

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TEST RESULTS
Abrasion Resistance	ASTM D968	Passed > 1,056 quarts (1,000 liters)
Accelerated Weathering	ASTM G155 (Cycle 1)	Passed > 5,000 hours
Freeze-Thaw	ASTM E2485	Passed > 90 Cycles
Mildew Resistance	ASTM D3273	No growth (60 Days)
Water Resistance	ASTM D2247	Passed > 42 Days
Taber Abrasion	ASTM D4060	Passed > 1,000 cycles
Salt Spray Resistance	ASTM B117	Passed > 1,000 hours
Water Penetration	ASTM E331	Passed: 2 hours at 6.24 PSF (299 Pa)
Water Vapor Transmission	ASTM E96 (Method B)	40 Perms (2,288 ng/s•m ² •Pa)
Drainage Efficiency	ASTM E2273	Passed
Tensile Bond	ASTM C297	> 31 PSI (213.6 kPa)
Fire Resistance	ASTM E119	Passed 1 hour non-load bearing
Ignitability	NFPA 268	Passed, no ignition at 20 minutes
Fire Resistance of Assembly	NFPA 285	Passed as part of a listed assembly
Surface Burning Characteristics	ASTM E84	Class A: Flame Spread ≤ 25 , Smoke Development ≤ 450

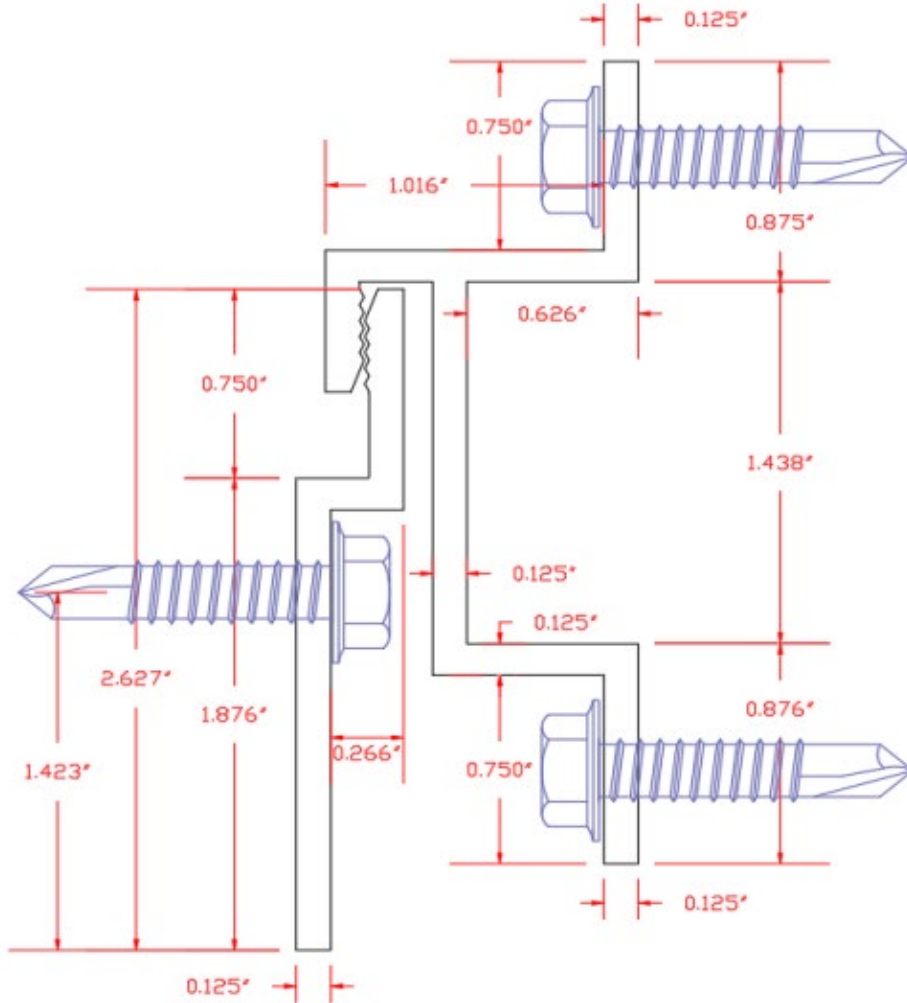
ALLOWABLE ULTIMATE WIND LOAD (H Bracket Attachment Method)

FASTENER LAYOUT	ULTIMATE WIND SPEED (PSF)	ULTIMATE WIND SPEED (MPH)
	4" Cavity – 2 Anchors at Center Line	
32" O.C.	100	197.64
	6" Cavity – 2 Anchors at Center Line	
32" O.C.	95	192.64
	6" Cavity – 4 Anchors Offset from Center Line	
32" O.C.	95	192.64



ALLOWABLE ULTIMATE WIND LOAD (Revitalite M Rail Attachment Method)

FASTENER LAYOUT	ULTIMATE WIND SPEED (PSF)	ULTIMATE WIND SPEED (MPH)
	Studs 16" O.C. – Channels 16" O.C.	
18 Ga Metal Stud	100	165.36



Information contained in this product sheet conforms to the standard detail recommendations and specifications for the installation of Dryvit products as of the date of publication of this document and is presented in good faith. Dryvit assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To ensure that you are using the latest, most complete information, contact Dryvit.

For more information on Dryvit or Continuous Insulation, [click here](#).

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