

Cosmofin FG LL

MONOMER-PLASTICISED, HIGH UV STABILISED (LL) PVC ROOFING MEMBRANE WITH A CENTRAL POLYESTER FABRIC REINFORCEMENT.

TYPES AND APPLICATION AREAS	
Cosmofin FG LL	With a central polyester fabric reinforcement
Membrane width	1,060 mm / 1,650 mm
Nominal thickness	1.5 mm / 1.8 mm / 2.0 mm
Colour	Grey
New buildings and refurbishments	<ul style="list-style-type: none">• Mechanically fixed• Loose-laid under ballast
Cosmofin FG LL is certified, approved and classified according to	<ul style="list-style-type: none">• EN 13956 CE Waterproofing of Roofs• Fulfils all German requirements (DIN standards) for waterproofing of roofs• EN 13501-1 (Class E)• CEN/TS 1187
Characteristics of Cosmofin FG LL	<ul style="list-style-type: none">• Polyester fabric reinforcement• High tensile strength• Ozone and UV resistant• Suitable for hot-air and solvent welding• Thermoplastic deformable (Cosmofin F)• Root resistant according FLL test method and EN 13948• Cold resistant• Recyclable• Free of cadmium and lead stabilisers
System parts and accessories	<ul style="list-style-type: none">• Homogeneous material for detail forming (Cosmofin F)• Internal and external corners• Coated metal sheets (plates/coils)• Lightning rod protection tubes• Witec Walkway, membrane for maintenance paths• Witec KV pro, protection fleece for the installation under ballast• System adhesives (Teroson AD 914, Teroson AD Adhesive Spray)



TECHNICAL DATA

Product information according to
EN 13956

- Exposed application (mechanically fixed)
- Under ballast (gravel, green roof, traffic areas or similar ...)

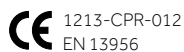
Characteristic	Testing standard	Unit	Details	Result* 1.5 mm	Result* 1.8 mm	Result* 2.0 mm
Visible defects	EN 1850-2	-	passed	passed	passed	passed
Length	EN 1848-2	m	MDV	20	17,5	20
Width	EN 1848-2	m	MDV	1.06 / 1.62	1,62	1,62
Straightness	EN 1848-2	mm	MLV	≤ 50	≤ 50	≤ 50
Flatness	EN 1848-2	mm	MLV	≤ 10	≤ 10	≤ 10
Mass per unit area	EN 1849-2	kg/m ²	MDV	1,9	2,3	2,5
Watertightness	EN 1928 Method B	kPa	MLV	passed	passed	passed
External fire performance	ENV 1187	-	Annex E		B _{Roof} (t1)**	
Reaction to fire	EN 13501-1	-	see 5.2.5.2	Class E	Class E	Class E
Joint peel resistance	EN 12316-2	N/50 mm	MLV	≥ 300	≥ 300	≥ 300
Joint shear resistance	EN 12317-2	N/50 mm	MLV	≥ 800 (tear-off outside the joint)		
Tensile strength longitudinal and transversal	EN 12311-2	N/50 mm	MLV	≥ 1.000 / ≥ 900		
Elongation longitudinal and transversal	EN 12311-2	%	MLV	≥ 10	≥ 10	≥ 10
Resistance to impact Method A	EN 12691	mm	MLV	≥ 600	≥ 700	≥ 750
Method B	EN 12691	mm	MLV	≥ 1.000	≥ 700	≥ 750
Resistance to static load	EN 12730 Method B	kg	MLV	≥ 20	≥ 20	≥ 20
Durability of watertightness against ageing	EN 1296 EN 1928	-	passed	passed	passed	passed
Durability of watertightness against chemicals	EN 1847 EN 1928	-	passed	passed	passed	passed
Nail tear resistance	EN 12310-1	N	MLV	≥ 400	≥ 400	≥ 400
Tear resistance longitudinal and transversal	EN 12310-2	N	MLV	≥ 250	≥ 250	≥ 250
Resistance to root penetration	EN 13948	-	fulfilled	fulfilled	fulfilled	fulfilled
Dimensional stability longitudinal and transversal	EN 1107-2	%	MLV	≤ 1,0	≤ 1,0	≤ 1,0
Foldability at low temperature	EN 495-5	°C	MLV	≤ -25	≤ -25	≤ -25
UV exposure	EN 1297	visual	passed	passed	passed	passed
Hail resistance Hard/soft ground	EN 13583	m/s	MLV	≥ 25	≥ 25	≥ 25
Water vapour permeability	EN 1931	μ	MDV or 15,000	25.000 + 5.000		

MDV = manufacturer's declared value

MLV = manufacturer's limiting value

* Values in new condition ** Valid for the respective proofed roof structure

Date: 09.2019. This technical data sheet was produced according to the latest technical knowledge and standards. Technical changes due to further developments are possible.



Technical support

You can find the declarations of performance
on our website www.wolfin.com / Downloads.

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