

Technical Data






polyfelt.Rock GX



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polyfelt[®]
Geosynthetics

polyfelt.Rock GX is a geogrid made from **high tenacity PET yarns** which are covered with a black polymeric coating, providing **high tensile strength at low creep** characteristics.

Properties <i>[Standard]</i>		Unit	GX 35/35 F 	GX 55/30 F 	GX 80/30 F 	GX 55/55 F 	GX 80/80 F 
Tensile strength (T _{ult}) <i>[EN ISO 10319]</i>	MD	kN/m	40	60	85	60	85
	Tolerance	kN/m	-5	-5	-5	-5	-5
CD	MD	kN/m	38	33	33	58	83
	Tolerance	kN/m	-3	-3	-3	-3	-3
Elongation <i>[EN ISO 10319]</i>	MD	%	12	12	12	12	12
	Tolerance	%	+/-2,5	+/-2,5	+/-2,5	+/-2,5	+/-2,5
CD	MD	%	12	12	12	12	12
	Tolerance	%	+/-2,5	+/-2,5	+/-2,5	+/-2,5	+/-2,5
Creep limited strength - 120 years *)	MD	kN/m	21,0	32,9	47,9	32,9	47,9
Long Term Design Strength (LTDS) **) 120 years, sand 2 mm, pH = 4-9		kN/m	18,2	31,4	45,6	31,4	45,6
Aperture size (±5 mm)	MD	mm	25	25	25	25	25
	CD	mm	35	35	35	35	35

The values given are indicative and correspond to average results obtained in our laboratories and in testing institutes. The tolerance is indicated according to the 95% confidence level. The right is reserved to make changes without notice.

Forms of Supply

Length 50 / 100 m

Width 5,10 m

Other forms of supply and special grades, adjusted to the requirements of the project, are available on request.



For an easier identification, the products are marked at their boundary with these colours.

*) LCreep Limited Strength based on RF_{creep} (120 years)

***) LTDS = (T_{ult} - Tolerance) / (RF_{creep} × RF_{inst} × RF_{mat} × RF_{env})

RF _{creep} : creep	- 120 years	= 1,67
	- 10 years	= 1,43
RF _{inst} : installation damage		
GX 35/35	- gravel 20 mm	= 1,25
	- sand 2 mm	= 1,15
GX 55/30, 55/55, 80/30, 80/80	- gravel 20 mm	= 1,1
	- sand 2 mm	= 1,05

RF _{mat} : material		= 1,0
RF _{env} : environment	pH = 4-9	= 1,0

National codes may require application of other reduction factors or test methods.

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The Polyfelt Quality Management System is certified acc. ISO 9001.
Registration No. 631/0


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