

## Mechanically Fixed Single Ply EPDM Roofing

### ✓ When to Specify

The Firestone RubberGard® Mechanically Attached System lightweight system is an economical solution especially suitable for large roofs with few penetrations where fast-track installation is essential.

**Firestone**  
BUILDING PRODUCTS  
**NOBODY COVERS YOU BETTER.®**

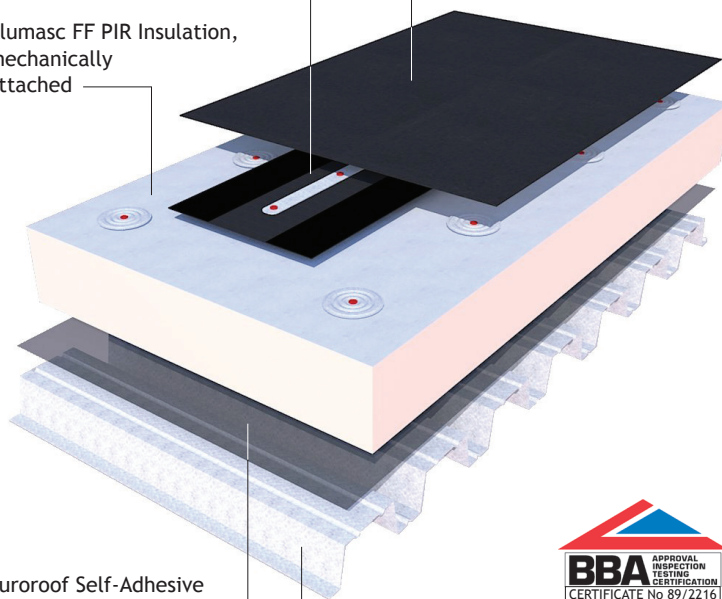
Firestone RubberGard®  
EPDM Single Ply Membrane

Firestone QuickSeam™  
RMA Attachment System

Alumasc FF PIR Insulation,  
mechanically  
attached

Euroroof Self-Adhesive  
Vapour Barrier Plus

Profiled Steel Deck



### ☀ Warranties

Alumasc offers a comprehensive range of warranty options. The typical warranty period for Firestone RubberGard® is 20 years. Installed exclusively by Alumasc Firestone Authorised or Licensed Contractors and underpinned by Alumasc's extensive project support service. Independent insurance backed latent product defect warranties are also available through FSA licensed brokers.

### Key Features

#### Lifespan

According to BBA Certificate No 89/2216, under normal service conditions the system will provide a durable waterproof covering with a service life of at least 20 years. Firestone RubberGard® EPDM membranes have a typical service life in excess of 30 years.

#### Durability

Firestone RubberGard® EPDM offers outstanding resistance to UV degradation and superior mechanical properties such as high elasticity (> 400%) and tensile strength to accommodate building and thermal movement. Excellent static and dynamic puncture resistance combined with abrasion resistance enables EPDM to resist mechanical shocks. RubberGard® EPDM is root resistant to EN 13948.

#### Performance

Firestone QuickSeam™ R.M.A. system provides robust mechanical attachment to compatible substrates that is FM approved for wind uplift resistance and requires no fasteners to actually penetrate the single ply membrane itself, thus affording maximum security and integrity to the waterproofing system.

#### Cost-effective

Firestone RubberGard® EPDM requires little or no maintenance. Even after years of exposure, if damaged the membrane can simply be repaired using the Firestone QuickSeam™ Tape products. This feature combined with the inherent durability and competitive installed cost of Firestone RubberGard® results in a low life-cycle cost.

#### Quality

Firestone RubberGard® EPDM is manufactured and independently assessed against BS EN ISO 9001:2008 Quality Management Standard, ensuring a consistently high performance product. The membrane has been assessed for its properties according to EN 13956 (CE mark).

#### Environment

Manufactured in accordance with the ISO 14001:2004 Environmental Management Standard, Firestone RubberGard® EPDM can benefit BREEAM ratings (e.g. Section MAT5 for responsible sourcing of materials) and contributes to a 'very good' rating in the BRE Green Guide to Specification (an 'A+' rating is achievable when installed on timber or metal decks).

