



COMMERCIAL & INDUSTRIAL

Premium Products Catalogue



MODIFIED BITUMEN ROOFING • BUILT-UP ROOFING • ASPHALT • INSULATION
ADHESIVES & PRIMERS • BUILDING ENVELOPE SOLUTIONS • COVERBOARDS

VISIT WWW.IKO.COM

For the most current information on IKO's full line of commercial and industrial roofing, waterproofing products and accessories, please visit us online at: **www.iko.com**

> View our IKO Technical Specification Manual

View our comprehensive Technical Specification Manual. Similar to the printed version, information on IKO roofing membranes is provided by chapter. Chapter categories include System Selection, Product Application, General Requirements, Code Approvals, Flashing Details, Technical Data Sheets, MSDS', Technical Bulletins, plus more. In each chapter, individual pages are provided that can be downloaded in PDF file format.

> View our IKO AquaBarrier Technical Specification Manual

Our AquaBarrier Technical Specification Manual contains Product Information, Application Diagrams, Technical Data Sheets and more, on the full line of AquaBarrier Membranes, Tapes and Accessories. All are key components in air/vapour barriers and building waterproofing systems.

> View the Document Library

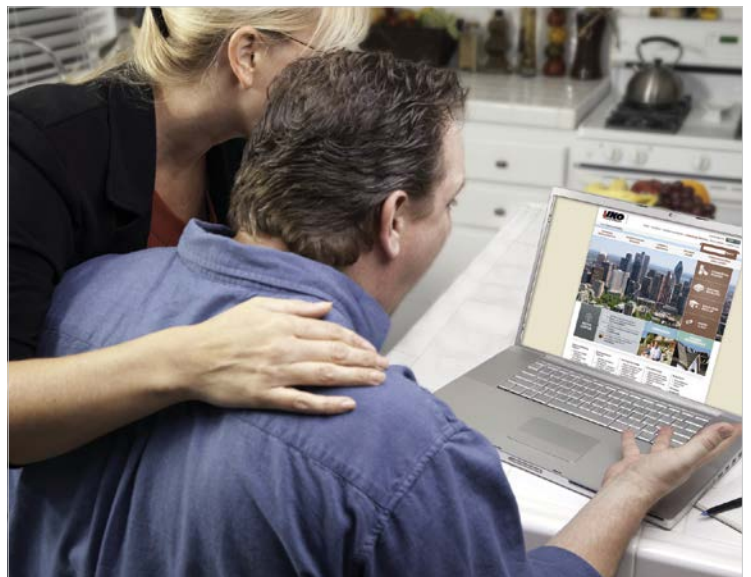
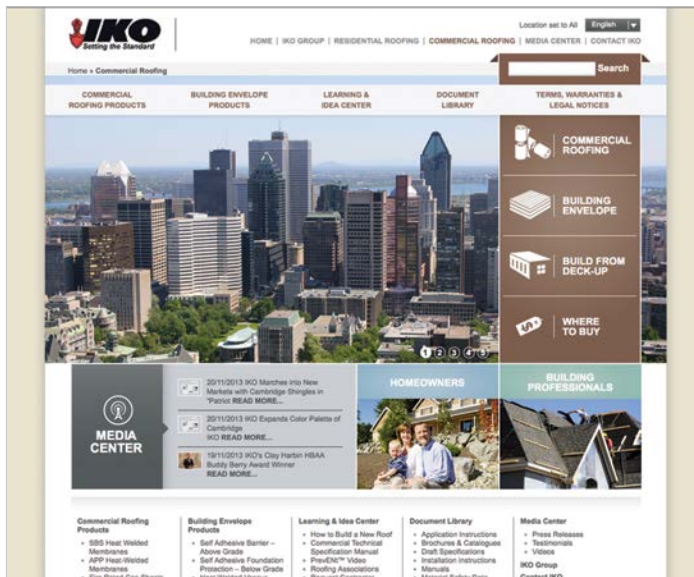
If you're looking for draft specifications, installation instructions, MSDS', Product Bulletins or Technical Data Sheets, view the online Document Library. The PDF file format is easy to print as well as view on screen.

> View the Learning and Idea Centre

Need a product sample? Complete the form you'll find in the Learning and Idea Centre to request your product sample today.

For additional information; warranty, distribution, product availability, job references and much more, please call IKO Technical Services at:

1-855-IKO-ROOF (1-855-456-7663).



NOBODY FOCUSES ON ROOFING LIKE WE DO

IKO is a global leader in the manufacture and supply of asphaltic and bituminous waterproofing products, with over 30 strategically located production facilities throughout North America and Europe. And we continue to grow.

IKO doesn't just manufacture innovative products. We're also innovative in how our products are manufactured. Unlike competitive companies that rely on outside suppliers and producers, IKO is vertically integrated from top to bottom.

All the key components used in IKO roofing products are manufactured in-house, under our own stringent quality controls. This provides us with superior quality control over the finished products.

NOTHING TOPS IKO QUALITY

The commercial roofing products offered by IKO are manufactured by us, in our state-of-the-art facilities which are certified ISO 9001-2008 registered facilities. That allows us to maintain the highest quality control standards, and our people are committed to maintaining this calibre of excellence. That means you can rely on IKO for all your commercial roofing application needs—from the deck up.

WE STAND BEHIND OUR PRODUCTS

IKO offers a wide range of warranty programs to suit your individual needs, including Material Only, Limited Labour & Material, and our Diamond Shield Limited Warranty. Ask your IKO Representative which warranty program is right for you!

ROOFING KNOW-HOW & TECHNICAL SUPPORT

IKO people are just as dedicated, when it comes to providing technical support. We are more than happy to provide you with information during the design and specification phases, bringing a wealth of commercial roofing know-how to help you find the best solutions.

- Product Application Training
- Industry Bulletins
- Toll-Free Support Hotline
- Regional Technical Managers
- Online Access
- Product Overviews
- Specification Manuals

SETTING THE STANDARD

IKO has everything you need for your roofing system, and is the preferred choice of roofing professionals throughout the world, specified by Architects, Engineers, Roof Consultants and Contractors. Today, our roofing and waterproofing materials are specified for residential homes, commercial properties and engineering structures in over 50 countries.

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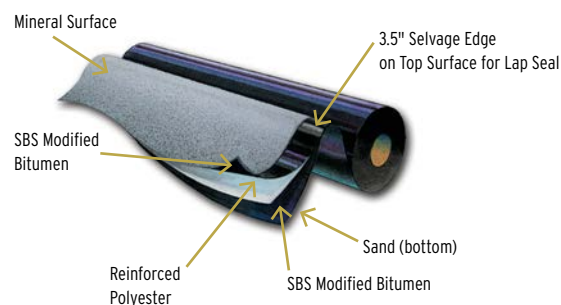
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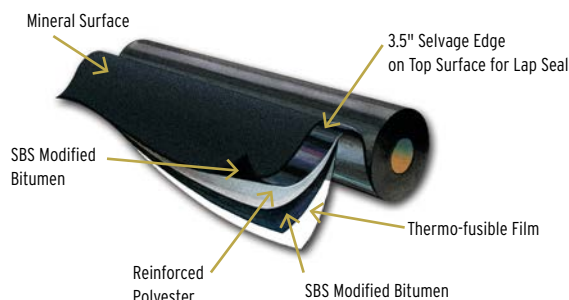
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MODIFLEX/TORCHFLEX SBS

MODIFLEX MP-CAP



TORCHFLEX TP-CAP



Modiflex and Torchflex are high performance modified bitumen roofing and waterproofing systems that are quickly installed, easy to maintain, and highly cost efficient.

TOUGH, LONG-LASTING CONSTRUCTION

Modiflex and Torchflex are made from a strong mat (fibreglass or reinforced polyester) which is coated with SBS modified bitumen. Styrene-Butadiene-Styrene (SBS) is a rubber-based chemical that endows the asphalt with some amazing qualities: superior elasticity, excellent moisture resistance, and exceptional cold weather flexibility. The end result is a long-lasting, durable membrane which can be applied to a wide variety of surfaces on roofs of almost any shape or design.

SIMPLE TO APPLY

Modiflex is applied by hot-mopping the membrane with asphalt or cold-applied with an adhesive. Torchflex is applied by heat-welding the membrane, fusing it to a substrate, and using the same process to seal the seams. Modiflex and Torchflex are both compatible with existing BUR products.

EASY MAINTENANCE

Easy inspection allows damaged areas to be readily identified, and repairs may be performed with a hand torch and round-nosed trowel.

PROTECTION FROM THE ELEMENTS

Used as recommended, Modiflex and Torchflex systems provide superior protection against water leakage and extreme weather conditions. Modiflex and Torchflex cap sheets are offered with ceramic-clad mineral granules embedded into the top surface for greater resistance to damaging ultraviolet rays.

QUALITY ASSURANCE

Modiflex and Torchflex are both manufactured under stringent quality control test requirements, involving continuous testing and product research. Before the finished product leaves the plant, it will have displayed high elasticity and tensile strength, optimal granule adhesion, high thermal shock resistance, low temperature flexibility, high fatigue endurance, exceptional resistance to aging and weathering, and excellent puncture resistance.



Membrane for roofing systems as to an external fire exposure only. See UL directory of products certified for Canada and UL roofing materials and systems directory 342M.



ICC-ES ESR-5967

CAP SHEETS

Modiflex MP-180-CAP

Modiflex MP-250-CAP

Modiflex PREVENT™ MP-250 *

Modiflex PREVENT™ PREMIUM MP-250 *

A tough, non-woven, reinforced polyester mat, coated on both sides with SBS modified bitumen (MP-180 : 3.5 mm; MP-250 : 3.8 mm). Ceramic-clad mineral granules are embedded into the top surface while the bottom surface is sanded for hot-mop application or cold-applied adhesive application.

Uses

- Top ply in a two-ply modified system.
- Protective cap for conventional BUR.
- Top ply in a flashing installation.

Torchflex TP-180-CAP

Torchflex TP-250-CAP

Torchflex TP-250-CAP (5.0)

Torchflex PREVENT™ TP-250 *

Torchflex PREVENT™ PREMIUM TP-250 *

Torchflex PREVENT™ TP HD *

A tough, non-woven, reinforced polyester mat, coated on both sides with SBS modified bitumen to a nominal thickness of 4.0 mm [5.0 mm for TP-250-CAP (5.0)]. Ceramic-clad mineral granules are embedded into the top surface while the bottom surface is covered by a thin thermo-fusible film which is burned off during heat-welding.

Uses

- Top ply in a two-ply modified system.
- Protective cap for conventional BUR.
- Top ply in a flashing installation.

ArmourCool Granular TP

PREVENT™ ArmourCool Granular TP *

PREVENT™ ArmourCool HD Granular TP *

A tough, non-woven, reinforced polyester mat, coated on both sides with SBS modified bitumen to a nominal thickness of 4.0 mm for TP versions. Highly reflective bright white mineral granules are embedded into the top surface to satisfy LEED requirement SS7.2 with an SR1 of 81. The bottom is covered with a thin thermo-fusible film which disappears during heat welding. MP versions are also available for hot asphalt and cold adhesive applications.

Uses

- Top ply in a two-ply reflective modified system.

BASE SHEETS

Modiflex MF-95-FS-BASE

Modiflex MF-95-SS-BASE

An inorganic reinforcing mat of high strength non-woven glass fibres, coated and permeated with SBS modified bitumen to a nominal thickness of 2.2 mm. Modiflex MF-95 base sheets are offered with the top surface sanded for hot-mop application or cold adhesive or covered by a thin thermo-fusible film for heat-welding application. The bottom surface is sanded, for hot-mop application or cold adhesive application.

Uses

- First ply in a two-ply modified system.
- First ply in a hybrid BUR System (SS version)

Modiflex MP-180-SS-BASE

Modiflex MP-180-FS-BASE

Modiflex MP-180-FS-BASE (3.0)

Modiflex COLD GOLD™-BASE

A tough non-woven reinforced polyester mat, coated on both sides with SBS modified bitumen to a nominal thickness of 2.2 mm to 3.0 mm depending on the version. Modiflex MP-180 base sheets are offered with the top surface sanded for hot-mop application or cold adhesive or covered by a thin thermo-fusible film for heat-welding application. The bottom surface is sanded for hot-mop application or cold adhesive application.

Uses

- First ply in a two-ply modified system.
- Base ply for flashing systems.
- First ply in a hybrid BUR System (SS version)

Torchflex TF-95-FF-BASE (2.2)

An inorganic reinforcing mat of high strength non-woven glass fibres, coated and permeated with SBS modified bitumen to a nominal thickness of 2.2 mm. The top and bottom surfaces are both covered by a thin thermo-fusible film which will burn off during heat-welding application.

Uses

- First ply in a two-ply modified system.

