MACCAFERRI

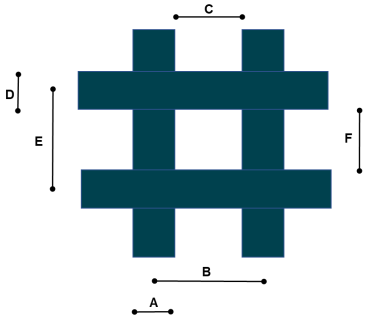
TECHNICAL DATA SHEET
Rev. 00 Date 26.02.2025

MACGRID™ CG04S150.1
POLYPROPYLENE BI-AXIAL GEOGRIDS

MacGrid® CG are high modulus polypropylene geogrids, produced by assembling extruded strip, offering tensile resistance both in the longitudinal and in the transverse direction combined with a separation non-woven geotextile. They are inert to all chemicals existing in natural soils 4<ph<9. MacGrid® CG composites are mostly used for “soil stabilization” and “ground improvement” applications.

MACGRID CG			04S150.1	
Mechanical properties				
Tensile Strength - MD & CMD	EN ISO 10319 ASTM D 4759	kN/m	40.0	1
Strain at Characteristic Strength - MD & CMD		%	7.0	2
Strain at Characteristic Strength - MD & CMD Tolerance		%	± 1	
Tensile strength at 5% strain - MD & CMD		kN/m	32.0	2
Tensile strength at 2% strain - MD & CMD		kN/m	16.0	2
Physical - Chemical properties of the geogrid component				
Geogrid structure			Extruded strips (ribs) welded in a squared mesh	
Polymer			UV stabilized polypropylene	3, 4
Carbon Black Content		%	≥ 2.0	4
Color			white	5
Single rib width	A=D	mm	10	6
Mesh opening size	B=E C=F	mm	41x41 31x31	7
Properties of the separation geotextile				
Geotextile polymer & type		Non Woven PET continuous filament		
Mass per unit		g/m^2	150	2
Tensile strength - MD & CMD		kN/m	9	1
CBR Strength		kN	150	1
Physical - Chemical properties of the geocompoiste				
Roll width (standard)		m	5.85	8
Roll length (standard)		m	100	8

1. Indicated values are based on internal ests run according to EN ISO 10319 standard and have to be intended as MARV (characteristic values Tch at 95% of confidence limit) corresponding to the mean value deducted by the calculated tolerance;
2. Mean values;
3. Polypropylene is unaffected by most chemicals normally found in natural soils including acids, alkalis and salts. It is also not a nutrient so not effected by micro-organisms present in soils;
4. The addition of well dispersed weathering-grade carbon black in the polymer matrix grant adequate resistance to ultra-violet light and provide extended life in exposed condition;
5. Standard color; other colors or black are available on demand;
6. Nominal value; accepted tolerance ±2mm;
7. Nominal value; mesh size refers to length x transverse direction - accepted tolerance ±5mm;
8. Nominal value; a standard tolerance is admitted.



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