

ParaGrid™

POLYESTER GEOGRID

ParaGrid™ geogrids are planar structure consisting of a biaxial array of composite geosynthetic straps. The straps comprise a core of polyester tendons encased in a polyethylene sheath.

Geogrid structure		Strips having a polyester filament core with polyethylene sheath				
Geogrids type		Strips bonded				
PARAGRID		30/15	50/15	50/25	50/50	80/15
Mechanical properties						
Tensile strength on wide strip						
Tensile longitudinal strength (typical value)	kN/m	30	50	50	50	80
Strip tensile strength (longitudinal)	kN	2,25	3,75	3,75	3,75	6,00
Tensile cross strength (typical value)	kN/m	15	15	25	50	15
Elongation (longitudinal)	%	12	12	12	12	12
Physical properties (typical values)						
Strip reinforcement polymer		PES	PES	PES	PES	PES
Strip coating polymer		PE	PE	PE	PE	PE
Mass per unit	gr/m ²	330	360	420	560	430
Thickness	mm	0,8	0,9	0,9	0,9	1,2
Strip width (longitudinal)	mm	24	24	24	24	24
Mesh size (open area)	mm	200 x 50	200 x 50	125 x 50	50 x 50	200 x 50
Roll length	m	3,9	3,9	3,9	3,9	3,9
Roll width	m	50	50	50	50	50
Roll diameter	m	0,28	0,29	0,3	0,31	0,32
Roll weight	kg	73	79	90	117	93

Geogrid structure		Strips having a polyester filament core with polyethylene sheath				
Geogrids type		Strips bonded				
PARAGRID		100/15	100/25	100/100	150/15	200/15
Mechanical properties						
Tensile strength on wide strip						
Tensile longitudinal strength (typical value)	kN/m	100	100	100	150	200
Strip tensile strength (longitudinal)	kN	7,50	7,50	7,50	11,25	15,00
Tensile cross strength (typical value)	kN/m	15	25	100	15	15
Elongation (longitudinal)	%	12	12	12	12	12
Physical properties (typical values)						
Strip reinforcement polymer		PES	PES	PES	PES	PES
Strip coating polymer		PE	PE	PE	PE	PE
Mass per unit	gr/m ²	490	550	820	620	760
Thickness	mm	1,3	1,3	1,3	1,3	1,3
Strip width (longitudinal)	mm	24	24	24	33	33
Mesh size (open area)	mm	200 x 50	125 x 50	50 x 50	190 x 50	190 x 50
Roll length	m	3,9	3,9	3,9	3,9	3,9
Roll width	m	50	50	50	50	50
Roll diameter	m	0,34	0,35	0,36	0,34	0,38
Roll weight	kg	103	114	164	130	156



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