4 Product information

In addition to a vast offering of UltraPly™ TPO roofing membranes, we have developed a complete range of products including pre-shaped TPO flashings, fasteners, fastening plates, adhesives, sealants, cleaning agents, vapor barriers, insulation boards, cover boards and a variety of other roofing accessories to build a homogeneous UltraPly TPO roofing system. Each component has been carefully selected to offer the performance required by local standards and specifications, while being compatible with the various roofing designs outlined in this document.

This chapter contains a brief description of the products supplied by Holcim Solutions and Products. As these products and their details are updated frequently, please visit **www.HolcimElevate.com** to obtain the latest version of the respective Technical Information Sheets (TIS) and Safety Data Sheets (SDS).

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4.1 Roofing membranes

ULTRAPLY TPO MEMBRANE

Synthetic membrane made of flexible thermoplastic polyolefin (TPO) and produced with a polyester weft inserted reinforcement. The base polymer TPO is made from the incorporation of an ethylene propylene rubber into a thermoplastic matrix of polypropylene. This results in a membrane with both elastomeric and thermoplastic properties.

SPEC.	THICKNESS	WIDTH	LENGTH	WEIGHT	COLOR
EU sizes	1.1 mm	1.52m-2.44m-2.64m-3.05m	30.50 m	1.14 kg/m^2	white or gray
	1.2 mm	1.00 m–1.50 m–2.00 m	30.50 m	1.23 kg/m^2	
	1.5 mm	1.00 m–1.50 m–2.00 m–3.05 m	30.50 m	1.52 kg/m^2	
	1.8 mm	1.00 m–1.50 m–2.00 m	30.50 m	1.81 kg/m^2	
	2.0 mm	1.50	30.50 m	2.06 kg/m^2	
US sizes	1.1 mm	1.52 m–2.44 m–3.05 m	30.50 m	1.14 kg/m^2	
	1.5 mm	1.52 m–2.44 m–3.05 m	30.50 m	1.52 kg/m^2	

ULTRAPLY TPO UNSUPPORTED FLASHING

Non-reinforced synthetic membrane (width 600 mm) made of flexible thermoplastic polyolefin (TPO) and designed for flashing specific roofing details (penetrations, T-joints and curbs) where application of reinforced membrane or pre-formed UltraPly TPO products is not appropriate.

4.2 Pre-shaped flashings

ULTRAPLY TPO INSIDE/ OUTSIDE CORNERS

Pre-shaped pieces made by extrusion molding of flexible thermoplastic polyolefin and specifically designed to flash inside and outside corners of curbs, parapets and scuppers. They may also be used as a square tube flashing by using four outside corners. For ease of application, the UltraPly TPO Inside/ Outside Corners come as pre-cut, individual pieces.

ULTRAPLY TPO PIPE FLASHING

Pre-shaped pieces made by extrusion molding of flexible thermoplastic polyolefin and specifically designed to flash round penetrations with a diameter between 25 and 200 mm that are accessible at the top. Each piece will fit penetrations of different sizes and shall therefore be cut at the correct (size) ring to insure a tight fit.

ULTRAPLY TPO T-JOINT COVER

Square pieces of non-reinforced TPO membrane designed to cover and seal all T-joints formed at seam intersections of UltraPly TPO membranes that might be required when using thicker membrane thicknesses. These pieces can also be used to repair small punctures of the field membrane

4.3 Products for mechanical attachment

ALL-PURPOSE FASTENER

Carbon hardened steel screw with corrosion protection designed to be used in combination with HD seam plates, batten strips and termination bars for the mechanical attachment of UltraPly TPO membranes to steel, plywood and timber decks. In addition, they are used in combination with insulation fastening plates to attach insulation and/or cover boards.

HEAVY-DUTY FASTENER

Carbon hardened steel screw with corrosion protection specially designed for roofing applications that require outstanding system performance. They are used in combination with HD seam plates, batten strips and termination bars for the mechanical attachment of UltraPly TPO membranes to steel, wood, concrete and other decks. In addition, they are used in combination with insulation fastening plates to attach insulation and/or cover boards.

