

Technical Information Sheet



ISO 95+™ GL INSULATION

Item Description

Flat and Tapered Polyiso Boards

Flat Boards: 4' x 4' (1.22 m x 1.22 m), 4' x 8' (1.22 m x 2.44 m), 4' x 12' (1.22 m x 3.66 m)

Tapered Polyiso Boards

Tapered Boards: 4' x 4' (1.22 m x 1.22 m)

Meets or exceeds performance requirements of ASTM C 1289, Type II, Class 1

DESCRIPTION

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

All Elevate polyisocyanurate foam insulations use EPA accepted blowing agents. Elevate ISO 95+ GL incorporates a HCFC-free blowing agent that does not contribute to the depletion of the ozone layer (ODP-free).

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 of inclement weather.
3. Elevate ISO 95+ GL board may be installed using:

- Elevate fasteners and plates

NOTE: For ballasted systems, the top layer of Elevate insulation may not be mechanically attached.

- Hot asphalt (requires a cover board, when a hot asphalt or torch applied base sheet is installed)
- Elevate approved insulation adhesives

I.S.O. Twin Pack	I.S.O. Stick™	I.S.O. Spray™ R	Twin Jet	Twin Jet Y
Beads	Beads	Beads	Beads	Beads or Spatter

ACCEPTABLE IMMEDIATE SUBSTRATES

- 2,500 psi Structural concrete (must be clean, dry, and properly cured)
- Steel deck (min 22 ga)
- Plywood and OSB (min ½")
- Lightweight concrete
- Gypsum deck (min 2")

NOTE: Please consult the Design Guides and QuickSpecs online at www.elevatecommercialbp.com to review specific information regarding the assembly.

STORAGE

Indoors:

- Store in original packaging
- Keep dry at all times
- Store insulation bundles on a flat, stable surface and keep elevated above floor, ground, or sources of moisture. Do not store directly on grass/dirt substrates.
- Store away from heat or sources of flame

Outdoors:

Outdoor storage is approved prior to job application when the following conditions are met.

1. The bundle wrap/covering (and insulation) has remained undamaged, fully intact and covering the product without cuts, tears, rips, or removal of the wrap.
2. The bundles are secured so that wind events will not displace them. This may require additional strapping, roping, tarping, and other forms of securement to be used to keep the bundles in place.
3. The insulation must be elevated above the water line to prevent moisture infiltration into the bundles.

NOTE: If outdoor storage is to occur for more than two weeks, then tarping of the bundles is required. See additional requirements for outdoor storage below. Reference PIMA Technical Bulletin #109 Storage and Handling Recommendations for Polyiso Roof Insulation for additional information.

- Store in original packaging
- Keep dry at all times
- Store insulation bundles on a flat, stable surface and keep elevated above floor, ground, or sources of moisture. Do not store directly on grass/dirt substrates.
- Store away from heat or sources of flame.
- Cover insulation with breathable waterproof tarp.
- Tarping of the bundles is required when wet conditions exist or are forecasted.
- Secure coverings to prevent damage caused by wind.

PRECAUTIONS

- Polyiso foam will burn if exposed to a flame of sufficient heat and intensity. Keep away from heat, sparks, and open flames.
- Protect against dust that may be generated during installation.
- Refer to Safety Data Sheet (SDS) for additional information.
- Take care when transporting and handling Elevate insulation to avoid physical damage.

SPECIFICATION COMPLIANCE

ASTM C1289, Type II, Class 1

UL Classified – UL1256

FM Class 1 Approved

Manufactured in an ISO 9001 Registered Facility

CAN/ULC-S704, Type 1, Class 3



LEED® INFORMATION

See Recycled Content in Typical Properties table.

