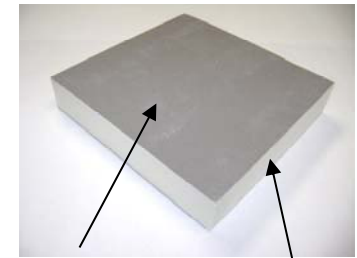


TECHNICAL INFORMATION SHEET

RESISTA™ Insulation

Item Description

Flat and Tapered



Double Coated
Fiberglass Facer

Foam Core

Product Information

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 insulation 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 insulation is a formaldehyde free material.

RESISTA insulation is a mold resistant material per ASTM D3273.

Method of Application:

1. Insulation shall be neatly fitted to all roof penetrations, projections and nailers.
2. 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 on inclement weather.
3. RESISTA flat and tapered insulation may be installed using: Firestone approved insulation adhesives.
4. Firestone ISO 95+ GL board may be installed using: Firestone fasteners and plates

NOTE: For ballasted systems, the top layer of Firestone insulation may not be mechanically attached.
See Firestone Technical Information Sheet 950 for insulation attachment patterns.

Warranty:

Firestone RESISTA insulation 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"

Storage:

- Keep insulation dry at all times.
- Elevate insulation above the deck or ground.
- Cover insulation with waterproof tarps.

Precautions:

- Combustible. Refer to Safety Data Sheets (SDS) for more information.
- Do not install over wet, damp or uneven substrates.

TECHNICAL INFORMATION SHEET

RESISTA™ Insulation

Specification Compliance:

ASTM C1289, Type II, Class 2
UL Classified
UL 723/ASTM E84 Flame Spread 50, Smoke Developed 160-180
UL 1256: Construction No 120 and Construction No. 123
FM Class 1 Approved for steel deck constructions FM 4450/NFPA 276
(Refer to RoofNav for Specific Assemblies)
Manufactured in an ISO 9001 Registered Facility
CAN/ULC-S704, Type 1 Class 3



LEED® Information:

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

Manufacturing Locations:

Florence, KY Youngwood, PA Salt Lake City, UT Bristol, CT
Jacksonville, FL Deforest, WI Corsicana, TX

Typical Properties

Physical Property	ASTM Test	English Values	Metric Values
Compressive Strength:	D 1621	*20 psi	138 kPa
Density:	D 1622	2 pcf	32 kg/m³
Dimensional Stability:	D 2126	<2%	<2%
Moisture Vapor:	E 96	<1.0	<57.5
Transmission:		Perm	ng/(Pa•s•m²)
Water Absorption by Volume:	C 209	<1%	<1%
Service Temperature:	-100 to 250 °F		-73 to 121 °C

*25psi (172 kPa) available upon request.

RESISTA™ Insulation

Product Data

<u>Thickness*</u>		<u>LTTR**</u> <u>(R-Value)</u>	<u>Max Flute Span</u>		<u>Total Recycled Content %</u>	<u>% Post Industrial</u>	<u>% Post Consumer</u>
<u>inches</u>	<u>mm</u>		<u>inches</u>	<u>mm</u>			
1.00	25.40	5.7	2.625	66.67	52	15%	37%
1.25	31.75	7.1	3.675	93.34	48	15%	33%
1.50	38.10	8.6	4.375	111.1	44	15%	29%
1.75	44.45	10.0	4.375	111.1	41	15%	26%
2.00	50.80	11.4	4.375	111.1	39	15%	24%
2.30	58.42	13.2	4.375	111.1	36	15%	21%
2.50	63.50	14.4	4.375	111.1	35	15%	20%
2.80	71.12	16.2	4.375	111.1	33	15%	18%
3.00	76.20	17.4	4.375	111.1	32	15%	17%
3.25	82.55	18.9	4.375	111.1	31	15%	16%
3.50	88.90	20.5	4.375	111.1	30	15%	15%
3.75	95.25	22.0	4.375	111.1	29	15%	14%
4.00	101.60	23.6	4.500	114.3	29	15%	14%

*Other thicknesses available upon request.

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

*** 25 PSI Resista available in thicknesses up to 2.9".

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)

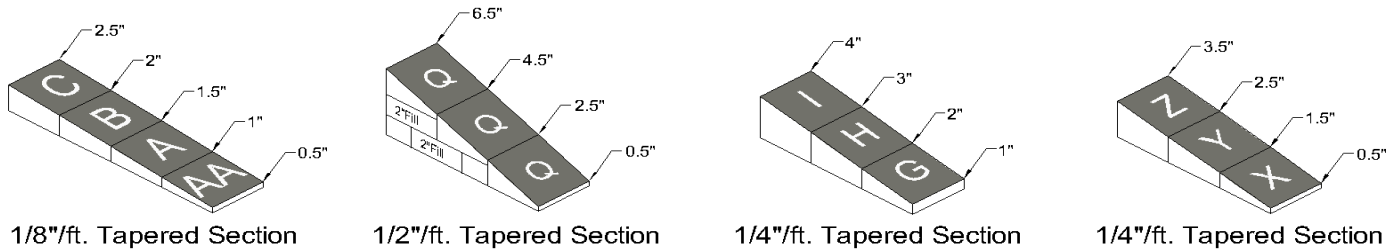
Tapered Boards: 4' x 4' (1.22 m x 1.22 m), 4' x 8' (1.22 m X 2.44 m) (special order)

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%).

Tapered RESISTA (available sizes)

<u>Panel Code</u>	<u>Min-Max Thickness</u>		<u>Slope</u>	
	<u>Inches</u>	<u>mm</u>		
A	0.5 - 1.0	12.7 – 25.4	1/8"/ft.	1%
AA	1.0 - 1.5	25.4– 38.1	1/8"/ft.	1%
B	1.5 - 2.0	38.1 – 50.8	1/8"/ft.	1%
C	2.0 - 2.5	50.8 – 63.5	1/8"/ft.	1%
G	1.0 - 2.0	25.4 – 50.8	1/4"/ft.	2%
H	2.0- 3.0	50.8 – 76.2	1/4"/ft.	2%
I	3.0 - 4.0	76.2 – 100.6	1/4"/ft.	2%
X	0.5 - 1.5	12.7 – 38.1	1/4"/ft.	2%
Y	1.5 - 2.5	38.1 -63.5	1/4"/ft	2%
Z	1.5 - 2.5	38.1 – 63.5	1/4"/ft.	2%
Q	0.5 - 2.5	63.5 – 88.9	1/2"/ft.	4%

RESISTA™ Insulation



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

Please contact Quality Building Services Technical Department at 1-800-428-4511 for further information.

This sheet is meant to highlight Firestone products and specifications and is subject to change without notice. Firestone takes responsibility for furnishing quality materials which meet published Firestone 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.