INSULATION FASTENING PLATE

Round metal fastening plate designed for the mechanical attachment of insulation and/or cover boards. to approved substrates. These plates provide a flat and smooth finishing. Because of its specific shape, the head of the Elevate fastener is recessed. This limits the risk for membrane puncturing. The insulation fastening plates cannot be used for membrane attachment.

HD SEAM PLATE

Round metal fastening plate with teeth designed for the mechanical attachment of UltraPly TPO membranes to approved substrates. They are used in combination with All Purpose or Heavy Duty Fasteners.

ALUMINIUM TERMINATION BAR

Aluminium profile in C-shape designed for the attachment and termination of UltraPly TPO roofing membranes against walls with a smooth and even finishing surface such as concrete, steel, etc.

METAL BATTEN BAR

Metal strip designed for the mechanical attachment of UltraPly TPO roofing membranes to approved substrates. They can be used as an alternative to HD Seam Plates for the attachment of UltraPly TPO membranes and are used to mechanically attach UltraPly TPO membranes at the top of flashing details.

4.4 Adhesives

ULTRAPLY BONDING ADHESIVE

Solvent-based contact adhesive designed for bonding UltraPly TPO roofing membranes and UltraPly Bonding Adhesive to approved insulation and cover boards, wood, masonry, metal and other acceptable substrates.

BONDING ADHESIVE BA-2012

Solvent-based contact adhesive designed for bonding UltraPly TPO membranes to approved insulation and cover boards, in addition to wood, metal, masonry and other acceptable substrates.

BONDING ADHESIVE BA-2012 S/TF

Sprayable solvent-based contact adhesive designed for bonding UltraPly TPO membranes on vertical upstands to approved insulation and cover boards, in addition to wood, metal, masonry and other acceptable substrates.

I.S.O. TWIN PACK INSULATION ADHESIVE

Two-component low-rise polyurethane adhesive designed for anchoring acceptable roof insulation and cover boards to an acceptable substrate, as well as for adhering multiple layers of insulation. It is solvent-free and VOC-free and contains no harmful HCFC or CFCs.

4.5 Sealants

ULTRAPLY TPO CUT EDGE SEALANT

Sealant used to seal and protect all cut edges of reinforced UltraPly TPO membranes and Walkway Pads where the polyester reinforcement is exposed.

ULTRAPLY TPO GENERAL PURPOSE SEALANT

Sealant with an excellent adhesion to a variety of substrates, used as a waterproofing sealant in specific details of UltraPly TPO systems such as the top of Termination Bars, Pipe Flashings, etc.

WATER-BLOCK SEAL (S-20)

Sealant designed to provide a watertight seal in specific system details such as drains, scuppers, wall terminations and others. It functions only under compression and must be protected against UV.

POURABLE SEALER S-10

Two-component sealer designed to create a watertight seal around small pipe penetrations, clusters of pipes, structural beams etc. The sealant is applied in a penetration pocket detail.

4.6 Cleaning agents and tools

SPLICE WASH

Product designed to clean and prepare UltraPly TPO roofing membranes, flashings and accessories prior to splicing or welding.

CLEANER C-20

Alcohol-based degreaser with extremely fast evaporation properties, designed for efficiently removing all types of Elevate adhesives, sealants and other types of contamination from UltraPly TPO membranes, metal and many other solvent-resistant surfaces.

QUICKSCRUBBER KIT

Kit including a handle and scrubbing pads that can be used to remove crusted dirt from the UltraPly TPO membrane.

SINGLE-PLY PRIMER

A solvent-based primer designed to clean and prepare the Elevate TPO membrane and substrates that are to receive a QuickSeam product or application of Pourable Sealer S-10. Single-Ply QuickPrime Primer must be applied with a QuickScrubber™ tool.

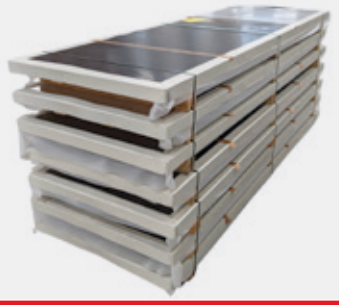
QS TPO FLASHING

A strip of non-reinforced membrane made of flexible thermoplastic polyolefin that is laminated to a white cured self-adhering seam tape and is used to flash roof edge profiles.

