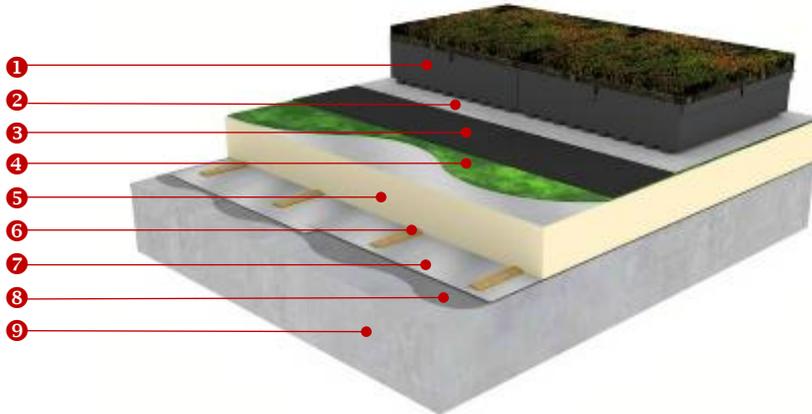


## RubberGard™ EPDM Single Ply Roofing System Fully Adhered System with Extensive Green Roof



The Elevate Fully Adhered System is root resistant as per EN13948, and therefore compatible with extensive green roof systems. It is suitable for use on contoured roofs and roofs with irregular shapes.

The concrete deck **9** is laid to falls designed to achieve a minimum finished slope as per local requirement to encourage efficient roof drainage.

A vapour control layer **7** 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/reinforced aluminium foil vapor control layer. The concrete deck is primed with **SA-19 Primer** **8** in preparation for application of the vapor control layer.

Elevate **ISOGARD** Polyiso (PIR) roof insulation boards **5** (of appropriate thickness to achieve the required roof U-value) are adhered to the vapor control layer on beads of **I.S.O. Twin-Pack** insulation adhesive. **6** The spacing between beads is determined by the wind uplift requirement.

The **RubberGard EPDM** Single Ply Roofing Membrane **3** is fully adhered to the insulation boards using **Elevate Bonding Adhesive**. **4**

Extensive green roof system including a protection mat **1 2** is then installed over the RubberGard EPDM membrane.

### Fully Adhered System Features Include:

- Suitable for unusual roof configurations
- Lightweight system
- Fast coverage
- Aesthetics
- High wind uplift performance
- Perfectly suited for green roofs and roofs with PV installations

### 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 on site, faster installation
- UV Resistant for long service life
- Environmentally friendly
- Root Resistance as per EN13948
- May only be installed by Elevate-trained, Authorised and Licensed Contractors

### Elevate System Components:

- **RubberGard** EPDM
- **BA-2004(T)** Bonding
- **BA-2012** Bonding Adhesive
- **ISOGARD AK** PIR
- **ISOGARD MG** PIR
- **I.S.O. Twin Pack** Adhesive
- **V-Gard** Vapor Control layer
- **SA-19 Primer**

## Specification Details & Options

Membrane	Thickness
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)

Membrane Bonding Adhesives	Application Method
BA-2004(T)	Super spreader or roller applied contact adhesive
BA-2012	Super spreader or roller applied contact adhesive

## Waterproofing Details

Lap Splices	1	100mm minimum overlap with 76mm QuickSeam Splice Tape
	2	For green roofs, lap splices should additionally be treated with a bead of Pourable Sealer. Alternatively, the green roof system must incorporate a separate root barrier membrane consisting of min. 0.4mm LDPE which is overlapped min. 1m at all edges.
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		Extensive green roof system by specialist. Maintain a vegetation-free zone min. 500mm wide, consisting of rounded, river washed pebbles at all perimeters, abutments and penetration details

## 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>27 credits</b> can be contributed by using the RubberGard™ EPDM Roof Fully Adhered System in combination with an Extensive Green Roof, as per BREEAM Green Building Rating Scheme.
<b>LEED</b>	Up to <b>33 credits</b> can be contributed by using the RubberGard™ EPDM Roof Fully Adhered System in combination with an Extensive Green Roof, 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.