FORTRAC® 200 GEOGRID

FORTRAC 200 IS COMPRISED OF HIGH TENACITY POLYESTER YARNS, CRAFTED INTO A STABLE, INTERLOCKING PATTERN AND THEN COATED FOR PROTECTION FROM INSTALLATION DAMAGE. FORTRAC IS EASY TO INSTALL, UNAFFECTED BY FREEZE-THAW CONDITIONS, AND RESISTANT TO CHEMICAL, BIOLOGICAL AND ULTRA-VIOLET EXPOSURE. THE HIGH JUNCTION STRENGTH CAPACITY OF FORTRAC GEOGRIDS PROVIDES AN EFFICIENT TENSILE REINFORCEMENT FOR A WIDE RANGE OF SOIL TYPES. FORTRAC HAS BEEN DEVELOPED FOR USE AS TENSILE REINFORCEMENT FOR RETAINING WALLS, STEEPENED SLOPES, ROADWAYS AND LANDFILL LINING SYSTEMS. FORTRAC GEOGRIDS ARE PRODUCED AT HUESKER'S MANUFACTURING FACILITY THAT HAS ACHIEVED ISO 9001 CERTIFICATION FOR ITS SYSTEMATIC APPROACH TO QUALITY IN DEVELOPMENT, MANUFACTURE, INSPECTION, SALES AND APPLICATION SUPPORT OF GEOSYNTHETICS.

PHYSICAL PROPERTIES OF FORTRAC 200 GEOGRID

PROPERTY	TEST METHOD	ENGLISH units[1]	SI units[1]
Mass/Unit Area	ASTM D-5261	21 oz/yd^2	715 g/m^2
Aperture Size	Measured	1.2 x 1.2 inch	30 x 30 mm
Percent Open Area	CWO 22125	60 %	60 %
Ultimate Wide Width Tensile Strength			
Machine Direction (MD)	ASTM D-6637	13500 lb/ft	198 kN/m
Elongation at Break	ASTM D-6637	10 %	10 %
Long Term Design Strength* (MD)			
Sand, Silt and Clay	GRI GG4 (b)	7398 lb/ft	108.0 kN/m
0.75" Minus Well Graded Gravel	GRI GG4 (b)	7398 lb/ft	108.0 kN/m
2.5" Crushed Stone and Gravel	GRI GG4 (b)	7061 lb/ft	103.1 kN/m

[1] MARV - Minimum average roll values are based on a 95% confidence level.

$$* \text{LTDS} = \frac{T_{ULTIMATE}}{FS_{ID} \times FS_{CR} \times FS_{CD} \times FS_{BD} \times FS_{JNT}}$$

$$= \frac{13500}{1.05 \times 1.58 \times 1.1 \times 1.0 \times 1.0}$$

LTDS = 7398 lb/ft - Sand, Silt and Clay

$$\text{LTDS} = T_{ALLOWABLE} \times FS_{UNC}$$

FS_{ID} = factor of safety for installation damage
FS_{CR} = factor of safety for creep deformation (75 Years)
FS_{CD} = factor of safety for chemical degradation ($4 < pH < 10$)
FS_{BD} = factor of safety for biological degradation
FS_{JNT} = factor of safety for joints (seams and connections)
FS_{UNC} = factor of safety for uncertainties

Standard Roll Size: 16.41 ft (5.0 m) wide x 328.1 ft (100 m) long = 598 yd^2 (500 m^2)

Each roll of Fortrac geogrid delivered to the project site is labeled by HUESKER® with a roll label that indicates manufacturer's name, product identification, lot number, roll number and roll dimensions. All rolls of Fortrac are encased in a sturdy polyethylene wrap to shield the product from rain, dirt, dust and ultraviolet light. Contact HUESKER for information on our material warranty.