

Product Description

Kingspan ISO GF is a rigid closed cell polyisocyanurate foam core insulation laminated to a glass-reinforced paper facer on both sides.



Manufactured in the U.S.A.

All Kingspan polyiso insulation is manufactured in the U.S.A. with globally sourced materials.



Features & Benefits

- **Strong thermal performance:** 5.7 R-Value at 1-in.
- Dense, rigid polyiso formulation provides **resistance against indentation and other damage** from impact.
- **Design Flexibility:** Available in both flat and tapered options to meet any system's performance requirements.
- **Easy to cut** material for on-roof customization to get the job done.
- Approved for direct application to steel decks.
- Meets the requirements of ASTM C 1289, Type II, Class 1.
- Available in 4'x4' and 4'x8' sizes for Flat polyiso and 4'x4' for Tapered polyiso. Custom options available via special order*.

*Other sizes are available by custom order only. Standard Compressive strength is 20psi, but 25psi polyiso are available in polyiso thicknesses of 1/2" to 4". Please reach out to your local Kingspan contact for minimum order quantity requirements. See full details of available Kingspan Polyiso GF Insulation sizes and thicknesses by SKU below.

System Installation Options

- **Mechanically Attached System** – most common attachment method where fasteners and plates are used to attach TPO membrane, insulation, and / or other roofing materials to the roof deck in accordance with Kingspan's TPO fastening rate requirements.
- **Fully-Adhered System** – attachment method where adhesive is utilized to adhere the membrane to an approved Kingspan substrate.
- **Induction-Welded** – where the membrane is attached over an approved substrate, including Kingspan polyiso insulation, using induction welded plates.

Codes & Approvals



- FM® Standards 4450 / 4470 Approvals.
- UL® Standard 790, 263 and 1256.
- California Code of Regulations, Title 24, Insulation Quality Standard.

Application

- The Kingspan ISO GF insulation may be installed using approved Kingspan fasteners and plates or Kingspan Low-Rise Foam Adhesives. Reference the Kingspan Application Guide for additional details.
- Protect Kingspan ISO GF from excessive foot traffic.

Safety Precautions

- Use proper equipment and assistance when moving, lifting, handling, or transporting Kingspan ISO GF insulation boards to avoid personal injuries as well as damage to the material.
- Reference the Kingspan product Safety Data Sheet for additional safety information.

Storage

- Store Kingspan ISO GF away from objects that could cause physical indentations or other damage as well as ignition sources. The polyiso is flammable and will catch fire when exposed to open flame.

LEED® Information

- Kingspan ISO GF Insulation – Recycled Content.
 - Post-Consumer: 0%.
 - Post-Industrial: 5%+ (varies by SKU, available upon request).

Typical Physical Properties

Meets the requirements of ASTM C 1289, Type II, Class 1.

Test Description	ASTM Test Method	Values
Strength Performance		
Tensile Strength	C 209	500 psf (min. allowed), 730 psf (nominal)
Compressive Resistance @ 10% Deformation	D 1621	Grade 2: 20psi, Grade 3: 25psi (min. allowed)
Dimensional Stability Change (length and width)	D 2126	0.5% (nominal), 2.0% (max. allowed)
Fire Performance		
Flame Spread, polyiso core	E 84	20-30 (nominal), 75 (max. allowed)
Smoke Developed, polyiso core	E 84	55-250 (nominal), 450 (max. allowed)
Service Temperature	D 1623	-100°F-250°F
Moisture Performance		
Moisture Vapor Permeance	E 96	<1 perm, 57.5 ng/(Pa*s*m ²)
Water Absorption	C 209	1.0% (max.)

Product Sizes

ISO GF - 4'x4'

