EnergyShield® PanelCast® Tri-Lam
Continuous Concrete Insulation

PRODUCT DATA SHEET

DESCRIPTION

Atlas EnergyShield® PanelCast® Tri-Lam is a rigid closed-cell polyisocyanurate insulation board bonded to multiplex facers comprised of tri-laminate layers of foil, kraft, and poly on both sides of the board.

APPLICATIONS

This product is designed for use with concrete walls **ONLY** where boards are sandwiched between two layers of concrete with connectors holding together the finished panel.

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	VALUES
COMPRESSIVE STRENGTH	ASTM D1621	25 psi
FLAME SPREAD, CORE	ASTM E84 / UL 723	≤75
SMOKE DEVELOPED, CORE	ASTM E84 / UL 723	≤450
WATER VAPOR TRANSMISSION, METHOD A	ASTM E96	≤0.1 Perm
WATER ABSORPTION	ASTM C209	<1%
DIMENSIONAL STABILITY, LENGTH & WIDTH	ASTM D2126	≤1% Linear Change
SERVICE TEMPERATURES	-	-100°F to +250°F
FLEXURAL STRENGTH	ASTM C203	40 psi

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)
- Contributes to LEED credits

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

CODE COMPLIANCE

- **ASTM C1289, Type I, Class 2**
- **DRJ TER 2405-113** Concrete Sandwich Panel Construction
- **ASHRAE 90.1**
- **International Energy Conservation Code (IECC)**
- **International Building Code (IBC)**

PRODUCT DATA

THICKNESS	R-VALUE*	RECYCLED CONTENT	PIECES PER PACKAGE	SQ. FT. PER PACKAGE
1.0″	6.5	13.5%	48	1,536
1.5″	9.8	13.8%	31	992
2.0″	13.1	13.9%	23	736
2.5″	16.0	14.0%	19	608
3.0″	19.7	14.1%	15	480
3.5″	22.2	14.2%	13	416
4.0″	26.0	14.2%	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.

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.
- Follow local building code requirements.
- EnergyShield PanelCast Tri-Lam **MUST** be covered on both sides with a minimum 1" thick concrete layer.

WARRANTY

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

For complete terms and conditions, visit atlasrwi.com/wallwarranty

HANDLING

- 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.



Atlas Roofing Corporation
2100 Riveredge Parkway, Suite 600 • Atlanta, GA • 30328
855-552-8527 • wall.atlasrwi.com