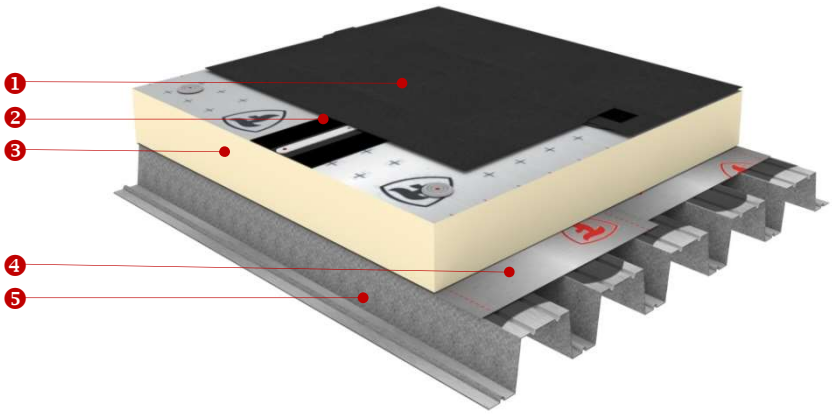
# QUICK SPEC

# RubberGard™ EPDM Single-Ply Roofing System

## MECHANICALLY ATTACHED SYSTEM (RMA)




Firestone's EPDM RMA System is a lightweight, non-penetrating mechanically attached system developed around the QuickSeam™ RMA strip: a strip of reinforced EPDM membrane incorporating two strips of self-adhesive QuickSeam Splice Tape laminated along each edge over the length of the strip.

The profiled steel deck (min. 0.75mm thick) ❺ is laid to falls designed to achieve a minimum finished slope as per local requirement to encourage efficient roof drainage.

A vapor control layer ❹ is placed on top of the steel deck (if required) and will restrict the passage of moisture vapor up into the insulation layer where it could otherwise condense and cause damage. Firestone offers **V-Gard™**, a self-adhesive SBS/polyethylene vapor control layer.

**RESISTA AK** Polyiso (PIR) roof insulation boards ❸ (of appropriate thickness to achieve the required roof U-value) are fastened to the steel deck with metal insulation plates and fasteners.

The **QuickSeam™ RMA** Strips ❷ are secured to the steel deck using approved plates and fasteners. Spacing of the plates and/or fasteners differs to accommodate for wind loadings and are positioned according to the parameters of the wind load calculation based on local or international standards.

The **RubberGard™ EPDM** single-ply roofing membrane ❶ is spliced onto the QuickSeam™ RMA strips using **QuickSeam™ Splice Tape** seaming techniques. The system typically uses 6.10 m and 9.15 m wide panels of RubberGard™ EPDM membrane.

### SYSTEM FEATURES

- Non-penetrating
- Use of large EPDM sheets
- Fewer seams
- Fast coverage
- Lightweight system
- Aesthetics
- High wind uplift performance
- Safe, flame-free installation

### RUBBERGARD™ EPDM FEATURES

- > 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
- Compatible with extensive green roof systems & photovoltaic systems
- May only be installed by Firestone-trained, Authorised and Licensed Contractors

### SYSTEM COMPONENTS

- RubberGard™ EPDM
- QuickSeam™ RMA strip
- RESISTA AK PIR insulation
- V-Gard™ vapor control layer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## Specification Details & Options

| Membrane | Thickness | Grade |
|---|---|---|
| **RubberGard™ EPDM** | 1.1 mm | LS-FR E *(Low Slope Fire Retardant)* |
| **RubberGard™ EPDM** | 1.5 mm | LS-FR E *(Low Slope Fire Retardant)* |
| The RubberGard™ EPDM single-ply waterproofing membrane is made of 100% cured, non-reinforced Ethylene-Propylene-Diene-Terpolymer (EPDM) synthetic rubber, manufactured in an ISO9001 and ISO14001 registered facility. It has a minimum unspliced width of 3.05 m | | |
| **Specification compliance:**<br>UL Classified/ FM Approved<br>ASTM D 4637/ EN 13956 (CE Mark)<br>7500 hrs of Artificial Ageing as per EN 1297 | | |

| Thermal insulation | Thickness | Thermal conductivity (λ-value) |
|---|---|---|
| **RESISTA AK** | Ranging from 30 to 140 mm | 0.023 W/m.K |
| Please consult Firestone's technical department for detailed R-Value/U-value calculations, as required | | |
| Firestone RESISTA AK insulation board consists of a closed-cell polyiso foam core laminated on both sides to a gastight multi-layered aluminium complex. The foam technology uses a HCFC-free blowing agent with a GWP (Global Warming Potential) of less than 5 and zero ODP (Ozone Depletion Potential). | | |
| **Specification compliance:** EN 13165 (CE Mark) | | |

## Waterproofing Details

| | | |
|---|---|---|
| **Lap Splices** | | 100 mm minimum overlap with 76 mm QuickSeam™ Splice Tape |
| **Mechanical Attachment** | | Using QuickSeam™ RMA strip |
| **Base Tie-in** *(required at all membrane angle changes >15%)* | 1 | QuickSeam™ RPF Strips are mechanically attached to the structure with metal batten bars or approved plates and appropriate fasteners @300 mm max. o.c. |
| | 2 | RubberGard™ membrane is mechanically attached to the structure with metal batten bars and appropriate fasteners @300 mm 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 150 mm 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 Flashing |
| **Drains** | 1 | Water-block Seal is installed between membrane and outlet bowl. Membrane is mechanically secured to outlet using integral clamping ring |
| | 2 | Insert outlet bedded on Water-Block Seal, secured and flashed with QuickSeam™ FormFlash or SA Flashing |
| **Wall Terminations** | 1 | Termination bar, fastened @200 mm max. o.c. with Water-Block Seal and Lap Sealant HS installed along top edge |
| | 2 | Metal batten bar fastened @150 mm max. o.c. with surface mounted or inserted metal counterflashing protection |
| **Surface protection** | | QuickSeam™ Walkway Pads to define and protect access routes |

## Green Building Rating Schemes

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

| | |
|---|---|
| **BREEAM®** | By using the RubberGard™ EPDM Roof Mechanically Attached System (RMA) System, up to **29 credits** can be gained as per BREEAM® standards |
| **LEED®** | By using the RubberGard™ EPDM Roof Mechanically Attached System (RMA) System, up to **37 credits** can be gained as per LEED® standards |





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