SKU	Description	R-Value*
600000001063	Kingspan ISO GF 4'x4' 1.00"	5.7
600000001064	Kingspan ISO GF 4'x4' 1.10"	6.3
600000001065	Kingspan ISO GF 4'x4' 1.20"	6.8
600000001067	Kingspan ISO GF 4'x4' 1.30"	7.4
600000001068	Kingspan ISO GF 4'x4' 1.40"	8.0
600000001069	Kingspan ISO GF 4'x4' 1.50"	8.6
600000001070	Kingspan ISO GF 4'x4' 1.60"	9.1
600000001071	Kingspan ISO GF 4'x4' 1.70"	9.7
600000001072	Kingspan ISO GF 4'x4' 1.75"	10.0
600000001073	Kingspan ISO GF 4'x4' 1.80"	10.3
600000001074	Kingspan ISO GF 4'x4' 1.90"	10.8
600000001075	Kingspan ISO GF 4'x4' 2.00"	11.4
600000001076	Kingspan ISO GF 4'x4' 2.10"	12.0
600000001077	Kingspan ISO GF 4'x4' 2.20"	12.6
600000001078	Kingspan ISO GF 4'x4' 2.30"	13.2
600000001079	Kingspan ISO GF 4'x4' 2.40"	13.8
600000001080	Kingspan ISO GF 4'x4' 2.50"	14.4
600000001081	Kingspan ISO GF 4'x4' 2.60"	15.0
600000001082	Kingspan ISO GF 4'x4' 2.70"	15.6
600000001083	Kingspan ISO GF 4'x4' 2.80"	16.2
600000001084	Kingspan ISO GF 4'x4' 2.90"	16.8
600000001085	Kingspan ISO GF 4'x4' 3.00"	17.4
600000001086	Kingspan ISO GF 4'x4' 3.10"	18.0
600000001087	Kingspan ISO GF 4'x4' 3.20"	18.6
600000001088	Kingspan ISO GF 4'x4' 3.25"	18.9
600000001089	Kingspan ISO GF 4'x4' 3.30"	19.2
600000001090	Kingspan ISO GF 4'x4' 3.40"	19.9
600000001091	Kingspan ISO GF 4'x4' 3.50"	20.5
600000001092	Kingspan ISO GF 4'x4' 3.60"	21.1
600000001093	Kingspan ISO GF 4'x4' 3.70"	21.7
600000001095	Kingspan ISO GF 4'x4' 3.80"	22.3
600000001096	Kingspan ISO GF 4'x4' 3.90"	23.0
600000001097	Kingspan ISO GF 4'x4' 4.00"	23.6
600000001098	Kingspan ISO GF 4'x4' 4.10"	24.2
600000001099	Kingspan ISO GF 4'x4' 4.20"	24.9
600000001100	Kingspan ISO GF 4'x4' 4.30"	25.5
600000001101	Kingspan ISO GF 4'x4' 4.40"	26.1
600000001102	Kingspan ISO GF 4'x4' 4.50"	26.8

* Nominal R-Value.

ISO GF - 4'x8'

SKU	Description	R-Value*
600000001143	Kingspan ISO GF 4'x8' 1.00"	5.7
600000001144	Kingspan ISO GF 4'x8' 1.10"	6.3
600000001145	Kingspan ISO GF 4'x8' 1.20"	6.8
600000001147	Kingspan ISO GF 4'x8' 1.30"	7.4
600000001148	Kingspan ISO GF 4'x8' 1.40"	8.0
600000001149	Kingspan ISO GF 4'x8' 1.50"	8.6
600000001150	Kingspan ISO GF 4'x8' 1.60"	9.1
600000001151	Kingspan ISO GF 4'x8' 1.70"	9.7
600000001152	Kingspan ISO GF 4'x8' 1.75"	10.0
600000001153	Kingspan ISO GF 4'x8' 1.80"	10.3
600000001154	Kingspan ISO GF 4'x8' 1.90"	10.8
600000001155	Kingspan ISO GF 4'x8' 2.00"	11.4
600000001156	Kingspan ISO GF 4'x8' 2.10"	12.0
600000001157	Kingspan ISO GF 4'x8' 2.20"	12.6
600000001158	Kingspan ISO GF 4'x8' 2.30"	13.2
600000001159	Kingspan ISO GF 4'x8' 2.40"	13.8
600000001160	Kingspan ISO GF 4'x8' 2.50"	14.4
600000001161	Kingspan ISO GF 4'x8' 2.60"	15.0
600000001162	Kingspan ISO GF 4'x8' 2.70"	15.6
600000001163	Kingspan ISO GF 4'x8' 2.80"	16.2
600000001164	Kingspan ISO GF 4'x8' 2.90"	16.8
600000001165	Kingspan ISO GF 4'x8' 3.00"	17.4
600000001166	Kingspan ISO GF 4'x8' 3.10"	18.0
600000001167	Kingspan ISO GF 4'x8' 3.20"	18.6
600000001168	Kingspan ISO GF 4'x8' 3.25"	18.9
600000001169	Kingspan ISO GF 4'x8' 3.30"	19.2
600000001170	Kingspan ISO GF 4'x8' 3.40"	19.9
600000001171	Kingspan ISO GF 4'x8' 3.50"	20.5
600000001172	Kingspan ISO GF 4'x8' 3.60"	21.1
600000001173	Kingspan ISO GF 4'x8' 3.70"	21.7
600000001175	Kingspan ISO GF 4'x8' 3.80"	22.3
600000001176	Kingspan ISO GF 4'x8' 3.90"	23.0
600000001177	Kingspan ISO GF 4'x8' 4.00"	23.6
600000001178	Kingspan ISO GF 4'x8' 4.10"	24.2
600000001179	Kingspan ISO GF 4'x8' 4.20"	24.9
600000001180	Kingspan ISO GF 4'x8' 4.30"	25.5
600000001181	Kingspan ISO GF 4'x8' 4.40"	26.1
600000001182	Kingspan ISO GF 4'x8' 4.50"	26.8

