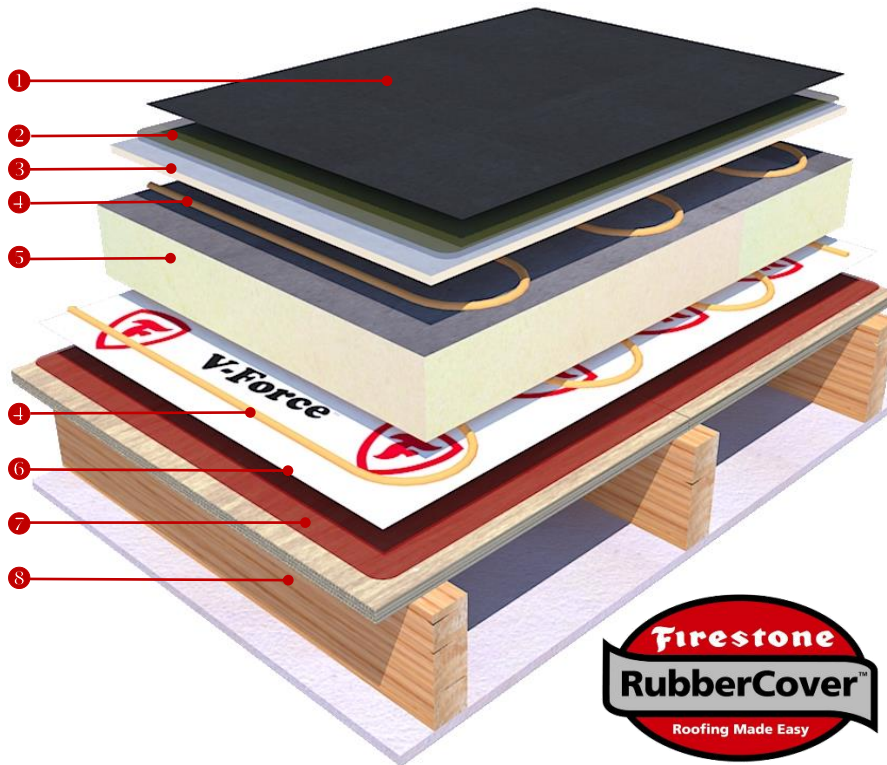


RubberCover™ EPDM Single Ply Roofing System Fully Adhered System – Warm Roof Construction, Plywood Deck



The Firestone Fully Adhered System (F.A.S.) is a lightweight system with outstanding design flexibility. It is suitable for contoured roofs, roofs with irregular shapes and any roof with limited load-bearing capacity.

The exterior grade plywood (or OSB grade 3) deck **8** is laid to falls designed to achieve a minimum finished slope of not less than 1:80 (0.7°) to encourage efficient roof drainage. The deck is primed with **SA-Solvent-Based (SB) Primer 7** in preparation for application of the vapour control layer.

V-Force self-adhesive SBS/polyethylene vapour control layer **6** is adhered to the plywood and will restrict the passage of moisture vapour up into the insulation layer where it could otherwise condense and cause damage. The vapour control is turned up and sealed at all roof abutments and penetrations.

ISO 95 + GL Polyiso insulation boards **5** (of appropriate thickness to achieve the required roof u-value) are fastened to the plywood deck with metal insulation plates & fasteners or adhered to the vapour control layer on beads of **I.S.O. Twin-Pack** insulation adhesive **4**.

An optional high-density **ISOGARD HD** cover board **3** is fastened to the plywood deck with metal insulation plates & fasteners or adhered to the thermal insulation boards on beads of **I.S.O. Twin-Pack** insulation adhesive **4**.

RubberCover EPDM Single Ply Roofing Membrane **1** is fully adhered to the insulation boards using **Bonding Adhesive 2**.

RubberCover™ System Features Include:

- Specifically designed for residential & domestic roofing applications
- Applicable to any slope
- Applicable to unusual roof configurations
- Lightweight
- High wind uplift performance
- Aesthetics
- Safe, heat-free installation

RubberCover™ EPDM Features Include:

- > 300% elasticity to cope with building & thermal movement
- High Flexibility at low temperatures (down to -50°C)
- Large, seamless sheets – less detailing onsite, faster installation
- UV Resistant for long service life (in excess of 50 years)
- Environmentally friendly
- Compatible with extensive green roof systems & photovoltaic systems
- Suitable for flat roofs up to 150m² area

Firestone System Components QuickLinks:

- RubberCover EPDM
- Bonding Adhesive BA-2012
- ISOGARD HD Cover Board
- ISO 95 + GL Insulation
- I.S.O. Twin Pack Adhesive
- Metal Insulation Plates
- All Purpose Fasteners
- V-Force Vapour Control Layer
- SA Solvent-Based (SB) Primer

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Specification Detail & Options

Membrane	Thickness	Grade	Notes
RubberCover EPDM	1.1mm (0.045")	LS-FR (<i>Low Slope Fire Retardant</i>)	F.AC external fire rating (BS:476-3:2004)
		FR (<i>Fire Retardant</i>)	F.AA external fire rating (BS:476-3:2004)
	1.5mm (0.060")	LS-FR (<i>Low Slope Fire Retardant</i>)	F.AC external fire rating (BS:476-3:2004)
		FR (<i>Fire Retardant</i>)	F.AA external fire rating (BS:476-3:2004)

Typical membrane roll size 3.05m x 30.5m. 1.5mm thickness recommended for green roofs & photovoltaic roofs.
External fire resistance rating is based on the warm roof build-up illustrated on the preceding page.

