

MACGRID AR range 12.7®

GEOGRIDS & GEOCOMPOSITES FOR ASPHALT REINFORCEMENT APPLICATIONS

MACGRID® 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® AR material has been specially developed for asphalt reinforcement (i.e. highway, airport) and industrial pavement applications.

MACGRID AR		12.7	12A.7	12G.7
Mechanical Properties				
Minimum tensile strength - Longitudinal direction ⁽¹⁾	kN/m	120	120	120
Typical strain at max. load - Longitudinal direction	%	2.5 ±1	2.5 ±1	2.5 ±1
Minimum tensile strength - Cross direction	kN/m	120	120	120
Typical strain at max. load - Cross direction ⁽¹⁾	%	2.5 ±1	2.5 ±1	2.5 ±1
Young Modulus	GPa	76	76	76
Physical-Chemical Properties				
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 ½100 to +280		
Melting point	°C	1000		
Mass per unit - nominal value	g/m ²	580	610	625
Mesh opening size - nominal value ⁽²⁾	mm	25 x 25		
Roll width - nominal value ⁽³⁾	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

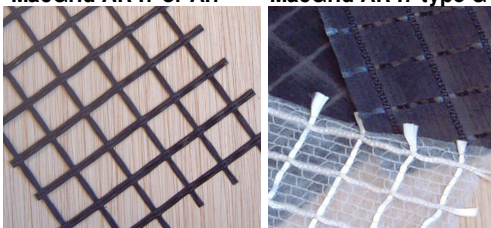
(2) The mesh opening size has a 10% tolerance. Other mesh sizes i.e. 12.5x12.5 and 40x40 or other ones are available on request ; to be verified feasibility with the technical-commercial dpt.

(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/m²; other types of nonwoven geotextiles can be used on request;
- The adhesive used in the A.7 type geogrids is ¹self-adhesive^a; 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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