Torchflex TP-180-FF-BASE

A tough, non-woven reinforced polyester mat, coated on both sides with SBS modified bitumen (180-FF : 3.0 mm). The top and bottom surfaces are both covered by a thin thermo-fusible film which will burn off during heat-welding application.

Uses

- First ply in a two-ply Torchflex system.
- Base ply for flashing systems.

ARMOURVENT

A tough, non-woven reinforced glass mat, coated with SBS modified bitumen. The bottom surface is comprised of a vented self-adhesive pattern with a thin thermo-fusible film on top.

FAST-N-STICK™ 180-BASE SHEET

An enduring, non-woven reinforced polyester mat which is coated with SBS modified bitumen to a thickness of approximately 2.5 mm. This sheet is protected on the top by a thin thermofusible film (which disappears upon heat-welding of the cap sheet). A double release self-adhesive selvage is incorporated on the product for complete self-adhesive (modified to modified seam) lap seaming. This is a strong "lay-flat" base sheet which is used as a mechanically fastened first-ply in the Fast-N-Weld™ system.

Armourbond Flash/ Armourbond Flash Sand

A tough, non-woven reinforced polyester mat coated on both sides with SBS modified bitumen to a nominal thickness of 2.5 mm. A thin thermo-fusible film covers the top surface (sand top surface with Armourbond Flash Sand). The backsurfacing is self-adhering and is covered with a removable silicone treated film. A double release self-adhesive selvage is incorporated on the product for complete self-adhesive lap seaming.

Uses

- The product can be placed in flame-sensitive areas for flashing details, as it is self-adhesive.

*** Enhanced Fire Resistance Rating**

PREVENT™ MODIFLEX/TORCHFLEX SBS

ENHANCED FIRE PROTECTION SAME PHYSICAL PROPERTIES:

- Same application techniques as regular Modiflex/Torchflex.
- Same size, weight, colours and thickness as Modiflex/Torchflex.
- Available as a regular stock item.
- Same great limited warranty coverage as Modiflex/Torchflex.
- Same long-lasting performance as Modiflex/Torchflex.

INTEGRATING PREMIUM PERFORMANCE AND FIRE RESISTANCE... BY DESIGN

At IKO Industries Ltd., we have enhanced the performance of our premium line of SBS Cap Sheets to include the highest fire resistance rating available in a roof membrane, Class A rated by UL/ULC and FM.

PREVENT™ AND PREVENT™ PREMIUM

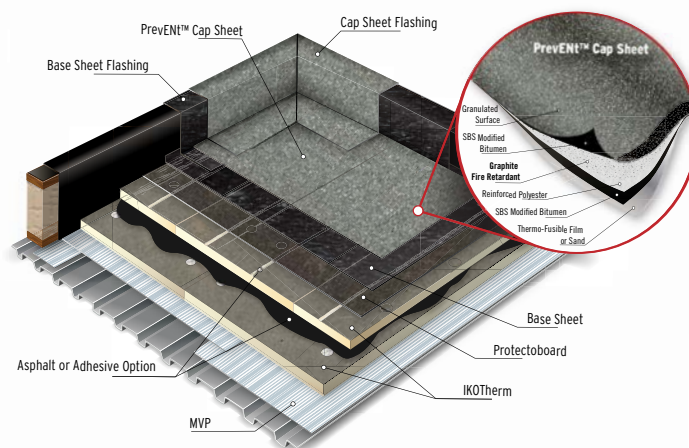
For decades, we have been manufacturing SBS membranes for the commercial roofing market. Our superior quality, innovative design, stringent manufacturing control and attention to detail have earned us a trusted place within the roofing industry. We continue to maintain this leadership position by using Graphite Technology. Contact your IKO Commercial Technical representative for details.

HOW OUR GRAPHITE TECHNOLOGY WORKS

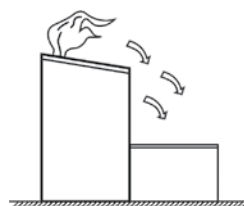
Expandable graphite is applied to the upper face of the reinforcement mat during manufacturing of the cap sheet membrane. This graphite is 100% organic, very environmentally friendly, and will not dissolve in the presence of water. When exposed to high temperatures, it acts as a fire retardant by expanding rapidly. By doing so, it cuts off the supply of oxygen to the flame and prevents liquefied asphalt from adding fuel to the fire. It also restricts fire from developing, making it safer than other similar products. The graphite is not visible when the sheet is installed on the roof; to the eye, a regular cap sheet looks identical to a Prevent™ cap sheet.



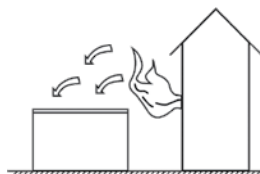
Graphite functions as a fire retardant due to its specific swelling effect.



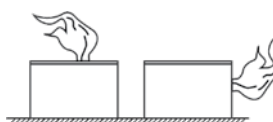
Often Building codes require a class rating for surface burning characteristics: A, B, or C. A Class A rating is the highest rating available and the most resistant to flame propagation.



Flame Spread
(UL790, CAN/ULC S107M, FM/ASTM E108) : Prevent™ inhibits the spread or travel of flame on the roof.



Burning Brands
(UL790, CAN/ULC S107M, FM/ASTM E108) : Prevent™ stops burning embers from penetrating the roof surface and igniting the building.



Intermittent Flame
(UL790, CAN/ULC S107M, FM/ASTM E108) : Prevent™ resists gusts of flame from spreading or growing on the roof.

CGSB

ASTM

ISO 9001:2008
Registered Company

FM Approved

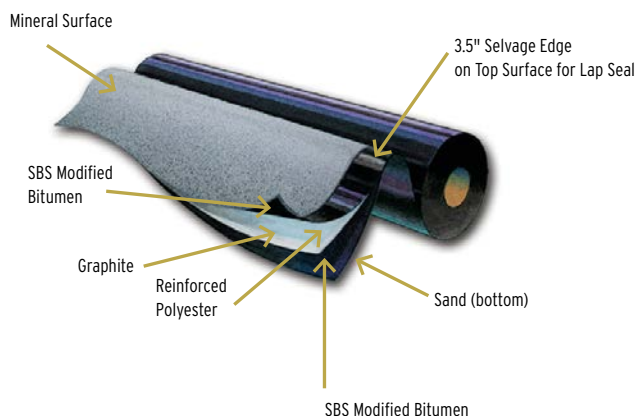
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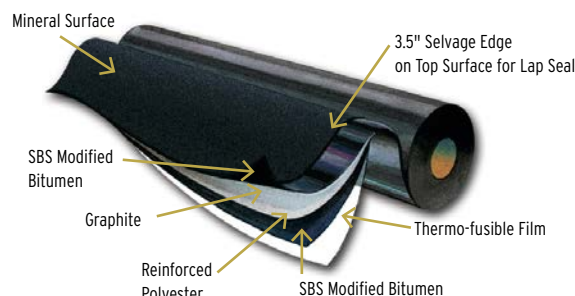
Code Approvals

- UL790 Class A on Non-Combustible and Combustible decks up to a 2-1/2:12 slope
- CAN/ULC S107M Class A on Non-Combustible and Combustible decks up to a 2-1/2:12 slope
- FM/ASTM E108 Class A on Non-Combustible decks up to a 2:12 slope.

**MODIFLEX PREVENT™ MP 250,
PREMIUM MP 250 AND MP HD**



**TORCHFLEX PREVENT™ TP 250,
PREMIUM TP 250 AND TP HD**



CHARACTERISTICS

	Nominal Thickness mm (mil)	Reinforcement		Surface Finish		Product Size m (ft.)	Coverage m ² (sq. ft.)	Colour	Application	
		Type	g/m ² (lb/100ft ²)	Top	Bottom				Heat-Welded	Mopped/ Cold-Applied
Modiflex Prevent™ MP-250	3.8 (150)	Reinforced Polyester	250 (5.0)	Granules	Sand	1 x 10 (3.28 x 32.8)	9.1 (98)	Brown Charcoal Grey Frostone Grey	–	X
Modiflex Prevent™ MP HD	3.8 (150)	Heavy Duty Composite	–	Granules	Sand	1 x 10 (3.28 x 32.8)	9.1 (98)	Brown Charcoal Grey Frostone Grey	–	X
Torchflex Prevent™ TP-250	4.0 (158)	Reinforced Polyester	250 (5.0)	Granules	Thermo-fusible Film	1 x 8 (3.28 x 26.2)	7.3 (78)	Black Charcoal Grey Frostone Grey	X	–
Torchflex Prevent™ Premium TP-250*	4.0 (158)	Reinforced Polyester	250 (5.0)	Granules	Thermo-fusible Film	1 x 8 (3.28 x 26.2)	7.3 (78)	Charcoal Grey Frostone Grey	X	–
Torchflex Prevent™ TP HD	4.0 (158)	Heavy Duty Composite	–	Granules	Thermo-fusible Film	1 x 8 (3.28 x 26.2)	7.3 (78)	Charcoal Grey Frostone Grey	X	–
Prevent™ ArmourCool Granular TP*	4.0 (158)	Reinforced Polyester	250 (5.0)	Granules	Thermo-fusible Film	1 x 8 (3.28 x 26.2)	7.3 (78)	Armour White	X	–

Note: All values are approximate. * Also available in Prevent™ Premium. *Special order only

MODIFLEX / TORCHFLEX SBS PRODUCT CHART Modiflex / Torchflex is a superior roofing membrane with exceptional elasticity, remarkable cold weather flexibility and excellent fatigue resistance.