Membrane adhesive	Application Method	Approx. Coverage rate
Bonding Adhesive BA-2012	Roller applied contact adhesive	3m ² per litre (2-sided)
Bonding Adhesive BA-2012S	Spray applied contact adhesive	75m ² per 17l pressurized canister (2-sided)
Bonding Adhesive E	Roller applied contact adhesive	1.5-2.0m ² /litre (2-sided)

Cover Board (Optional)	Thickness	Density	Compressive Strength
ISOGARD HD	12.7mm	80kg/m ³	827kpa

ISOGARD HD enhances the durability of roofs requiring frequent access, green roofs and photovoltaic roofs

Thermal insulation	Thickness	u-value
ISO95 + GL	100mm (4")	0.25W/m ² K
	144mm (<i>make up from 2 layers - 61mm + 82.5mm</i>)	0.18W/m ² K
	165mm (<i>make up from 2 layers - 82.5mm + 82.5mm</i>)	0.16W/m ² K
	184mm (<i>make up from 2 layers - 82.5mm + 101.6mm</i>)	0.14W/m ² K

The above u-value examples are based on the illustration from the preceding page, i.e. use of an adhered cover board, a plywood roof deck with an unventilated void underneath and a plasterboard ceiling.

Please consult Firestone Technical Services Department for other u-value calculations as required.

Insulation/ cover board attachment requirements	Application	Minimum field attachment rates	
Firestone All Purpose Fasteners & Metal Insulation Plates	Fastener must achieve minimum 25mm embedment into plywood deck	Cover Board	12nr per board*
		Insulation Board	8nr per board*
I.S.O. Twin Pack Adhesive	Beads dispensed @ nom. 13mm wide	Beads installed @ 300mm centres*	

Adhesive attachment is unsuitable for roofs >10°. Revert to mechanical attachment on sloped roofs.

*Attachment rates must be confirmed by wind load calculation to BS EN 1991-1-4:2005 Eurocode 1 & National Annex

Vapour control	Application	Side Lap	End Lap	Vapour Resistance
V-Force EU	Fully self-adhered to substrate primed with SA Solvent-Based (SB) Primer.	75mm	150mm	865MNs/g

V-Force EU is suitable for BS5250:2002 building classes 1-4.

Consult Firestone Technical Services Department for applications over high humidity buildings

Waterproofing Details

			Drawing Links
Lap Splices	Membranes close butted and spliced with 152mm (6") QuickSeam Cover Strip		RC-E-LS-1
Base Tie-In	Fully adhered throughout all angle changes		RC-E-BT-1
Flashings	All vertical membrane flashings fully adhered to a height no less than 150mm above the finished roof surface.		
Corners	1	External corner with QuickSeam Flashing & QuickSeam Corner Flashing	RC-E-C-1
	2	Internal Corner with QuickSeam Flashing & QuickSeam Cover Strip	RC-E-C-3
Roof penetrations	1	Pipe Detail using QuickSeam Pipe Flashing	RC-E-P-1
	2	Pipe detail using QuickSeam Flashing	RC-E-P-2
	3	Pipe detail using QuickSeam Cover Strip	RC-E-P-3
Drains	1	Drain formed with EPDM-based drain insert, flashed with QuickSeam Flashing	RC-E-D-1
	2	Drain formed with metal flange, flashed with QuickSeam Flashing	RC-E-D-2
	3	EPDM-based Scupper, flashed with QuickSeam Flashing	RC-E-D-4
	4	Non-flexible Scupper, flashed with QuickSeam Flashing	RC-E-D-6
Roof Edge/ Parapet	1	Standard Roof Edge formed using metal trim and QuickSeam Cover Strip	RC-E-RE-1
	2	External eaves gutter with drip edge, flashed using QuickSeam Cover Strip	RC-E-RE-2
Wall Terminations	1	Membrane terminated beneath concrete coping	RC-E-T-1
	2	Membrane terminated beneath metal coping	RC-E-T-2
	3	Membrane terminated with metal counterflashing detail.	RC-E-T-4
	4	Membrane terminated with metal trim, flashed with QuickSeam Flashing.	RC-E-T-5

NB: Specifications provided for guidance only and subject to change without notice. Always consult www.firestonebpe.co.uk for the latest information. FBPE_LIT_QS_RC_W_P_FAS_01_2015_EN