TENAX **TT GS**

Type: **045 - 060 - 090 - 120 - 160**

Mono-oriented geogrids

TENAX **TT GS** geogrids are mono-oriented geogrids manufactured from a unique process of extrusion and especially designed for geosynthetic soil reinforced applications. They are manufactured from high density polyethylene (HDPE) materials and tested to maintain a high tensile modulus, high strength junction, as well as an increased durability against installation damage.

Typical applications

Soil retaining wall applications, steep slopes requiring reinforcement leading to increased land usage such as rail, road embankments, bridge abutment side slopes, landfill side slopes.
TENAX GeoRaft structures for reinforced soil mattress, landslide repair.

PHYSICAL CHARACTERISTICS	TEST METHOD	UNIT	DATA	NOTES
STRUCTURE			MONO-ORIENTED GEOGRIDS	
MESH TYPE			OVAL APERTURES	
STANDARD COLOR			BLACK	
POLYMER TYPE			HDPE	
U.V. STABILIZER			CARBON BLACK	
PACKAGING			ROLLS WITH IDENTIFICATION LABEL	

DIMENSIONAL CHARACTERISTICS	TEST METHOD	UNIT	TT 045 GS	TT 060 GS	TT 090 GS	TT 120 GS	TT 160 GS	NOTES
APERTURE SIZE MD		mm	220	220	220	220	220	b,d
APERTURE SIZE TD		mm	13/20	13/20	13/20	13/20	13/20	b,d
ROLL WIDTH		m	1.0	1.0	1.0	1.0	1.0	b
ROLL LENGTH		m	100.0	75.0	50.0	30.0	30.0	b
ROLL DIAMETER		m	0.35	0.35	0.37	0.35	0.40	b
ROLL VOLUME		m^3	0.13	0.12	0.14	0.12	0.16	b

TECHNICAL CHARACTERISTICS	TEST METHOD	UNIT	TT 045 GS	TT 060 GS	TT 090 GS	TT 120 GS	TT 160 GS	NOTES
STRENGTH AT 2% STRAIN	ISO 10319	kN/m	11.0	17.0	26.0	36.0	45.0	a,c,e
STRENGTH AT 5% STRAIN	ISO 10319	kN/m	25.0	32.0	50.0	72.0	90.0	a,c,e
PEAK TENSILE STRENGTH	ISO 10319	kN/m	45.0	60.0	90.0	120.0	160.0	a,c
YIELD POINT ELONGATION	ISO 10319	%	11.5	13.0	13.0	13.0	13.0	b,c
JUNCTION STRENGTH	GRI-GG2	kN/m	36.0	50.0	80.0	110.0	130.0	e
LONG TERM DESIGN STRENGTH	ISO 13431	kN/m	18.5	24.6	36.9	49.2	65.6	f

NOTES:
a) 95% lower confidence limit values, ISO 2602
b) Typical values
c) Tests performed using extensometers at 100 mm/min at 20°C
d) MD : machine direction (longitudinal to the roll)
TD : transverse direction (across roll width)
e) Tolerance: -5%
f) Design strength based upon 120 years design life at 20°C and fill soil up to 40 mm size

Typical Characteristics

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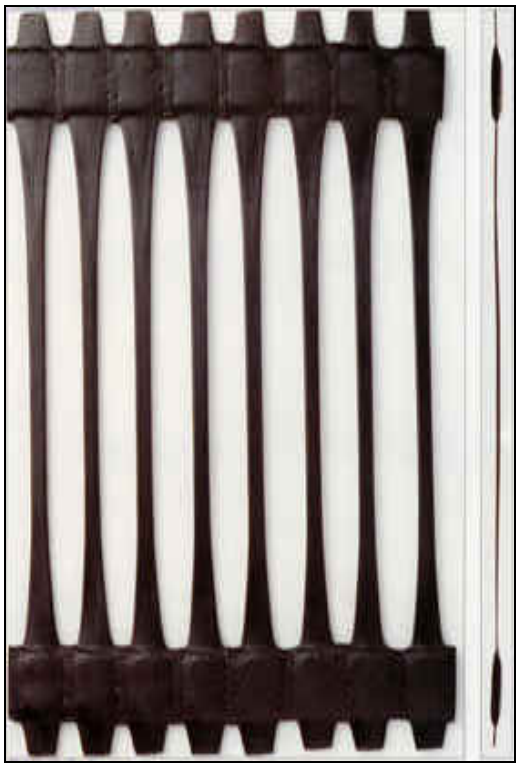

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The TENAX Laboratory has been operational in 1980 and has been continuously improved with the purpose of assuring unequalled technical development of the products and accurate Quality Control.

The TENAX Laboratory can perform mechanical, hydraulic and durability tests, according to the most important international standards like ISO, CEN, ASTM, DIN, BSI, UNI.

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