4.7 Other accessories

ULTRAPLY TPO COATED METAL

Sheet made from non-reinforced thermoplastic polyolefin membrane that is factory laminated to a hot-dipped galvanized steel sheet. This product can be used to produce metal edge profiles. UltraPly TPO membranes can be welded directly onto the coated side of the UltraPly TPO Coated Metal.



ULTRAPLY TPO WALKWAY PAD

Walkway made of flexible thermoplastic polyolefin and produced with a polyester weft inserted reinforcement. It has a white, textured, slip-resistant top surface and a smooth bottom surface. Installation of Walkway Pads is required to protect the roofing system from damage in areas with intensive rooftop traffic (hatches, doorways, ladders, roofs subject to periodic traffic for maintenance of technical equipment, etc.).

ULTRAPLY TPO PENETRATION POCKET KIT

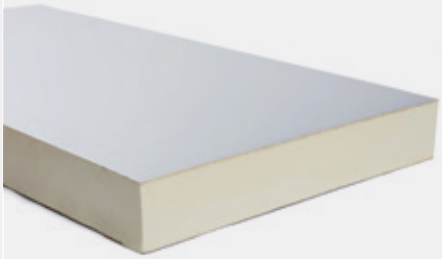
Kit designed for flashing complicated roofing details such as small pipe penetrations, a group of small penetrations with limited intermediate spacing and small profiles. The complete kit consists of the following products: 6 PVC rings (nominal 152 mm ID), 6 UltraPly TPO Penetration Pockets, two heavy-duty stir sticks and a 0.1 l can of Single-Ply QuickPrime primer. The Elevate Pourable Sealer is not packaged with the kit, but must be used to complete the installation.

4.8 Insulation and cover boards

ELEVATE PIR INSULATION

Closed-cell polyisocyanurate (PIR) insulation board laminated on both sides to a gastight multi-layered aluminium complex facer or mineral glass-fleece facer. Holcim Solutions and Products provides boards that are suitable for use on mechanically fastened, fully adhered and ballasted systems.

- Thickness: ranging from 30 to 160 mm
- Dimensions: 600 x 1200 - 1200 x 1200 - 1200 x 2400 mm
- Edges: straight or rebate



ISOGARD HD COVER BOARD

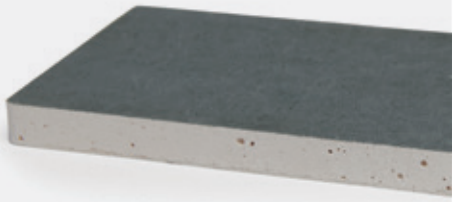
Thin, lightweight, high-density, closed-cell polyisocyanurate board with a coated fiberglass facer suitable for use on mechanically fastened, fully adhered and induction welded systems.

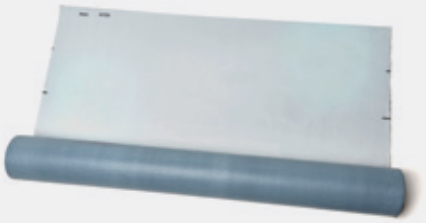
- Thickness: 12.7 mm
- Dimensions: 1.22 m x 2.25 m

DENSDECK® PRIME ROOF BOARD

Non-structural gypsum core board with a primed fiberglass mat facer suitable for use on mechanically fastened, fully adhered and induction welded systems.

- Thickness: 6.4 - 12.7 - 15.9 mm
- Dimensions: 1.22 m x 2.25 m



4.9 Vapor barrier

V-GARD VAPOR CONTROL MEMBRANE	
Self-adhesive bituminous membrane designed for use as a vapor control layer in Elevate roofing systems. It consists of a self-adhesive low-thickness bituminous compound, self-protected by a reinforced aluminium foil and a fiberglass net with high ultimate strength. V-Gard can be installed on concrete, wood, gypsum board, steel deck and existing bituminous roofs.