Product Identification	Nominal Thickness mm (mil)	Reinforcement		Surface Finish		Product Size m (ft.)	Coverage m² (sq. ft.)	Colour	Application			
		Type	g/m² (lb/100ft²)	Top	Bottom				Heat-Welded	Mopped/Cold-Applied	Fastened	Self-Adhered
Cap Sheets												
Modiflex MP-180-CAP	3.5 (138)	Reinforced Polyester	180 (3.7)	Granules	Sand	1 x 10 (3.28 x 32.8)	9.1 (98)	Brown, Charcoal Grey	–	X	–	–
Modiflex MP-250-CAP	3.8 (150)	Reinforced Polyester	250 (5.0)	Granules	Sand	1 x 10 (3.28 x 32.8)	9.1 (98)	Charcoal Grey	–	X	–	–
Modiflex Prevent™ MP-250*	3.8 (150)	Reinforced Polyester	250 (5.0)	Granules	Sand	1 x 10 (3.28 x 32.8)	9.1 (98)	Brown, Charcoal Grey, Frostone Grey	–	X	–	–
Torchflex TP-180-CAP	4.0 (158)	Reinforced Polyester	180 (3.7)	Granules	Thermo-fusible Film	1 x 8 (3.28 x 26.2)	7.3 (78)	Black, Brown, Charcoal Grey, Frostone Grey	X	–	–	–
Torchflex TP-250-CAP	4.0 (158)	Reinforced Polyester	250 (5.0)	Granules	Thermo-fusible Film	1 x 8 (3.28 x 26.2)	7.3 (78)	Black, Brown, Charcoal Grey, Frostone Grey	X	–	–	–
Torchflex TP-250-CAP (5.0)	5.0 (197)	Reinforced Polyester	250 (5.0)	Granules	Thermo-fusible Film	1 x 8 (3.28 x 26.2)	7.3 (78)	Frostone Grey	X	–	–	–
Torchflex TP-HD Cap	4.0 (158)	Heavy Duty Composite	–	Granules	Thermo-fusible Film	1 x 8 (3.28 x 26.2)	7.3 (78)	Black, Frostone Grey	X	–	–	–
Torchflex Prevent™ TP-250*	4.0 (158)	Reinforced Polyester	250 (5.0)	Granules	Thermo-fusible Film	1 x 8 (3.28 x 26.2)	7.3 (78)	Black, Charcoal Grey, Frostone Grey	X	–	–	–
Torchflex Prevent™ Premium TP-250*	4.0 (158)	Reinforced Polyester	250 (5.0)	Granules	Thermo-fusible Film	1 x 8 (3.28 x 26.2)	7.3 (78)	Charcoal Grey, Frostone Grey	X	–	–	–
ArmourCool Granular TP	4.0 (158)	Reinforced Polyester	250 (5.0)	Granules	Thermo-fusible Film	1 x 8 (3.28 x 26.2)	7.3 (78)	Armour White	X	–	–	–
ArmourCool HD TP	4.0 (158)	Heavy Duty Composite	–	Granules	Thermo-fusible Film	1 x 8 (3.28 x 26.2)	7.3 (78)	Armour White	X	–	–	–
Prevent™ ArmourCool Granular TP*	4.0 (158)	Reinforced Polyester	250 (5.0)	Granules	Thermo-fusible Film	1 x 8 (3.28 x 26.2)	7.3 (78)	Armour White	X	–	–	–
Prevent™ ArmourCool HD Granular TP*	4.0 (158)	Heavy Duty Composite	–	Granules	Thermo-fusible Film	1 x 8 (3.28 x 26.2)	7.3 (78)	Armour White	X	–	–	–
Prevent™ TP-HD-Cap*	4.0 (158)	Heavy Duty Composite	–	Granules	Thermo-fusible Film	1 x 8 (3.28 x 26.2)	7.3 (78)	Black, Brown, Charcoal Grey, Frostone Grey, White	X	–	–	–
ArmourCool Granular MP	3.5 (138)	Reinforced Polyester	250 (5.0)	Granules	Sand	1 x 10 (3.28 x 32.8)	9.1 (98)	Armour White	–	X	–	–
Base Sheets												
Modiflex MF-95-FS-BASE	2.2 (87)	Fibreglass Reinforcement	95 (1.95)	Thermo-fusible Film	Sand	1 x 15 (3.28 x 49.2)	13.7 (147)	n/a	–	X	X	–
Modiflex MF-95-SS-BASE	2.2 (87)	Fibreglass Reinforcement	95 (1.95)	Sand	Sand	1 x 15 (3.28 x 49.2)	13.7 (147)	n/a	–	X	X	–
Modiflex MP-180-SS-BASE	2.5 (98)	Reinforced Polyester	180 (3.7)	Sand	Sand	1 x 15 (3.28 x 49.2)	13.7 (147)	n/a	–	X	X	–
Modiflex MP-180-FS-BASE	2.2 (87)	Reinforced Polyester	180 (3.7)	Thermo-fusible Film	Sand	1 x 15 (3.28 x 49.2)	13.7 (147)	n/a	–	X	X	–
Modiflex MP-180-FS-BASE (3.0)	3.0 (118)	Reinforced Polyester	180 (3.7)	Thermo-fusible Film	Sand	1 x 10 (3.28 x 32.8)	9.1 (98)	n/a	–	X	X	–
Torchflex TF-95-FF-BASE (2.2)	2.2 (87)	Fibreglass Reinforcement	95 (1.95)	Thermo-fusible Film	Thermo-fusible Film	1 x 15 (3.28 x 49.2)	13.7 (147)	n/a	X	–	X	–
Torchflex TP-180-FF-BASE	3.0 (118)	Reinforced Polyester	180 (3.7)	Thermo-fusible Film	Thermo-fusible Film	1 x 10 (3.28 x 32.8)	9.1 (98)	n/a	X	–	X	–
Torchflex HD-FF-BASE	3.0 (118)	Heavy Duty Composite	–	Thermo-fusible Film	Thermo-fusible Film	1 x 10 (3.28 x 32.8)	9.1 (98)	n/a	X	–	X	–
Modiflex GOLD™ BASE	2.2 (87)	Reinforced Polyester	–	Sand	Sand	1 x 15 (3.28 x 49.2)	13.7 (147)	n/a	–	X	X	–
Fast-N-Stick™ 180 BASE	2.5 (98)	Reinforced Polyester	180 (3.7)	Micro-perf Film	Sand	1 x 15 (3.28 x 49.2)	13.7 (147)	n/a	–	–	X	–
Fast-N-Stick™ HD BASE	2.5 (98)	Heavy Duty Composite	–	Micro-perf Film	Sand	1 x 15 (3.28 x 49.2)	13.7 (147)	n/a	–	–	X	–
Armourvent	2.8 (110)	Fibreglass Reinforcement	95 (1.95)	Micro-perf Film	Adhesive Strips	1 x 12 (3.28 x 47.3)	11.0 (118)	n/a	–	–	–	X
Self-Adhered Membranes												
Armourbond Flash	2.5 (98)	Reinforced Polyester	140 (2.9)	Micro-perf Film	Release Sheet	1 x 15 (3.28 x 49.2)	13.7 (147)	n/a	–	–	X	X
Armourbond Flash Sand	2.5 (98)	Reinforced Polyester	140 (2.9)	Sand	Release Sheet	1 x 15 (3.28 x 49.2)	13.7 (147)	n/a	–	–	X	X

*Enhanced Fire Resistance Rating

FAST-N-WELD™ MEMBRANE SYSTEM

IKO has developed the Fast-N-Weld™ roof membrane system for application on various roof decks. The two-ply SBS modified bituminous roof membrane is comprised of a mechanically fastened base sheet, with self-adhering side laps.

Self-adhesive laps can only be used at suitable ambient temperatures. Phasing of the roof membrane system with the Fast-N-Stick™ 180/HD Base Sheet is not permitted, unless special measures are taken to ensure water tightness. The cap sheet membrane must be heat-welded over the base sheet to ensure the adhesion of the self-adhesive side lap.

WHY SPECIFY FAST-N-WELD™?

- Labour-saving installation since the base sheet is mechanically fastened and not fully adhered with asphalt, adhesives or heat-welded.
- Mechanical fixation of the membrane with specialized barbed plates and screws in the seam on 600 mm (24") o.c. for the field, qualifies for a Factory Mutual (FM) Windstorm Classification of 1-90. Perimeters and corners must be enhanced as per FM requirements.
- Fast-N-Weld™ System, qualifies for Underwriters Laboratories (UL/ULC) approval without a coverboard.
- Dead load on the structure is less than a conventional built-up roof membrane or a loose-laid ballasted single-ply membrane.
- Fire hazards on fire-sensitive substrates associated with the heat-welding process are reduced with the use of the Fast-N-Stick™ 180 Base Sheet or Fast-N-Stick™ HD Base
- Fast-N-Stick™ HD Base Sheet complies with the requirements of CSA 123.21-10.
- Product can be reverse rolled and installed sand side up allowing hot asphalt or cold adhesive application of the cap sheet

ENHANCEMENT

When specified according to FM Guidelines, as published in FM Loss Prevention Data Bulletin 1-29 and 1-28; the perimeter-fastening pattern of the base sheet may be increased accordingly to comply with these guidelines.

PRE-SECUREMENT OF ROOF INSULATION

As per FM Research Approval Guide, recommended pre-securement patterns to prevent blow-off of the insulation during the roofing application (if applicable) are as follows:

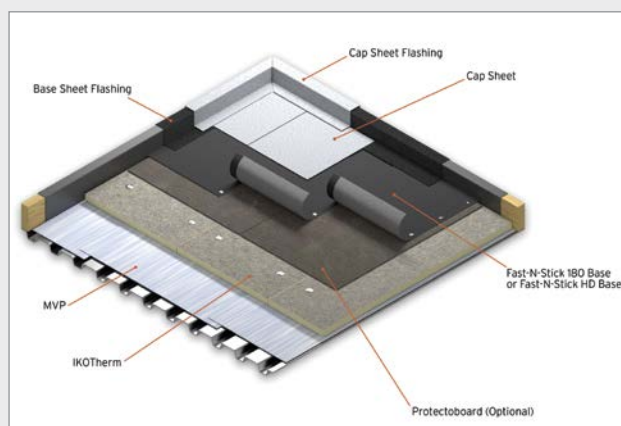
BOARD SIZE	NUMBER OF FASTENERS PER BOARD
600 mm x 1200 mm (2' x 4')	2
1200 mm x 1200 mm (4' x 4')	2
1200 mm x 2400 mm (4' x 8')	4

FLASHING MEMBRANES

Base sheets can be self-adhered (Armourbond Flash) or heat-welded (Torchflex TP-180-FF-Base). IKO recommends the use of Modiflex Roof Tapes at all joints, voids, gaps or holes to prevent the flame of the heat-welding from entering the interior space behind the substrate. Cap sheet flashing membranes should match the cap sheet membrane in the field of the roof.

ACCESSORIES

- IKO Mod-Bit Primer
- IKO S.A.M. Adhesive
- Modiflex Roof Tapes
- FM Approved barbed plates & screws to corrosion resistance criteria of FM Standard 4470.
- IKO Millennium Adhesive



Note: For full FM approved projects, additional fasteners may be required if a vapour retarder is used. Consult IKO Technical for details.



Membrane for roofing systems as to an external fire exposure only. See UL directory of products certified for Canada and UL roofing materials and systems directory 342M.

ARMOURCOOL GRANULAR



With the construction industry focusing more on environmentally friendly products, IKO Industries Ltd. is proud to do our part. However, we want to ensure that the integrity of the roofing system is not compromised in pursuit of this goal.

IKO Industries Ltd., is proud to introduce our new ArmourCool Granular SBS modified bitumen cap sheet. This product delivers two key benefits: same superior weather protection on your roof plus dramatically reducing the amount of solar radiation, which can contribute to the urban heat island effect.

IKO has integrated the proven long-term performance of our SBS Cap Sheet with a specially designed reflective granule on the top surface which reflects solar radiation to a very high degree. ArmourCool Granular exceeds the reflectivity requirements established by LEED SS7.2. This product will deliver the kind of performance you need for your building and at the same time help preserve our environment.

ArmourCool Granular is installed in the same method as any standard heat-welded cap sheet and does not require a coating to meet LEED.

A Prevent version is available for Class A.

ARMOURCOOL GRANULAR LINE OF PRODUCTS

ArmourCool Granular TP
ArmourCool Granular MP
Prevent™ ArmourCool Granular TP
Prevent™ ArmourCool Granular MP
ArmourCool HD TP Cap
Prevent™ ArmourCool HD Cap (Granular TP)
Prevent™ Premium ArmourCool Granular TP*

*Special order

ARMOURCOOL REFLECT SYSTEM

Characteristics	Units	Nominal Value	Specification	Test Method***
Rolls Per Pallet:	-	TP 32 MP 30	-	-
Pallet Size:	cm (in)	132 X 112 (52 x 44)	-	-
Length:	m (ft)	TP 8 (26.2) MP 10 (32.8)	-	-
Width:	mm (in)	1005 (39.6)	-	-
Thickness:	mm (mils)	TP 4.0 (158) MP 3.5 (138)	-	-
Cold Flex:	°C (°F)	Min: -18 (0)	ASTM D6164	ASTM D5147
SRI (LEED):	-	81	LEED	ASTM C1549, C1371, E1980

*** Although both ASTM and CGSB may have requirements for a particular test, only the more stringent is indicated.



IKO ARMOURREFLECT TOP COAT

White acrylic top coat that can be used over a wide variety of materials to meet LEED SS7.2 requirements.



MODIFIED Vapour PROTECTOR (M.V.P)

IKO M.V.P. is a self-adhering membrane used over various types of roof decks such as steel, concrete and wood. This product is designed as a vapour barrier prior to the installation of the roof insulation. IKO M.V.P. is internally reinforced with glass fibres and is composed of modified rubber asphalt with a top surface film of high density cross laminated polyethylene.

Features and Benefits

- Metric size works well with metal deck flute spacing.
- Can be used with a variety of IKO systems.
- Acts as a temporary waterproofing layer during the course of construction.
- High puncture resistant—durable.
- Very flexible—conforms to irregularities well.
- Can be installed in cold temperatures.
- Exceptionally low water vapour permeance.
- The bottom of the self-adhesive membrane is covered with a removable release film making installation easy and efficient.
- Can adhere board products to MVP with approved adhesives (mechanical fixation of the board is not required).



CHARACTERISTICS

	Rolls per Pallet	Pallet Size	Roll Weight	Length	Width	Area	Thickness	Selvage
M.V.P. Modified Vapour Protector	30	132 cm x 112 cm (52" x 44")	32 kgs (70.5 lbs)	37.16 m (122 ft)	1000 mm (39.4")	37.16 m ² (400 ft ²)	.85 mm (33.5 mils)	76 mm (3")

Note: All values shown are approximate.



ARMOURPLAST APP

THE COMPLETE ROOFING SYSTEM

The Armourplast Modified Bitumen System is a complete, self-contained roofing or waterproofing system. By employing the membrane components of the system according to IKO's recommended application techniques, applications may be achieved over a wide variety of substrates on roofs of many designs or shapes.

Armourplast modified bitumen roofing and waterproofing systems deliver superior performance and excellent protection. They can be used as a two-ply system that is quickly installed, easy to maintain, and highly cost-efficient.

SIMPLE TO APPLY

Armourplast is applied by heat-welding the membrane, fusing it to a substrate, and using the same heat-welding technique to heat weld the seams. It installs easily over existing asphalt membranes (primed) with no additional asphalt or adhesives. Armourplast is compatible with existing BUR products and can be applied in the same way as any ordinary heat-welded elastomeric roofing system.

EASY MAINTENANCE

Easy inspection allows damaged areas to be readily identified, and repairs may be performed with a hand torch and round-nosed trowel.

