EnergyShield® Ply
Continuous Wall Insulation

PRODUCT DATA SHEET

DESCRIPTION

Atlas EnergyShield® Ply is a high performance thermal insulation board comprised of a closed cell polyisocyanurate foam core with patented coated glass-mat facers bonded to plywood.

APPLICATIONS

Provides continuous insulation for Type I–V commercial construction.

- Exterior framed walls with wood or steel studs
- Exterior walls of masonry concrete
- Substrate for mechanical attachment of claddings

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	VALUES, FOAM BOARD ONLY
COMPRESSIVE STRENGTH	ASTM D1621	20 psi
FLAME SPREAD	ASTM E84/UL 723	≤75
SMOKE DEVELOPED	ASTM E84/UL 723	≤450
WATER VAPOR TRANSMISSION, METHOD A	ASTM E96	1.2 Perm at 1-inch
WATER ABSORPTION	ASTM C1763	<1% by Volume
FLEXURAL STRENGTH	ASTM C203	40 psi, min
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)
- Contributes to LEED credits

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

CODE COMPLIANCE

- **ASTM C1289, Type V**
- **ASHRAE 90.1**
- **ASHRAE 189.1**
- **International Energy Conservation Code (IECC)**
- **International Green Construction Code (IgCC)**
- **International Building Code (IBC)**
- **International Residential Code (IRC)**
- **DrJ TER 2502-115** Attachment Method
- **ASTM E84/UL 723, Class B,** Foam Board
- **ANSI/UL 263 / ASTM E119:** 1, 2, 3 or 4 hour Fire Rated Assemblies as listed in the UL Product iQ™
- **US Voluntary Product Standard** PS 2 Compliant

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FOAM BOARD ONLY				⅝″ PLYWOOD					¾″ PLYWOOD				
NOMINAL THICKNESS	R-VALUE*	RSI	RECYCLED CONTENT	COMPOSITE THICKNESS	COMPOSITE R-VALUE**	COMPOSITE RSI	PIECES PER PACKAGE	SF PER PACKAGE	COMPOSITE THICKNESS	COMPOSITE R-VALUE**	COMPOSITE RSI	PIECES PER PACKAGE	SF PER PACKAGE
1.0″	6.0	1.06	7.0%	1.625″	6.8	1.20	29	928	1.75″	6.9	1.21	26	832
1.5″	9.0	1.59	8.4%	2.125″	9.8	1.72	22	704	2.25″	9.9	1.74	20	640
2.0″	12.1	2.13	9.4%	2.625″	12.9	2.27	17	544	2.75″	13.0	2.29	17	544
2.5″	15.3	2.69	9.4%	3.125″	16.1	2.83	15	480	3.25″	16.2	2.89	14	448
3.0″	18.5	3.26	10.0%	3.625″	19.3	3.40	13	416	3.75″	19.4	3.41	12	384
3.5″	21.7	3.82	10.5%	4.125″	22.5	3.96	10	320	4.25″	22.6	3.98	10	320

*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.
**Plywood R-values obtained from APA-Engineered Wood Construction Guide
Additional sizes available upon request. EnergyShield Ply is shipped on standard 48' truck with 24 packages per load. Truckload quantities may vary when mixed.

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 Ply is not intended to be left exposed to the elements as with any application of wood within the building envelope.

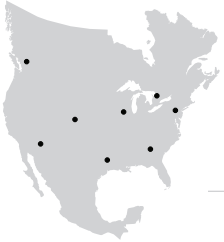
WARRANTY

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

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

HANDLING

- 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.
- Factory applied packaging is intended only for protection during transit.
- The temporary factory applied packaging should be slit or removed to prevent accumulation of condensation.
- When stored outdoors or on the job site, the insulation should be stacked on pallets at least three inches above ground level and completely covered with a weatherproof covering such as a tarpaulin.



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