Manufacturing Locations: Corsicana, TX

***NOTE:** LEED® is a registered trademark of the U.S. Green Building Council.

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TYPICAL PROPERTIES (MEETS ASTM C 1289, TYPE II, CLASS 1)

Property	ASTM Test Method	Elevate Typical Performance
Compressive Strength	D1621	Grade 2: 20 psi (138 kPa) Grade 3: 25 psi (172 kPa) *
Density	D1622	2 pcf (32 kg/m ³)
Dimensional Stability	D2126	<2%
Moisture Vapor Transmission	E96	<1 perm (<57.5 ng/(Pa·s·m ²))
Water Absorption	C209	<1% by volume
Service Temperature	---	-100 to 250 °F (-73 to 121 °C)
Flame Spread	E84	Index 50
Smoke Development	E84	Index 160 - 180

*25 psi (172 kPa) available upon request.

PRODUCT INFORMATION

Thickness ¹		R-Value ²	Max Flute Span		Approximate Recycled Content		
inches	mm		inches	mm	Post-Consumer	Post Industrial	Total
0.5	12.70	2.9	1.50	38.10	52%	15%	67%
1.0	25.40	5.7	2.62	66.67	37%	15%	52%
1.1	27.94	6.3	2.62	66.67	36%	15%	51%
1.2	30.48	6.8	2.62	66.67	34%	15%	49%
1.3	33.02	7.4	3.67	93.34	32%	15%	47%
1.4	35.56	8.0	3.67	93.34	30%	15%	45%
1.5	38.10	8.6	4.37	111.12	29%	15%	44%
1.6	40.64	9.1	4.37	111.12	27%	15%	42%
1.7	43.18	9.7	4.37	111.12	26%	15%	41%
1.75	44.45	10.0	4.37	111.12	26%	15%	41%
1.8	45.72	10.3	4.37	111.12	25%	15%	40%
1.9	48.26	10.8	4.37	111.12	24%	15%	39%
2.0	50.80	11.4	4.37	111.12	24%	15%	39%
2.1	53.34	12.0	4.37	111.12	22%	15%	37%
2.2	55.88	12.6	4.37	111.12	21%	15%	36%
2.25	57.15	12.9	4.37	111.12	21%	15%	36%
2.3	58.42	13.2	4.37	111.12	21%	15%	36%
2.4	60.96	13.8	4.37	111.12	20%	15%	35%
2.5	63.50	14.4	4.37	111.12	20%	15%	35%
2.6	66.04	15.0	4.37	111.12	19%	15%	34%
2.7	68.58	15.6	4.37	111.12	18%	15%	33%
2.75	69.85	15.9	4.37	111.12	18%	15%	33%
2.8	71.12	16.2	4.37	111.12	18%	15%	33%
2.9	73.66	16.8	4.37	111.12	17%	15%	32%
3.0	76.20	17.4	4.37	111.12	17%	15%	32%
3.1	78.74	18.0	4.37	111.12	16%	15%	31%
3.2	81.28	18.6	4.37	111.12	16%	15%	31%
3.25	82.55	18.9	4.37	111.12	16%	15%	31%
3.3	83.82	19.2	4.37	111.12	16%	15%	31%
3.4	86.36	19.9	4.37	111.12	15%	15%	30%
3.5	88.90	20.5	4.37	111.12	15%	15%	30%
3.6	91.44	21.1	4.37	111.12	14%	15%	29%
3.7	93.98	21.7	4.37	111.12	14%	15%	29%

PRODUCT INFORMATION (CONTINUED)

Thickness ¹		R-Value ²	Max Flute Span		Approximate Recycled Content		
inches	mm		inches	mm	Post-Consumer	Post Industrial	Total
3.75	95.25	22.0	4.37	111.12	14%	15%	29%
3.8	96.52	22.3	4.37	111.12	14%	15%	29%
3.9	99.06	23.0	4.37	111.12	14%	15%	29%
4.0	101.60	23.6	4.50	114.30	14%	15%	29%
4.1	104.14	24.2	4.50	114.30	13%	15%	28%
4.2	106.58	24.9	4.50	114.30	13%	15%	28%
4.25	107.95	25.2	4.50	114.30	13%	15%	28%
4.3	109.22	25.5	4.50	114.30	13%	15%	28%
4.4	111.76	26.1	4.50	114.30	13%	15%	28%
4.5	114.3	26.8	4.50	114.30	13%	15%	28%

NOTE:

1. Other thicknesses available upon request.
2. R- values provide a 15-year time-weighted average in accordance with CAN/ULC-S770.
3. Other options available include: 4' x 7'4" (1.22 m x 2.25m).
4. Export cut for international shipments and scored ISO for metal retrofits.

