

## MACGRID AR range 5.7<sup>®</sup>

### GEOGRIDS & GEOCOMPOSITES FOR ASPHALT REINFORCEMENT APPLICATIONS

MACGRID<sup>®</sup> AR .7 and the composite of the AR G.7 type (geogrid in combination with a nonwoven geotextile) are planar structures consisting in glass fiber strands arranged in a grid shape with squared polymeric coated mesh and - on request - with a pressure sensitive adhesive (AR A.7). The full range of MACGRID<sup>®</sup> AR material has been specially developed for asphalt reinforcement (i.e. highway, airport) and industrial pavement applications.

MACGRID AR		5.7	5A.7	5G.7
<b>Mechanical Properties</b>				
Minimum tensile strength - Longitudinal direction <sup>(1)</sup>	kN/m	50	50	50
Typical strain at max. load - Longitudinal direction	%	2.5 ±1	2.5 ±1	2.5 ±1
Minimum tensile strength - Cross direction	kN/m	50	50	50
Typical strain at max. load - Cross direction <sup>(1)</sup>	%	2.5 ±1	2.5 ±1	2.5 ±1
Young Modulus	GPa	76	76	76
<b>Physical-Chemical Properties</b>				
Geogrid structure		Glass fiber strands		
Coating		Bitumen compatible polymer		
Pressure sensitive adhesive		no	yes	no
Separation nonwoven geotextile impregnated with bitumen compatible polymer coating		no	no	yes
Working temperature	°C	from . 100 to +280		
Melting point	°C	1000		
Mass per unit - nominal value	g/m <sup>2</sup>	275	290	300
Mesh opening size - nominal value <sup>(2)</sup>	mm	25 x 25		
Roll width - nominal value <sup>(3)</sup>	m	from 2.2 to 5.3		
Roll length - nominal value	m	100		

(1) The tensile strength value is based on the component strand resistance and/or on ASTM D6637-91 method A or EN ISO 10319

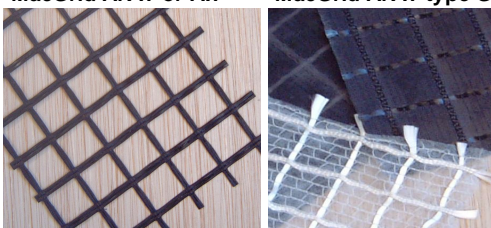
(2) The mesh opening size has a 10% tolerance. Other mesh sizes i.e. 12.5x12.5 and 40x40 or other ones are available on request ; to be verified feasibility with the technical-commercial dpt.

(3) The standard width of the roll is 4, 4.4/2.2 and 5.3/2.65 mts. Other sizes available according to stock availability.

- The standard geotextile used in the geocomposite range G.7 has a typical mass per unit of 13 gr/m<sup>2</sup>; other types of nonwoven geotextiles can be used on request;
- The adhesive used in the A.7 type geogrids is self-adhesive; this special glue is activated by a simply pressure during the installation operations;
- The geocomposite and geogrid range is available in other strengths. For more and detailed information on the full range please contact our technical-commercial dpt.

MacGrid AR .7 or A.7

MacGrid AR .7 type G



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