EnergyShield® PanelCast™
Continuous Concrete Insulation

PRODUCT DATA SHEET

DESCRIPTION

Atlas EnergyShield® PanelCast is a high performance thermal insulation board composed of a closed cell polyisocyanurate foam core with patented coated glass-mat facers on both sides.

APPLICATIONS

Provides continuous insulation for concrete panels, forms and tilt-up walls.

- Exterior walls of masonry or concrete
- Precast insulated concrete sandwich panels
- Site-cast and tilt-up insulated concrete wall panels
- Cast-in-place insulated concrete wall panels
- Under slab

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	VALUES
COMPRESSIVE STRENGTH	ASTM D1621	25 psi
FLAME SPREAD	ASTM E84 / UL 723	≤75
SMOKE DEVELOPMENT	ASTM E84 / UL 723	≤450
WATER VAPOR TRANSMISSION, METHOD A	ASTM E96	1.2 Perm at 1-inch
WATER ABSORPTION	ASTM C209/ASTM C1793	<1% by Volume
DIMENSIONAL STABILITY, LENGTH & WIDTH	ASTM D2126	≤1% Linear Change
SERVICE TEMPERATURES	–	-100°F to +250°F
MOLD RESISTANCE	UL 2824	4, Highly Resistant

Technical and physical properties listed are representative of typical values based on testing and are intended as general guidelines only and subject to manufacturing tolerances. No warranties are given except for those specifically written by Atlas for its products.

SUSTAINABILITY

Atlas polyiso insulation is manufactured using environmentally responsible processes and formulations.

- Contains no CFCs, HCFCs or HFCs
- Zero Ozone Depletion Potential (ODP)
- Negligible Global Warming Potential (GWP)
- GREENGUARD Gold Certification
- Contributes to LEED credits

For more information visit wall.atlasrwi.com/about-wall/sustainability

ADVANTAGES

EnergyShield PanelCast provides a higher R-value per inch compared to EPS and XPS. The textured coated glass-mat facers provides a better bond without having to roughen the surface.

CODE COMPLIANCE

- **ASTM C1289, Type II, Class 2**
- **ASHRAE 90.1**
- **ASHRAE 189.1**
- **International Energy Conservation Code (IECC),** Section 402
- **International Green Construction Code (IgCC)**
- **International Building Code (IBC),** Section 2603
- **International Residential Code (IRC),** Section R316
- **California Thermal Insulation Directory,** T 1231
- **ICC-ES ESR-1375**
- **ASTM E84/UL 723, Class B**

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THICKNESS	R-VALUE *	RSI	RECYCLED CONTENT	PIECES PER PACKAGE	SQ. FT. PER PACKAGE
2.0″	12.1	2.13	9.4%	23	736
2.5″	15.3	2.69	10.1%	18	576
3.0″	18.5	3.26	10.6%	15	480
3.5″	21.7	3.82	11.1%	13	416
4.0″	25	4.40	11.5%	11	352

*Thermal values were determined by ASTM C518 Test Method at 75°F mean temperature using materials conditioned in accordance with ASTM C1289.
"R" means resistance to heat flow. The higher the R-value, the greater the insulating power.
Additional sizes available upon request. EnergyShield PanelCast is shipped on standard 48′ truck with 24 packages per load. Truckload quantities may vary when mixed.

FOR A COMPLETE LIST OF PRODUCT SIZES, SCAN OR CLICK QR CODE TO DOWNLOAD THE PACKAGE & LOADING GUIDE

PRECAUTIONS

- Polyiso may contribute to flames and smoke spread when exposed to an ignition source of sufficient heat and intensity.
- Always follow local building code requirements.
- EnergyShield PanelCast should be covered within 60 days after installation.

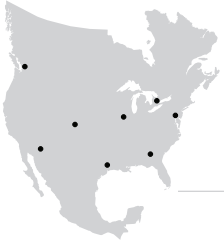
WARRANTY

EnergyShield PanelCast is backed by a Limited 15-Year Thermal Warranty.

For complete terms and conditions, visit wall.atlasrwi.com/warranty

STORAGE AND PRE-INSTALLATION INSPECTION

- Refer to Techinical Bulletin 16 for detailed information on storage recommendations.
- Insulation shall be kept clean and dry and be protected from damage due to weather and physical abuse at all times.
- Prior to installation, ensure that the insulation and substrate are clean, dry and free of ice, dirt, oils, or any other material that could impede correct installation of the insulation or subsequent material layers.
- Do not install if surface conditions of the insulation or adjacent materials will impede correct installation.



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