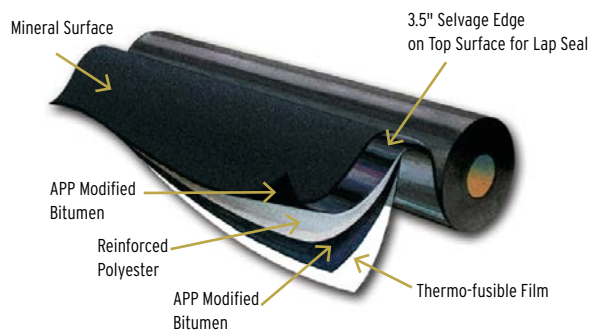
TOUGH, LONG-LASTING CONSTRUCTION

Armourplast is made from a strong, non-woven, reinforced polyester mat which is coated with APP modified bitumen. Atactic Polypropylene (APP) is a plastic-based chemical that endows the asphalt with some amazing qualities:

- Superior toughness
- Excellent moisture resistance
- Greater protection against ultraviolet radiation

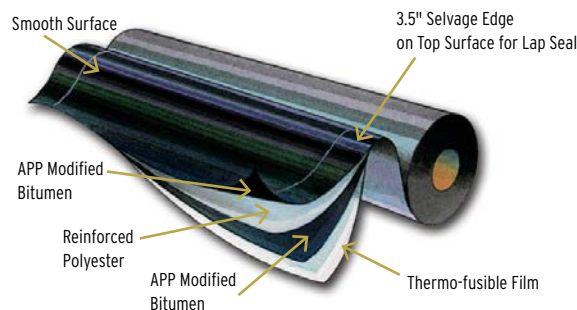
Armourplast is a long-lasting, durable membrane which can be applied to a wide variety of surfaces on roofs of almost any shape or design.

ARMOURPLAST GRANULAR



A tough, non-woven, reinforced polyester mat, coated and permeated on both sides with Armourplast APP modified bitumen, and covered with ceramic-clad mineral granules firmly embedded in the upper surface, to a nominal thickness of 4.0 mm (158 mil). The mineral granules provide a tough weather-resistant surface for superior protection against accelerated aging caused by ultraviolet rays. A thin, light, protective thermo-fusible film (which will disappear during heat-welding), is bonded to the underside of the membrane.

ARMOURPLAST CLASSIC



A tough, non-woven, reinforced polyester mat, coated on both sides with Armourplast modified bitumen, to a nominal thickness of 3.8 mm (150 mil). A thin, light, protective thermo-fusible film (which will disappear during heat-welding), is bonded to the underside of the membrane.



ICC-ES ESR-5967



Membrane for roofing systems as to an external fire exposure only. See UL directory of products certified for Canada and UL roofing materials and systems directory 342M.



PROTECTION FROM THE ELEMENTS

Used as recommended, Armourplast systems provide superior protection against water leakage and extreme weather variances. Ceramic-clad mineral granules are embedded into the top surface of Armourplast Granular for greater resistance to damaging ultraviolet rays. Armourplast Classic APP roofing systems require a compatible coating applied no sooner than thirty (30) days nor later than ninety (90) days after completion of the roof.

QUALITY ASSURANCE

Armourplast is manufactured under stringent quality control test requirements, involving continuous testing and product research. Before the finished product leaves the plant, it will have displayed high tensile strength, optimal granule adhesion, high fatigue endurance, exceptional resistance to aging and weathering, and excellent puncture resistance.

SETTING THE STANDARD

IKO's modern manufacturing facilities feature the most technologically advanced equipment combined with the latest European technology. All plant valves and switches are pressure sensitive, allowing the operator to more precisely control the conditions of manufacturing. The mixing room utilizes the latest digital processing control equipment. Mixers are regulated by a processing control unit that governs the speed and the duration of the mixing cycle. It also controls temperature automatically and gives a digital readout of the temperature throughout the process, ensuring a consistent, high-quality product. The Quality Assurance system in place at the manufacturing facility has been independently registered as conforming to the ISO 9001:2008 Registered Facilities Quality Standards. Registration to this thorough international standard, combined with IKO's commitment to setting the standard, ensure optimum product performance and customer satisfaction.

CHARACTERISTICS

	Type of Asphalt	Nominal Thickness mm (mil)	Reinforcement		Surface Finish		Product Size m (ft.)	Coverage m ² (sq. ft.)	Colour	Application
			Type	g/m ² (lb/100ft ²)	Top	Bottom				
Armourplast Granular*	APP	4.0 [†] (158)	Reinforced Polyester	180 (3.7)	Granules	Thermo-fusible Film	1 x 10 (3.28 x 32.8)	9.1 (98)	Black, Brown Charcoal Grey	Heat-Welded
Armourplast Classic*	APP	3.8 [†] (150)	Reinforced Polyester	180 (3.7)	Smooth	Thermo-fusible Film	1 x 10 (3.28 x 32.8)	9.1 (98)	n/a	Heat-Welded

[†] Armourplast Granular and Armourplast Classic are available in other thicknesses by special order. NOTE: All values shown are approximate. * Available from Brampton plant only.

BUILT-UP ROOFING (BUR)

TYPE 6 GLASS

TYPE IV GLASS

NO. 15 ASPHALT FELT (PERFORATED)

Tough, dimensionally stable fibreglass and organic products from IKO meet or exceed all industry standards and can outperform many other roofing materials.

The pure repetitiveness of installing four plies of roofing felts—interwoven together and bonded with asphalt—significantly reduces the chance for roofing leaks. As a result, building owners receive a solid return on their investment with more years of durability and hassle-free service. IKO's traditional built-up roofing system will provide the following benefits.

- High puncture resistance.
- Good tolerance for building stress.
- Good resistance to thermal shock.
- Redundancy improves chances of a trouble free membrane.
- Exceeds Factory Mutual (FM) Windstorm Classification 1-90 requirements.
- Qualifies for Underwriters Laboratories Inc. (UL®) and Underwriters' Laboratories of Canada (ULC) approval.
- Provides a Class A Fire Rating.
- Offers a proven performance history with four-ply roofing systems being used since 1840.



CHARACTERISTICS

	Product Size	Contents	Reinforcement
Type 6 Glass Ply Sheet (Metric)	1.0 m x 50.2 m (3.3' x 164.6')	50.2 m ² (540 sq. ft.)	105 g/m ² Fibreglass
Type IV Glass Ply Sheet (Metric)	1.0 m x 50.2 m (3.3' x 164.6')	50.2 m ² (540 sq. ft.)	93 g/m ² Fibreglass
No. 15 Felt Perforated (Imperial)	914 mm x 43.9 m (36" x 144')	40 m ² (432 sq. ft.)	255 g/m ² Organic Felt



Note: All values shown are approximate.

ASPHALT BULK LIQUID, BAGGED, AND KEGGED



TYPE I

Available in Bulk Liquid

IKO Type I asphalt is an oxidized bitumen intended for use with organic felts, insulation and coverboards for slopes of 0-3/4:12 (0-6.25%). This asphalt conforms to all requirements of CSA specification A123.4-M, Type I, and UL55A.

TYPE 2

Available in Bulk Liquid & 100 lb Kegs

IKO's Type II Asphalt is an oxidized bitumen intended for use with organic felts, glass felts, modified membranes, insulation and coverboards with slopes of 0-1:12 (0-8%). This asphalt conforms to all requirements of CSA specification A123.4-M, Type II, and UL55A.

TYPE 3

Available in Easy-Melt 200 (50 lb Packages)

IKO's Easy-Melt 200 combines the top-of-the-line characteristics of standard Type III asphalt with greater efficiency and environmental awareness. This oxidized bitumen is formed in a rectangular shape and wrapped in polyethylene. At only 50 lbs. each, the Easy-Melt 200 package is half the weight of asphalt kegs and easy to store and handle.

Easy-Melt 200 can be used with glass felts, modified rolls, insulation, coverboards and flashing systems with slopes of 0 to vertical application [up to 16" (406 mm)]. For other applications, please consult an IKO Technical Representative. This proven waterproofing material is also suitable for use in selected dampproofing applications. A superior grade asphalt, Easy-Melt 200 conforms to all Type III requirements of CSA Standard A123.4-M and ASTM D312.

Note: Available from Canada only

Environmentally Friendly

Easy-Melt 200 is designed to go directly into the kettle, package and all, reducing clean-up and waste!



MODI-MELT SEBS ASPHALT

IKO's Modi-Melt SEBS is a premium Type III modified asphalt intended for use with glass felts, modified membranes, insulation and coverboards with slopes of 0:12 to vertical application [up to 16" (406mm)]. IKO's Modi-Melt is a blend of select asphalt and SEBS rubbers which conforms to all requirements of ASTM D6152, and UL55A. Modi-Melt SEBS is sold in a convenient 50 lb. (22.7 kg) keg and has excellent elasticity, flexibility and strength over a large range of temperatures.

PROTECTOBOARD ASPHALTIC PANELS

Protectoboard is a dimensionally stable roofing board that can be mechanically fastened, hot asphalt applied, or installed with an acceptable adhesive. It is available in various sizes and thicknesses.

Protectoboard is fabricated with a mineral reinforced asphaltic core sandwiched between two layers of non-woven glass fibre reinforcement. This composition offers remarkable reliability in the face of environmental conditions, as well as providing additional fire resistance.

USES

Re-Roofing

During re-roofing Protectoboard can be used as a separation sheet to limit migration of moisture into the new roof system. Installed over an existing roof, Protectoboard provides a durable substrate that offers excellent resistance to torch flames required to install heat-weldable membranes.

FEATURES AND BENEFITS

Asphalt and Fibreglass Construction

- Asphalt and fibreglass construction resists rotting.
- Compatible with asphalt roofing membranes such as built-up roofing system and modified bitumen rolls.
- Minimal moisture absorption.

Non-woven Fibreglass facers

Provides a rigid, dimensionally stable roofing component.

Ease of Use

Protectoboard can be cut with a simple straight or hooked blade. Thicker boards can simply be scored with a blade and snapped similar to gypsum.

Approvals

Protectoboard is accepted by national and provincial associations in Canada, for roofing applications. Forms part of FM and UL/ULC IKO assemblies.

Directly Over Insulation

When installed over insulation, Protectoboard becomes a moisture-resistant cover board, ready to receive waterproofing systems applied by heat-welding, mopped with hot asphalt, self-adhered, or using cold adhesive.

Note: When a self-adhering base membrane is required, the Protectoboard product should be primed appropriately with IKO SAM Adhesive.

Waterproofing

Protectoboard can also be applied as a protective layer over the waterproofing material in construction, such as: bridge and podium decks, vertical walls and parking garages.

A Safe Product

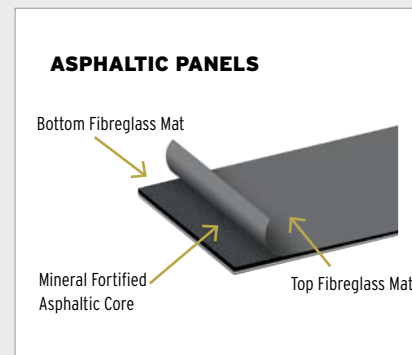
Due to its outstanding fire resistance, Protectoboard is an ideal product for heat-welding applications. Beneficial to both contractors and insurance companies.

Re-Roofing Suitability

A more economical solution than to tear-off and dispose of the existing roof. It provides a uniform surface to install retrofit roofing systems.

Can be Installed Without Mechanical Fasteners

Protectoboard can be mopped into hot asphalt or cold adhesive, offering an alternative to mechanical attachment eliminating the need to penetrate metal decks.



CHARACTERISTICS

Protectoboard	Type of Asphalt	Nominal Thickness mm (mil)	Reinforcement (2 Sides)		Surface Finish (2 Sides)	Product Size m (ft.)	Coverage m ² (sq. ft.)
			Type	g/m ² (lb/100 ft. ²)			
1/8" x 4' x 5' 1/8" x 4' x 8'	Oxidized	3.0 (118)	Fibreglass	60.0 (1.2)	Smooth	1.2 x 1.5 (4' x 5') 1.2 x 2.4 (4' x 8')	1.9 (20) 3.0 (32)
3/16" x 4' x 5' 3/16" x 4' x 8'	Oxidized	4.5 (177)	Fibreglass	60.0 (1.2)	Smooth	1.2 x 1.5 (4' x 5') 1.2 x 2.4 (4' x 8')	1.9 (20) 3.0 (32)
1/4" x 4' x 5' 1/4" x 4' x 8'	Oxidized	6.0 (236)	Fibreglass	60.0 (1.2)	Smooth	1.2 x 1.5 (4' x 5') 1.2 x 2.4 (4' x 8')	1.9 (20) 3.0 (32)
1/2" x 4' x 5' 1/2" x 4' x 8'	Oxidized	12.5 (492)	Fibreglass	60.0 (1.2)	Smooth	1.2 x 1.5 (4' x 5') 1.2 x 2.4 (4' x 8')	1.9 (20) 3.0 (32)

Note: All values shown are approximate.

