

FIRESTONE ISO 95+™
POLYISO ROOF INSULATION BOARD



Firestone
BUILDING PRODUCTS

NOBODY COVERS YOU BETTER™

www.firestonebpco.com

FIRESTONE ISO 95+™

Firestone polyisocyanurate insulation products consist of a closed-cell polyiso foam core that uses a superior foam technology that does not contribute to the depletion of the earth's ozone layer: "IsoGard™ Foam Technology." This new foam technology is HCFC-free and has no Ozone Depletion Potential (Zero-ODP). All Firestone polyiso products comply with United States Environmental Protection Agency and the Montreal Protocol requirements.

Firestone ISO 95+ insulation has a black glass reinforced facer on both sides of the foam core and meets ASTM 1289 Type II, Class 1 insulation products. ISO 95+ insulation is suitable for adhered, ballasted and mechanically fastened single ply and asphalt systems.

A Winning Combination: Firestone Design Support & Materials

Installing Firestone polyiso insulations as part of a Firestone Total Roofing System provides the customer with a single source of quality design, quality materials and warranty responsibility.

Firestone Building Products is the only domestic manufacturer to produce a complete line of insulation products and membrane systems, including EPDM, Modified Bitumen (APP and SBS), built-up roofing and TPO. Nobody provides greater total system responsibility than Firestone Building Products.

Product Availability

Firestone ISO 95+ roof insulation is available in board sizes of 4' x 4' (1.22m x 1.22m) and 4' x 8' (1.22m x 2.44m) and in thicknesses of 0.5" (25.4mm) to 4.0" (101.6mm). Other sizes and thicknesses may be special ordered. Minimum order quantities may apply.

Code Compliance

Firestone polyiso insulations bear a variety of code body compliances noted below:

- Factory Mutual (FM) approved for Class 1 insulated steel deck construction. (Tested to FM 4450 standard)
- Foamed plastic for built-up roof covering classified by Underwriters Laboratories, Inc. (UL), as to an external fire exposure only (per UL-790)

- Foamed plastic classified by UL as roof deck construction material with resistance to internal fire exposure for use in Construction Nos. 120 and 123 (tested to UL 1256)
- UL Design numbers: P225, P230, P232, P259, P302, P508, P510, P514, P519, P701, P710, P 713, P717, P718, P719, P720, P722, P723, P727, P728, P729, P730, P732, P741, P801, P814, P815, P818, P819, P824, P828
- Federal Specifications: HH-I-1972/ Gen. and HH-I-1972/2
- ASTM C-1289
- Based on current UL and FM test data, Firestone ISO 95+ complies with the IBC when installed in accordance with UL and/or FM requirements. Firestone ISO 95+ insulation also meets Metro-Dade 03-0123.03 and Canadian standards CGSB-15.26-M86.

Insulation Preparation & Application

Before insulation is placed on the roof deck, the surface must be clean, dry, free of debris, water, ice or snow, and suitably prepared by removing all defects that might affect the quality of the application. Any unusual deck conditions or defects should be brought to the architect or building owner's attention prior to installation. The contractor should install only as much insulation daily as can be completely covered by the roofing system to protect it from exposure to weathering and to maintain its watertight integrity.

PART OF A FIRESTONE TOTAL ROOFING SYSTEM.

Cautions & Limitations

Firestone insulation products are non-structural, non-load-bearing materials. The finished roof assembly should be protected from excessive roof traffic with proper walkway materials. Firestone's insulation products have been designed and engineered for use in commercial and industrial roofing applications. The manufacturer makes no claim as to their performance or suitability in residential applications.

Warning

Polyiso foam will burn if exposed to a flame of sufficient heat and intensity. Firestone ISO 95+ insulation should not be used in exposed or inadequately protected applications. Polyiso insulation must be installed in accordance with the manufacturer's recommendations.

