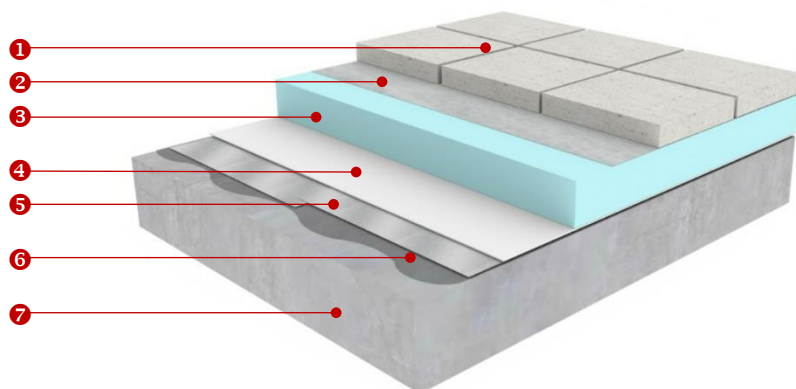


## UltraPly™ TPO Roof Single-Ply Roofing System Inverted Roof System



The Elevate Inverted System is a variation of the conventional ballasted system. It is ideal for roofs with regular traffic, or roofs in severe weather climates. It can be applied on any building that can accommodate the extra load of the ballast and where the roof slope does not exceed 10%.

The concrete deck **7** is laid to falls designed to achieve a minimum finished slope as per local requirement to encourage efficient roof drainage.

A vapor control layer **5** is placed on top of the concrete deck (if required) and will protect the waterproofing membrane. Elevate offers **V-Gard** with self-adhesive bituminous backing/reinforced aluminium foil vapor control layer. For better performance, the concrete deck can be primed with **SA-19 Primer** **6** in preparation for application of the vapor control layer.

The **UltraPly TPO** Single Ply Roofing Membrane **4** is loose laid over the vapor control layer.

Extruded Polystyrene (XPS) insulation board **3** (of appropriate thickness to achieve the required roof thermal performance) is loose laid directly over the UltraPly TPO membrane.

A geotextile protection mat (water flow reducing layer) **2** is placed over the insulation board.

The ballast layer, **1** are placed on top of the geotextile protection mat. The minimum weight of ballast material required for this system is 50 kg/m<sup>2</sup>. More ballast weight may be required for roofs with higher wind load.

### Inverted System Features Include:

- Circular System
- Low installation cost
- Use of large TPO sheets up to 3.05m
- Fewer seams
- Fast installation
- Large choice of compatible substrates
- Excellent durability
- Flexibility for upgrading of insulation in reroofing projects

### UltraPly™ TPO Features Include:

- Weft Scrim Reinforcement for increased durability
- High Flexibility at low temperatures (down to -40°C)
- Hot air welded seams
- UV Resistant for long service life
- Environmentally friendly
- Heat reflective, energy efficient
- May only be installed by Elevate-trained, Authorised and Licensed Contractors

### Elevate System Components:

- **UltraPly TPO**
- **V-Gard Vapor Control layer**
- **SA-19 Primer**

## Specification Details & Options

Membrane	Thickness	Colours	Roll sizes:
UltraPly TPO	1.1mm	White, Grey	1.52m, 2.44m, 2.64m*, 3.05m x 30.50m
UltraPly TPO	1.2mm	White, Grey	1.00m, 1.50m, 2.00m x 30.50m
UltraPly TPO	1.5mm	White, Grey	1.00m, 1.50m, 2.00m, 2.44m*, 3.05m* x 30.50m
UltraPly TPO	1.8mm	White, Grey	1.00m, 1.50m, 2.00m x 30.50m

\*In white only

The UltraPly TPO single-ply waterproofing is a flexible thermoplastic polyolefin membrane, incorporating ethylene-propylene rubber into a polypropylene matrix, with a polyester weft-inserted scrim reinforcement, manufactured in a ISO9001 registered facility.

### Specification compliance:

UL Classified/ FM Approved

ASTM D 6878/ EN 13956 (CE Mark)

7500 hrs of Artificial Ageing as per EN 1297

## Waterproofing Details

Lap Splices		75mm minimum overlap with welded seam
Base Tie-in	1	UltraPly TPO membrane mechanically attached to the deck with HD seam plates & appropriate fasteners @300mm max. o.c.
	2	UltraPly TPO membrane mechanically attached to the upstand with HD seam plates & appropriate fasteners @300mm max. o.c.
Flashings		Fully adhered to all substrates with UltraPly TPO Bonding Adhesive or BA-2012
Corners	1	Corners formed using UltraPly TPO Pre-moulded inside/outside corner
	2	Corners field-fabricated using UltraPly TPO Unsupported Flashing
Pipe penetrations		Flash with pre-moulded UltraPly TPO Pipe Flashing, field flashing using UltraPly TPO Unsupported Flashing or UltraPly TPO Penetration Pocket Kit
Drains	1	Water Block sealant installed between membrane and outlet bowl. Membrane mechanically secured to outlet using integral clamping ring
	2	Insert outlet bedded on Water Block Sealant, secured & flashed with QuickSeam Flashing
Wall Terminations	1	Termination bar, fastened @ 200mm max. o.c. with Water Block Sealant and GP Sealant installed along top edge
	2	Metal batten bar fastened @ 150mm max. o.c. with surface mounted or inserted metal counterflashing protection

## Green Building Rating Schemes

Elevate is a leading BREEAM and LEED advocate and is pleased to offer roofing, lining and insulation products which contribute to achieve high ratings. For an overview of the standards set by both BREEAM and LEED and how Elevate products can minimize your environmental impact and maximize building value, you may contact your local Elevate sales representative.

<b>BREEAM</b>	Up to <b>13 credits</b> can be contributed by using the UltraPly™ TPO roof Inverted System, as per BREEAM Green Building Rating Scheme.
<b>LEED</b>	Up to <b>19 credits</b> can be contributed by using the UltraPly™ TPO roof Inverted System, as per LEED Green Building Rating Scheme.

Note: This document is meant only to highlight Elevate products and specifications based on latest knowledge and experience and is subject to change without notice. Above mentioned values are based on tested samples and may vary within applicable tolerances. For latest and complete product and detail information, please refer to the technical information posted on [www.holcimelevate.com](http://www.holcimelevate.com). Holcim Solutions and Products EMEA BV ("Holcim") takes responsibility for furnishing quality materials which meet Holcim's published product specifications. As neither Holcim itself nor its representatives practice architecture, Holcim offers no opinion on and expressly disclaims any responsibility for the soundness of any structure on which its products may be applied. The selection of the appropriate product and its correct application is the responsibility of the customer and not of Holcim. No Holcim Representative is authorized to vary this disclaimer.