

Firestone RubberGard™ EPDM Green Roofing Systems



Putting a garden on your roof is a great way to make better use of city space, protect the environment and save money long term. These vegetative or garden roofs - a roof area of plantings installed above a waterproofing membrane - have become very successful on rooftops around the world.

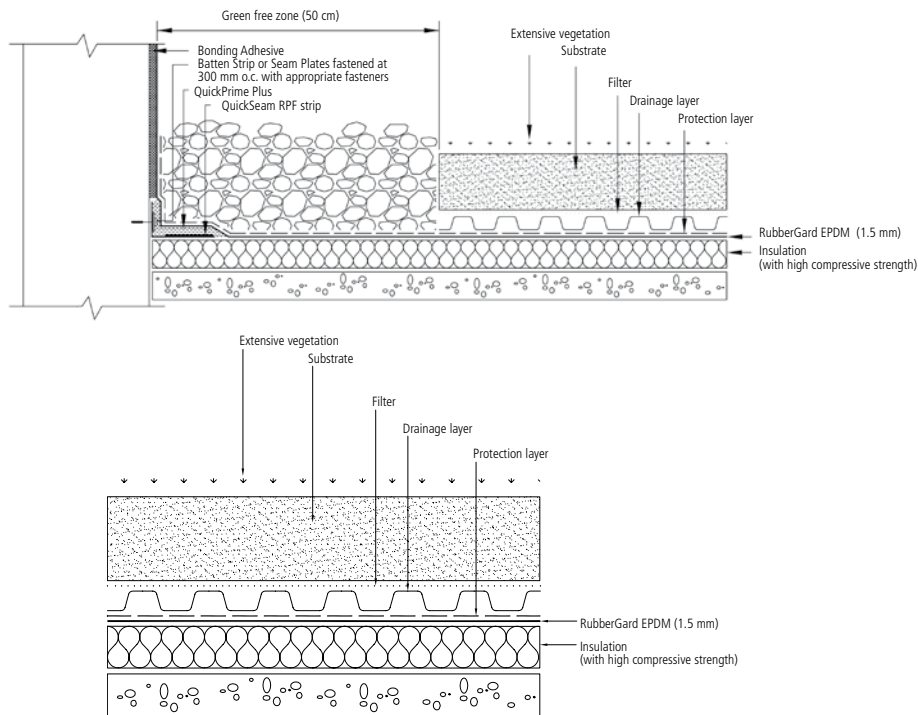
Firestone RubberGard™ EPDM is an ideal membrane for combination with extensive green roof systems, using lightweight and low maintenance sedum vegetation. The large, seamless (up to 930 m²), lightweight and flexible EPDM membrane has successfully passed the FLL test for root penetration and can therefore provide dependable performance in a demanding roofing environment.

The benefits of the combination of a Firestone RubberGard EPDM membrane with a green roof system are numerous:

- ✔ Increased life expectancy of the roof
- ✔ Added value and aesthetics
- ✔ Lower energy costs
- ✔ Easy installation and maintenance
- ✔ Improved air quality
- ✔ Reduction of the urban heat-island effect
- ✔ Storm water management
- ✔ Extra soundproofing and insulation
- ✔ A natural habitat for plants and birds



Recommended build-up for extensive roofs*



* For other types of green roofs, please consult Firestone Technical Department.

Firestone RubberGard EPDM - Specifications

Product Line			
Membrane	Width in m	Length in m	
.045" LSFR / 1.1 mm	3.05 - 5.08 - 6.10 - 7.62 - 9.15 - 12.20 - 15.25	30.50	
.060" LSFR / 1.5 mm	3.05 - 5.08 - 6.10 - 7.62 - 9.15 - 12.20 - 15.25	30.50	
Physical Properties (*)			
Property	Test Method	Declared Value	Unit
Watertightness	EN 1928	pass	
Tensile strength (L/T)	EN 12311-2 (B)	≥ 7	N/mm ²
Elongation (L/T)	EN 12311-2 (B)	≥ 300	%
Resistance to static load - hard substrate	EN 12730 (B)	≥ 20	kg
Resistance to impact - soft substrate	EN 12691 (B)	≥ 2000	mm
Resistance to impact - hard substrate	EN 12691 (A)	≥ 300	mm
Tear resistance (L/T)	EN 12310-2	≥ 40	N
Joint peel resistance	EN 12316-2	≥ 80	N/50 mm
Joint shear resistance	EN 12317-2	≥ 200	N/50 mm
UV exposure	EN 1297	pass (≥ 7500 h)	
Foldability at low temperature	EN 495-5	≤ -45	°C
Resistance to root penetration	EN 13948	pass	

* Typical physical properties for the RubberGard EPDM 1.5 mm (.060") LSFR membrane. For latest updates and additional info please visit www.firestonebpe.com. Testing results and/or copies of Approval Documents for above mentioned membranes are available upon request.



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