* Nominal R-Value.

Product Sizes

ISO GF Tapered - 4'x4'

SKU	Description	R-Value*
Tapered ISO Slope 1/16"		
600000001223	Kingspan ISO GF Tapered 1A - 0.5"/0.75"	3.6
600000001224	Kingspan ISO GF Tapered 1B - 0.75"/1.0"	5.0
600000001225	Kingspan ISO GF Tapered 1 - 1.0"/1.25"	6.4
600000001226	Kingspan ISO GF Tapered 2 - 1.25"/1.5"	7.8
600000001227	Kingspan ISO GF Tapered 3 - 1.5"/1.75"	9.3
600000001228	Kingspan ISO GF Tapered 4 - 1.75"/2.0"	10.7
600000001229	Kingspan ISO GF Tapered 5 - 2.0"/2.25"	12.1
600000001230	Kingspan ISO GF Tapered 6 - 2.25"/2.5"	13.6
Tapered ISO Slope 1/8"		
600000001231	Kingspan ISO GF Tapered AA - 0.5"/1.0"	4.3
600000001232	Kingspan ISO GF Tapered A - 1.0"/1.5"	7.1
600000001233	Kingspan ISO GF Tapered B - 1.5"/2.0"	10.0
600000001234	Kingspan ISO GF Tapered C - 2.0"/2.5"	12.9
600000001235	Kingspan ISO GF Tapered D - 2.5"/3.0"	15.9
600000001236	Kingspan ISO GF Tapered E - 3.0"/3.5"	18.9
600000001237	Kingspan ISO GF Tapered F - 3.5"/4.0"	22.1
600000001238	Kingspan ISO GF Tapered FF - 4.0"/4.5"	25.3
Tapered ISO Slope 3/16"		
600000001245	Kingspan ISO GF Tapered J - 1.0"/1.75"	7.8
600000001246	Kingspan ISO GF Tapered K - 1.75"/2.5"	12.1
600000001247	Kingspan ISO GF Tapered L - 2.5"/3.25"	16.6
600000001248	Kingspan ISO GF Tapered M - 3.25"/4.0"	21.2
600000001249	Kingspan ISO GF Tapered JJ - 0.5"/1.25"	5.0
600000001250	Kingspan ISO GF Tapered KK - 1.25"/2.0"	9.3
600000001251	Kingspan ISO GF Tapered LL - 2.0"/2.75"	13.6

SKU	Description	R-Value*
Tapered ISO Slope 1/4"		
600000001253	Kingspan ISO GF Tapered G - 1.0"/2.0"	8.6
600000001254	Kingspan ISO GF Tapered H - 2.0"/3.0"	14.4
600000001255	Kingspan ISO GF Tapered I - 3.0"/4.0"	20.5
600000001256	Kingspan ISO GF Tapered X - 0.5"/1.5"	5.7
600000001257	Kingspan ISO GF Tapered Y - 1.5"/2.5"	11.4
600000001258	Kingspan ISO GF Tapered Z - 2.5"/3.5"	17.4
600000001259	Kingspan ISO GF Tapered ZZ - 3.5"/4.5"	23.6
Tapered ISO Slope 3/8"		
600000001260	Kingspan ISO GF Tapered SS - 0.5"/2.0"	7.1
600000001261	Kingspan ISO GF Tapered TT - 2.0"/3.5"	15.9
Tapered ISO Slope 1/2"		
600000001262	Kingspan ISO GF Tapered Q - 0.5"/2.5"	8.6
600000001263	Kingspan ISO GF Tapered QQ - 2.5"/4.5"	20.5
600000001264	Kingspan ISO GF Tapered XX - 1.0"/3.0"	11.4

* Nominal R-Value.

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