IKOTHERM COVERSHIELD

IKOTerm CoverShield is a rigid foamed plastic polyisocyanurate roof board comprised of non-organic coated glass fibre facers with a closed cell, high compressive foam core. This product is primarily used as a coverboard for new and existing construction.

IKOTerm CoverShield is available in standard 1200mm x 2400mm x 12.7mm (4' x 8' x 1/2") or 1200mm x 1200mm x 12.7mm (4' x 4' x 1/2").

FEATURES AND BENEFITS

- "Neutral" coated glass fibre facer is moisture and mold resistant and is compatible with many roofing materials.
- Closed cell, highly compressive foam core insulates and saves on energy. Foam core with glass fibre facer - it can be easily cut to roof shapes without the use of special tools.
- Lightweight - it cuts down on the "dead load" of a roof assembly.
- Manufactured in multiple North American plants - supply is readily available nationwide.

APPLICATION

- As a coverboard in both new and re-roofing applications.
- The unique nature of IKOTerm CoverShield makes it compatible with most common roofing materials.
- Flexible enough for inclusion in most roofing assembly scenarios.

INSTALLATION OPTIONS

- Mechanically attached with approved screws and plates. For best results contact IKO Technical Services for specific attachment patterns for proper wind up-lift resistance performance
- Cold adhered using IKO Millennium or IKO Cold Gold adhesive.
- Hot asphalt attached with a maximum asphalt temperature at the point of application of 390°F (198°C).



PHYSICAL PROPERTIES

Property	Units	Typical Value	Test Method
Thickness	mm (in)	12.7 (0.5)	-
Long Term Thermal Resistance	RSI (Btu•hr•ft ² •°F)	0.44 (2.5)	CAN/ULC-S704
Dimensional Stability (MD/XD) at -29°C	%	-0.02/-0.03	ASTM D2126
Water Vapour Permeance	ng/Pa•s•m ²	> 60	ASTM E96
Compressive Strength	kPa (psi)	620 (90)	CAN/ULC-S704



IKOTHERM POLYISOCYANURATE

IKOTerm is a rigid, polyisocyanurate foam insulation with high thermal properties. It is constructed from a closed cell polyisocyanurate foam core that is bonded on each side to fibre-reinforced facers during the manufacturing process. IKOTerm is designed to be part of a modified bitumen, built-up or single-ply roof system.

IKOTerm insulation is dimensionally stable and can be sized with ease. It is also lightweight and easy to handle. Its high R-value thermal resistance provides outstanding insulation protection, which helps to reduce energy costs.

IKOTerm is available in standard 1220 mm x 2440 mm (4' x 8') or 1220 mm x 1220 mm (4' x 4') sizes. IKOTerm Tapered is available in 1220 mm x 1220 mm (4' x 4') size. The top surface of IKOTerm Tapered is manufactured with a slope of 1/16", 1/8", 3/16", 1/4" or 1/2" per foot to provide for positive roof drainage.

FEATURES AND BENEFITS

- Cost-effective.
- Compatible with all types of roofing systems.
- Dimensionally stable.
- Excellent compressive strength.
- Excellent thermal R-value.
- Excellent performance in fire tests.
- High-temperature resistance for hot mopping applications.
- Approved for direct installation on the roof deck without a thermal barrier (CAN/ULC S126M compliance).
- Meets U.S. (ASTM C1289) and Canadian (CAN/ULC S704) product standards.
- ISO 9001:2008 Registered Facilities.

BUR & MODIFIED BITUMEN SYSTEMS

IKOTerm is applied by fastening each panel to the roof deck with Factory Mutual approved fasteners (appropriate to the deck type) and plates. IKOTerm panels of up to a maximum 1220 mm x 1220 mm (4' x 4') may be adhered to a suitably prepared concrete roof deck and vapour barrier with a full mopping of hot Type II or Type III asphalt or approved cold adhesive. The edges of the board must butt up against each other and the joints of adjacent panels must be staggered. IKO, NRCA and the CRCA recommend the installation of an overlayment board prior to the application of built-up roofing, such as 3 mm (1/8") IKO Protectoboard. For best roof system performance, an overlayment board should be installed under the roof membrane. The roof covering can then be installed according to the membrane manufacturer's specifications.

BALLASTED SINGLE-PLY SYSTEMS

IKOTerm panels are loosely laid on the roof deck. The edges of the board must butt up against each other and the joints of adjacent panels must be staggered. The roof covering can then be installed according to the membrane manufacturer's specifications.

FULLY ADHERED SINGLE-PLY SYSTEM

IKOTerm panels are securely fastened to the roof deck with Factory Mutual approved fasteners (appropriate to the deck type) and plates. IKOTerm panels of up to 1220 mm x 1220 mm (4' x 4') may also be adhered to a suitably prepared concrete roof deck and vapour barrier with a full mopping of hot Type II or Type III asphalt. The edges of the board must butt up against each other and the joints of adjacent panels must be staggered. The roof covering can then be installed according to the membrane manufacturer's specifications.

IKOTHERM - THERMAL VALUES

Nominal Thickness*		RSI Units** LTTR ¹	R-Value** LTTR ¹
mm	inches		
25	1.0	.99	5.6
38	1.5	1.50	8.5
45	1.8	1.80	10.2
50	2.0	2.01	11.4
63	2.5	2.54	14.4
68	2.7	2.75	15.6
75	3.0	3.06	17.4
83	3.3	3.38	20.4
85	3.5	3.61	21.7
100	4.0	4.16	23.6

* Additional thicknesses available upon request. ** Typical Values.¹ The long term thermal resistance (LTTR) values of IKOTerm Roof Insulation were determined in accordance with CAN/ULC S704 using CAN/ULC S770. These values can be used as design R-Values that more closely represent the anticipated thermal performance over the life of isocyanurate foam insulation products. Note: The IKOTerm product is produced to "inch" thicknesses, so the R-values shown should be regarded as more accurate than the RSI values, which have been calculated from the rounded mm equivalents.

TEST RESULTS

Property	Test Method	Typical Value
Thermal Performance	CAN/ULC S770	See Thermal charts
Commercial Strength	ASTM D 1621	140 kPa (20 psi) ²
Under Deck Flame Spread	CAN/ULC S126	PASS
Dimensional Stability	ASTM D 2126	all conditions MD and XD: $\pm 2.0\%$
Water Vapour Permeance	ASTM E 96	>60 ng/(Pa·s·m ²) (1 perm)
Water Absorption	ASTM D 2842	Max 3.5% volume
Service Temperature	CAN/ULC S704	-73°C to 121°C (-100°F to 250°F)

² 172 kPa (25 psi) product available by special request. Above IKOTerm III test results were produced according to CAN/ULC S704, and ASTM C1289.

IKOTHERM TAPERED - THERMAL VALUES

	Panel Label	Nominal Thickness		RSI Units** LTTR ¹	R-Value** LTTR ¹
		mm	inches		
1/16" Taper per Foot	7	12 - 19	0.5 - 0.75	0.62	3.5
	8	19 - 25	0.75 - 1.0	0.86	4.9
	1	25 - 32	1.0 - 1.25	1.11	6.3
	2	32 - 38	1.25 - 1.5	1.36	7.7
	3	38 - 44	1.5 - 1.75	1.60	9.1
	4	44 - 50	1.75 - 2.0	1.87	10.6
	5	50 - 57	2.0 - 2.25	2.13	12.1
	6	57 - 63	2.25 - 2.5	2.40	13.6
1/8" Taper per Foot	AA	12 - 25	0.5 - 1.0	0.74	4.2
	A	25 - 38	1.0 - 1.5	1.23	7.0
	B	38 - 50	1.5 - 2.0	1.74	9.9
	C	50 - 63	2.0 - 2.5	2.27	12.9
3/16" Taper per Foot	JJ	12 - 32	0.5 - 1.25	0.86	4.9
	KK	32 - 50	1.25 - 2.0	1.62	9.2
1/4" Taper per Foot	X	12 - 38	0.5 - 1.5	0.99	5.6
	Y	38 - 63	1.5 - 2.5	2.01	11.4
	G	25 - 50	1.0 - 2.0	1.50	8.5
	H	50 - 76	2.0 - 3.0	2.54	14.4
1/2" Taper per Foot	Q	12 - 63	0.5 - 2.5	1.50	8.5

Thermal values for tapered products are not an average or linear correlation. The Thermal Resistance is proportional to the inverse of the heat loss, and the effective thermal resistance for the section is proportional to the overall heat loss of the section.

**MECHANICALLY ATTACHED SINGLE-PLY SYSTEMS**

IKOTHERM panels are securely fastened to the roof deck with Factory Mutual approved fasteners (appropriate to the deck type) and plates. The edges of the board must butt up against each other and the joints of adjacent panels must be staggered. The roof covering can then be installed according to the membrane manufacturer's specifications.

VAPOUR RETARDER

1. In applications where high interior humidity is a factor, a vapour retarder may be necessary to protect roofing components.
2. The need for a vapour retarder, as well as the type, placement and location of a retarder should be determined by a specification authority or a designer and may need to be considered in the following situations:
 - a. Applications on buildings with high humidity interiors, such as:
 - Indoor swimming pools.
 - Textile manufacturing operations.
 - Food, paper plants and other wet-process industrial plants.
 - b. Applications with construction elements that may release moisture after the roof is installed, such as:
 - Interior concrete and masonry—Fuel burning heaters.
 - Plaster and paint finishes—Cementitious roof fills.
3. IKOTHERM by itself cannot be considered a vapour retarder.

WARNING AND LIMITATIONS

- IKOTHERM, as with all foam plastics products, will burn.
- Do not leave exposed.
- Store IKOTHERM on pallets elevated above the floor, ground or standing water.
- IKOTHERM is bagged at the factory to protect the insulation from direct weather exposure when in transport. It is not intended to be used as a protective barrier for long term storage outside. Shipping packaging shall be slit to minimize the formation of condensation and covered with a waterproof breathable tarpaulin when it reaches its final destination.

IKO will not be responsible for specific building designs by others, for deficiencies in construction or workmanship, for dangerous conditions on the job site or improper storage and handling.

HCFC-FREE

IKOTHERM is constructed HCFC-free, exceeding the Environmental Protection Agency's timetable for the elimination of HCFCs (hydrochlorofluorocarbons), three years ahead of time. IKOTHERM is manufactured at IKO's state-of-the-art facilities, which have been designed completely around IKO's HCFC-free manufacturing process, using a Pentane blowing agent. ISO 9001:2008 Registered Facilities.

IKOTHERM III POLYISOCYANURATE

IKOTHERM III - THERMAL VALUES

Nominal Thickness*		RSI Units** LTTR ¹	R-Value** LTTR ¹
mm	inches		
25	1.0	.99	5.6
38	1.5	1.50	8.5
45	1.8	1.80	10.2
50	2.0	2.01	11.4
63	2.5	2.54	14.4
68	2.7	2.75	15.6
75	3.0	3.06	17.4
83	3.3	3.38	20.4
85	3.5	3.61	21.7
100	4.0	4.16	23.6

*Additional thicknesses available upon request. **Typical Values. ¹The long term thermal resistance (LTTR) values of IKOTerm III Roof Insulation were determined in accordance with CAN/ULC S704 using CAN/ULC S770. These values can be used as design R-Values that more closely represent the anticipated thermal performance over the life of isocyanurate foam insulation products. Note: The IKOTerm III product is produced to "inch" thicknesses, so the R-values shown should be regarded as more accurate than the RSI values, which have been calculated from the rounded mm equivalents. ²Eastern Canada only. Note: IKOTerm III not to be used on exposed or inverted roofs.

TEST RESULTS

Property	Test Method	Typical Value
Thermal Performance	CAN/ULC S770	See Thermal charts
Commercial Strength	ASTM D 1621	140 kPa (20 psi) ²
Under Deck Flame Spread	CAN/ULC S126	PASS
Dimensional Stability	ASTM D 2126	all conditions MD and XD: ±2.0%
Water Vapour Permeance	ASTM E 96	>60 ng/(Pa·s·m ²) (1 perm)
Water Absorption	ASTM D 2842	Max 3.5% volume
Service Temperature	CAN/ULC S704	-73°C to 121°C (-100°F to 250°F)

² 172 kPa (25 psi) product available by special request. Above IKOTerm III test results were produced according to CAN/ULC S704, and ASTM C1289.



IKOTerm III is a rigid, polyisocyanurate foam insulation with high thermal properties. It is constructed from a closed cell polyisocyanurate foam core that is bonded on each side to non-organic coated glass facers during the manufacturing process. IKOTerm III is designed to be part of a modified bitumen, built-up or single-ply roof system.

IKOTerm III insulation is dimensionally stable and can be sized with ease. It is also lightweight and easy to handle. Its high R-value thermal resistance provides outstanding insulation protection, which helps to reduce energy costs.

IKOTerm III is available in standard 1220 mm x 2440 mm (4' x 8') or 1220 mm x 1220 mm (4' x 4') sizes.

