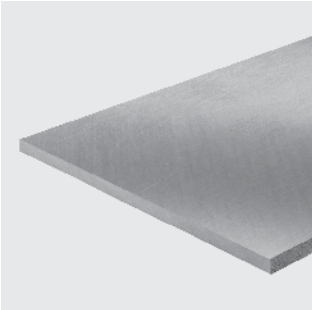


FLINTBOARD® ISO F

Polyisocyanurate Roof Insulation Bonded To Trilaminare Foil

Product Information



Rigid board insulation specifically for single ply roofing systems.

FlintBoard® ISO F Polyisocyanurate Roof Insulation features a closed-cell polyiso core, bonded on each side to trilaminare foil facers. FlintBoard ISO F is approved for ballasted and mechanically attached single ply.

FlintBoard ISO F is offered in a variety of thicknesses, providing long-term thermal resistance (LTTR) values from 6.7 to 24.6. FlintBoard ISO F is also available in 25-psi formula. Available in 4' x 4' (1220 mm x 1220 mm) and 4' x 8' (1220 mm x 2440 mm) panels.

PROPERTY	TEST METHOD	TYPICAL RESULTS
Dimensional Stability (Length and Width)	ASTM D2126	< 2%
Compressive Strength (10% Deformation)	ASTM D1621	20 psi (140 kPa) or 25 psi (172 kPa)
Water Absorption	ASTM C209 ASTM D2842	< 1% < 3.5%
Moisture Vapor Transmission	ASTM E96	< 1.0 perm (85.0ng/ (Pa•s•m ²))
Product Density	ASTM D1622	Nominal 2.0 pcf (32.04 kg/m ³)
Flame Spread	ASTM E84 (Full 10 min.Test)	< 40-60*
Tensile Strength	ASTM D1623	> 730 psf (35 kPa)
Service Temperature	—	-100 to 250°F (-73 to 122°C)

Typical Physical Properties

The physical properties listed above are presented as typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation. This data is offered as a service to our customers and is subject to change. All information can be confirmed by contacting CertainTeed's Technical Department.

*The numerical ratings as determined by ASTM Test Method E84 are not intended to reflect hazards presented by this or any other material under actual fire conditions. A flame spread index of 75 or less meets code requirements regarding flame spread for foam plastic roof insulation. However, flame spread values are not required for foam plastic insulation used in roof deck constructions that comply as an assembly with FM 4450 or UL 1256.

Installation

Ballasted Single Ply Systems: Each FlintBoard ISO F panel is loosely laid on the roof deck. Butt edges and stagger joints of adjacent panels. Install the roof covering according to the manufacturer's specifications.

Mechanically Attached Single Ply Systems: Each FlintBoard ISO F panel must be secured to the roof deck with Factory Mutual approved fasteners and plates (appropriate to the deck type). Butt edges and stagger joints of adjacent panels. Install the roof covering according to the manufacturer's specifications.

Storage

Storage/Precautions: Factory-applied packaging is intended only for protection during transit. When stored outdoors or on the job site, packages should be stacked on pallets at least three inches above ground level and completely covered with a weatherproof covering such as a tarpaulin. The temporary factory-applied packaging should be slit or removed to prevent accumulation of condensation. Roof insulation which has become wet or damaged should be removed and replaced with solid, dry insulation.

Warning! Do Not Leave Exposed: This product is a polyiso organic plastic foam and will burn if exposed to an ignition source of sufficient heat and intensity, or open flame, such as a welder's torch. Like other organic materials, this product will release smoke if ignited. Do not apply flame directly to FlintBoard roof insulations. This product should be used only in strict accordance with CertainTeed recommended uses and instructions.

FlintBoard ISO F Compliances:

- ASTM C1289, Type I, Class 1, Grade 2 (20 psi) or Grade 3 (25 psi)
- Miami-Dade County, Florida
- IBC, NBC, UBC, SBC Sections on Foam Insulation
- State of Florida Product Approval

FM Standard 4450/4470 Approval

FlintBoard ISO F is approved for Class 1 insulated steel, roof deck construction for both 1-60 and 1-90 Windstorm Classifications. Refer to FM Approvals RoofNav for details on specific systems.

UL Standard 1256 Classification

Insulated metal deck construction assemblies – Construction #120 and Construction #123.

UL Standard 790 (ASTM E108) Classification

Class A with most roof membrane systems. See UL Roofing Materials & Systems Directory.

UL Standard 263 Fire Resistance Classification (ASTM E119)

Some classifications for fire resistance are P225, P230, P259, P508, P510, P514, P701, P710, P713, P717, P718, P719, P720, P722, P723, P724, P725, P727, P728, P729, P730, P732, P801, P814, P815, P818, P819, P823 and P828. See UL Fire Resistance Directory for updated listings.

UL Certified for Canada

FlintBoard ISO F Thicknesses and LTTR				
FlintBoard ISO F Long-Term Thermal Resistance*				
Thickness		LTTR Value	Metal	
IN	MM		Deck Flute Spanability	
IN	MM		IN	MM
1.0	25.40	6.5	2 5/8"	66.675
1.5	38.10	10	4 3/8"	111.125
2.0	50.80	13.3	4 3/8"	111.125
2.5	63.50	17	4 3/8"	111.125
3.0	76.20	20.3	4 3/8"	111.125
3.5	88.90	24	4 3/8"	111.125

*Long-term thermal resistance values of the foam were determined in accordance with CAN/ULC-S770. All test samples were third party selected and tested by an accredited materials testing laboratory.

For more information, contact CertainTeed Commercial Roofing Technical Services at 800-396-8134 x2.

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