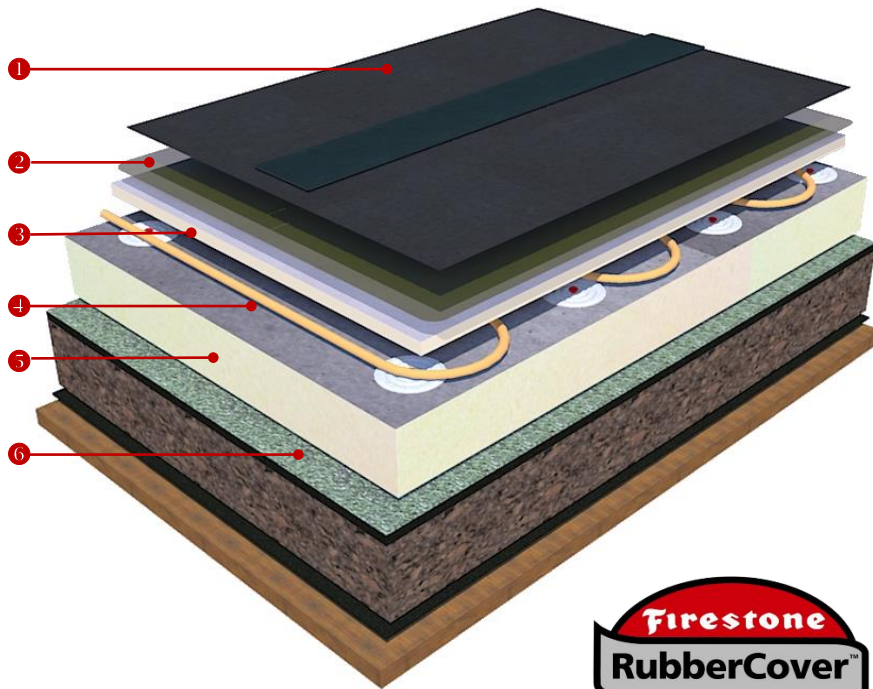


# QuickSpec

## RubberCover™ EPDM Single Ply Roofing System Refurbishment Overlay System, Timber Deck



This overlay system is applicable for installation on roofs where the existing roofing layers are in a reasonable condition, is structurally sound and of sufficient load bearing capacity to support the new roofing system.

The Firestone RubberCover System 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 existing roof covering **⑥** will be prepared for application of the new roof coverings.

Any existing debris will be removed from the surface. Any blisters will be flattened and sealed. Any defective areas of the existing roofing will be removed and made good using appropriate materials.

Optional (where insulation upgrade is also required) **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. Tapered boards may be used to improve the existing roof falls if necessary.

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

*(NB: Consult Firestone Technical Services if it is required to adhere the boards directly to the existing roof coverings).*

**RubberCover EPDM** Single Ply Roofing Membrane **①** is fully adhered to the insulation/ cover 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 100m<sup>2</sup> area

### Firestone System Components QuickLinks:

- RubberCover EPDM
- Bonding Adhesive
- ISOGARD HD Cover Board
- ISO 95 + GL Insulation
- I.S.O. Twin Pack Adhesive
- Metal Insulation Plates
- All Purpose Fasteners

FBPE\_LIT\_QS\_RC\_RF\_FAS\_01\_2014\_EN

# QuickSpec

## 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)

**1.5mm thickness recommended for green roofs & photovoltaic roofs.**

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

Cover Board	Thickness	Density	Compressive Strength
ISOGARD HD	12.7mm	80kg/m <sup>3</sup>	827kpa

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

Thermal insulation (optional)	Standard Uniform Thicknesses*	Thermal conductivity (W/mK)	Thermal resistance m <sup>2</sup> K/W
ISO95 + GL	1" (25.4mm)	0.027	0.90
	2" (50.8mm)	0.028	1.80
	2.5" (63.5mm)	0.028	2.25
	3" (76.2mm)	0.029	2.60
	3.25" (82.6mm)	0.029	2.80
	4.0" (101.4mm)	0.029	3.50

\* For tapered insulation and other thicknesses please contact Firestone Technical Services for further details.  
For detailed u-value calculations and condensation risk analysis contact Firestone Technical Services for further details.

Insulation/ cover board attachment requirements	Application	Minimum field attachment rates	
Firestone All Purpose Fasteners & Metal Insulation Plates	Fastener must achieve minimum 25mm embedment into wooden decks	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

## 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