



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 <b>MAGNUM MINERAL 50 SR</b> REINFORCED BITUMEN SHEETS FOR WATERPROOFING - V-PRO PLASTOMERIC MEMBRANE - APP COMPOUND			CARRIER TYPE  STEADY RESISTANCE (SR) POLYESTER
PROPERTIES	Test Method	Unit	Tolerances	VALUE	
<b>LENGTH</b>	EN 1848 -1	m	± 0,5%	<b>10</b>	
<b>WIDTH</b>	EN 1848 -1	m	± 1%	<b>1</b>	
<b>THICKNESS</b>	EN 1849 -1	mm	± 10%	<b>-</b>	
<b>MASS PER UNIT AREA</b>	EN 1849 -1	Kg/m <sup>2</sup>	± 10%	<b>5</b>	
<b>TENSILE PROPERTIES:MAXIMUM TENSILE FORCE</b>	<b>L</b> EN 12311-1	N/50 mm	±20%	<b>450</b>	
	<b>T</b> EN 12311-1	N/50 mm	±20%	<b>350</b>	
<b>TENSILE PROPERTIES:ELONGATION</b>	<b>L</b> EN 12311-1	%	±15 abs.	<b>35</b>	
	<b>T</b> EN 12311-1	%	±15 abs.	<b>35</b>	
<b>MAXIMUM TENSILE FORCE L/T AFTER ART. AGEING</b>	EN 1296 - EN 1297 EN 12311-1	N/50 mm	MDV	<b>±30% Initial Value</b>	
<b>ELONGATION L/T AFTER ART. AGEING</b>	EN 1296 - EN 1297 EN 12311-1	%	MDV	<b>±30% Initial Value</b>	
<b>RESISTANCE TO TEARING</b>	<b>L</b> EN 12310-1	N	±30%	<b>130</b>	
	<b>T</b> EN 12310-1	N	±30%	<b>130</b>	
<b>SHEAR RESISTANCE OF JOINTS</b>	<b>L</b> EN 12317-1	N/50 mm	>=	<b>350</b>	
	<b>T</b> EN 12317-1	N/50 mm	>=	<b>250</b>	
<b>PEEL RESISTANCE OF JOINTS</b>	EN 12316-1	N/50 mm	>=	<b>NPD</b>	
<b>RESISTANCE TO IMPACT</b>	EN 12691	mm	>=	<b>700</b>	
<b>RESISTANCE TO STATIC LOADING</b>	EN 12730-1	Kg	>=	<b>10</b>	
<b>DIMENSIONAL STABILITY</b>	<b>L</b> EN 1107-1	%	<=	<b>±0,3%</b>	
	<b>T</b> EN 1107-1	%	<=	<b>±0,3%</b>	
<b>FLEXIBILITY AT LOW TEMPERATURE</b>	EN 1109	°C	<=	<b>0</b>	
<b>FLEXIBILITY AT LOW TEMP. AFTER ARTIFICIAL AGEING</b>	EN 1296 - EN 1109	°C	<=	<b>NPD</b>	
<b>FLOW RESISTANCE AT ELEVATED TEMPERATURE</b>	EN 1110	°C	>=	<b>130</b>	
<b>FLOW RESISTANCE AT ELEVATED TEM. AFTER ARTIFICIAL AGEING</b>	EN 1296 - EN 1110	°C	>=	<b>120</b>	
<b>EXTERNAL FIRE PERFORMANCE</b>	EN 13501-5	Class	Pass	<b>F roof</b>	
<b>REACTION TO FIRE</b>	EN 13501-1	Class	Pass	<b>F</b>	
<b>WATERTIGHTNESS</b>	EN 1928:2000 MET A	kPa	>=	<b>60</b>	
<b>RESISTANCE TO WATER PENETRATION</b>	EN 1928:2000 MET A (2KPA)	CLASS	Pass	<b>W1</b>	
<b>RESISTANCE TO WATER PEN. AFTER ART. AGEING</b>	EN 1296 - EN 1297 EN 1928 A (2 kPa)	CLASS	Pass	<b>W1</b>	
<b>FINISHING</b>	<b>SLATE FLAKES</b>		<b>POLYETHYLENE FILM</b>		

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

Brai s.r.l. - Zona Industriale Vascigliano I - 05039 - Stroncone - Terni/Italy  
Tel: +39/0744 1906412 Fax: +39/ 0744 1902054 E-mail: serviziotecnico@brai.it

REV 09/2019