



Stabilenka® 400.50

Data Sheet

Earthworks and Foundations

Stabilenka® is a woven geotextile comprised of high tenacity polyester yarns woven into a stable network such that the yarns retain their relative positions. The geotextile is inert to biological degradation and naturally encountered chemicals, alkalis, and acids. Stabilenka® geotextiles have been developed to reinforce steepened slopes, embankments over soft soils, and landfill liners. Stabilenka® woven textiles 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 Stabilenka® 400.50

PROPERTY	TEST METHOD	ENGLISH units ¹	SI units ¹
Mass/Unit Area	ASTM D-5261	20.6 oz/yd ²	700 g/m ²
Wide Width Tensile Strength			
Machine Direction (MD)	ASTM D-4595	2284 lb/in (27,408 lb/ft)	400.0 kN/m
Cross Machine Direction (CMD)	ASTM D-4595	285 lb/in (3,425 lb/ft)	50 kN/m
Tensile Strength @ 5% (MD)	ASTM D-4595	1141 lb/in (13,700 lb/ft)	200 kN/m
Elongation at Ultimate Strength (MD)	ASTM D-4595	10%	10%
Apparent Opening Size (AOS)	ASTM D-4751	40 US sieve	0.425 mm
Long Term Design Strength* (MD)			
Sand	GRI-GT7	1225 lb/in (14,704 lb/ft)	214 kN/m

¹ MARV - Minimum average roll values are based on a 95% confidence level. MD - Machine Direction CMD - Cross Machine Direction

Standard Roll Size: 16.41 ft (5.0 m) wide x 656.2 ft (200 m) long = 1,196 yd² (1,000 m²)
 Weight (includes core) = 1643 lbs. (745 kg)

Each roll of Stabilenka® 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 Stabilenka® are encased in a sturdy polyethylene wrap to shield the fabric from rain, dirt, dust and ultraviolet light. Contact HUESKER for information on our product warranty.

