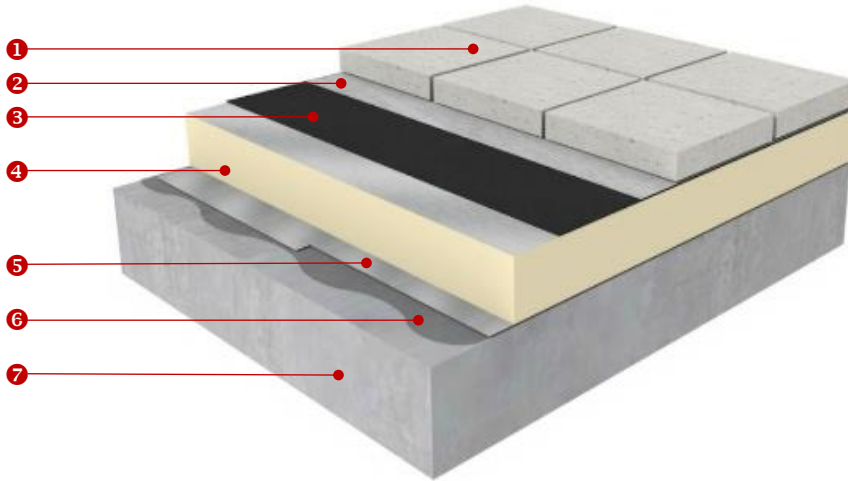


## RubberGard™ EPDM Single Ply Roofing System Ballasted System (Terrace)



The Elevate EPDM Ballasted System is an economical EPDM Roofing System, suitable for a wide variety of buildings. 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 restrict the passage of moisture vapour up into the insulation layer where it could otherwise condense and cause damage. Elevate offers **V-Gard** with self-adhesive bituminous backing 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.

Elevate **ISOGARD** Polyiso (PIR) roof insulation boards **4** (of appropriate thickness to achieve the required roof U-value) is loose laid over the substrate.

The **RubberGard EPDM** Single Ply Roofing Membrane **3** is loose laid over ISOGARD Polyiso (PIR) roof insulation board on the horizontal roof area.

A geotextile protection mat **2** is placed over the RubberGard EPDM membrane to avoid any damage to waterproofing layer. **1** The ballast layer, tiles in this case, 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.

### Ballasted System Features Include:

- Circular System
- Low installation cost
- Use of large EPDM sheets
- Fewer seams
- Fast installation
- Large choice of compatible substrates
- Excellent fire rating
- Superb weathering resistance

### RubberGard™ EPDM Features Include:

- > 300% elasticity to cope with building & thermal movement
- High Flexibility at low temperatures (down to -45°C)
- Large, seamless sheets – less detailing onsite, faster installation
- UV Resistant for long service life
- Environmentally friendly
- May only be installed by Elevate-trained, Authorised and Licensed Contractors

### Elevate System Components:

- RubberGard EPDM
- ISOGARD AK PIR
- ISOGARD MG PIR
- V-Gard Vapor Control layer
- SA-19 Primer

## Specification Details & Options

Membrane	Thickness
RubberGard EPDM	1.1 mm
RubberGard EPDM	1.5 mm

The single ply waterproofing membrane will be made of 100% cured non-reinforced, Ethylene-Propylene-Diene Terpolymer (EPDM) synthetic rubber, manufactured in a ISO9001 registered facility. The membrane will have minimum unspliced width of 3.05m.

**Specification compliance:**  
 UL Classified/ FM Approved  
 ASTM D 4637/ EN 13956 (CE Mark)  
 7500 hrs of Artificial Ageing as per EN 1297

Thermal insulation	Thickness	Thermal conductivity ( $\lambda$ -value)
ISOGARD AK	Ranging from 30 to 160 mm	0.023 W/m.K
ISOGARD MG	Ranging from 30 to 160 mm	0.025-0.028 W/m.K

Please consult Elevate Technical Services Department for R-Value/U-value calculations as required.

Elevate **ISOGARD AK** insulation board consists of a closed-cell polyiso (PIR) foam core laminated on both sides to a gastight multi-layered aluminium complex.

Elevate **ISOGARD MG** insulation board consists of a closed-cell polyiso (PIR) foam core laminated on both sides to a gasopen mineral glassfibre facer.

**Specification compliance:**  
 EN 13165 (CE Mark)

## Waterproofing Details

Lap Splices		100mm minimum overlap with 76mm QuickSeam Splice Tape
Base Tie-in	1	QuickSeam RPF Strips mechanically attached to the structure with metal batten bars or approved plates & appropriate fasteners @300mm max. o.c.
	2	RubberGard membrane mechanically attached to the structure with metal batten bars & appropriate fasteners @300mm max. o.c.
Flashings		The RubberGard EPDM membrane is fully adhered to all abutments and reveals to masonry with Bonding Adhesive and terminated at a height not less than 150mm above the finished roof level.
Corners	1	QuickSeam FormFlash is used for corner flashing
	2	Folded internal corners are preferred where practical
Pipe penetrations	1	Field-fabricate using QuickSeam FormFlash
	2	Flashing of pipe penetrations with QuickSeam Pipe boots & Conduit Flashing
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 FormFlash or SA Flashing
Wall Terminations	1	Termination bar, fastened @ 200mm max. o.c. with Water Block Sealant and Lap Sealant HS installed along top edge
	2	Metal batten bar fastened @ 150mm max. o.c. with surface mounted or inserted metal counterflashing protection
Surface protection		The RubberGard EPDM membrane will be overlaid with geotextile protection mat of minimum 200 g/m <sup>2</sup> weight, lapped and turned up at all abutments and penetration. Ballast layer will be installed over geotextile or pedestal supports

## Green Building Rating Schemes

Elevate is a leading BREEAM & LEED advocate and is pleased to offer roofing, lining & insulation products which contribute to achieve high ratings. For an overview of the standards set by both BREEAM & 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>24 credits</b> can be contributed by using the RubberGard™ EPDM Roof Ballasted System as per BREEAM Green Building Rating Scheme.
<b>LEED</b>	Up to <b>30 credits</b> can be contributed by using the RubberGard™ EPDM Roof Ballasted 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.