

SINTOFOIL RG FB**Description**

Synthetic waterproofing membrane produced by co-extruding a UV resistant elastomerised TPO/FPA thermoplastic olefin and flexible polypropylene alloy, with a fibreglass reinforcement bonded on the lower face with nonwoven polyester fabric that makes it dimensionally stable. The membrane features contrasting colours on its upper and lower faces, providing a signal layer so that any damage occurring during or after installation will be immediately apparent. Also available in BIANCO REFLECTA version, manufactured with the upper side of the membrane (top) in WHITE REFLECTA colour, by means of a treatment developed in mass in the entire layer that covers the top of the reinforcement. This process enhances the reflectance and emission features giving the roof a Solar Reflectance Index (SRI) value that reach 102%. SINTOFOIL RG FB membranes comply with CE marking requirements, if applicable.

System certifications

QMS certification according to ISO 9001.

Product certifications

Regulation CPR 305/2011/EU.

EELAB, BBA, CSTB, SK-Z, UBATC certifications.

This product can contribute to acquiring points in terms of LEED accreditation.

Fields of application**Specific use**

- Waterproofing layers applied independently under heavy-duty fixed or movable protection for:
 - roofing exposed to foot and vehicular traffic;
 - roof gardens.
- Mechanically retained waterproofing for:
 - exposed roofs.
- Implementation of roofing systems in total adhesion by means of gluing.

Note: Given the versatility and reliability of SINTOFOIL membranes, other applications can be developed with the assistance of the IMPER ITALIA srl – Technical Services.

Application

Sintofoil membranes are laid dry totally or partially independent with mechanical fastening or total adhesion by gluing. The overlaps are welded with automatic or manual hot melting. Design solutions and application methods are illustrated in the technical manual published by Imper Italia. Waterproofing systems employing SINTOFOIL membranes should be laid by installers authorised by Imper Italia Technical Services.

TECHNICAL FEATURES ⁽¹⁾

Features	EN Standards	U.M.	Tolerance	Values			
Standard thickness	1849-2	mm	(-5/+10%)	1,2	1,5	1,8	2,0
Tensile properties							
• Tensile strength L/T	12311-2	N/50 mm		600 / 550	650 / 600	750 / 750	800 / 800
• Elongation at break L/T	12311-2	%		700 / 700			
Dimensional stability	1107-2	%		≤ 0.1			
Cold flexibility	495/5	°C		≤ -40 ⁽²⁾			
Tear resistance L/T ^(*)	12310/1	N		500/450 ^(*)	650/600 ^(*)	750/700 ^(*)	850/800 ^(*)
Water vapour permeability (resistance factor μ)	1931			50.000			
Resistance to static loading ^(*)	12730/B	kg		≥ 25 ^(*)			
Resistance to impact ^(*)	12691/B	mm		≥ 1000 ^(*)			
Hail resistance	13583	m/s		≥ 30 ⁽³⁾			
Water tightness (60 kPa)	1928			Absolute			
Joint strength							
• Tensile strength	12317-2	N/cm		Compliant (specimen fails outside bond area)			
• Peeling	12316-2	N/cm		≥ 58			
Durability							
• Resistance to artificial UV light	1297-5000 h			No surface damage or significant changes in cold flexibility as per EN 495/5			
Heat aging in area							
• Change in tensile strength	12311-2	Δ%		-5			
• Change in elongation at break	12311-2	Δ%		-5			
Reaction to fire	13501-1			Class F			
Resistance to algae and microorganisms	ISO 846 Level 2			Compliant			
Root resistance	13948			Passes the test			

Notes: (1) Tolerances as per EN 13956 and/or UEAtc Directives.

(*) The values indicated refer to the TPO / FPA membrane without nonwoven polyester fabric backing, except for the values marked with an asterisk (*), that refer to the finished product.

(2) Not tested at lower temperatures.

(3) Not tested at higher speeds.

PRODUCTION STANDARDS

Thickness ^(**)	mm	1,2	1,5	1,8	2,0
Width	m	2,10	2,10	2,10	2,10
Length ^(**)	m	25	25	20	20
Standard colour ^(**)		Grey / Black			

(**) Different thicknesses, lengths and colours are available on demand and for minimum quantities.

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Considerando le diverse situazioni d'impiego dei prodotti e l'intervento di fattori da noi non dipendenti (supporti, condizioni di esercizio, in osservanza delle prescrizioni, ecc.), non è possibile alla IMPER ITALIA srl assumere responsabilità in merito ai risultati ottenuti. Il progresso unito alla costante ricerca dei massimi livelli prestazionali possono apportare - nel tempo - modificazioni alle informazioni contenute in questo stampato, senza che la IMPER ITALIA srl debba darne preavviso a tutti gli interessati.



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