

Technical Information Sheet



ISOGARD™ 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

Slope Range: 1/8" per foot (.5%) to 1/2" per foot (4%)

Thickness Range: 0.5" (12.7 mm) to 4.5" (114.3 mm)

Beveled Cut Polyiso Flute Fill Boards

Custom Size: See Order Form

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

DESCRIPTION

Elevate™ ISOGARD GL roof insulation consists of a closed cell polyiso foam core laminated to a glass reinforced mat facer on both major surfaces. Flat and tapered ISOGARD insulation provides outstanding thermal performance on commercial roofing applications, while providing positive rooftop drainage to help eliminate ponding water when tapered ISOGARD GL insulation is used. Elevate ISOGARD GL insulation is also available in custom fit Beveled Cut Polyiso Flute Fill Boards to fit angled flutes within metal decking and standing seam roof systems.

All Elevate polyisocyanurate foam insulations use EPA accepted blowing agents and qualify under the Federal Procurement Regulation for Recycled Material. Elevate ISOGARD 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 ISOGARD 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 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 1/2")
- 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.

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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

- Refer to Safety Data Sheet (SDS) for additional information.
- 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.
- Take care when transporting and handling Elevate insulation to avoid physical damage.
- Do not install over wet, damp or uneven substrates.

SPECIFICATION COMPLIANCE

ASTM C1289, Type II, Class 1

UL Classified – UL1256

FM 4470 Class 1 Approved

Manufactured in an ISO 9001 Registered Facility

CAN/ULC-S704-11, Type 2, Class 2

CAN/ULC-S704-11, Type 3, Class 2 available upon request



LEED® INFORMATION

See Recycled Content in Typical Properties table.

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	Elevate Typical Performance
Thermal Resistance	C518	40 °F (4.4 °C) 6.2 R/in 75 °F (23.9 °C) 5.7 R/in 110 °F (43.3 °C) 5.0 R/in
Compressive Strength	D1621	Standard: Grade 2: 20 psi (138 kPa)
		Optional: Grade 3: 25 psi (172 kPa) *
		NOTE: *25 psi (172 kPa) available upon request. Thickness availability may vary based on manufacturing location. Contact an Elevate sales representative for more information.
Density	D1622	2 pcf (32 kg/m³)
Dimensional Stability	D2126	<2%
Moisture Vapor Transmission	E96	<1 perm (<57.5 ng/(Pa·s·m²))
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

PRODUCT INFORMATION

Thickness ¹		R-Value ²	Max Flute Span		Approximate Recycled Content by Weight	
inches	mm		inches	mm	Post-Consumer	Post Industrial
0.5	12.70	2.9	1.50	38.10	52%	15%
1.0	25.40	5.7	2.62	66.67	37%	15%
1.1	27.94	6.3	2.62	66.67	36%	15%
1.2	30.48	6.8	2.62	66.67	34%	15%
1.3	33.02	7.4	3.67	93.34	32%	15%
1.4	35.56	8.0	3.67	93.34	30%	15%
1.5	38.10	8.6	4.37	111.12	29%	15%
1.6	40.64	9.1	4.37	111.12	27%	15%
1.7	43.18	9.7	4.37	111.12	26%	15%
1.75	44.45	10.0	4.37	111.12	26%	15%
1.8	45.72	10.3	4.37	111.12	25%	15%
1.9	48.26	10.8	4.37	111.12	24%	15%
2.0	50.80	11.4	4.37	111.12	24%	15%
2.1	53.34	12.0	4.37	111.12	22%	15%
2.2	55.88	12.6	4.37	111.12	21%	15%
2.25	57.15	12.9	4.37	111.12	21%	15%
2.3	58.42	13.2	4.37	111.12	21%	15%
2.4	60.96	13.8	4.37	111.12	20%	15%
2.5	63.50	14.4	4.37	111.12	20%	15%
2.6	66.04	15.0	4.37	111.12	19%	15%
2.7	68.58	15.6	4.37	111.12	18%	15%
2.75	69.85	15.9	4.37	111.12	18%	15%
2.8	71.12	16.2	4.37	111.12	18%	15%
2.9	73.66	16.8	4.37	111.12	17%	15%
3.0	76.20	17.4	4.37	111.12	17%	15%
3.1	78.74	18.0	4.37	111.12	16%	15%
3.2	81.28	18.6	4.37	111.12	16%	15%

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PRODUCT INFORMATION (CONTINUED)

Thickness ¹		R-Value ²	Max Flute Span		Approximate Recycled Content by Weight	
inches	mm		inches	mm	Post-Consumer	Post Industrial
3.25	82.55	18.9	4.37	111.12	16%	15%
3.3	83.82	19.2	4.37	111.12	16%	15%
3.4	86.36	19.9	4.37	111.12	15%	15%
3.5	88.90	20.5	4.37	111.12	15%	15%
3.6	91.44	21.1	4.37	111.12	14%	15%
3.7	93.98	21.7	4.37	111.12	14%	15%
3.75	95.25	22.0	4.37	111.12	14%	15%
3.8	96.52	22.3	4.37	111.12	14%	15%
3.9	99.06	23.0	4.37	111.12	14%	15%
4.0	101.60	23.6	4.50	114.30	14%	15%
4.1	104.14	24.2	4.50	114.30	13%	15%
4.2	106.58	24.9	4.50	114.30	13%	15%
4.25	107.95	25.2	4.50	114.30	13%	15%
4.3	109.22	25.5	4.50	114.30	13%	15%
4.4	111.76	26.1	4.50	114.30	13%	15%
4.5	114.3	26.8	4.50	114.30	13%	15%

