



TECHNICAL DATA SHEET

FEDDERLITE® PANELS

Prefabricated, Lightweight, Insulated
Façade Panel System for New
Construction or Retrofit/Recladding
DS965

PRODUCT DESCRIPTION

Fedderlite® is a prefabricated, lightweight insulated façade panel system for use in new construction or retrofit/recladding onto exterior above-grade wall assemblies.

Fedderlite panels may be adhered or mechanically fastened to approved substrates. For a mechanical attachment method, this panel utilizes a unique process for embedding reinforcing channels into the rear of the panel that eliminates any thermal bridging and allows for a blind connection from the exterior.

BASIC USES

Fedderlite is typically installed to exterior sheathing in new construction applications or existing facades for retrofits/recladding. Fedderlite panels can also be installed onto Nudura Insulated Concrete Forms (ICF), or other ICF manufacturers.

FEATURES & BENEFITS

- Ultra-Lightweight (approximately 2.5 lb/ft²) allows for easier handling and expedited on-site installation
- Prefabricated panels allow for factory controlled QA/QC measures that are not easily obtainable with field fabrication.
- Unique, embedded reinforcing channels provide additional strength and enhanced handling
- Mechanically attached Fedderlite M allows for inclement weather installs, eliminates adhesive mixing, and helps reduce in-field installation labor.

AVAILABILITY

Fedderlite is available directly from Tremco as part of a project specific order or via one of our network partner fabricators. For network partner fabricators, visit www.dryvit.com

COLORS

Fedderlite is available

APPLICABLE STANDARDS

Fedderlite has been tested to the following industry standards:

- ASTM B117 Standard Practice for Operating Salt Spray (Fog) Apparatus
- ASTM C67 Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile
- ASTM C177 Standard Guide for Thermal Performance Testing of Cryogenic Insulation Systems
- 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 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 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 E330 Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference

- ASTM E331 Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
- 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 E2273 Standard Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems Clad Wall 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 285 Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components

FIRE-RATED SYSTEMS

Fedderlite 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

- Do not adhesively apply to damp, contaminated or frost-covered surfaces.
- When applying adhesively to surfaces below 40 °F(5 °C), please contact Tremco Technical Services at 866.209.2404 for project specific guidance.
- Protect Fedderlite panels from physical damage prior to being installed onto the building.
- Store Fedderlite panels away from ponding water to eliminate the risk of damage to the exterior finish

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

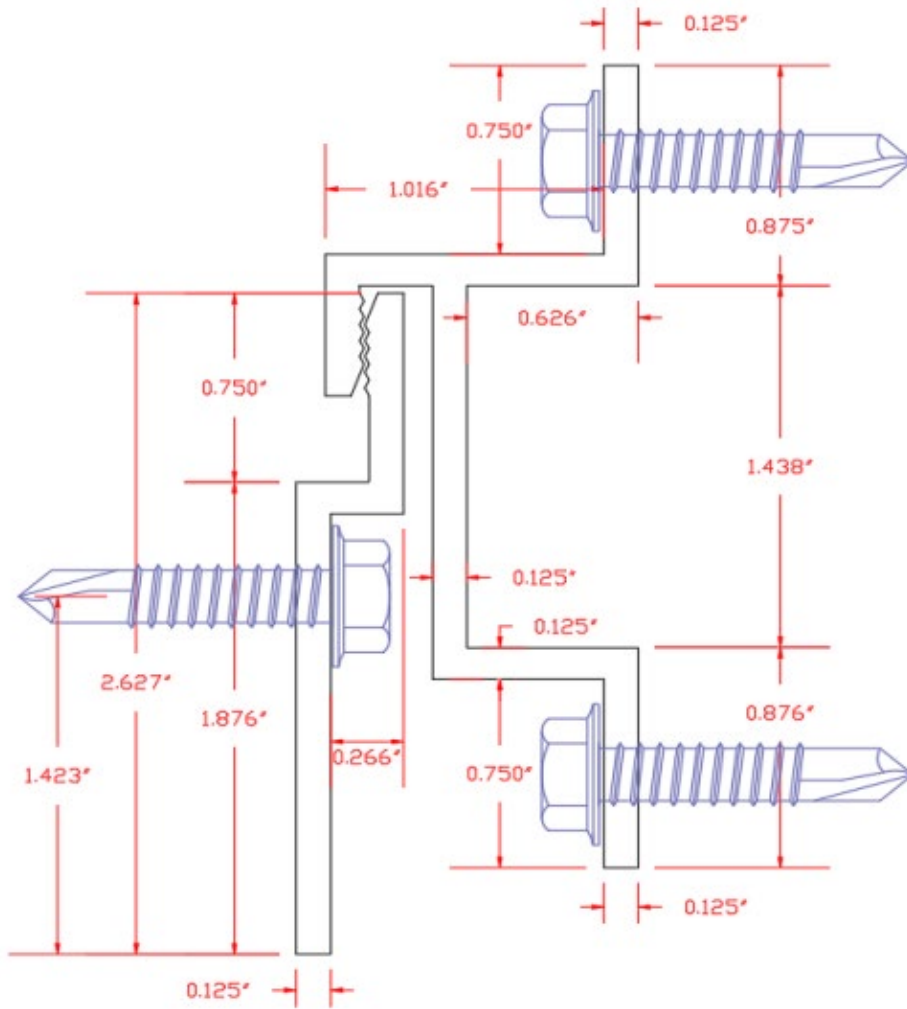
PROPERTY	DESCRIPTION
Type	Panel
Color	Standard Finish, Specialty Finish, Custom Color
Thickness	Minimum: 2 inches (51 mm), Maximum: 18 inches (457 mm)
Length	Minimum: 2 inches (51 mm), Maximum: 6 feet (1.8 m)
Width	Minimum: 2 inches (51 mm), Maximum: 8 feet (2.4 m)
Weight, Nominal	2 ½ Pounds/Square Feet (12 ¼ 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 (Mechanical Attachment Method)

FASTENER LAYOUT	ULTIMATE WIND SPEED (PSF)	ULTIMATE WIND SPEED (MPH)
Studs 16" O.C. – Channels 16" O.C.		
18 Ga Metal Stud	71.67	167.32
2x Douglas Fir Wood Stud	158.33	248.69
Studs 16" O.C. – Channels 24" O.C.		
18 Ga Metal Stud	46.37	135.02
2x Douglas Fir Wood Stud	106.67	204.12
Studs 24" O.C. – Channels 24" O.C.		
18 Ga Metal Stud	31.67	111.22
2x Douglas Fir Wood Stud	70.00	165.36



DS965/12.3.2020

Tremco Construction Products Group (CPG) brings together the Commercial Sealants & Waterproofing and Roofing & Building Maintenance divisions of Tremco CPG Inc.; Dryvit and Willseal brands; Nudura Inc.; Prebuck LLC; Tremco Barrier Solutions, Inc.; Weatherproofing Technologies, Inc.; Weatherproofing Technologies Canada, Inc.; and Pure Air Control Services, Inc.



dryvit.com | 800.556.7752



Construction Products Group

3735 Green Rd. | Beachwood, OH 44122
800.321.7906 | tremcocpg.com