

DESCRIPTION:	Closed-cell polyisocyanurate (polyiso) foam core integrally bonded to inorganic coated glass facers. Flex ISO III tapered roof insulation is offered in a variety of slopes, to achieve positive drainage as well as long-term thermal resistance (LTTR). Available in 4ft x 4ft (1220mm x 1220mm) panels with 1/8" (3mm), 1/4" (6mm) and 1/2" (12mm) per foot slope. Manufactured in accordance with ASTM C1289, Type II, Class 2, Grade 2 (20 psi) or Grade 3 (25 psi) and CAN/ULC-S704 Type 2, Class 3 or Type 3, Class 3.
ADVANTAGES:	When using Flex ISO III tapered insulation in adhered systems, field testing has confirmed significantly more efficient use of solvent-based adherive applications that with example factors is accommon

- adhesives than with organic faced insulations. Adhesive application rates vary by manufacturer. Check adhesive manufacturer's recommendation for application rates. Manufactured using CFC-, HCFC- and HFC-free foam blowing technology with zero ozone depletion potential (ODP) and virtually no (negligible) global warming potential (GWP). Recognized by the GREENGUARD Environmental Institute as resistant or highly resistant to mold growth based on independent testing using GREENGUARD Test method GGTM.PO40 (ASTM D6329) for microbial resistance. Flex ISO III tapered insulation contains between 10.85% and 4.62% recycled materials by weight.
- APPLICATION: Manufactured and tested for use in new and re-roofing applications. Flex ISO III tapered insulation is used in built-up (BUR), modified bitumen, metal, ballasted single-ply, mechanically attached single-ply and adhered single-ply roofing systems. These roofing systems depend on proper installation for successful performance. Refer to FM Approvals® RoofNav and UL Online Certifications Directory for additional application details.
- INSTALLATION: Flex ISO III tapered insulation shall be kept dry before, during and after installation. This product will burn if exposed to an ignition source of sufficient heat and intensity. Do not apply flame directly to Flex ISO III tapered insulation. Refer to product packaging and PIMA Technical Bulletin #109 for storage and handling recommendations. Typical field fastening requirements can be obtained from membrane system manufacturer or FM Global Property Loss Prevention Data Sheets 1-29.

Prior to installation, Flex Membrane International Corp. recommends that you consult your local building codes, contract documents, professional engineer, FM Global, Miami-Dade County and membrane manufacturer for additional installation guidelines as well as design enhancements.

PROPERTY	TEST METHOD	RESULTS					
DIMENSIONAL STABILITY	ASTM D2126	< 2%					
COMPRESSIVE STRENGTH	ASTM D1621	20 psi (140 kPa) or 25 psi (172 kPa)					
WATER ABSORPTION	ASTM C209 & D2842	< 1.5%, < 3.5%					
WATER VAPOR TRANSMISSION	ASTM E96	< 4.0 perm (228.8ng/ (Pa•s•m²))					
PRODUCT DENSITY	ASTM D1622	Nominal 2.0 pcf (32.04 kg/m³)					
FLAME SPREAD	ASTM E84 (10 min.)	¹ 40-60					
SMOKE DEVELOPMENT	ASTM E84 (10 min.) ¹ 50-170						
TENSILE STRENGTH	ASTM D1623	> 730 psf (35 kPa)					
SERVICE TEMPERATURE	-	-100° to $+250^{\circ}$ F					

PHYSICAL PROPERTIES

Numerical ratings are not intended to reflect performance under actual fire conditions. Flame spread index of \leq 75 and smoke development \leq 450 meet code requirements for foam plastic roof insulation. Codes exempt foam plastic insulation when used in FM 4450 or UL 1256. Physical properties listed above are presented as typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation.

- ASTM C1289, Type II, Class 2, Grade 2 (20 psi) or Grade 3 (25 psi)
- CAN/ULC-S704, Type 2, Class 3 or Type 3, Class 3
- CCMC No. 12423-L
- UL Certified for Canada— Insulated Roof Deck Assemblies Construction No. C38 and 52. Meet CAN/ULC-S126, CAN/ULC-S101 and CAN/ULC-S107
- UL Standard 1256 Classification Construction No. 120, 123 & 292
- UL Standard 790 (ASTM E108) Roofing Systems Classification

THERMAL DATA

PANEL Label	AVERAGE		THICKNESS		SLOPE	
	LTTR	² RSI	IN	MM	PER FT.	PERCENT
AA	4.3	0.76	0.5-1.0	12-25	1/8"	1%
Α	7.1	1.25	1.0-1.5	25-38	1/8"	1%
В	10.0	1.76	1.5-2.0	38-50	1/8"	1%
C	12.9	2.27	2.0-2.5	50-63	1/8"	1%
Х	5.7	1.00	0.5-1.5	12-38	1/4"	2%
Y	11.4	2.01	1.5-2.5	38-63	1/4"	2%
Q	8.6	1.51	0.5-2.5	12-63	1/2"	4%

LTTR (long term thermal resistance) values were determined in accordance with CAN/ULC-S770-09. Test samples were third-party selected and tested by an accredited material testing laboratory. The LTTR results were reviewed by FM Global and certified by the PIMA Quality Mark Program. PSI is the metric expression of R-value (m² * K/W).

- UL Standard 263 (ASTM E119) Fire Resistance Classification
- UL Standard 1897 Uplift Resistance
- FM Standard 4450/4470 Approved Refer to FM Approvals[®] RoofNav for Specific System Details
- IBC Chapter 26 & NBC Sections on Foam Insulation
- Miami-Dade County Approved

Other than the aforementioned representations and descriptions, Flex Membrane International Corp. (hereafter, "Seller") makes no other representations or warranties as to the insulation sold herein. The Seller disclaims all other warranties, express or implied, including the warranty of merchantability and the warranty of fitness for a particular purpose. Seller does, however, have a limited warranty as to the LTTR-Value of the insulation, the terms of which are available upon request from the Seller. Seller shall not be liable for any incidental or consequential damages including but not limited to the cost of installation, removal, repair or replacement of this product. Buyer's remedies shall be limited exclusively to, at Seller's option, the repayment of the purchase price or resupply of product distributed by Flex Membrane in a quantity equal to that of the nonconforming product. Flex Membrane distributors, agents, salespersons or other independent representatives have no authority to waive or alter the above limitation of liability and remedies.