

# F O R T R A C<sup>®</sup>

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

### FORTRAC 80 MP

**FORTRAC 80 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 <sup>1</sup>	SI units <sup>1</sup>
<b>Mass/Unit Area</b>	ASTM D-5261	11 oz/yd <sup>2</sup>	375 g/m <sup>2</sup>
<b>Aperture Size</b>	Measured	0.8 X 1.2 inch	20 X 30 mm
<b>Percent Open Area</b>	CW022125	70 %	70 %
<b>Wide Width Tensile Strength (MD)</b>			
@ <b>Ultimate</b>	ASTM D-6637	5480 lb/ft	80.0 kN/m
@ <b>2% Strain</b>	ASTM D-6637	2190 lb/ft	32.0 kN/m
@ <b>5% Strain</b>	ASTM D-6637	4930 lb/ft	72.0 kN/m
<b>Elongation at Break</b>	ASTM D-6637	4 - 6 %	4 - 6 %
<b>Long Term Design Strength* (MD)</b>			
Sand, Silt and Clay	GRI GG4(b)	3134 lb/ft	45.7 kN/m
<b>pH Resistance Range (MD)</b>	ASTM D-5819	2 – 13	2 – 13

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

$$\begin{aligned} * \text{LTDS} &= \frac{T_{\text{ULTIMATE}}}{\text{FS}_{\text{ID}} \times \text{FS}_{\text{CR}} \times \text{FS}_{\text{CD}} \times \text{FS}_{\text{BD}} \times \text{FS}_{\text{JNT}}} \\ &= \frac{5480}{1.05 \times 1.514 \times 1.1 \times 1.0 \times 1.0} \end{aligned}$$

$$\text{LTDS} = 3134 \text{ lb/ft} - \text{Sand Silt and Clay}$$

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

FS<sub>ID</sub> = factor of safety for installation damage

FS<sub>CR</sub> = factor of safety for creep deformation (75 Years)

FS<sub>CD</sub> = factor of safety for chemical degradation (2 < pH < 13)

FS<sub>BD</sub> = factor of safety for biological degradation

FS<sub>JNT</sub> = factor of safety for joints (seams and connections)

FS<sub>UNC</sub> = factor of safety for uncertainties

Standard Roll Size: 12.14 ft (3.7 m) wide x 328.1 ft (100 m) long = 443 yd<sup>2</sup> (370 m<sup>2</sup>)

Each roll of Fortrac geogrid delivered to the project site is labeled by HUESKER<sup>®</sup> 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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