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### Application

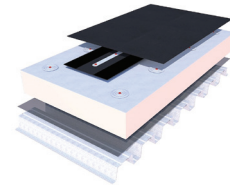
1. Prime the profiled metal deck with Eurorof Contact Adhesive immediately prior to installing the vapour barrier.
2. Apply the Eurorof Self-Adhesive Vapour Barrier Plus to the crowns of the deck, providing edge protection to the insulation board at all perimeters, openings and projections, with 75mm side laps and 100mm end laps.
3. Install Alumasc FF polyisocyanurate insulation, thickness to achieve the target thermal value, secured by mechanical fasteners and plates at a rate and in a pattern as specified, and to resist wind uplift as defined in Eurocode 1: BS EN 1991-1-4:2005.
4. QuickSeam™ R.M.A. Strips are pre-attached to the roof deck using appropriate fasteners and arranged in order to maintain the correct fastener frequency in order to resist wind uplift in all roof zones. A CAD layout plan will be provided to aid the installer in the correct installation of the attachment systems.
5. Unroll the RubberGard® EPDM membranes (without stretching) as close to the required final positions as possible, and allow to relax for a minimum of 30 minutes before attachment or splicing operations.
6. The membranes should be positioned allowing for a sufficient overlap for splicing with the adjoining EPDM membranes at all edges. Layout the membranes in a fashion so that seams are installed to shed water. Fold the membrane back onto itself to expose the substrate.
7. The membrane will be spliced onto R.M.A. strips using QuickPrime Plus primer. Roll the completed splice using a rubber-sleeved, weighted QuickRoller tool to consolidate the adhesion.
8. Adjoining membranes will be spliced together using 76mm (3") QuickSeam™ Splice Tape. The splice area will be prepared using QuickPrime Plus primer. The QuickPrime Plus will be applied using a QuickScrubber pad at a rate of approx. 3.8 litres (1 gallon) per 60 linear metres of splice (2-sided application) and allowed to dry until tacky but with no stringing to finger. A minimum 5mm and maximum of 15mm of the splice tape must remain exposed at the seam edge. The completed seam will be rolled using a 50mm wide silicone roller or a QuickRoller tool.
9. Detail work to be in accordance with the project specification and the Firestone Technical Guidelines.

**NB:** Firestone RubberGard® EPDM single ply roofing systems are exclusively installed by a nationwide network of Firestone Authorised or Licensed Contractors.

*The company pursues a policy of constant product development and information contained in this publication is therefore subject to change without notice.  
The customer is responsible for ensuring that each product is fit for its intended purpose and that the conditions for use are suitable. All quoted data is nominal and subject to production tolerances.*

### System Components

- Firestone RubberGard® EPDM is a fully-cured, synthetic rubber membrane of 1.14mm or 1.52mm thickness. The recommended roll sizes for RMA mechanical attachment system are 6.10m, 7.62m, 9.15m and 12.20m x 30.5m.
- Firestone QuickSeam™ R.M.A. strips are based on reinforced EPDM membrane with self-adhesive QuickSeam™ strips factory laminated to both edges.
- Firestone Coiled Metal Batten Bars, in conjunction with Firestone AP (All Purpose) and HD (Heavy Duty) fasteners are typically used to attach the R.M.A. strips to the roof deck.
- Alumasc FF is a CFC- and HCFC-free polyisocyanurate thermal insulation with foil facing to both faces and is supplied in 600 by 1200mm boards and a range of thicknesses to suit the required thermal value.
- Eurorof Self-Adhesive Vapour Barrier Plus is a high performance vapour barrier, manufactured from 2.5mm thick modified bitumen and contains an integral glass-fibre reinforcement. On the underside, a polyethylene release film covers the self-adhesive coating that will provide a strong bond with the substrate.



### Technical Support

Alumasc Technical Services provide an extensive project support service that includes site surveys, project specifications, performance calculations (e.g. U-values, condensation risk analysis), CAD detail drawings and general technical advice.

#### Contact Alumasc Technical Services via:

☎ +44 (0) 1744 648400

✉ [waterproofing@alumasc-exteriors.co.uk](mailto:waterproofing@alumasc-exteriors.co.uk)

Online resources are available on our website or via the embedded links below:

#### Web Links

- 📄 [Brochures & Datasheets](#)
- 📄 [NBS Specifications](#)
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[www.alumascwaterproofing.co.uk](http://www.alumascwaterproofing.co.uk)