EnergyShield® CGF
Continuous Wall Insulation

PRODUCT DATA SHEET

DESCRIPTION

Atlas EnergyShield® CGF 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 Type V residential, multi-family and light commercial construction

- Exterior framed walls with wood or steel studs
- Exterior walls of masonry or concrete
- Exterior framed walls with or without sheathing
- Under slab and below grade exterior foundation
- Attics and crawlspaces without requiring a thermal barrier
- Air and water resistive barrier when installed accordingly

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	VALUES
COMPRESSIVE STRENGTH	ASTM D1621	20 psi
FLAME SPREAD	ASTM E84 /UL 723	≤75
SMOKE DEVELOPMENT	ASTM E84 /UL 723	≤450
WATER VAPOR TRANSMISSION, METHOD A	ASTM E96/ASTM C1763	1.2 Perm at 1-inch
WATER ABSORPTION	ASTM C209/ASTM D1763	<1% by Volume
FLEXURAL STRENGTH	ASTM C203	40 psi, min
DIMENSIONAL STABILITY, LENGTH & WIDTH	ASTM D2126	≤1% Linear Change
SERVICE TEMPERATURE	–	-100°F to +250°F
MOLD RESISTANCE	UL 2824	4, Highly Resistant
AIR PERMEANCE	ASTM E2178	<0.02 L/s·m2 @ 75 Pa

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 CGF provides multi-functional protection by addressing the necessary control layers to create a high performing wall assembly and provides installation efficiency.

CODE COMPLIANCE

- **ASTM C1289 Type I, 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
- **ASTM E2178** Air Barrier Material
- **ASTM E331** Water Penetration
- **ICC-ES AC71** Water-Resistive Barrier
- **DrJ TER 2202-01** Weather-Resistive Properties
- **ICC-ES ESR-1375**
- **ASTM E84/UL 723, Class B**
- **ICC-ES AC12** Appendix B

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NOMINAL THICKNESS	R-VALUE *	RSI	RECYCLED CONTENT	PIECES PER PACKAGE	SQ. FT. PER PACKAGE 4′×8′	SQ. FT. PER PACKAGE 4′×9′
0.50″	3.0	0.53	3.9%	45	1,440	1,620
0.75″	4.5	0.79	5.2%	31	992	1,116
1.00″	6.0	1.06	6.2%	23	736	828
1.50″	9.0	1.58	7.7%	31	992	1,116
2.00″	12.1	2.13	8.7%	23	736	828
2.50″	15.3	2.69	9.4%	18	576	648
2.90″	17.9	3.15	9.9%	16	512	576
3.00″	18.5	3.26	10.0%	15	480	540
3.50″	21.7	3.82	10.5%	13	416	468
4.00″	25.0	4.40	10.9%	11	352	396

*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 CGF 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 CGF should be covered within 60 days after installation.

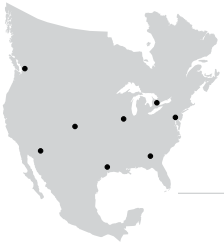
WARRANTY

EnergyShield CGF 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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