

Technical Information

COSMOFIN FG LLV



COSMOFIN FG LLV is a monomer plasticised, high UV stabilised (LL) PVC waterproofing membrane with integrated glass fleece reinforcing and a polyester fleece backing, based on the long term proven recipe of COSMOFIN. COSMOFIN membranes are produced by extrusion method.

Characteristics of COSMOFIN FG LLV:

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| <ul style="list-style-type: none">• Glass fleece reinforcement• High tensile strength• Polyester fleece backing• With LongLife (LL) equipment• Suited for hot air and solvent welding | <ul style="list-style-type: none">• Mouldable when warm (COSMOFIN F)• Cold resistant• Recyclable• Free of cadmium and lead stabilizers• Resistant to plant roots according to FLL testing and EN 13948 (Type FG) |
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Membrane type and application areas:

COSMOFIN FG LLV:	
Membrane width:	1.060 mm / 1.650 mm
Nominal thickness:	1,5 mm / 1,8 mm / 2,0 mm
New building and refurbishment:	Fully or stripwise adhered, loose laid under ballast
Colour:	grey, further colours on request

System parts and accessories:

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| <ul style="list-style-type: none">• Internal and external corners• Homogeneous material for detail forming• Composite Metal Sheets (Plates / coils)• Stainless steel drainage and ventilation elements• Lightning Rod Protection Tubes• Area adhesive (Teroson EF TK 400, Teroson AD 3958) | <ul style="list-style-type: none">• WITEC Walkway, membrane for maintenance paths• WITEC KV pro, protection fleece for the installation under ballast• Joint adhesives (Teroson AD 914, Teroson AD Adhesive Spray) |
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Product information COSMOFIN LLV, testing according to EN 13956

EN 13956

Exposed application (fully or stripwise adhered)
Under ballast (gravel, green roof, ...)

Characteristic	Testing standard	Unity	Details	Result * 1,5 mm
Visible defects	EN 1850-2	-	passed	passed
Length	EN 1848-2	m	MDV	15
Width		m	MDV	1,65
Straightness		mm	MLV	≤ 50
Flatness		mm	MLV	≤ 10
Mass per unit area		EN 1849-2	kg/m ²	MDV
Water tightness	EN 1928 B	kPa	MLV	passed
Reaction to fire	EN 13501-1	-	s. 5.2.5.2	Class E
Joint peel resistance	EN 12316-2	N/50 mm	MLV	≥ 185
Joint shear resistance	EN 12317-2	N/50 mm	MLV	≥ 600
Tensile strength	EN 12311-2	N/50 mm	MLV	≥ 400
Elongation		%	MLV	≥ 30
Resistance to impact Method A	EN 12691	mm	MLV	≥ 500
Method B	EN 12691	mm	MLV	≥ 500
Durability of water tightness against aging	EN 1296 EN 1928	-	passed	passed
Durability of water tightness against chemicals	EN 1847 EN 1928	-	passed	passed
Nail tear resistance	EN 12310-1	N	MLV	≥ 400
Tear resistance	EN 12310-2	N	MLV	≥ 250
Resistance to root penetration	EN 13948 / FLL	-	passed	passed
Dimensional stability	EN 1107-2	%	MLV	≤ 0,5
Foldability at low temperature	EN 495-5	°C	MLV	≤ -25
UV exposure	EN 1297	visual	passed	passed
Hail resistance	EN 13583	m/s	MLV	≥ 17
Water vapour permeability	EN 1931	-	μ = MDV or 15.000	25.000 ± 5.000

Explanation: MDV = Manufacturer's declared value
MLV = Manufacturer's limiting value
* Values in new conditions

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This technical data sheet was produced according to the latest technical knowledge and standards of WOLFIN Bautechnik, Technical changes due to further developments are possible.