



DRIPWAVE®

TYPE II TONGUE & GROOVE INSULATION

NEXT GENERATION INSULATION SYSTEMS

DRIPWAVE® HIGH PERFORMANCE INSULATION



DESCRIPTION

DripWave® is an energy-efficient expanded polystyrene (EPS) high performance insulation for exterior one-coat stucco applications. Its patented vertically oriented wave pattern (2" OC.) increases air space between the water-resistive barrier and foam insulation providing an integral drainage plane for accumulated moisture to dissipate or escape. Consisting of first generation closed-cell, lightweight, and resilient expanded polystyrene (EPS) DripWave® meets or exceeds the requirements of ASTM C578, Type II, Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation. DripWave® has a nominal density of 1.5 lbs./ft³ providing a stable long-term R-Value, compressive strength, dimensional stability, and water-resistant properties. DripWave® is termite resistant. DripWave® is available in 2' x 8' & 4' x 8' tongue & groove panels and thicknesses of 1"-1 1/2" for use over open wall framing and 1/2"-1 1/2" for use over sheathed wall framing. DripWave® is approved for use in residential, multi-family residential, and commercial structures that are less than 6 stories in height.

PREPARATION

Ensure all substrates are clean, dry, and free from substances and protrusions that could adversely affect the EPS panel and compromise the system. Wall system must be properly designed and structurally sound. Planar irregularities must not exceed 1/4" over 10". Maximum allowable deflection of structural wall components is 1/360 of the span. Wood-based sheathing should be installed using corrosion-resistant fasteners per manufacturer's written specifications and in compliance with all applicable building codes. Special attention should be given to the spacing between sheets. All window and doors must be installed per manufacturer's written specifications and in compliance with industry standards (ASTM & AAMA) and all applicable building codes. Water-resistive barrier (WRB) must be installed per manufacturer's written specifications and in compliance with all applicable building codes. WRB should be installed in weatherboard fashion (shingled) using corrosion-resistant fasteners. Special attention should be given to penetrations in the WRB to ensure there is a water-tight seal between the WRB and the item penetrating it. Solvent-based bituminous primers/sealers are not compatible with DripWave® panels. The use of these primers/sealers is prohibited.

PHYSICAL & THERMAL PROPERTIES

PROPERTIES	TYPE II 1 INCH	TEST METHOD
Nominal Density (PCF)	1.5	ASTM C303
Thermal Resistance (R-Value) (Per Inch) at @25°F	4.76	ASTM C518
(Per Inch) at @40°F	4.55	
(Per Inch) at @75°F	4.33	
Water Vapor Permeability (Perms)	3.5	ASTM E96
Water Absorption (Max. % Volume)	3.0	ASTM C272
Oxygen Index, Min.	24%	ASTM D2863
Compressive Strength @10% Deformation, Min.	15 - 21	ASTM D1621
Flexural Strength (Min. PSI)	35.0	ASTM C203
Dimensional Stability	2%	ASTM D2126
Flame Spread	<20	ASTM E84
Smoke Developed	150-300	ASTM E84
Service Temperature	165°F	ASTM E84
Type II Compliance	Pass	ASTM C578

DripWave® Meets or Exceeds ASTM Standards

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Page 1 of 2

stytek

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INSTALLATION

Install DripWave® in above grade applications only. Terminate a minimum of 4" above grade, 2" above finished grade, or as specified by local code. In vented insulation systems, the DripWave® Weep/Vent Screed must be installed at the bottom of the wall to allow water to drain from the wall system. In ventilated insulation systems, the DripWave® Weep/Vent Screed must be installed at the bottom of the wall to allow water to drain from the wall system and at the top of the wall to allow air to enter and escape from the wall system. See StyTek Installation guidelines for DripWave® specific installation details. Architectural detailing may be added through the installation of optional EPS foam plant-ons. Install lath using corrosion-resistant fasteners per lath manufacturer's written installation instructions and industry standards. Apply stucco/plaster per manufacturer's written specifications and in compliance with all applicable building codes. Special attention should be given to mix ratios, hydration, and lath wire embedment. There must be sufficient slope on the faces of stuccoed/plastered surfaces to prevent water, snow, or ice from accumulating or standing. A qualified design professional is responsible for final design and locations of expansion joints and control joints. Expansion joints should be installed at the floor line, dissimilar substrates, and at through wall expansion joints.

APPROVED WATER-RESISTIVE BARRIERS

Water-resistive barriers must comply with industry standards and all applicable building codes.

APPROVED LATHS

Laths (woven wire, welded wire, and metal lath) must comply with industry standards and all applicable building codes.

APPROVED FASTENERS

Fasteners must be galvanized and comply with industry standards and all applicable building codes. The following fasteners are recommended for panel and weep/vent screed installation.

- Panel Installation-5d x 1 3/4" or #11 x 1 3/4" Roofing Nails
- Weep/Vent Screed-5d x 1 1/4" or #11 x 1 1/4" Roofing Nails

APPROVED SEALANTS

Sealants must be compatible with expanded polystyrene (refer to sealant manufacturer's product data sheets regarding compatibility). Non-solvent based elastomeric joint sealants that meet the ASTM C920 Class 25 Standard are recommended. Polyurethane and polyether based sealants are generally acceptable. A field pre-test is recommended to ensure acceptable results.

UV LIGHT EXPOSURE

DripWave® panels must be covered within 14 days of installation. Prolonged U.V. exposure and exposure to inclement weather could cause premature product and WRB degradation.

SERVICE TEMPERATURE

DripWave® panels will maintain functional stability and all performance characteristics at temperatures up to 165°F.

LIMITATIONS

- DripWave® panels are not for use in below grade applications, behind metal cladding systems (siding, panels, etc...), or in roofing applications.
- Solvent-based bituminous primers/sealers are not compatible with DripWave® panels. The use of these primers/sealers is prohibited.
- DripWave® panels are not to be installed in combination with panels from another manufacturer.
- Dripwave® should not be used in repair applications. Complete new construction assemblies only.

STORAGE & HANDLING

DripWave® panels are packaged in bundles. Store bundles in a dry location protected from UV rays. The bundles should be stored flat on the ground not more than 4 bundles high. Do not stack bundles on edge. DripWave® panels should remain in the shipping packaging until installation. To avoid damage, do not place anything on top of the panel bundles.

When loading DripWave® panels onto a flatbed truck, they must be protected on top during strapping to avoid damage. Use sheet metal corner guards underneath each strap. Do not allow panel bundles to fall or be thrown from the truck, this may damage the panels.

When opening bundle packaging, open the end of the bag and slide out the DripWave® panels. If using a utility knife, be careful not to cut the panel underneath the package.

DRIPWAVE® PLUS 10 YEAR SYSTEM WARRANTY

When DripWave® High Performance Insulation is used in combination with DripWave® Mesh Tape or DripWave® Panel Tape, DripWave® Weep/Vent Screed, and the DripWave® High Performance Installation Guideline, a 10 Year Parts & Labor warranty is provided. Consult StyTek LLC for additional information.



LIMITED LIFETIME PRODUCT WARRANTY

StyTek LLC warrants that its DripWave® High Performance Insulation will perform as described in their product literature and applicable product data sheets for a period of 50 years from the date of purchase. This warranty only applies if the product is properly installed, maintained, and used for the purpose in which the manufacturer intended. Consult StyTek LLC for additional information.

