Cosmofin

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	1,650 mm
Nominal thickness	1.5 mm
Colour	Light grey
New buildings and reburbishments	• Mechanically fixed • Loose-laid under ballast

Cosmofin FG LL is certified, approved and classified according to	• EN 13956 CE Waterproofing of Roofs (Cosmofin FG) • Fulfils all German requirements (DIN standards) (Cosmofin FG) for waterproofing of roofs	• EN 13501-1 (Class E) • CEN/TS 1187 • AS 4654.1 - 2012 • AS 4858 • EN 13967:2012 for basement tanking and below Ground installation
Characteristics of Cosmofin LL	• 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 (Cosmofin FG) • Cold resistant • Recyclable • Free of cadmium and lead stabilisers
System parts and accessories	• Homogeneous material for detail forming (Cosmofin F) • Internal and external corners	• Witec Walkway, membrane for maintenance paths • Coated metal profiles

TECHNICAL DATA

EN 13967
EN 13956

- For basement tanking and below ground installation
- Exposed application (mechanically fixed)
- Under ballast (gravel, green roof, traffic areas or similar ...)

Characteristic	Testing standard	Unit	Details	Result* 1.5mm
Visible defects	EN 1850-2	-	passed	passed
Length	EN 1848-2	m	MDV	20
Width	EN 1848-2	m	MDV	1,65
Straightness	EN 1848-2	mm	MLV	≤ 50
Flatness	EN 1848-2	mm	MLV	≤ 10
Mass per unit area	EN 1849-2	kg/m^2	MDV	1,9
Watertightness	EN 1928 Method B	kPa	MLV	passed
External fire performance	EN V 1187	-	Annex E	B_{Roof} (t1)**
Reaction to fire	EN 13501-1	-	see 5.2.5.2	Class E
Joint peel resistance	EN 12316-2	N/50 mm	MLV	≥ 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 / ≥ 1.100
Elongation longitudinal and transversal	EN 12311-2	%	MLV	≥ 15
Resistance to impact Method A Method B	 EN 12691 EN 12691	 mm mm	 MLV MLV	 ≥ 600 ≥ 1.000
Resistance to static load	EN 12730 Method A	kg	MLV	≥ 20
Durability of watertightness against ageing	EN 1296 EN 1928	-	passed	passed
Durability of watertightness against chemicals	EN 1847 EN 1928	-	passed	passed
Nail tear resistance	EN 12310-1	N	MLV	≥ 200
Tear resistance longitudinal and transversal	EN 12310-2	N	MLV	≥ 200
Resistance to root penetration	EN 13948	-	fulfilled	fulfilled
Dimensional stability longitudinal and transversal	EN 1107-2	%	MLV	≤ 1,0
Foldability at low temperature	EN 495-5	°C	MLV	≤ -25
UV exposure	EN 1297	visual	passed	passed
Hail resistance Hard/soft ground	EN 13583	m/s	MLV	≥ 25
Water vapour permeability	EN 1931	μ	MDV or 15,000	25,000 ± 5,000

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

MDV = manufacturer's declared value
MLV = manufacturer's limiting value

Date: 03/2021. This technical data sheet was produced according to the latest technical knowledge and standards. Technical changes due to further developments are possible.

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