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 coated glass-mat facers on both sides.

APPLICATIONS

Provides continuous insulation for Type V residential, multi-family and light commercial construction

- Exterior walls framed with wood or steel stud
- Exterior walls of masonry or concrete
- Exterior framed walls with or without sheathing
- Attics and crawlspaces without requiring the use of an ignition 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 DEVELOPED	ASTM E84 / UL 723	≤450
WATER VAPOR TRANSMISSION, METHOD A	ASTM E96	1.2 Perm at 1-inch
WATER ABSORPTION	ASTM C209 / ASTM C1763	<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
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
www.atlasrwi.com/about-polyiso/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 II, Class 2**
- **ASHRAE 90.1**
- **ASHRAE 189.1**
- **International Energy Conservation Code (IECC)**
- **International Green Construction Code (IgCC)**
- **International Building Code (IBC)**
- **International Residential Code (IRC)**
- **California State Thermal Insulation Directory,** T 1231
- **Miami-Dade County Product Control Approved,** NOA No. 24-1023.04
- **ASTM E2178** Air Barrier Material
- **ASTM E331** Water Penetration
- **ICC-ES AC71** Water-Resistive Barrier
- **DrJ TER 2202-01** Water-Resistive Properties
- **ICC-ES ESR-1375**
- **ASTM E84/UL 723, Class B**
- **ANSI/UL 263 / ASTM E119:** 1, 2, 3 or 4 hour Fire Rated Assemblies as listed in the UL Product iQ™
- **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′
0.5″	3.0	0.53	3.9%	45	1,440	1,620
0.75″	4.5	0.79	5.2%	31	992	1,116
1.0″	6.0	1.06	6.2%	23	736	828
1.5″	9.0	1.58	7.7%	31	992	1,116
1.7″	10.2	1.80	8.1%	28	896	1,008
2.0″	12.1	2.13	8.7%	23	736	828
2.5″	15.3	2.69	9.4%	18	576	648
3.0″	18.5	3.26	10.0%	15	480	540
3.5″	21.7	3.82	10.5%	13	416	468
4.0″	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.

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.

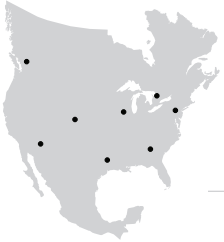
WARRANTY

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

For complete terms and conditions, visit 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.



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