Manufacturing Locations:

Bristol, CT, Youngwood, PA, De Forest, WI, Florence, KY, Salt Lake City, UT, Jacksonville, FL

TAPERED ISOGARD GL (AVAILABLE SIZES)

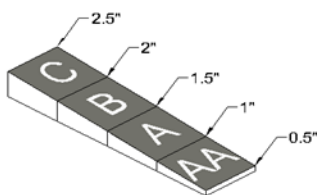
Panel Code	Min-Max Thickness		Slope	
	Inches	mm		
AA	0.5 – 1.0	12.7 – 25.4	1/8"/ft	1%
A	1.0 – 1.5	25.4 – 38.1	1/8"/ft	1%
B	1.5 – 2.0	38.1 – 50.8	1/8"/ft	1%
C	2.0 – 2.5	50.8 – 63.5	1/8"/ft	1%
G	1.0 – 2.0	25.4 – 50.8	1/4"/ft	2%
H	2.0 – 3.0	50.8 – 76.2	1/4"/ft	2%
I	3.0 – 4.0	76.2 – 101.6	1/4"/ft	2%
X	0.5 – 1.5	12.7 – 38.1	1/4"/ft	2%
Y	1.5 – 2.5	38.1 – 63.5	1/4"/ft	2%
Z	2.5 – 3.5	63.5 – 88.9	1/4"/ft	2%
Q	0.5 – 2.5	12.7 – 63.5	1/2"/ft	4%
SS	0.5 – 2.0	12.7 – 50.8	3/8"/ft	3%

NOTE:

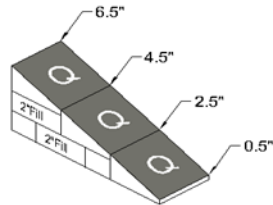
1. Other thicknesses
2. Slope Range: 1/16" per foot (.5%) to 1/2" per foot (4%)

Manufacturing Locations:

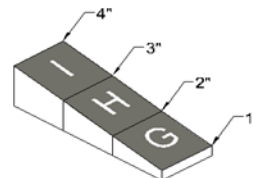
Bristol, CT, Youngwood, PA, De Forest, WI, Florence, KY, Salt Lake City, UT, Jacksonville, FL



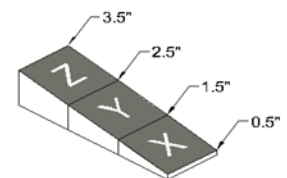
1/8"/ft. Tapered Section



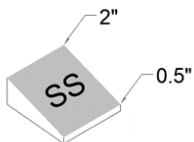
1/2"/ft. Tapered Section



1/4"/ft. Tapered Section



1/4"/ft. Tapered Section



3/8"/ft. Tapered Section

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ISO 95+ GL – 4' x 12' BOARDS

Item Number	Board Thickness	Boards Per Bundle	Weight Per Board (lb)
W821111502	1.50	32	15.2
W821111602	1.60	30	15.9
W821111752	1.75	27	16.9
W821112002	2.00	24	18.6
W821112202	2.20	21	20
W821112502	2.50	19	22
W821112602	2.60	18	22.7
W821113002	3.00	16	25.4
W821113302	3.30	14	27.4
W821113502	3.50	13	28.8

Manufacturing Location: Corsicana, TX

Please contact Elevate Technical Services at 800-428-4511 for further information.

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