

Technical Information

COSMOFIN FG LL



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

COSMOFIN FG LL is certified, approved and classified according to:

- EN 13956 CE-Waterproofing of Roofs
- Fulfills all German requirements (DIN standards) for waterproofing of roofs
- EN 13501-1 (Class E)
- ENV 1187 / EN 13501-5 BROOF (t1)

Characteristics of COSMOFIN FG LL:

- Polyester fabric reinforcement
- High tensile strength
- With LongLife (LL) equipment
- Suited for hot air and solvent welding
- Resistant to plant roots according to FLL testing and EN 13948
- Mouldable when warm (COSMOFIN F)
- Cold resistant
- Recyclable
- Free of cadmium and lead stabilizers

Membrane type and application areas:

COSMOFIN FG LL:	
Membrane width:	1.060 mm / 1.650 mm
Nominal thickness:	1.5 mm / 1.8 mm / 2.0 mm
New building and refurbishment:	Mechanically fixed, loose laid under ballast
Colour:	grey, further colours on request

System parts and accessories:

- Internal and external corners
- Homogeneous material for detail forming
- Composite Metal Sheets (Plates / coils)
- Stainless steel drainage and ventilation elements
- Lightning Rod Protection Tubes
- 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)

Product information COSMOFIN FG according to EN 13956

EN 13956
Exposed application (mechanically fixed) Under ballast
(gravel, green roof, ...)

*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.*



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Characteristic	Testing standard	Unity	Details	Results* 1.5 mm	Results* 1.8 mm	Results* 2.0 mm
Visible defects	EN 1850-2	-	passed	passed		
Length	EN 1848-2	m	MDV	20	17.5	15
Width		m	MDV	1,06 / 1,65		
Straightness		mm	MLV	≤50		
Flatness		mm	MLV	≤10		
Mass per unit area		EN 1849-2	kg/m ²	MDV	1.9	2.3
Water tightness	EN 1928 B	kPa	MLV	passed		
External fire performance	EN V 1187	-	Annex E	B _{Roof} (t ₁)**		
Reaction to fire	EN 13501-1	-	s. 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		
Tensile strength	EN 12311-2	N/50 mm	MLV	≥ 1000/ ≥900		
Elongation		%	MLV	≥ 10		
Resistance to impact Method A Method B	EN 12691	mm	MLV	≥ 600	≥ 700	750
	EN 12691	mm	MLV	≥ 600	≥ 700	750
Resistance to static load	EN 12730 Method B	kg	MLV	≥20		
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	≥1.0		
Foldability at low temperature	EN 495-5	°C	MLV	≥-25		
UV exposure	EN 1297	visual	passed	passed		
Hail resistance	EN 13583	m/s	MLV	≥25		
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
** Valid for the respective proofed roof structure

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