FEATURES AND BENEFITS

- Cost-effective.
- Ideally suited for cold-applied and single-ply membrane roofing systems.
- Ideally suited for cold-applied and hot-mopped Mod-Bit roofing systems.
- Ideally suited for BUR roofing systems.
- Enhanced dimensional stability.
- Excellent compressive strength.
- Excellent thermal R-value.
- High-temperature resistance for cold-applied or hot-mopped applications
- Meets U.S. (ASTM C1289) and Canadian (CAN/ULC S704) product standards.
- ISO 9001:2008 Registered Facilities.

WARNINGS AND LIMITATIONS

- IKOTerm III, as with all foam plastics products, will burn.
- Do not leave exposed.
- Store IKOTerm III on pallets elevated above the floor, ground or standing water.
- Products bagged at the plant do not need to be covered with a breathable waterproof tarpaulin until opened. Once opened, cover with a breathable waterproof tarpaulin[†].

IKO will not be responsible for specific building designs by others, for deficiencies in construction or workmanship, for dangerous conditions on the job site or improper storage and handling.

HCFC-FREE

IKOTerm III is constructed HCFC-free, exceeding the Environmental Protection Agency's timetable for the elimination of HCFCs (hydrochlorofluorocarbons), three years ahead of time. IKOTerm III is manufactured at IKO's state-of-the-art facility, which has been designed completely around IKO's HCFC-free manufacturing process, using a Pentane blowing agent. ISO 9001:2008 Registered Facilities.

ENERFOIL POLYISOCYANURATE INSULATION SHEATHING

In today's climate of soaring energy costs and a renewed awareness for environmental conservation, the building industry is striving to improve the buildings we occupy.

Polyisocyanurates such as IKO's Enerfoil insulation boasts the highest insulating value per inch of thickness of any manufactured insulation available—making it ideal to create more thermally efficient buildings. Improving wall designs and their performance by integrating IKO's high-performance insulation systems helps achieve the energy efficiency we all desire.

Enerfoil is a rigid polyisocyanurate insulation sheathing with foil facers laminated to a foam core. Manufactured at IKO's state-of-the-art ISO 9001:2008 Registered Facilities, Enerfoil:

- Manufactured using no ozone-depleting HCFCs, making it an ideal "green" product. Enerfoil's Energy Star® certification means that it clearly contributes to reducing energy consumption.
- Provides high thermal resistance of R6 per inch (RSI 1.05 per 25 mm) for improved energy-efficient performance of walls.
- Provides versatility. Foil facings provide the long-term moisture resistance necessary for wall applications. Enerfoil's thermoset foam structure and facings are also compatible with most solvent-based materials, which can attack and compromise the performance of other thermoplastic insulations.
- Provides ease of execution and is not trade dependent.

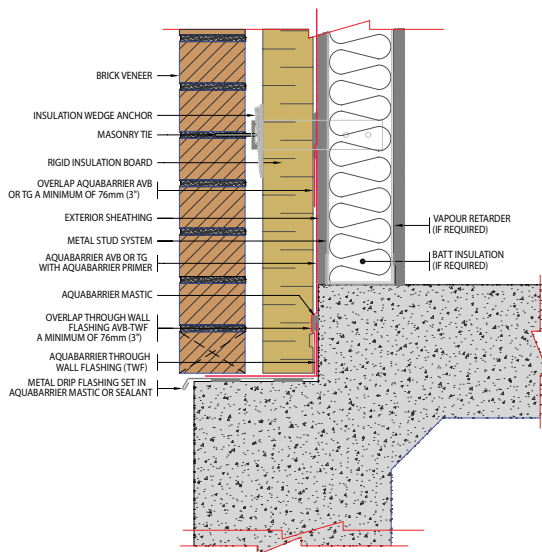
- Is available in 4' x 8' and 4' x 9' boards with the following thicknesses: 1/2" (12 mm), 3/4" (16 mm), 1" (25 mm), 1-1/2" (38 mm), 2" (50 mm), 2-1/2" (63 mm), 3" (75 mm) and 3.5" (89 mm). Project-specific production may also be available.

Note: Enerfoil should not be used below grade where it is subject to water infiltration.

BENEFITS

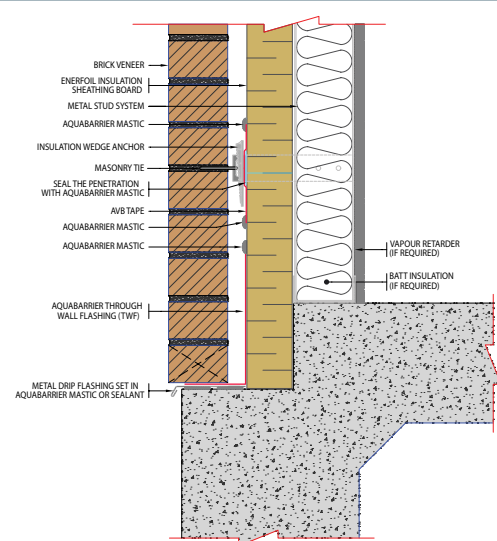
IKO's innovative building systems are at the forefront of wall design, science and technology. Quite simply, Polyisocyanurate outperforms any plastic insulation in the market. When joined together on a building's exterior using IKO's taping method, the exterior becomes an air barrier, a vapour barrier and an insulation—all in one product.

TYPICAL WALL SYSTEM



The air or air/vapour barrier is typically composed of a modified asphalt self-adhesive membrane such as the IKO AquaBarrier AVB. The application requires an adequately prepared primary substrate, such as an exterior grade gypsum, be installed prior to the membrane and insulation components.

IKO ENERFOIL WALL SYSTEM



Enerfoil, when used as a system, reduces the wall components required for a continuous air/vapour barrier. When using IKO's Enerfoil Wall System, the insulation board performs as an all-in-one insulation, weather barrier and sheathing. When used as a system, the quantity of material needed to complete the wall assembly is reduced by as much as 40%. The simplicity of the Enerfoil System translates to a significant savings in time and money during the construction process. The finished system becomes a continuous weather barrier and insulation, both are key elements to superior long-term energy efficiency.

ENERFOIL POLYISOCYANURATE INSULATION SHEATHING

ADDITIONAL BENEFITS OF ENERFOIL WALL SYSTEMS INCLUDE:

- Decreases the cost of construction by saving both materials and labour.
- Allows designers to reduce the overall footprint of their buildings, as a smaller thickness of Enerfoil achieves the same R-value (RSI) as other types of insulation. In fact, the thermal efficiency of any structure dramatically increases by installing Enerfoil on exterior walls.
- Adapts to suit all contemporary construction techniques—be it a stud wall, cavity wall, poured concrete or masonry block—with its greater design options.
- Meets or exceeds building code requirements by using a laminated film on the exterior of each Enerfoil panel.
- Is lightweight and provides moderate abuse-resistance on the jobsite due to laminated facers on both sides of the sheathing. Stud indicators also improve installation accuracy.

STORAGE

- It is recommended that Enerfoil be stored indoors.
- When outdoor storage of insulation is unavoidable, the insulation shall be stacked on pallets a minimum of four inches (4") (102 mm) above ground level and covered with a waterproof tarp. The insulation manufacturer's packaging is not considered waterproof and shall be slit, as recommended by the manufacturer, to reduce condensation inside the packaging.
- Keep on a level surface, elevated at least 4" (102 mm) above ground.

TESTING

Enerfoil has been subjected to a rigorous and independent battery of tests performed by a third-party laboratory. Minimum insulation ratios were tested to better understand dew points, the effects of diffusion, relative humidity, Vapour drive, their correlation with wall temperatures and potential for condensation. Enerfoil wall systems also were subjected to wind loading, allowing IKO to test and further develop critical details for joint treatment, penetrations and openings.

Note: The Building Official in your region may have specific requirements pertaining to the application of this product and these requirements shall take precedence over what is suggested here. Please consult your local authorities having jurisdiction over construction before commencing with any project.

TYPICAL PHYSICAL PROPERTIES

Characteristic	Units	Typical Value	Specification	Test Method	Standard Limits
Length Tolerance	in. (mm)	± 0.16 (± 4)	CAN/ULC-S704	ASTM C303	+ 0.25 (+ 6) - 0.16 (- 4)
Width Tolerance	in. (mm)	± 0.08 (± 2)	CAN/ULC-S704	ASTM C303	+ 0.16 (+ 4) - 0.08 (- 2)
Dimensional Stability (MD/XD) at 70°C, 97% R.H.	%	< 2	CAN/ULC-S704	ASTM D2126	MAX: ± 2
Water Vapour Permeance	ng/Pa·s·m ²	< 15	CAN/ULC-S704	ASTM E96	≤ 15
Water Absorption	% by Vol.	< 1.0	CAN/ULC-S704	ASTM D2842	MAX: 3.5
Compressive Strength	kPa (psi)	124 (18)	CAN/ULC-S704	ASTM D1621	MIN: 110 (16)
Thermal Resistance Value*	Thickness: 0.5 in. (12 mm) 0.75 in. (19 mm) 1.0 in. (25 mm) 1.5 in. (38 mm) 2.0 in. (50 mm) 2.5 in. (63 mm) 3.0 in. (75 mm) 3.5 in. (89 mm)	Btu·hr·ft ² ·°F (RSI)	3.1 (0.54) 4.5 (0.81) 6.2 (1.08) 9.3 (1.62) 12.4 (2.16) 15.5 (2.70) 18.6 (3.24) 21.7 (3.78)	CAN/ULC-S770	—
Service Temperature	°F (°C)	-40 to 212 (-40 to 100)	—	—	—
Flame Spread Index Smoke Density Index	—	< 75 < 450	—	ASTM E84	—
Flame Spread Index (Canada) Smoke Density Index (Canada)	—	< 55 < 500	—	S102	—

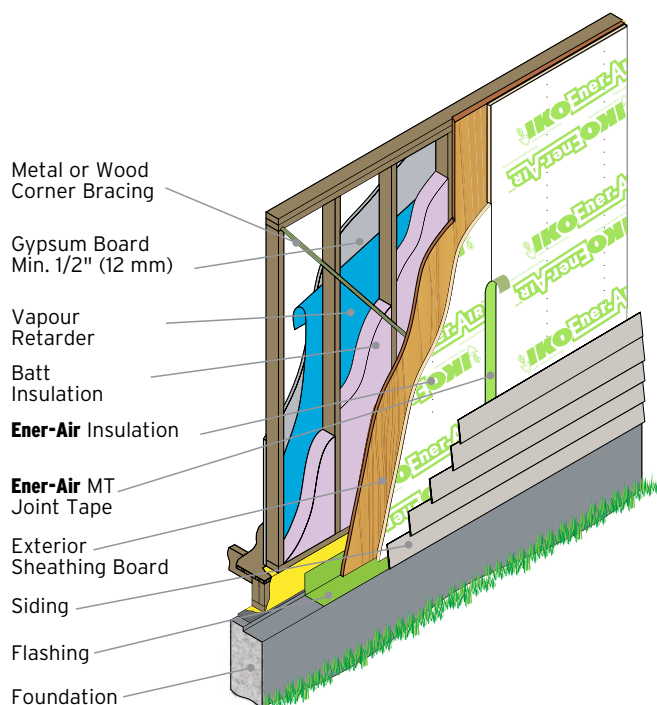
* Stated thermal resistance values are based upon conditioning requirements and test methodology found in ULC S-704 and ASTM C518 for foil-faced polyisocyanurate insulation. As a conservative estimate for long-term thermal resistance design value, R6.2 (RSI 1.08) per inch thickness is typically used. Since R-value claims among various polyisocyanurate brands may vary, it is best to consult independently verified test data such as that found in Canadian Construction Materials Centre (CCMC) Evaluation reports. Please see IKO's CCMC Evaluation Report # 13188-L (as well as CCMC Report #'s 12422-R and 13104-L) for more information.



