



EN 13707 - EN 13859-1

TECHNICAL DATA SHEET

SYSTEMS EN 13707 - Top layer in multilayer system without permanent surface protection (02.T) - EN 13859 - 1 - Underlays for discontinuous roofing (03) -		PRODUCT NAME MAGNUM MINERAL 45 SR REINFORCED BITUMEN SHEETS FOR WATERPROOFING - V-PRO PLASTOMERIC MEMBRANE - APP COMPOUND			CARRIER TYPE STEADY RESISTANCE (SR) POLYESTER
PROPERTIES	Test Method	Unit	Tolerances	VALUE	
LENGTH	EN 1848 -1	m	± 0,5%	10	
WIDTH	EN 1848 -1	m	± 1%	1	
THICKNESS	EN 1849 -1	mm	± 10%	-	
MASS PER UNIT AREA	EN 1849 -1	Kg/m ²	± 10%	4,5	
TENSILE PROPERTIES:MAXIMUM TENSILE FORCE	L	EN 12311-1	N/50 mm	±20%	450
	T	EN 12311-1	N/50 mm	±20%	350
TENSILE PROPERTIES:ELONGATION	L	EN 12311-1	%	±15 abs.	35
	T	EN 12311-1	%	±15 abs.	35
MAXIMUM TENSILE FORCE L/T AFTER ART. AGEING	EN 1296 - EN 1297 EN 12311-1	N/50 mm	MDV	±30% Initial Value	
ELONGATION L/T AFTER ART. AGEING	EN 1296 - EN 1297 EN 12311-1	%	MDV	±30% Initial Value	
RESISTANCE TO TEARING	L	EN 12310-1	N	±30%	130
	T	EN 12310-1	N	±30%	130
SHEAR RESISTANCE OF JOINTS	L	EN 12317-1	N/50 mm	>=	350
	T	EN 12317-1	N/50 mm	>=	250
PEEL RESISTANCE OF JOINTS	EN 12316-1	N/50 mm	>=	NPD	
RESISTANCE TO IMPACT	EN 12691	mm	>=	700	
RESISTANCE TO STATIC LOADING	EN 12730-1	Kg	>=	10	
DIMENSIONAL STABILITY	L	EN 1107-1	%	<=	±0,3%
	T	EN 1107-1	%	<=	±0,3%
FLEXIBILITY AT LOW TEMPERATURE	EN 1109	°C	<=	0	
FLEXIBILITY AT LOW TEMP. AFTER ARTIFICIAL AGEING	EN 1296 - EN 1109	°C	<=	NPD	
FLOW RESISTANCE AT ELEVATED TEMPERATURE	EN 1110	°C	>=	130	
FLOW RESISTANCE AT ELEVATED TEM. AFTER ARTIFICIAL AGEING	EN 1296 - EN 1110	°C	>=	120	
EXTERNAL FIRE PERFORMANCE	EN 13501-5	Class	Pass	F roof	
REACTION TO FIRE	EN 13501-1	Class	Pass	F	
WATERTIGHTNESS	EN 1928:2000 MET A	kPa	>=	60	
RESISTANCE TO WATER PENETRATION	EN 1928:2000 MET A (2KPA)	CLASS	Pass	W1	
RESISTANCE TO WATER PEN. AFTER ART. AGEING	EN 1296 - EN 1297 EN 1928 A (2 kPa)	CLASS	Pass	W1	
FINISHING	SLATE FLAKES		POLYETHYLENE FILM		

NPD = No Performance Determined; L = Longitudinal Direction; T = Transversal Direction. Water vapour permeability factor $\mu = 20.000$. Thermal conductivity = 0,2 W/mK

For a correct use of the product refers to the technical documentation of the supplier. All tolerances as per EN 13707, EN 13969, EN 14695, EN 13859-1, EN 13970 and LINEE GUIDA AISPEC-MBP. This datasheet contains information that can be potentially changed without notice by BRAI. The technical data and the intended uses are in accordance with the regulations in force at the time of its issuance. BRAI provides the normal product guarantee with respect to the peculiar characteristic of waterproofing.

The product does not contain asbestos, asphalt within the meaning of D.LGS(Legislative Decree) N° 285/98