



ISO 95+™ GL Flat and Tapered

DESCRIPTION:

Firestone ISO 95+ GL flat and tapered roof insulation consists of a closed-cell polyiso foam core laminated to a black glass reinforced mat facer. Flat and tapered ISO 95+ GL provide outstanding thermal performance on commercial roofing applications, while providing positive roof top drainage to help eliminate ponding water when tapered ISO 95+ GL is used.

All Firestone polyiso insulations use EPA accepted blowing agents and qualify under the Federal Procurement Regulation for Recycled Material. Flat and tapered ISO 95+ GL with IsoGard Foam Technology incorporates a HCFC-free blowing agent that does not contribute to the depletion of the ozone (ODP-free).

METHOD OF APPLICATION:

Insulation shall be neatly fitted to all roof penetrations, projections and nailers. No more insulation shall be installed than can be covered with membrane and completed before the end of each day's work or before the onset of inclement weather.

NOTE: See Firestone Technical Information Sheet 950 for Insulation Attachment Patterns.

ISO 95+ GL FLAT AND TAPERED MUST BE INSTALLED USING:

Fasteners and plates, hot asphalt or Firestone approved insulation adhesives.

For ballasted systems, the top layer of Firestone insulation may not be mechanically attached.

ISO 95+ GL Flute Span Over Metal Decks				
Thickness	1.0"	1.25"	1.5"-3.8"	4.0"
Span	2.625"	3.675"	4.375"	4.5"

SPECIFICATION COMPLIANCE:

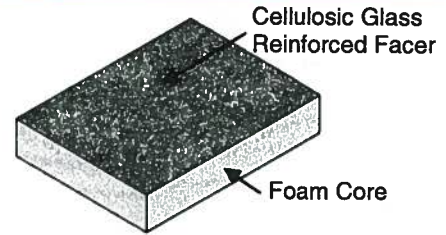
ASTM C1289, Type II, Class 1
UL Classified
FM Class 1 Approved
Manufactured in an ISO 9002 Registered Facility
CAN/ULC-S704, Type 1, Class 3



CCMC 13274-L



This sheet is meant to highlight Firestone's products and specifications and is subject to change without notice. Firestone takes responsibility for furnishing quality materials, which meet Firestone's published product specifications. Neither Firestone nor its representatives practice architecture. Firestone offers no opinion on and expressly disclaims any responsibility for the soundness of any structure. Firestone accepts no liability for structural failure or resultant damages. Consult a competent structural engineer prior to installation if the structural soundness or structural ability to properly support a planned installation is in question. No Firestone representative is authorized to vary this disclaimer.



PRODUCT DATA

Insulation Thickness		LTR* R-Value
(inches)	(mm)	
1.00	25.4	6.0
1.25	31.7	7.5
1.50	38.1	9.0
1.75	44.5	10.5
2.00	50.8	12.1
2.30	58.4	14.0
2.50	63.5	15.3
2.80	71.1	17.2
3.00	76.2	18.5
3.25	82.6	20.1
3.50	88.9	21.7
3.75	95.3	23.4
4.00	101.6	25.0

**Long Term Thermal Resistance (LTR) values provide a 15-year time-weighted average in accordance with CAN/ULC-S770.*

POLYISO PHYSICAL PROPERTIES

Physical Property	ASTM Test	English Values	Metric Values
Compressive Strength*	D 1621	20 psi, typical	138 kPa, typical
Density	D 1622	2 pcf	32 kg/m ³
Dimensional Stability	D 2126	<2%	<2%
Moisture Vapor Transmission	E 96	<1.0 Perm	<57.5 ng/(Pa*s*m ²)
Water Absorption	C 209	<1% by Volume	<1% by Volume
Service Temperature		-100° to 250° F	-73° to 121° C

**25 psi (172 kPa) available upon request.*

AVAILABLE SIZES:

Flat Boards: 4' x 4' (1.22 m x 1.22 m)
4' x 8' (1.22 m x 2.44 m)
Thickness ranging 1.0" (25.4 mm) to 4.0" (101.6 mm)

Tapered Boards: 4' x 4' (1.22 m x 1.22 m)
4' x 8' (1.22 m X 2.44 m) (special order)

Thickness ranging 0.5" (12.7 mm) to 4.0" (101.6 mm)
Slopes ranging 1/16" per foot (.5%) to 1/2" per foot (4%)
See chart on page 2.

STORAGE AND PRECAUTIONS:

- Keep insulation dry at all times.
- Elevate insulation above the deck or ground.
- Cover insulation with waterproof tarps.
- Combustible. Refer to MSDS for more information.
- Do not install over wet, damp or uneven substrates.

