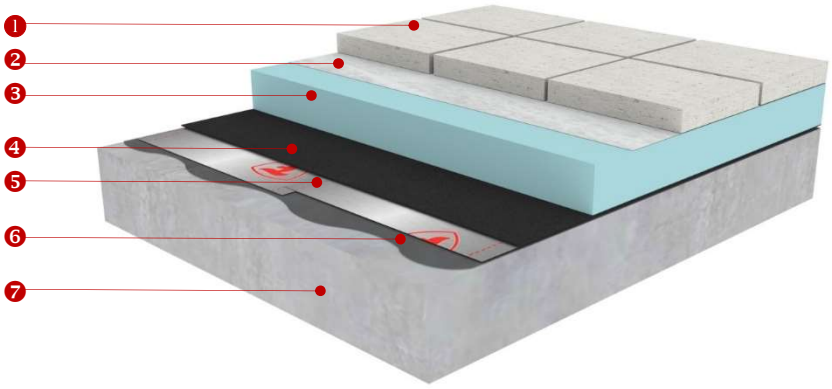
# QUICK SPEC

# RubberGard™ EPDM Single-Ply Roofing System

## INVERTED ROOF SYSTEM




Firestone's 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 ❼ is laid to falls designed to achieve a minimum finished slope as per local requirement to encourage efficient roof drainage.

The concrete deck is primed with **SA-19 Primer** ❻ in preparation for application of the vapor control layer. A vapor control layer ❺ is placed on top of the concrete deck (required) and will protect the waterproofing membrane. Firestone offers **V-Gard™** self-adhesive SBS/polyethylene vapor control layer. Alternatively, an intermediate layer of polyethylene sheet with minimum 0.3 mm thickness can be used.

Firestone's **RubberGard™ EPDM** single-ply roofing membrane ❹ is loose laid over the vapor control layer.

Extruded Polystyrene (XPS) insulation board ❸ (of appropriate thickness to achieve the required roof thermal performance) is loose laid directly over the RubberGard EPDM membrane.

A geotextile protection mat ❷ is placed over the insulation board.

The ballast layer, ❶ tiles in this case, is placed on top of the geotextile protection mat. The minimum weight of the ballast material required for this system is 50 kg/m$^2$. More ballast weight may be required for roofs with higher wind load.

### SYSTEM FEATURES

- Low installation cost
- Use of large EPDM sheets
- Fewer seams
- Fast installation
- Large choice of compatible substrates
- Extra durability
- Flexibility for upgrading of insulation in reroofing projects

### RUBBERGARD™ EPDM FEATURES

- > 300% elasticity to cope with building & thermal movement
- High flexibility at low temperatures (down to -45ºC)
- 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
- V-Gard™ vapor control layer
- SA-19 Primer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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. The membrane will have 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 | | |

## Waterproofing Details

| | | |
|---|---|---|
| **Lap Splices** | | 100 mm minimum overlap with 76 mm QuickSeam Splice Tape |
| **Base Tie-in** *(required at all membrane angle changes) >15%)* | 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 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 @200mm max. o.c. with Water-Block Seal 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 is overlaid with geotextile protection mat of minimum 200 g/m$^2$ weight, lapped and turned up at all abutments and penetration. Ballast layer will be installed over geotextile or pedestal supports. |

## 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 inverted system, up to **15 credits** can be gained as per BREEAM® standards |
| **LEED®** | By using the RubberGard™ EPDM roof inverted system, up to **22 credits** can be gained as per LEED® standards |





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