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)

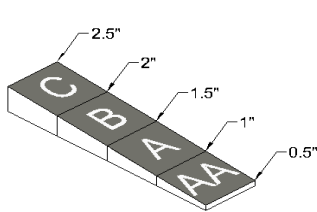
Panel Code	Min-Max Thickness		Slope	
	Inches	mm		
AA	0.5 – 1.0	12.7 – 25.4	1/8"/ft	1%
A	1.0 – 1.5	25.4 – 38.1	1/8"/ft	1%
B	1.5 – 2.0	38.1 – 50.8	1/8"/ft	1%
C	2.0 – 2.5	50.8 – 63.5	1/8"/ft	1%
G	1.0 – 2.0	25.4 – 50.8	1/4"/ft	2%
H	2.0 – 3.0	50.8 – 76.2	1/4"/ft	2%
I	3.0 – 4.0	76.2 – 101.6	1/4"/ft	2%
X	0.5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

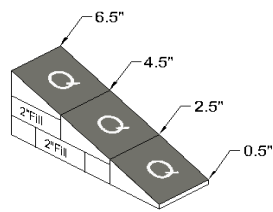
1. Other thicknesses available upon request.
2. Slope Range: 1/16" per foot (.5%) to 1/2" per foot (4%)

Manufacturing Locations:

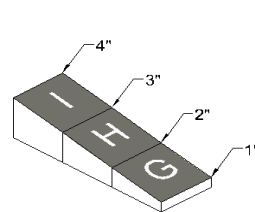
Bristol, CT, Youngwood, PA, De Forest, WI, Florence, KY, Salt Lake City, UT, Jacksonville, FL



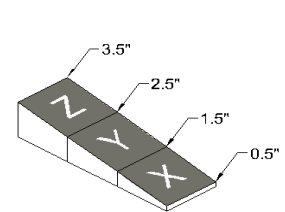
1/8"/ft. Tapered Section



1/2"/ft. Tapered Section



1/4"/ft. Tapered Section



1/4"/ft. Tapered Section

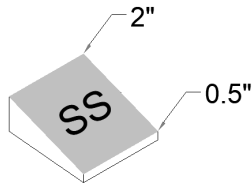
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3/8"/ft. Tapered Section

ISOGARD GL – 4' x 12' BOARDS

Item Number	Board Thickness	Boards Per Bundle	Weight Per Board (lb)
W841111502	1.50	32	15.2
W841111602	1.60	30	15.9
W841111752	1.75	27	16.9
W841112002	2.00	24	18.6
W841112202	2.20	21	20
W841112502	2.50	19	22
W841112602	2.60	18	22.7
W841113002	3.00	16	25.4
W841113302	3.30	14	27.4
W841113502	3.50	13	28.8

Manufacturing Location: Salt Lake City, UT and Youngwood, PA

BEVELED CUT ISOGARD GL

Item Number		Thickness	
20 PSI	25 PSI	Inches	Millimeters
W84111150B	W84M11150B	1.50"	38.10
W84111160B	W84M11160B	1.60"	40.64
W84111170B	W84M11170B	1.70"	43.18
W84111175B	W84M11175B	1.75"	44.45
W84111180B	W84M11180B	1.80"	45.72
W84111190B	W84M11190B	1.90"	48.26
W84111200B	W84M11200B	2.00"	50.80
W84111210B	W84M11210B	2.10"	53.34
W84111220B	W84M11220B	2.20"	55.88
W84111225B	W84M11225B	2.25"	57.15
W84111230B	W84M11230B	2.30"	58.42
W84111240B	W84M11240B	2.40"	60.96
W84111250B	W84M11250B	2.50"	63.50
W84111260B	W84M11260B	2.60"	66.04
W84111270B	W84M11270B	2.70"	68.58
W84111275B	W84M11275B	2.75"	69.85
W84111280B	W84M11280B	2.80"	71.12
W84111290B	W84M11290B	2.90"	73.66
W84111300B	W84M11150B	3.00"	76.2

Use the following link to access the order form to specify size and quantities.

[Bevel Cut Order Form - FormSite](#)

Manufacturing Location: Youngwood, PA

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

This sheet is meant to highlight Elevate products and specifications and is subject to change without notice. Amrize takes responsibility for furnishing quality materials that meet published Elevate product specifications or other technical documents, subject to normal manufacturing tolerances. Neither Amrize nor its representatives practice architecture. Amrize offers no opinion on and expressly refuses any responsibility for the soundness of any structure. Amrize 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 Amrize representative is authorized to vary this disclaimer.

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