MANUFACTURING LOCATIONS:

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

Firestone Building Products Company
250 W. 96th Street, Indianapolis, IN 46260
Sales: (800) 428-4442 • Technical (800) 428-4511
www.firestonebpco.com

TECHNICAL INFORMATION SHEET

901
03/31/2010

LEED INFORMATION:

Firestone ISO 5+ can help contribute to overall L.E.E.D. certification due to its thermal efficiency (R-Value), recycled content, and zero ozone depletion. ISO 95+ can help achieve valuable credits in the following categories:

- Energy and Atmosphere
 - Benefits of commissioning building energy systems include lower energy use and lower operating costs.
 - Firestone ISO 95+ contains the highest R-Value per inch to help assist in the following credits:
 - EA Pre-requisite 2: Minimum Energy Performance
 - EA Credit 1: Optimize Energy Performance (1-19 points)
- Material & Resources
 - Benefits include the reduction of waste, as well the preservation of landfill space and raw materials.
 - Firestone ISO 95+ contains recycled content, can be re-used, and is manufactured strategically across the United States.
 - MR Credit 2: Construction Waste Management (1-2 points)
 - MR Credit 3: Material Re-Use (1-2 points)
 - MR Credit 4: Recycled Content (1-2 points)
 - MR Credit 5: Regional Material (1-2 points)

RECYCLE CONTENT OF ISO 95+ GL

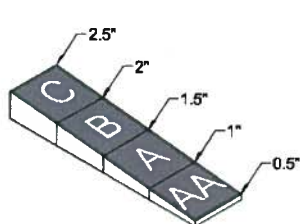
Thickness (Inches)	Thickness, (millimeters)	% Post Consumer	% Post Industrial	TOTAL RECYCLE CONTENT
1.00	25.40	37%	15%	52%
1.25	31.75	33%	15%	48%
1.50	38.10	29%	15%	44%
1.75	44.45	26%	15%	41%
2.00	50.80	24%	15%	39%
2.30	58.42	21%	15%	36%
2.50	63.50	20%	15%	35%
2.80	71.12	18%	15%	33%
3.00	76.20	17%	15%	32%
3.25	82.55	16%	15%	31%
3.50	88.90	15%	15%	30%
3.75	95.25	14%	15%	29%
4.00	101.60	14%	15%	29%

LEED Reference Guide information can be obtained on line at <http://www.usgbc.org/>.
"LEED is trademark of the U.S. Green Building Council."

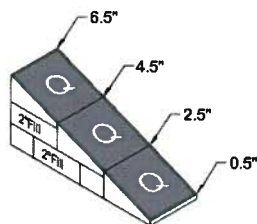
TAPERED ISO 95+ GL (Common Panel Types)

Panel Code	Min-Max Thickness		Slope		% Post Consumer	% Post Industrial	TOTAL RECYCLE CONTENT
A	0.5" - 1.0"	12.7 mm – 25.4 mm	1/8"/ft.	1%	39%	15%	54%
AA	1.0" - 1.5"	25.4 mm – 38.1 mm	1/8"/ft.	1%	33%	15%	48%
B	1.5" - 2.0"	38.1 mm – 50.8 mm	1/8"/ft.	1%	26%	15%	41%
C	2.0" - 2.5"	50.8 mm – 63.5 mm	1/8"/ft.	1%	21.5%	15%	36.5%
G	1.0" - 2.0"	25.4 mm – 50.8 mm	1/4"/ft.	2%	29%	15%	44%
H	2.0" - 3.0"	50.8 mm – 76.2 mm	1/4"/ft.	2%	20%	15%	35%
I	3.0" - 4.0"	76.2 mm – 100.6 mm	1/4"/ft.	2%	15%	15%	30%
X	0.5" - 1.5"	12.7 mm – 38.1 mm	1/4"/ft.	2%	37%	15%	52%
Y	1.5" - 2.5"	38.1 mm – 63.5 mm	1/4"/ft.	2%	24%	15%	39%
Z	2.5" - 3.5"	63.5 mm – 88.9 mm	1/4"/ft.	2%	17%	15%	32%
Q	0.5" - 2.5"	12.7 mm – 63.5 mm	1/2"/ft.	4%	17%	15%	32%

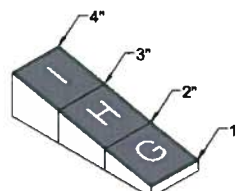
Contact Firestone's Estimating Services Department for a project quotation or for layout guidance. For site assistance or contractor support, contact Firestone's Tapered Project Management Team by calling: 1-800-428-4442 or by emailing: estimatingervicesdept@firestonebp.com



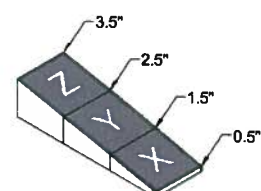
1/8"/ft. Tapered Section



1/2"/ft. Tapered Section



1/4"/ft. Tapered Section



1/4"/ft. Tapered Section

Contact Firestone's Estimating Services Department for a project quotation or for layout guidance. For site assistance or contractor support, contact Firestone's Tapered Project Management Team by calling: 1-800-428-4442 or by emailing: estimatingervicesdept@firestonebp.com