

TENAX FLEXA

Type: **1 – 2 – 3 – 5 – 7**
Mono-oriented geogrids



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

Typical applications

Steep slopes or walls requiring reinforcement leading to increased land usage such as rail, road embankments, bridge abutment side slopes, landfill side slopes, landslide repair applications.

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

DIMENSIONAL CHARACTERISTICS	TEST METHOD	UNIT	1	2	3	5	7	NOTES
ROLL WIDTH		m	2.0	2.0	2.0	2.0	2.0	b
ROLL LENGTH		m	75	50	50	30	30	b

TECHNICAL CHARACTERISTICS	TEST METHOD	UNIT	1	2	3	5	7	NOTES
STRENGTH at 2% STRAIN	ISO 10319	kN/m	7	14	17	32	45	a,c,d
STRENGTH at 5% STRAIN	ISO 10319	kN/m	16	27	39	56	82	a,c,d
LONG TERM DESIGN STRENGTH	ISO 13431	kN/m	10.8	18.9	29.8	43.3	59.6	e

NOTES:

- a) 95% lower confidence limit values, ISO 2602
- b) Typical values
- c) Tests performed using extensometers at a strain rate of 20±5% per minute in the gauge length at 20°C
- d) Tolerance: -5%
- e) Design strength based upon 120 years design life at 20°C



0799-CPR-25



The TENAX Laboratory has been operational since 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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