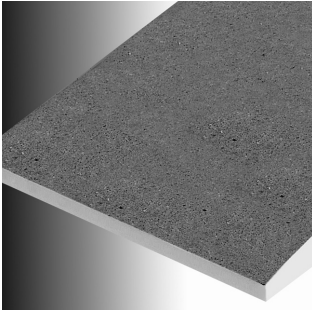


FLINTBOARD® ISO-T

TAPERED POLYISOCYANURATE ROOF INSULATION

Product Information



Physical Properties (Polyiso Foam Core Only)

Rigid tapered insulation board to promote proper roof drainage for BUR, modified bitumen, and single ply roofing systems.

FlintBoard® ISO-T is a rigid insulation board manufactured in a tapered profile for use in BUR, modified bitumen, and single ply roofing systems. It offers the combination of high thermal resistance (LTTR) values plus positive roof drainage. FlintBoard ISO-T consists of a closed-cell polyiso core integrally laminated to heavy, black (non-asphaltic), fiber-reinforced felt facers. It is available with a compressive strength of either 20 or 25-psi and in 4' x 4' (1220 mm x 1220 mm) panel sizes. Available slopes are 1/16" (2mm), 1/8" (3 mm), 3/16" (5 mm), 1/4" (6 mm), 3/8" (10 mm) and 1/2" (13 mm) per foot. FlintBoard ISO-T Cold is also available as pre-cut and pre-assembled hips, valleys, and sumps.

Property	Test Method	Results
Compressive Strength	ASTM D1621	20 psi* (138 kPa, Grade 2)
Dimensional Stability	ASTM D2126	2% linear change (7 days)
Moisture Vapor Transmission	ASTM E96	< 1.0 perm (57.5ng/(Pa•s•m ²))
Water Absorption	ASTM C209	< 1.0% volume
Flame Spread**	ASTM E84	< 75
Smoke Developed**	ASTM E84	< 450
Service Temperature	—	-100°F to 250°F (-73°C to 122°C)

*Also available in 25 psi, Grade 3

**Meets the requirements of the IBC code

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 Commercial Technical Services.

Installation

Refer to the CertainTeed FlintBoard product brochure and to the CertainTeed Commercial Roof Systems Manual for installation details regarding FlintBoard Roof Insulation. Refer also to Technical Bulletin CT-ISO-08-02.

Mechanical Attachment: When installing tapered insulation over base layers of insulation on the roof deck, mechanical fastening can be used. Go to www.certainteed.com for typical fastening patterns for field area of the roof. Refer to the current FM Loss Prevention Data Sheet 1-29 for increased attachment requirements for the perimeter and corners of the roof.

Adhesive Attachment: When installing tapered insulation over base layers of insulation on the roof deck, adhesive/bitumen attachment can be used. Insulation must remain dry before, during, and after installation. When using hot-applied bitumen for attachment of insulation care must be taken to apply the bitumen at the correct temperature and in sufficient quantity to totally cover the insulation. To ensure embedment, the board shall also be "stepped in" at several points while the bitumen is still hot enough to allow positive attachment. When using polyurethane or cold applied asphaltic adhesives, follow the adhesive manufacturer's installation recommendations or go to www.certainteed.com

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.

Caution: Fire Hazard

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.

Warranties

When used as part of a full assembly, product is covered under CertainTeed's Integrity Roof Systems NDL Limited Warranty.

Codes and Comiances

- ASTM C1289, Type II, Class 1, Grade 2 (20 psi) or Grade 3 (25 psi)
- International Building Code (IBC) Chapter 26
- State of Florida Product Approval Number FL5968
- California Code of Regulations, Title 24, Insulation Quality Standard License #TI-1420
- Miami-Dade County Product Control Approved

Underwriters Laboratories, Inc. Classifications

- UL Standard 1256
- Insulated Steel Deck Construction Assemblies — No, 120, 123, 292
- UL Standard 790
- UL Standard 263 Hourly Rated P Series Roof Assemblies

UL Classified for use in Canada

- Refer to UL Directory of Products Certified for Canada for more details
- CCMC 13460-L
- UL Certified for Canada, CAN/ULC-S126, CAN/ULC-S101, CAN/ULC-S107
- CAN/ULC-S704 Type 2, Class 3 (20 psi) or Type 3, Class 3 (25 psi)

Factory Mutual Approvals

- FM 4450, FM 4470
- Approved for Class 1 Insulated Steel Deck Constructions for 1-60 to 1-270. Refer to FM Approvals RoofNav® for specific system details

Technical Assistance and Services

CertainTeed provides technical assistance in the product selection, specification and application guidelines for all CertainTeed commercial roof systems. Field representatives are available for consultation in each region.

For more information, contact CertainTeed Commercial Roofing Technical Services at 800-396-8134 ext. 2 or rpg@saint-gobain.com

FlintBoard ISO-T Thicknesses and LTR

Marking	Thickness		LTR Value*	Slope	
	Inches	mm		per ft	percent
AA	.05-1.0	12-25	4.2	.125	1
A	1.0-1.5	25-38	7.0	.125	1
B	1.5-2.0	38-50	9.9	.125	1
C	2.0-2.5	50-63	12.9	.125	1
X	.05-1.5	12-38	5.6	.25	2
Y	1.5-2.5	38-63	11.4	.25	2
Q	0.5-2.5	12-63	8.5	.5	4

*LTR (long term thermal resistance) values are based on ASTM C 1289, effective 1/1/2014, which provides updated 15 year time weighted averages.



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