

# SINTOFOIL RG

## Synthetic Waterproofing Membrane

### Description

Synthetic waterproofing membrane produced by co-extruding a UV resistant elastomerised TPO/FPA thermoplastic olefin and flexible polypropylene alloy with a fibreglass reinforcing mat 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 REFLECTA WHITE version with the upper side of the membrane (top) manufactured with the REFLECTA WHITE 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 waterproof covering Solar Reflectance Index (SRI) values that reach 102%.

### Areas of Application

Specific use

- Waterproofing layers loose laid under heavy-duty fixed or movable protection for:
  - Roofing exposed to foot traffic;
  - Roof gardens.
- Mechanically retained waterproofing for:
  - Exposed roofs.

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

### Application Details

SINTOFOIL membranes are applied through hot air gun on their overlapping joints, as no adhesives or other materials of any kind are required. Design solutions and application methods are illustrated in the technical manual published by ECMAS. Waterproofing systems employing SINTOFOIL membranes should be laid by installers authorized by ECMAS.

### Products Certification

Regulation CPR305/2011/EU.

EELAB, BBA, CSTB, SK-Z, EOTA, UBATC, LAPI, Istituto Giordano and ITC certifications. This product can contribute to acquiring points in terms of LEED accreditation.

#### PRODUCTION STANDARDS

	mm	1,2	1,5	1,8	2,0
Thickness*)					
Width	m	2,1 0	2,1 0	2,10	2,1 0
Length*)	m	25	25	20	20
Colour		Grey / Black			

\* Different thicknesses and lengths are available on demand and for minimum quantities.



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TECHNICAL FEATURES <sup>(1)</sup>							
Features	EN Standards	U.M.	Tolerance	Values			
Standard thickness	1849-2	mm	(-5/+10%)	1,2	1,5	1,8	2,0
Density	1849-2	kg/m <sup>2</sup>	(-5/+10%)	1,10	1,37	1,64	1,82
SRI – Solar Reflectance Index	ASTM Standard E1980	%		102 <sup>(*)</sup>			
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 <sup>(2)</sup>			
Tear resistance L/T	12310/1	N		390/290	450/400	500/450	600/550
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 <sup>(**)</sup>			
Water tightness (60kPa)	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			
Wind load resistance (wind suction test) (UEAtc)							
• Mechanically retained system	Pa			≥ 6000			
Reaction to fire	13501-1			Class F			
Behaviour to external fire	13501-5			Broof (t1), (t2), (t3), (t4)			
Resistance to algae and microorganisms	ISO 846 Level 2			Compliant			
Root resistance	13948			Passes the test			

Note-1) Tolerances as per EN 13956 and/or UEAtc Directives.

2) Not tested at lower temperatures.

In the respective versions:

(\*) Reflecta White version. (\*\*) Not tested at higher speeds

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