



<b>PRODUCT</b>	<b>Dermabit® Poliестere Mineral FireOff</b>			
<b>MISSION</b>	Elastomeric APP APAO bituminous membrane flameproof <b>Broof T2 certified</b> applicable by flame, hot air or mechanical fixing.			
<b>CERTIFICATES</b>	<b>EN 1187-2 class Broof(t2) (EN 13501-5:2005)</b> - Professional Membrane – Enduring Quality			
<b>GENERAL DESCRIPTION</b>	The FireOff technology is the result of CASALI's research on innovative special additive with high resistance to the propagation of flame. This has allowed the DERMABIT® POLYESTER MINERAL FIREOFF compound in APP-APAO, to have excellent fire resistance properties. The special reinforcement ensures excellent mechanical performance and dimensional stability, as well as the obtaining of the classification Broof T2* for exposed one layer applications or multilayer directly applied on flammable and nonflammable substrates. Also suitable under photovoltaic systems with class PV modules 2 of reaction to fire, or equivalent. <i>*Complies with the general requirements provided by the circular of 04/05/2012 prot. 6334 - 3 cases / at all. B - risk assessment, for the system combination of photovoltaic and roofing cl.2 Broof t2 considering the external fire performance roof class and the fire resistance class.</i>			
<b>FEATURES</b>	<b>COATINGS TYPE</b>	<b>CARRIER TYPE</b>	<b>FINISHING</b>	
	APP-APAO	HSP Polyester	Slateflakes / Polyethylene	
<b>SYSTEMS</b>	EN 13707 – Multilayer system without permanent surface protection - top layer EN 13707 – Single layer system without permanent surface protection			
<b>CHARACTERISTIC</b>	<b>TEST METHOD</b>	<b>UNITS</b>	<b>EXPRESSION OF RESULT</b>	<b>VALUE</b>
Visible diffects	EN 1850 -1	Statement	Pass	Pass
Length	EN 1848 -1	m	MLV	8-1%
Width	EN 1848 -1	m	MLV	1-1%
Straightness	EN 1848 -1	Statement	Pass (<20mm/10m)	Pass
Thickness	EN 1849 -1	mm	MDV ± 5%	4*
Mass per unit area	EN 1849 -1	Kg/m <sup>2</sup>	MDV ± 15%	5.2
Watertightness	EN 1928:2000 MET. A	Statement	Assoluta > 60kPa	Pass
Watertightness after stretching at low temperature	EN 13897	%	MLV	NPD
<b>External fire performance</b>	<b>EN 13501-5</b>	<b>Classe</b>	<b>Pass</b>	<b>Broof(t2)**</b>
Reaction to fire	EN 13501-1	Classe	Pass	E
Tensile properties (maximum tensile force): L Tensile properties (maximum tensile force): T	EN 12311-1	N/50 mm	MDV ± 20%	850 650
Tensile properties (elongation): L Tensile properties (elongation): T	EN 12311-1	%	MDV ± 15 abs.	40 40
Resistance to tearing (nail shank): L Resistance to tearing (nail shank): T	EN 12310-1	N	MDV ± 30%	170 170
Resistance to impact	EN 12691/A	mm	MLV	1250
Resistance to static loading	EN 12730-1/B	Kg	MLV	20
Flexibility at low temperature	EN 1109	°C	MLV	-20
Flow resistance at elevated temperature	EN 1110	°C	MLV	150
Dimensional stability	EN 1107-1	%	MLV	± 0.2 %



CHARACTERISTIC	TEST METHOD	UNITS	EXPRESSION OF RESULT	VALUE
Form stability under cyclical temperature change	EN 1108	mm	MLV	NPD
Artificial aging by long term exposure to elevated temperature	EN 1296	$\Delta$ °C	MDV	0/10
• Flexibility at low temperature	EN 1109	°C	MVL	-20
• Flow resistance at elevated temperature	EN 1110	°C	MVL	140
Artificial aging by combination of UV radiation and water	EN 1297	Statement	Pass	NPD
Adhesion of granules	EN 12039	%	MDV	< 25%
Water vapour transmission properties	EN 1931	$\mu$	MDV $\pm$ 30% or 20'000	20'000
Resistance to root penetration	EN 13948	Statement	Pass	NPD
Peel resistance of joints	EN 12316-1	N/50 mm	MDV	40
Shear resistance of joints	EN 12317-1	N/50 mm	MDV	750/550
Durability-Watertightness after artificial ageing	EN 1296 EN 1928	Statement	Pass	NPD
Durability - Watertightness after exposure against chemicals	EN 1847 EN 1928	Statement	Pass	NPD
Chemical resistance	EN 13707 All. C	Information	Tab. C1&C2	Tab. C1&C2

\*Thickness measured excluding mineral finishing.

\*\* Test run on combustible support at Laboratorio Prevenzioni Incendi LAPI S.p.A. (Certificate nr. 244.0AE0082/17)

All tolerances as per EN 13707, EN 13969, EN 14695, EN 13859-1, EN 13970 and Linee Guida AISPEC-MBP.

MLV = Manufacturing limit value;

MDV = Manufactured declared value;

NPD = No Performance Determined.

This datasheet contains information that can be potentially changed without notice by CASALI. For a correct use of the product refers to the technical documentation of the supplier.

Packaging:

rolls dimension: 1.00 x 8.00 ml

rolls per pallet: nr. 20

The product does not contain asbestos, asphalt within the meaning of D.LGS(legislative decree) n°285/98