

Technical Information

INOFIN FR

INOFIN FR is a halogen-free roofing membrane of plasticizer-free, flexible polyolefin (FPO) manufactured based on a special PE (Polyethylene) / EBA (Ethylene-Butyl-Acrylate) composition. The membrane is equipped with an integrated combination of glass fabric and glass fleece.

INOFIN FR is certified, approved and classified according to:

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| <ul style="list-style-type: none">• EN 13956 CE-Waterproofing of Roofs• Fulfills all German requirements (DIN standards) for waterproofing of roofs | <ul style="list-style-type: none">• EN 13501-1 (Class E)• EN 13501-5 B_{Roof} (t1) & B_{Roof} (t3) |
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Characteristics of INOFIN FR:

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| <ul style="list-style-type: none">• plasticizer-free• halogen-free• ozone- and UV-resistant• insulating material neutral• bitumen resistant• free of toxic heavy metals• free of halogenated fire protections | <ul style="list-style-type: none">• resistant to plant roots according to FLL procedure and EN 13948• suited for hot-air-welding• cold-resistant• mouldable when warm (Type F)• meets European fire protection test (B_{Roof} (t1) <u>without fire protection layer</u> on EPS)• meets European fire protection test (B_{Roof} (t3) on <u>mineral fibre insulating material</u>)• recyclable |
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Types and application areas:

INOFIN FR:	with an integrated combination of glass fabric and glass fleece
Width:	1.100 mm / 1.620 mm
Thickness:	1,5 mm / 1,8 mm / 2,0 mm
New building and refurbishment:	loose laid, mechanically fixed
Colour:	light grey

System parts and accessories:

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| <ul style="list-style-type: none">• Internal and External Corners• Homogeneous membranes (INOFIN F) for forming structural details• Composite Metal Sheets (Plates / Coils)• Pipe Insert & Lightning Rod Protection Tube | <ul style="list-style-type: none">• WITEC Walkway, membrane for maintenance paths• WITEC Rail KF for valley fixation• Teroson AD Adhesive Spray for connections• INOFIN Contact Adhesive for connections |
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Technical support: +49 6053 708-5141

Product information according to EN 13956 and EN 13967

EN 13956

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

EN 13967

Damp proof sheets
Basement tanking sheet

Characteristic	Test standard	Unity	Details	Result* 1,5 mm	Result* 1,8 mm	Result* 2,0 mm
Visible defects	EN 1850-2	-	passed	passed		
Length	EN 1848-2	m	MDV	15		
Width		m	MDV	1,10 / 1,62		
Straightness		mm	MLV	≤ 30		
Flatness		mm	MLV	≤ 10		
Mass per unit area	EN 1849-2	kg/m ²	MDV	1,60	1,90	2,10
Effective thickness		mm	MDV	1,5	1,8	2,0
Water tightness	EN 1928 B	kPa	MLV	passed		
External fire performance	ENV 1187	-	Annex E	B _{ROOF} (t1/t3)** (EN 13501-5)		
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	≥ 800		
Elongation		%	MLV	≥ 2		
Resistance to impact	EN 12691	mm	MLV	≥ 600	≥ 650	≥ 750
Method A						
Method B	EN 12691	mm	MLV	≥ 600	≥ 650	≥ 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		
Tear resistance	EN 12310-2	N	MLV	≥ 150		
Resistance to root penetration	EN 13948	-	passed	passed		
Dimensional stability	EN 1107-2	%	MLV	≤ 0,2		
Foldability at low temperature	EN 495-5	°C	MLV	≤ -40		
UV exposure	EN 1297	visuell	passed	passed		
Hail resistance	EN 13583	m/s	MLV	≥ 25		
Water vapour permeability	EN 1931	μ	MDV	100.000 ± 30.000		
Bitumen compatibility	EN 1548	-	passed	passed		

Explanation: MDV = Manufacturer's declared value
MLV = Manufacturer's limiting value
* Values in new conditions
** Valid for the respective proofed roof structure

You can find the declarations of performance on our website www.wolfin.com / [Downloads](#)



1213-CPR-012
EN 13956



1213-CPR-015
EN 13967