Other Firestone Insulations

In addition to ISO 95+ Roof Insulation, Firestone manufactures a full line of insulation products, including:

- Firestone ISO 95+ Tapered Roof Insulation
- Firestone HailGard™ Composite (7/16" OSB)
- Firestone Woodfiber Board Composite
- Firestone ISO 95+ Tapered Composite

Plant Locations

Firestone insulations are manufactured in eight plants located throughout North America:

Aurora, CO
Jacksonville, FL
Florence, KY
Bristol, CT
Corsicana, TX
Salt Lake City, UT
Youngwood, PA
DeForest, WI

Packaging & Safety

Firestone ISO 95+ insulation is wrapped during product packaging. Wrapping the product makes it easier and safer to work with—for those who ship the product *and* for those who install it. It's another example of our commitment to safety before, during and after our products are installed.

Limited Warranty

Firestone warrants its insulation products sold to customers to be free of manufacturing defects and to meet Firestone's physical specifications. Under this limited warranty, any product that is proven to be defective when applied in accordance with Firestone's written instructions and in applications recommended by Firestone as suitable for this product, would be replaced with like product (material only) at no charge. This is the buyer's sole and exclusive remedy. All claims concerning product defects must be made in writing within twelve (12) months of shipment. The absence of such claims in writing during this period will constitute a waiver of all claims with respect to such product.

This limited warranty shall be IN LIEU OF any other warranty, express or implied, and including but not limited to any implied warranty of MERCHANTABILITY or fitness for a particular purpose. Firestone shall not be liable for any consequential or incidental damages.

POLYISO ROOF INSULATION

Insulation Placement:

Insulation shall be staggered from the adjacent boards. All insulation boards shall be butted tightly.

Gaps greater than 1/4" shall be filled with insulation and fastened in place.

General Guidelines:

ISO 95+ insulation is typically fastened to the roof deck using Firestone FM approved fasteners and insulation plates, or may be attached with Firestone I.S.O. Fix™ adhesive, I.S.O. Spray™ adhesive, I.S.O. TwinPack™ adhesive or hot asphalt.

For more specific information, refer to design and application guides at www.firestonebpco.com.

Storage: Firestone ISO 95+ insulation should be protected from the elements by being elevated above the ground or deck and should be fully tarped. The product must be maintained and installed in a dry condition at all times.

Asphalt systems require an approved recover board adhered over mechanically attached ISO 95+ insulation and ISO 300™ insulation.

Fastening patterns may vary for code compliance. Contact Firestone Technical Services or the local code official for assistance.

PHYSICAL PROPERTIES		
PROPERTY	TEST METHOD	TYPICAL VALUE
Density	ASTM D 1622	Nom. 2 pcf
Compressive Strength*	ASTM D 1621	20 psi
Dimensional Stability	ASTM D 2126	2% max.
Moisture Vapor Transmission	ASTM E 96	<1.0 perm
Water Absorption	ASTM C 209	<1.0% volume
Service Temperature	—	-100°F to +250°F

* For requirements greater than 20 PSI, phone Firestone's Estimating Services Department at 800-428-4442.

THERMAL PROPERTIES				
NOMINAL THICKNESS	NOMINAL THICKNESS	LTTR*	MAXIMUM FLUTE SPAN	MAXIMUM FLUTE SPAN
in	mm	in	in	mm
1.0	25.4	6.0	2.625	66.7
1.5	38.1	9.0	4.375	111.1
2.0	50.8	12.1	4.375	111.1
2.5	63.5	15.3	4.375	111.1
3.0	76.2	18.5	4.375	111.1
3.5	88.9	21.7	4.375	111.1
4.0	101.6	25	4.5	114.3

* Note: Long Term Thermal Resistance (LTTR) values have been determined in accordance with CAN/ULC S770.

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Membrane for Roofing Systems
 As to an External Fire Exposure Only
 61P2

See UL Directory of Products
 Certified for Canada
 And UL Roofing Materials
 And Systems Directory

R9516



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