

Firestone UltraPly™ TPO Green Roofing Systems



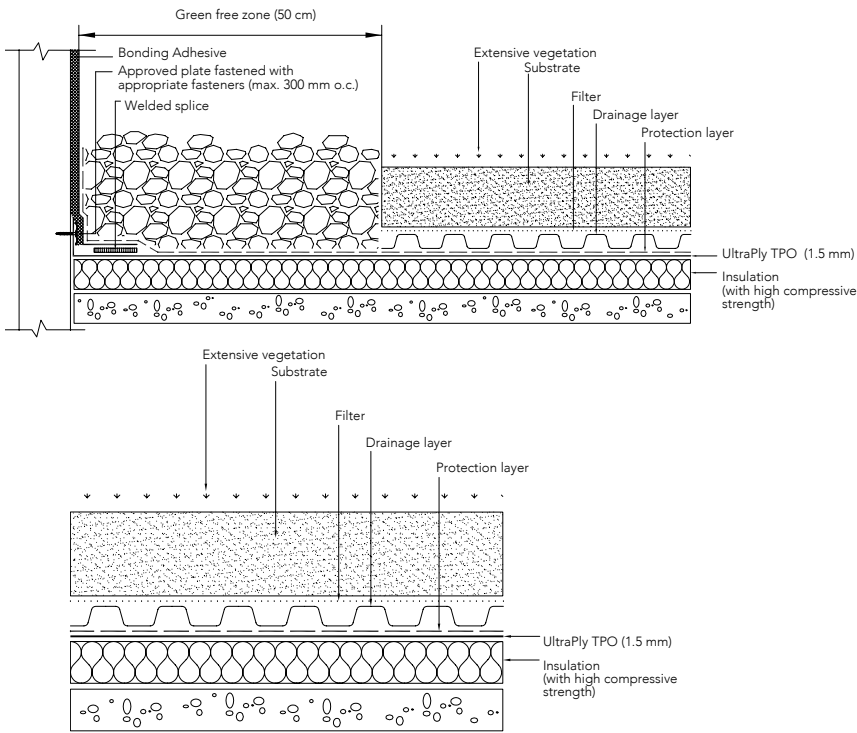
Putting a garden on your roof is a great way to make better use of city space, protect the environment and save money in the long term. These vegetative or garden roofs - a roof area of plantings installed above a waterproofing membrane - have become very successful on rooftops around the world.

Firestone UltraPly™ TPO is an ideal membrane for combination with extensive green roof systems, using lightweight and low maintenance sedum vegetation. This lightweight, scrim-reinforced and heat-weldable 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 UltraPly™ TPO 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 contact Firestone's Technical Department.

Firestone UltraPly TPO – Product Information

Product Line			
Membrane	EU Sizes	US Sizes	Unit
Thickness	1.2 - 1.5 - 1.8	1.1 - 1.5	mm
Width	1.5 - 2.0	1.52 - 2.44 - 3.05	m
Length	30.5	30.5	m
Weight	1.2 - 1.5 - 1.8	1.1 - 1.5	kg/m ²
Physical Properties			
Property	Test Method	Declared value*	Unit
Watertightness	EN 1928 (B)	pass	
Tensile strength (L/T)	EN 12311-2 (A)	≥ 1200	N/50 mm
Elongation at break (L/T)	EN 12311-2 (A)	≥ 20	%
Resistance to static load - soft substrate	EN 12730 (A)	≥ 20	kg
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)	≥ 800	mm
Tear resistance (L/T)	EN 12310-2	≥ 400	N
Joint peel resistance	EN 12316-2	≥ 300	N/50 mm
Joint shear resistance	EN 12317-2	≥ 800	N/50 mm
Foldability at low temperature	EN 495-5	≤ -40	°C
UV exposure	EN 1297	pass	
Resistance to root penetration	EN 13948	pass	
Fire Properties			
Property	Standard	Classification	
Reaction to fire	EN 13501-1	E	
External fire performance	EN 13501-5	B _{ROOF} (t1)	

* Values applicable to the UltraPly TPO 1.5 mm membrane. Testing results and/or copies of Approval Documents for above mentioned membranes are available upon request. For latest updates and additional info please consult our website at www.firestonebp.com.



Firestone

Firestone Building Products

Firestone Building Products EMEA

www.firestonebp.com

| YOUR LOCAL CONTACT |

06-2019

© Firestone Building Products EMEA. All Rights reserved. Item: GrRoofTPO_LIT_SAL_03_2015_EN_008181