ENER-AIR BREATHABLE POLYISOCYANURATE SHEATHING



FRAME CONSTRUCTION SIDING



Ener-Air by IKO is a breathable rigid polyisocyanurate insulation sheathing with a coated glass fibre facer laminated on the top and bottom side. Manufactured at IKO's state-of-the-art ISO 9001-2008 registered facility, Ener-Air is a sheathing that:

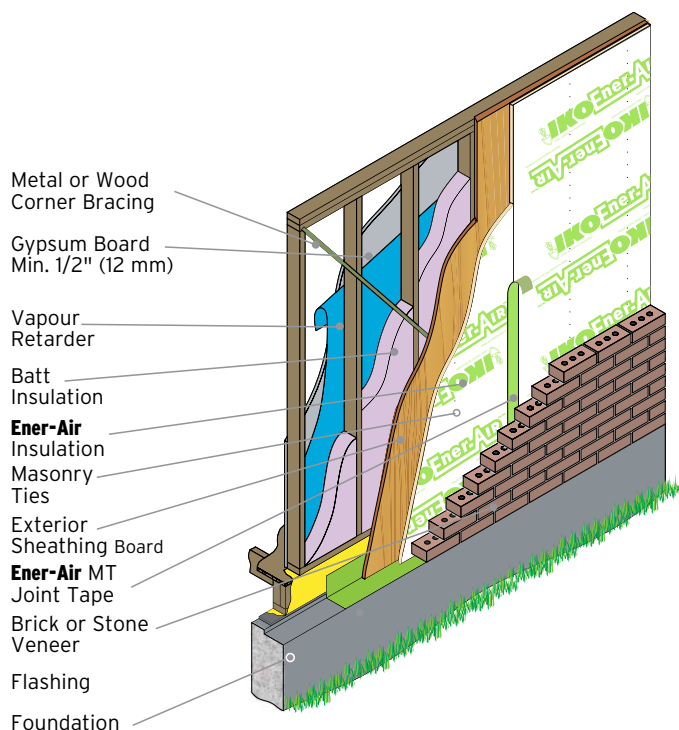
- Provides high thermal resistance of R6 per inch (RSI 1.05 per 25 mm) for improved energy efficient performance of walls.
- Helps decrease the cost of construction. Designers can reduce the overall footprint of their buildings, as a smaller thickness of Ener-Air achieves the same R-value (RSI) as other thicker types of insulation.
- Environmentally friendly. No ozone-depleting HCFC's are used in the manufacture of Ener-Air, making it an ideal "Green" product. Ener-Air's Energy Star® certification means that it clearly contributes to reducing energy consumption.
- Can also contribute to points under LEED, EnerGuide and other energy efficiency rating programs.
- User-friendly. Coated glass facers on both sides of the sheathing provide moderate abuse-resistance on the jobsite.
- Ener-Air is lightweight & easy to cut, thus reducing labour costs on site.
- Provides versatility. Coated glass fibre facings provide the long-term moisture resistance necessary for cavity wall applications. Ener-Air's facings are also compatible with solvent-based materials, which can attack and compromise the performance of other thermoplastic insulations.
- Has a uniform thickness for consistently maintaining air space requirements in cavity wall applications.
- Available in 4' x 8' boards in a variety of thicknesses including 19mm (.75"), 25mm (1"), 38mm (1.5") and 51mm (2.0").
- Not only is Ener-Air a superior insulating product but doubles as an air barrier as well. When suitably detailed the Ener-Air system can be a code-compliant air barrier assembly. Thus fulfilling two jobs at once.

STORAGE

- It is recommended that Ener-Air be stored indoors.
- When outdoor storage of insulation is unavoidable, the insulation shall be stacked on pallets a minimum of four inches (4") (102 mm) above ground level and covered with a waterproof tarp. The insulation manufacturer's packaging is not considered waterproof and shall be slit, as recommended by the manufacturer, to reduce condensation inside the packaging..
- Keep on a level surface, elevated at least 4" (102 mm) above ground.

Note: Ener-Air should not be used below grade where it is subject to water infiltration.

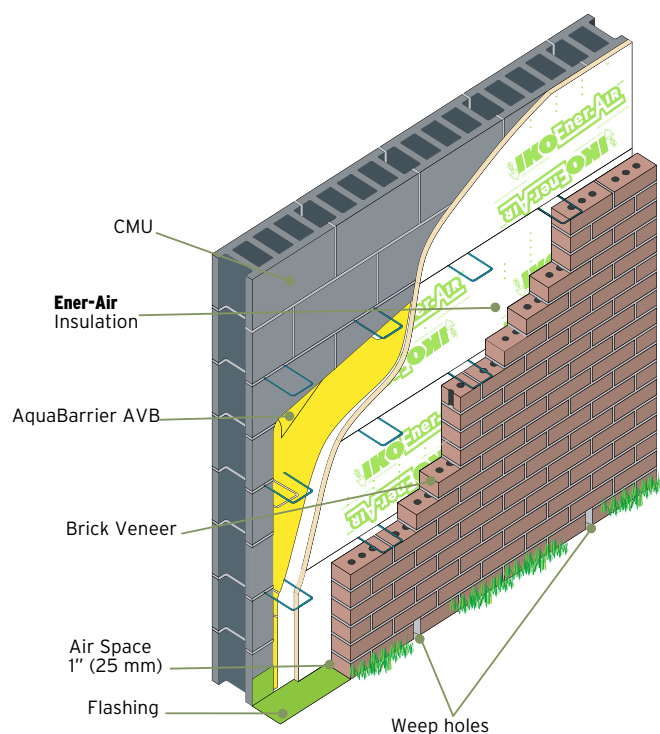
CONSTRUCTION BRICK VENEER



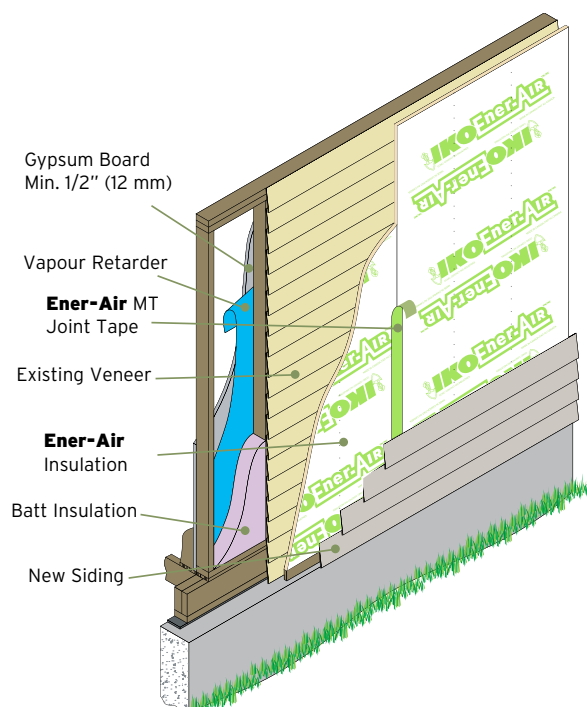
ENER-AIR BREATHABLE POLYISOCYANURATE SHEATHING

HCFC-free

BLOCK WALL CONSTRUCTION



RETROFIT APPLICATION



TYPICAL PHYSICAL PROPERTIES

Characteristic	Units	Typical Value	Specification	Test Method	Standard Limits
Length Tolerance	in. (mm)	± 0.16 (± 4)	CAN/ULC-S704	ASTM C303	+ 0.25 (+ 6) - 0.16 (- 4)
Width Tolerance	in. (mm)	± 0.08 (± 2)	CAN/ULC-S704	ASTM C303	+ 0.16 (+ 4) - 0.08 (- 2)
Dimensional Stability (MD/XD) at 70°C, 97% R.H.	%	< 2	CAN/ULC-S704	ASTM D2126	MAX: ± 2
Water Vapour Permeance	ng/Pa·s·m²	≥ 60	CAN/ULC-S704	ASTM E96	> 60
Water Absorption	% by Vol.	< 1.0	CAN/ULC-S704	ASTM D2842	MAX: 3.5
Compressive Strength	kPa (psi)	124 (18)	CAN/ULC-S704	ASTM D1621	MIN: 110 (16)
Thermal Resistance Value*	Thickness: 0.75 in. (19 mm) 1.0 in. (25mm) 1.5 in. (38 mm) 2.0 in. (51 mm)	Btu·hr·ft²·°F (RSI) 0.77 (4.5) 1.05 (6.0) 1.58 (9.0) 2.10 (12.0)	CAN/ULC-S704	CAN/ULC S770	-
Service Temperature	°F (°C)	-40 to 212 (-40 to 100)	-	-	-
Flame Spread Index Smoke Density Index	-	≤ 350 ≤ 225	-	CAN/ULC S102	-
FAir Barrier (@75Pa) Unconditioned	L/s.m²	<0.0005	CAN/ULC S741	ASTM E2178	< 0.02
Air Barrier(@75Pa) Conditioned	L/s.m²	<0.0005	CAN/ULC S741	ASTM E2178	Does not increase by more than 0.001

* Stated thermal resistance values are based upon conditioning requirements and test methodology found in ULC S-704 and CAN/ULC S770 for polyisocyanurate insulation. As a conservative estimate for long-term thermal resistance design value, R6 (RSI 1.05) per inch thickness is typically used.



ISO 9001:2008
Registered Company



COLD GOLD™ COLD-APPLIED ROOFING SYSTEM

IKO COLD GOLD™ ADHESIVE

IKO COLD GOLD™ Adhesive is a solvent-free, single component, cold process roofing adhesive suitable for vapour retarders, IKOTherm, Protectoboard and Modiflex Base/Cap sheets and can be applied with a steel 3/32" notch trowel or V-notch rubber 1/16" trowel. One manufacturer and one system for all your cold process roofing requirements.

Features and Benefits

- Solvent-Free: no pungent odours and no fire hazard.
- VOC-Free: no volatile compounds.
- Non-Hazardous: unrestricted transport in North America.
- Moisture Cured: no solvents to "flash off" with a fast cure time.
- Wide range of application temperatures: -10°C (14°F) to 40°C (104°F)*.
- Good initial bond for minimal displacement of components prior to full cure.
- Easy-to-apply (notched squeegee) and easy to clean up (mineral spirits).
- Compatible with vapour retarders, IKOTherm, Protectoboard and Modiflex Base/Cap sheets.
- Product should be stored at room temperature prior to use.
- Substantial cure time in 24-48 hours in moderate conditions.

*Dependent on RH.



IKO COLD GOLD™ FLASHING CEMENT

For substrates receiving cold-applied flashing membranes. This is a 2-part trowel grade component system cement is suitable for all substrates. A trowel of 3/16 size must be used with this product. This solvent-free and VOC-free cement, has a fast set time, excellent shelf life, and an extremely strong bonding strength.



To complement your roof system using Cold Gold™ apply IKO's latest SBS Modified Bitumen Base sheet Modiflex Gold Base. The unique properties imparted to the base sheet by our manufacturing process gives superior performance and physical properties to your cold-applied roof system. Our special polyester reinforcement ensures both high strength and elongation along with very good "lay flat" qualities. Suitable for both base sheet and base sheet flashing applications.

MILLENNIUM ADHESIVE

HIGHLY ELASTOMERIC, SOLVENT FREE, FOAMABLE ADHESIVE

BASIC USE

IKO Millennium Adhesive is designed for use as an adhesive for bonding approved roof insulations to a building's structural roof deck, base sheets, other insulation boards, and smooth or properly prepared graveled built-up roof surfaces.

IKO Millennium Adhesive eliminates the need for mechanical fasteners that can often cause damage to the roof deck, resulting in reduced service life.

APPROVED INSULATIONS AND SUBSTRATES

For a complete list of approved substrates and insulation types, or for additional information, contact our Technical Department.

COLOUR

Off white-light amber

PACKAGING AND COVERAGE

IKO Millennium Adhesive is available in the following package:

- HD wood fibre
- Isocyanurate
- Perlite- minimum 3/4" (1.9 cm)
- Polystyrene
- Gypsum cover board
- Asphaltic cover boards
- DensDeck
- Concrete
- Gypsum
- Cementitious wood fibre
- Lightweight insulating concrete
- Wood or steel
- Modified bitumen membranes and base sheets (sanded or granule surfaced)
- Approved insulations (multilayer applications)
- Smooth or gravel surface built-up roof (re-roof applications)

Cartridge Size	Part #	Cartridges/Case
1.5 Litre	OS-FA15-04	4

Covers 600 sq ft (56m²) per case. Coverage estimates indicate total square feet of insulation attachment per case. Rates are based on an application pattern of 4 ribbons, 1/4" to 1/2" (0.6cm to 1.3cm) wide, 12"(30cm) o.c. per 4' x 4' (1.2m x 1.2m) insulation board.

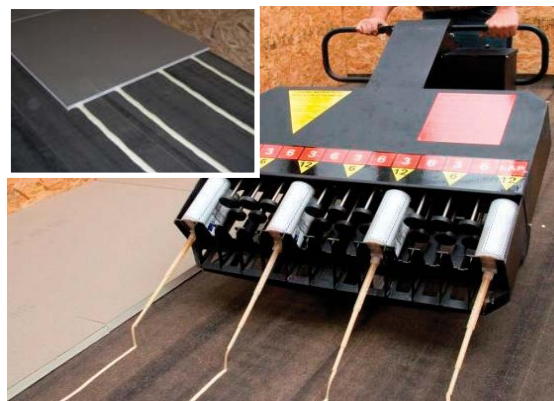
STORAGE

Keep temperature of contents between 65°F-85°F (18°C-29°C) 24 hours prior to use. Do not store in direct sunlight or temperatures higher than 90°F (32°C).

