

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

Characteristics of Cosmofin LLV

- 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

- Wittec Walkway, membrane for maintenance paths
- Coated metal profiles

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* 1.5mm
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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