

RubberGard™ EPDM LSFR Roofing Membrane

1. Description

The Firestone RubberGard™ EPDM LSFR (Low Slope Fire Retardant) membrane is a 100% cured roofing membrane made of a synthetic rubber Ethylene-Propylene-Diene Terpolymer. The sheet is made of two plies of identical compound with good fire performance.



2. Preparation

The roofing structure needs to be stable enough to support the temporary loading. Substrates need to be clean, smooth, dry and free of sharp edges, loose or foreign materials, oil, grease and other materials that may damage the membrane. All surface voids greater than 5 mm wide shall be properly filled with an acceptable fill material.

3. Application

Allow the membrane to relax for approximately 30 minutes before splicing or final securement. Refer to the Firestone guidelines for specific installation instructions.

4. Coverage

The dimensions of the membrane are calculated to cover the substrate, including seam overlaps (100 mm for standard seams - 200 mm for seams with mechanical attachment) and upstands. Provide an additional length (150 mm) at upstands for easy handling.

5. Characteristics

Physical

- Elastomeric membrane with a good combination of high elasticity and tensile strength.
- Good fire-resistance properties.
- Excellent resistance to UV and ozone.
- Retains its elasticity even at temperatures as low as -45°C.
- Resistant to temperature shocks up to 130°C.
- Excellent resistance to acid rains, less resistant to oil products. Contact with mineral and vegetable oils, petroleum based products, hot bitumen and grease must be avoided.



6. Technical Specifications

Physical Properties	Test method	Declared value 1.1 mm	Declared value 1.5 mm
Thickness	EN 1849-2	1.1 mm	1.5 mm
Mass per unit area	EN 1849-2	1.35 kg/m ²	1.85 kg/m ²
Watertightness	EN 1928 (B)	Pass	Pass
Tensile strength (L/T)	EN 12311-2 (B)	≥ 7 N/mm ²	≥ 7 N/mm ²
Elongation (L/T)	EN 12311-2 (B)	≥ 300%	≥ 300%
Resistance to static load	EN 12730 (B)	≥ 20 kg	≥ 20 kg
Resistance to impact	EN 12691 (B)	≥ 1700 mm	≥ 2000 mm
Resistance to impact	EN 12691 (A)	≥ 200 mm	≥ 300 mm
Tear resistance (L/T)	EN 12310-2	≥ 40 N	≥ 40 N
Joint peel resistance	EN 12316-2	≥ 80 N/50 mm	≥ 80 N/50 mm
Joint shear resistance	EN 12317-2	≥ 200 N/50 mm	≥ 200 N/50 mm
UV exposure	EN 1297	Pass (≥ 7500 h)	Pass (≥ 7500 h)
Foldability at low temperature	EN 495-5	≤ -45°C	≤ -45°C
Dimensional stability	EN 1107-2	≤ 0.5%	≤ 0.5%
Reaction to fire	EN 13501-1	E	E
External fire performance (in end-use)	EN 13501-5	B _{ROOF} (t1) B _{ROOF} (t2) B _{ROOF} (t3) B _{ROOF} (t4)	B _{ROOF} (t1) B _{ROOF} (t2) B _{ROOF} (t3) B _{ROOF} (t4)

Note: As European standards continue to develop, please contact Firestone's Technical Department or visit www.firestonebpe.com for the latest updates on physical properties.

7. Packaging / Storage / Shelf life

Thickness	Width	Length	Weight (incl. Packaging)
1.1 mm (0.045")	3.05 m (10')	30.50 m (100')	1.51 kg/m ²
	5.08 m (16.7')		
	6.10 m (20')		
	7.62 m (25')		
	9.15 m (30')		
	12.20 m (40')		
1.5 mm (0.060")	3.05 m (10')	30.50 m (100')	2.10 kg/m ²
	5.08 m (16.7')		
	6.10 m (20')		
	7.62 m (25')		
	9.15 m (30')		
	12.20 m (40')		
	15.25 m (50')		

Note: Membranes may be available in additional panel sizes, please contact your Firestone Representative.

Storage: Store away from sources of punctures and physical damage. Store away from ignition sources and open flame.

Shelf life: Unlimited.

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