

PARAGRID™ HF - CMD 05
STRIP BONDED GEOGRIDS WITH HIGH TENACITY POLYESTER CORE

ParaGrid HF geogrids are planar structures consisting of a biaxial array of composite geosynthetic strips characterised by a new geometry to optimise the bonding performance. The strips comprise of a core of high tenacity polyester (longitudinal) tendons encased in a polyethylene sheath.

PARAGRID HF	90/05	100/05	125/05	150/05	175/05	200/05	250/05
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Mechanical Properties									
UTS - longitudinal	kN/m	96	106	135	160	185	212	265	1
Tolerance	kN/m	-6	-6	-10	-10	-10	-12	-15	1
Strip tensile strength T_{ch} - (longitudinal)	kN	16.2	18.0	22.5	27.0	31.5	36.0	45.0	1
UTS - transverse	kN/m	6	6	6	6	6	6	6	1
Tolerance	kN/m	-1	-1	-1	-1	-1	-1	-1	1
Nominal strain at T_{ch} (longitudinal)	%	9.0	9.0	9.0	9.0	9.0	9.0	9.0	2
Modulus at 5% strain (longitudinal)	kN/m	954	1060	1325	1590	1855	2120	2650	2
Physical Properties									
Strip reinforcement polymer (longitudinal)		PET	PET	PET	PET	PET	PET	PET	
Strip coating polymer		PE	PE	PE	PE	PE	PE	PE	
Thickness	mm	1.4	1.5	1.6	1.8	2.1	2.4	2.7	3
Strip width (longitudinal)	mm	45	45	46	46	46	47	48	3
Mesh size (internal aperture)	mm	940x135	940x135	940x134	940x134	940x134	940x133	940x132	3
Roll length	m	100	150	130	150	150	160	140	2
Roll width	m	4.50	4.50	4.50	4.50	4.50	4.50	4.50	2
Roll diameter	m	0.42	0.52	0.51	0.57	0.59	0.65	0.67	3
Roll weight	kg	200	280	270	330	370	410	430	3

NOTES

1. Short-term tests accordance with EN ISO 10319:215. The values given are mean values of ultimate strength and tolerance values correspond to the 95% confidence level to establish the characteristic short-term tensile strength (T_{ch}) in accordance with EN 13251;
2. Nominal value;
3. Typical values, a standard tolerance of 10% on the reported values is admitted.

For LTDS and safety factors please contact the Maccaferri technical dep.

Special products can be manufactured on request for specific projects.

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