



Impermeabilizzazione ad alte prestazioni.



membrane impermeabilizzanti
bitume polimero
Fire Off
resistenti al fuoco



Dermabit® FireOff



DERMABIT® FIREOFF

APAO technology of bitumen-polymer waterproofing membrane certified flame retardant in class Broof T2

The FireOff technology is the result of the careful research on innovative technologies for the resistance to flame propagation of Casali polymer bitumen membranes which, through special additive formulas of the compound with flame retardant factor, allow the APP-APAO compound of DERMABIT® POLYESTER MINERAL FIREOFF to have high fire resistance properties..

- The special reinforcement arm guarantees excellent mechanical performance and exceptional dimensional stability, as well as obtaining the Broof T2 * classification for single-layer or multilayer applications directly on combustible (insulating panels) and non-combustible supports, as well as in the presence of photovoltaic systems with fire reaction class 2 PV modules, or equivalent.

* Application complies with the general recommendations provided for the connection between photovoltaic systems cl.2 and Broof t2 roofs - risk assessment taking into account the external fire resistance class of the roofs, the relative roofs and the fire resistance class of the PV module.

REINFORCEMENT
Three-Armed

COMPOUND
APP-APAO

TOP / BOTTOM FINISHES
Slate / Polyethylene

Operating thermal range


DERMABIT FIRE OFF	Cold Flexibility °C (UNI EN 1109)	Flow resistance °C (UNI EN 1110)	Reinforcement	Max. force tensile properties / L / T elongation	Use dest. CE	Finishing	Wght/thk* (UNI EN 1849-1)	N° rolls/pallet		
Dermabit Poliestere Mineral Fire Off ⁽¹⁾ ◆	-20	+150	Pol HSP	850-650/40-40	TL1-SL1	Min/PE	5,2 / 4 **	20 (m1x8)	-	-



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PRODUCT	Dermabit® Poliестere Mineral FireOff TEX			
MISSION	Elasto-plastomeric three-armed certified flame retardant bitumen-polymer waterproofing membrane in Broof T2 applicable by flame / hot air / mechanical fixing			
DESCRIPTION	<p>The FireOff technology is the result of the careful research on innovative flame propagation technologies of polymer-bitumen membranes which, made with special additive formulas of the compound with flame retardant factor, give the DERMABIT® POLIESTERE MINERAL FIREOFF APP compound high fire resistant. The special reinforcement allows excellent mechanical performance and optimal dimensional stability, also to obtain the Broof t2¹ classification, which can be achieved with single-layer or multi-layer solutions on combustible and non-combustible supports, in the presence of photovoltaic systems with fire reaction class 2 PV modules, or equivalent.</p> <p>¹ Application complies with the general recommendation provided for coupling between photovoltaic systems cl.2 and Broof t2 roofs - risk assessment taking into account the external fire resistance class of the roofs, the relative roofs and the fire resistance class of the PV module.</p>			
CHARACTERISTICS	RINFORZO	MESCOLA	FINITURE SUP / INF	
	POLIESTERE HSP three-armed	APP-APAO	Mineral ² / TxT	
USE DESTINATION	EN 13707 – Single Layer – Exposed layer EN 13707 – Exposed Single Layer			
² mineral self-protected Available colours:	 bianca			
TEST DESCRIPTION	STANDARD REF.	MEASUREMENT UNIT	TOLLERANCE	VALUE
Length	EN 1848 -1	m	± 1.0 %	8
Width	EN 1848 -1	m	± 1.0 %	1
Thickness	EN 1849 -1	mm	± 5.0 %	4*
Mass	EN 1849 -1	Kg/m ²	± 15 %	5,2
Breaking load L Breaking load T	EN 12311-1 EN 12311-1	N/5 mm N/5 mm	± 20 % ± 20 %	850 650
Elongation at break L Elongation at break T	EN 12311-1 EN 12311-1	% %	± 15 ass. ± 15 ass.	45 45
Tear resistance L Tear resistance T	EN 12310-1 EN 12310-1	N N	± 30 % ± 30 %	170 170
Tensile strength of the L junctions Tensile strength of the T junctions	EN 12317-1 EN 12317-1	N/5 cm N/5 cm	± 20 % ± 20 %	750 550
Joint peeling Resistance	EN 12316 -1	N/5 cm	≥	40
Dynamic punching resistance (metodo A)	EN 12691	mm	≥	1750
Static punching resistance (metodo B)	EN 12730 -1	kg	≥	25
Dimensional stability L Dimensional stability T	EN 1107-1 EN 1107-1	% %	≤ ≤	± 0.2 ± 0.2
Cold flexibility	EN 1109	°C	≤	-20
Cold flexibility after aiging	EN 1296 – EN 1109	°C	≤	-20

TEST DESCRIPTION	RIF.NORMA	UNITA DI MISURA	ESPRESSIONE DEL RISULTATO	VALORE
Flow resistance	EN 1110	°C	≥	150
Flow resistance after aiging	EN 1296 EN 1110	°C	≥	140
Roots resistance	EN 13948	Relazione	Supera	NPD
Behavior to external fire	EN 13501-5	classe	Supera	Broof(t2)**
Fire reaction	EN 13501-1	classe	Supera	E
Watertightness	EN 1928:2000 Met. A	Relazione	Assoluta > 60kPa	Supera
Artificial aging with long exposure to rays U.V. and H2O	EN 1297	Relazione	Supera	NPD

* THICKNESS MEASURED ON SELVEDGE.

** Test performed on fuel support at the Fire Prevention Laboratory LAPI S.p.A. (Certificate no. 244.0AE0082 / 17)

Tolerances According to EN 13707, EN 13969, EN 14695, EN 13859-1, EN 13970 and AISPEC-MBP Guidelines. NPD = Performance not determined;

L = Longitudinal;
T = Transverse.

Vapor permeability factor $\mu = 20,000$
Thermal conductivity = 0.2 W / mk

Packaging:

roll size: 1.00 x 8.00 ml nr. of
rolls per pallet: 20

This technical data sheet contains information subject to change without notice by the Manufacturer. The technical data and intended uses comply with the regulations at the time of its issue.
The product is guaranteed with respect to the peculiar waterproofing characteristic of bituminous waterproofing membranes. For correct use of the product, follow the manufacturer's technical documentation.

Al sensi dei D.Lgs 285/98 il prodotto non contiene amianto, catrame ne altre sostanze pericolose.

Test di resistenza al fuoco esterno:



Picture 1: Before the test

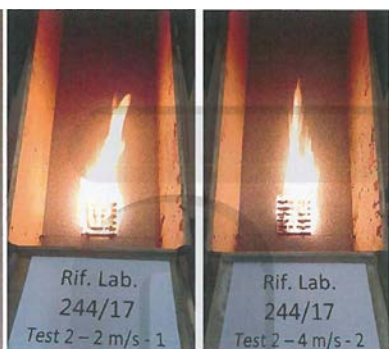


Foto 2: during the test



Picture 3: membrane surface after the test



Foto 4: panel surface after the test