



DESCRIPTION:

Firestone Resista flat and tapered roof insulation consists of a closed-cell polyiso foam core laminated to a specially coated, inorganic, fiberglass facer. Resista roof insulation provides outstanding fire, wind and thermal performance for single-ply and modified bitumen commercial roofing applications.

All Firestone polyiso insulations use EPA accepted blowing agents and qualify under the Federal Procurement Regulation for Recycled Material. Flat and tapered RESISTA with IsoGard™ foam technology incorporates a HCFC-free blowing agent that does not contribute to the depletion of the ozone (ODP-free). Additionally, Firestone Resista is a formaldehyde free material.

Resista is a mold resistant material per ASTM D3273

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.

RESISTA FLAT AND TAPERED MUST BE INSTALLED USING:

Firestone Fasteners and plates or Firestone approved insulation adhesives.

WARRANTY:

Firestone Resista is acceptable in approved Firestone Red Shield or Platinum Roofing Systems ranging from 5 to 30 years.

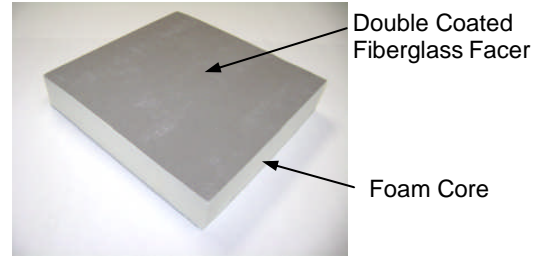
RESISTA Flute Span Over Metal Decks				
Thickness	1.0"	1.25"	1.5"-3.8"	4.0"
Span	2.625"	3.675"	4.375"	4.5"

SPECIFICATION COMPLIANCE:

ASTM C1289, Type II, Class 2
UL Classified
FM Class 1 Approved
Manufactured in an ISO 9001 Registered Facility
CAN/ULC-S704, Type 2 pending



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		LTTR* 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 (LTTR) 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, min	D 1621	20 psi	138 kPa
Compressive Strength, min	D 1621	25 psi	172 kPa
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

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:

Florence, KY Youngwood, PA Salt Lake City, UT

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

LEED INFORMATION:

Firestone Resista can help contribute to overall L.E.E.D. certification due to its thermal efficiency (R-Value), recycled content, and zero ozone depletion. Resista 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 Resista 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 Resista 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)

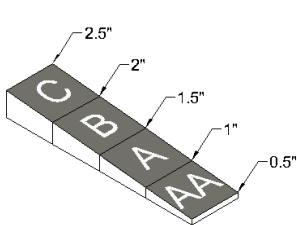
RECYCLE CONTENT OF RESISTA

Thickness (inches)	Thickness, (millimeters)	% Post Consumer	% Pre-Consumer	TOTAL RECYCLED CONTENT
1.00	25.40	0%	5%	5%
1.25	31.75	0%	5%	5%
1.50	38.10	0%	6%	6%
1.75	44.45	0%	7%	7%
2.00	50.80	0%	7%	7%
2.30	58.42	0%	8%	8%
2.50	63.50	0%	8%	8%
2.80	71.12	0%	8%	8%
3.00	76.20	0%	9%	9%
3.25	82.55	0%	9%	9%
3.50	88.90	0%	9%	9%
3.75	95.25	0%	10%	10%
4.00	101.60	0%	10%	10%

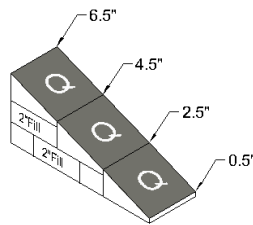
LEED Reference Guide information can be obtained on line at <http://www.usgbc.org/>

TAPERED RESISTA (Available Sizes):

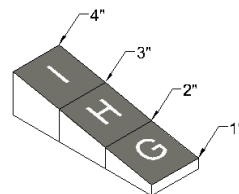
Panel Code	Min-Max Thickness		Slope		Pieces Per Bundle (4'x4')
A	0.5" - 1.0"	12.7 mm – 25.4 mm	1/8"/ft.	1%	64
AA	1.0" - 1.5"	25.4 mm – 38.1 mm	1/8"/ft.	1%	38
B	1.5" - 2.0"	38.1 mm – 50.8 mm	1/8"/ft.	1%	26
C	2.0" - 2.5"	50.8 mm – 63.5 mm	1/8"/ft.	1%	20
G	1.0" - 2.0"	25.4 mm – 50.8 mm	1/4"/ft.	2%	32
H	2.0" - 3.0"	50.8 mm – 76.2 mm	1/4"/ft.	2%	18
I	3.0" - 4.0"	76.2 mm – 100.6 mm	1/4"/ft.	2%	12
X	0.5" - 1.5"	12.7 mm – 38.1 mm	1/4"/ft.	2%	48
Y	1.5" - 2.5"	38.1 mm – 63.5 mm	1/4"/ft.	2%	24
Z	2.5" - 3.5"	63.5 mm – 88.9 mm	1/4"/ft.	2%	16
Q	0.5" - 2.5"	12.7 mm – 63.5 mm	1/2"/ft.	4%	32



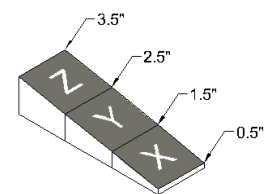
1/8"/ft. Tapered Section



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