

F O R T R A C[®]

G E O G R I D R E I N F O R C E M E N T

FORTRAC 110 MP

FORTRAC 110 MP IS MADE WITH POLYVINYL ALCOHOL (PVA) 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 MP GEOGRIDS HAVE 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.

PROPERTY	TEST METHOD	ENGLISH units ¹	SI units ¹
Mass/Unit Area	ASTM D-5261	12 oz/yd ²	400 g/m ²
Aperture Size	Measured	0.8 X 1.2 inch	20 X 30 mm
Percent Open Area	CW022125	60 %	60 %
Wide Width Tensile Strength (MD)			
@ Ultimate	ASTM D-6637	7535 lb/ft	110.0 kN/m
@ 2% Strain	ASTM D-6637	2960 lb/ft	43.2 kN/m
@ 5% Strain	ASTM D-6637	6775 lb/ft	98.9 kN/m
Elongation at Break	ASTM D-6637	4 - 6 %	4 - 6 %
Long Term Design Strength* (MD)			
Sand, Silt and Clay	GRI GG4(b)	4309 lb/ft	62.9 kN/m
pH Resistance Range (MD)	ASTM D-5819	2 – 13	2 – 13

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

$$\begin{aligned} * \text{LTDS} &= \frac{T_{\text{ULTIMATE}}}{\text{FS}_{\text{ID}} \times \text{FS}_{\text{CR}} \times \text{FS}_{\text{CD}} \times \text{FS}_{\text{BD}} \times \text{FS}_{\text{JNT}}} \\ &= \frac{7535}{1.05 \times 1.514 \times 1.1 \times 1.0 \times 1.0} \end{aligned}$$

$$\text{LTDS} = 4309 \text{ lb/ft} - \text{Sand Silt and Clay}$$

$$\text{LTDS} = T_{\text{ALLOWABLE}} \times \text{FS}_{\text{UNC}}$$

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 (2 < pH < 13)

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: 12.14 ft (3.7 m) wide x 328.1 ft (100 m) long = 443 yd² (370 m²)

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.

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