IKO MILLENNIUM ADHESIVE

Features	Benefits
Ready to use	Requires no mixing, reduces labour costs
Rapid cure	Sets in minutes
No temperature restrictions*	Suitable for all climates
One Step™ technology	Easy to apply
Solvent free	VOC free, no odours, non-flammable
Elastomeric	Remains flexible, absorbs stresses
Low rise foam	Accommodates minor surface irregularities
Replaces fasteners	Minimizes penetrations and deck corrosion

* Refers to Millennium Adhesive Cartridges



PG-1 PUMP GRADE MILLENNIUM ADHESIVE

The IKO Millennium PG-1 Pump Grade 2-Part Insulation Adhesive Box Set is a two component, VOC free, all purpose, low rise polyurethane foamable adhesive that is packaged in bulk for quick and easy application. The Low Pressure Single Bead Adhesive Pump Cart equally mixes Part 1 and Part 2 of the adhesive for consistent application each and every time.



SELF ADHERING ADHESIVES

IKO S.A.M. ADHESIVE SOLVENT BASED SURFACE PREP



IKO S.A.M. ADHESIVE • SOLVENT BASED SURFACE PREP

IKO S.A.M. Adhesive is a quick-drying, solvent-based surface preparation for use with IKO self-adhering roofing membranes or AquaBarrier™ self-adhering membranes. It dries to a high tack, providing excellent adhesion properties during the application process, and is especially effective on vertical surfaces. It is suitable for use on most substrates including wood, glass mat/gypsum core sheathing, masonry, concrete and metal. IKO S.A.M. Adhesive may be applied by using a roller or by mechanically spraying. Drying time will depend on the ambient temperature and humidity during application.

Features and Benefits

- Easy Application: mix and roll apply.
- Easy Clean-up: mineral spirits.
- Can be used with any IKO self-adhering roofing membrane or AquaBarrier™ self-adhering membrane.
- Compatible with all IKO roofing products.

IKO S.A.M. ADHESIVE



CHARACTERISTICS • IKO S.A.M. ADHESIVE

		Units	Typical Value
Colour		-	Gold
Solids by Weight : +/-3%		%	35 - 38
Viscosity (Brookfield) Spindle #2 20 RPM @ 25°C		-	200 - 400
Specific Gravity +/- 0.010		cps	0.80
Coverage (Approximate)		m ² /L (ft ² /gal)	3 to 6 (122 to 244)
Drying Time*	Until tacky	min.	30
	Until set	min	60
Application Temperature		°C* (°F*)	-10 to 40
Service Temperature		°C (°F)	-40 to 66

*Drying time will be longer at lower temperatures and shorter at higher temperatures. Note: All values shown are approximate.

SELF ADHERING ADHESIVES

IKO S.A.M. ADHESIVE LVC (LOW VOC)

IKO S.A.M. ADHESIVE LVC • SOLVENT BASED SURFACE PREP

IKO S.A.M. Adhesive LVC is a low VOC solvent-based primer for use with IKO self-adhering roofing membranes or AquaBarrier™ self-adhering membranes. It dries to a high tack, providing excellent adhesion properties during the application process, especially effective on vertical surfaces. IKO S.A.M. Adhesive LVC should always be used in well-ventilated conditions and kept away from all sources of potential ignition. It is suitable for use on most substrates including wood, glass mat, gypsum core sheathing, masonry, concrete and metal. IKO S.A.M. Adhesive LVC may be applied by using a brush, roller or by mechanically spraying. Drying time will depend on the ambient temperature and humidity during application. All substrates should be clean, dry and free from dust, dirt, oil and grease. IKO S.A.M. Adhesive LVC cleans up easily with mineral spirits. Available in 17L (4.5 US Gal.) pails.

Features and Benefits

- Easy Application: mix and roll apply.
- Easy Clean-up: mineral spirits.
- Can be used with any IKO self-adhering roofing membrane or AquaBarrier™ self-adhering membrane.
- Compatible with all IKO roofing products.



IKO S.A.M. ADHESIVE LVC



CHARACTERISTICS • IKO S.A.M. ADHESIVE LVC

		Units	Typical Value
Colour		-	Green
SOLIDS BY WEIGHT: +/- 3%		%	34.5-37.5
VISCOSITY:		cps	275-375
DENSITY: +/- 0.010		g/ml	0.872
Coverage (Approximate)		m ² /L (ft ² /gal)	6 (250)
Drying Time*	Until tacky	min.	30 - 45
	Until set	min	60
Application Temperature		°C*	-12 to 40
VOC:		g/L	250 max.

*Drying time will be longer at lower temperatures and shorter at higher temperatures. Note: All values shown are approximate.

IKO ASPHALT PRIMERS



IKO MOD-BIT PRIMER

- Solvent-based.
- Acceptable surfaces include concrete, masonry, wood, gypsum, metal and asphalt roofing.
- Prepare surfaces for torching and mopping membranes.
- Quick-drying.
- Enhanced membrane adhesion.
- Applied with brush, roller or spray.
- Application temperature $> -12^{\circ}\text{C}$.
- Coverage approximately 4-7 m^2/L (0.4-0.6 gal/100 ft^2)*.
- Dry time approximately 1 hour.

IKO STANDARD ASPHALT PRIMER

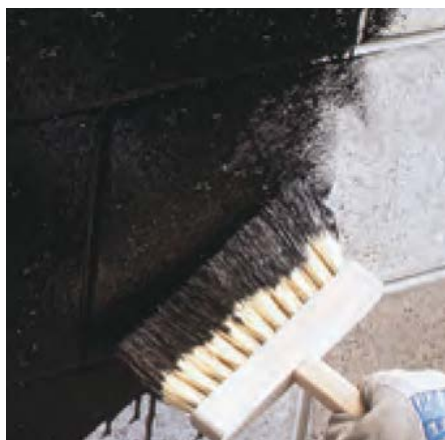
- Solvent-based.
- Acceptable substrates include concrete, masonry, wood, gypsum, metal and asphalt roofing.
- Prepare surfaces prior to application of hot asphalt.
- Applied with roller, brush or spray.
- Application temperature $> -12^{\circ}\text{C}$.
- Coverage approximately 1.5-2.4 m^2/L (1-1.7 gal/100 ft^2)*.
- Dry time approximately 2-4 hours.



IKO SPRAY PRIMER

- Solvent-based.
- Acceptable surfaces include concrete, masonry, wood, gypsum, metal and asphalt roofing.
- 482 g spray aerosol can.
- Application temperature $> -10^{\circ}\text{C}$.
- Coverage approximately 3 m^2 (32 ft^2) per can*.
- Fast-drying - 3 minutes to touch and 60 minutes to complete dry.

* Depending on the porosity of the substrate.



MS DETAIL SINGLE COMPONENT INSTANT FLASHINGS USING IKO MS DETAIL

IKO MS DETAIL

IKO MS Detail is ideal for all those hard-to-flash areas on a roof. It's a fast, convenient, single-component liquid membrane in a can.

MS (Modified Silicone) technology makes all this possible. This liquid-applied grey-coloured membrane requires nothing more than transient water vapour in the air to cure to a rubber-like consistency.

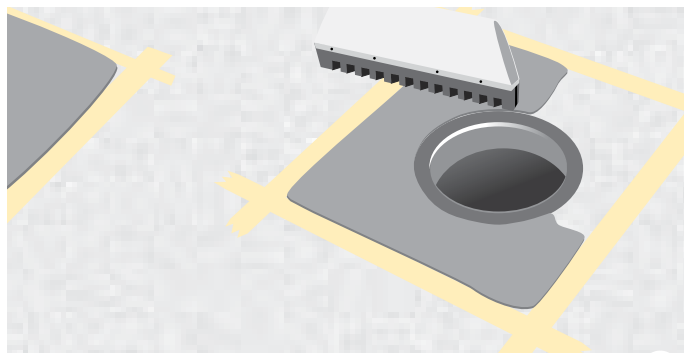
IKO MS Detail:

- Essentially inert with no organic content.
- Can be applied to almost any substrate.
- Suitable for exterior exposure.
- Resistant to UV radiation.
- Will not support organic growth.
- Contains no solvents or VOCs.
- Has a long shelf life due to packaging.
- Allows easy clean-up with mineral spirits.
- Can be handled, stored and shipped safely.
- Offers quick set-up with full cure in 24 hours.

IKO MS Detail has excellent thermal stability with high tensile strength and elongation. This makes for a tough weatherproof membrane that can withstand movement on exterior details. Being a liquid, it is extremely forgiving of complex details making it ideal for sealing around odd shapes and sizes of fittings.

Typically applied with a trowel, brush or roller, IKO MS Detail will cure to a thickness of about 60 mils (1.5 mm). A reinforcement of polyester mesh is recommended when spanning gaps greater than 1/8".

IKO MS Detail can be cleaned before curing with mineral spirits. After it has cured, it cannot easily be removed and forms a resistant surface to most common solvents.



AQUABARRIER™

RELY ON IKO FOR SUPERIOR BUILDING ENVELOPE INTEGRITY

IKO AquaBarrier™ AVB, IKO AquaBarrier™ FP, IKO AquaBarrier™ TWF, IKO AquaBarrier™ TG, and IKO AquaBarrier™ Tapes membranes are key components in air/vapour barrier and waterproofing systems.

They are engineered to meet, or exceed, industry standards for high performance construction membranes.

AQUABARRIER™ AVB

AQUABARRIER™ AVB - LOW TEMP

Commercial Air and Vapour Barrier Wall Membrane

IKO AquaBarrier™ AVB is a self-adhesive, cold-applied, SBS modified composite sheet membrane designed to act as an air and vapour barrier in a variety of wall systems.

Uses

- Masonry cavity walls with block back-up
- Shear poured concrete walls
- Metal cladding systems
- Curtain walls
- Rain screen walls
- EIFS Systems
- Available in AVB 18", 24", 36" - 40 mils
- Available in AVB - Low Temp 18", 24", 36" - 40 mils

AQUABARRIER™ FP

Foundation Protection Waterproofing Membrane

IKO AquaBarrier™ FP is a self-adhesive, cold-applied, SBS modified composite sheet membrane designed to provide long-lasting and dependable primary waterproofing and foundation protection from the damaging effects of water.

Uses

- ICF Systems
- Balconies
- Plaza Decks
- Bridge Decks
- Tunnels
- Planters
- Parking Decks
- Foundation Walls



AQUABARRIER™ TWF

Through Wall Flashing Membrane

IKO AquaBarrier™ TWF is a self-adhering, cold-applied, SBS modified composite air/vapour membrane for use in wall flashing systems. Superior flashing protection.

Uses

- Stone and precast lintels
- Shelf angles used to support decorative accents
- Separation layers between materials

AQUABARRIER™ TG

Torch Grade Waterproofing and Air/Vapour Barrier Membrane

IKO AquaBarrier™ TG is a heat-welded SBS membrane designed for use as either the air/vapour barrier or waterproofing in building systems.

Uses

- Planters
- Plaza Decks
- Tunnels
- Parking Decks
- Curtain walls
- Shear poured concrete walls
- Metal cladding systems
- Masonry cavity walls
- Balconies
- Bridge Decks
- Foundation Walls
- Rain screen walls

AQUABARRIER™ TAPES

Residential Self-Adhering Flashing Tapes

IKO AquaBarrier™ Tapes are self-adhering, cold-applied SBS modified composite sheet membranes that provide an effective barrier against water, moisture vapour and air leakage in a variety of flashing details in all climates. They are easy to apply and provide the assurance of factory-controlled thickness in convenient pre-cut widths (3", 6", 9" and 12").

Uses

- Window and Door Openings
- Wall-to-Wall Tie-Ins
- Sheathing/Sill "Splashback" Area
- Corner Boards
- Deck-to-Wall Intersections
- Sheathing Panel Seams
- Foundation/Sill Capillary Break

ACCESSORIES

IKO S.A.M. Adhesive (Solvent-Based)
IKO AquaBarrier™ Mastic



Thank you for considering IKO Premium Roofing products.

For additional information on IKO's full line of superior Commercial/Industrial Roofing and Waterproofing products please call: **1-855-IKO-ROOF** (1-855-456-7663), or visit our web site at: www.iko.com

Note: The physical properties of the products described in this catalogue represent average typical results obtained by testing our products according to accepted industry test methods. These values are subject to normal manufacturing variations, and are supplied as a technical guideline only; they may be subject to change without notice. Current product specifications can be confirmed by contacting your local IKO Technical Representative.

Also, the guide specifications contained herein are offered as general information for the design and installation of IKO roof assemblies. IKO Industries Limited is a supplier of materials, and we cannot assume liability for errors in roof design, engineering, or application. The architect, contractor, and/or building owner's representative must verify all dimensions, details and suitability of roof design.

Note: All values shown are approximate. Product and colour availability subject to shipping area. The information in this document is subject to change without notice. IKO assumes no responsibility for errors that may appear in this document.

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