

# HUESKER STABILENKA® DATA SHEET

## HIGH STRENGTH WOVEN GEOTEXTILE FOR SOIL REINFORCEMENT

PRODUCT			100/50	120/120	150/45	200/45	300/45	400/50	600/50	800/50	1000/100
MECHANICAL	TEST	UNIT									
Ultimate tensile strength Longitudinal Transverse	EN ISO 10.319	kN/m	≥ 100 ≥ 50	≥ 120 ≥ 120	≥ 150 ≥ 45	≥ 200 ≥ 45	≥ 300 ≥ 45	≥ 400 ≥ 50	≥ 600 ≥ 50	≥ 800 ≥ 50	≥ 1000 ≥ 100
Tensile strength @ 6% strain : Longitudinal	EN ISO 10.319	kN/m	≥ 60	---	≥ 85	≥ 120	≥ 180	≥ 230	≥ 320	≥ 460	≥ 600
Strain @ nominal tensile Strength : longitudinal Transverse	EN ISO 10.319	%	≤ 10 ≤ 20	≤ 10 ≤ 10	≤ 10 ≤ 20	≤ 10 ≤ 20	≤ 10 ≤ 20	≤ 10 ≤ 20	≤ 10 ≤ 20	≤ 10 ≤ 20	≤ 10 ≤ 20
Creep after two years @ 50% stress ratio		%	1	1	1	1	1	1	1	1	1
<b>HYDRAULIC</b>											
Permeability index normal to plane Tolerance		m/s	15x10 <sup>3</sup> -3x10 <sup>3</sup>	7x10 <sup>3</sup> -1x10 <sup>3</sup>	5x10 <sup>3</sup> -2x10 <sup>3</sup>	5x10 <sup>3</sup> -2x10 <sup>3</sup>	3x10 <sup>3</sup> -1x10 <sup>3</sup>	3x10 <sup>3</sup> -1x10 <sup>3</sup>	5x10 <sup>3</sup> -2x10 <sup>3</sup>	4x10 <sup>3</sup> -1x10 <sup>3</sup>	3x10 <sup>3</sup> -1x10 <sup>3</sup>
<b>PHYSICAL</b>											
Weight	EN ISO 9864	g / m <sup>2</sup>	~230	~400	~330	~390	~520	~605	~1010	~1360	~1800
<b>PACKAGING</b>											
Roll width x length	NA	m	5x300	5x300	5x300	5x300	5x300	5x200	5x200	5x100	5x100

Stabilenka® Datasheet, 03/2007 Rev. I

#### Notes

- 1) Woven with a polyester yarn in the length direction (warp) and with polyamide or polyester yarns in the cross direction (weft), the use of high-modulus polyester multifilament yarn and a special patented weaving process (straight warp and no crimp) ensures that Stabilenka® mobilises high tensile forces at low elongations.
- 2) Stabilenka® high strength woven geotextiles resistant to naturally occurring soils having ph > 2 and <10.
- 3) The information listed in this data sheet is subject to periodic review and could be changed without notice.
- 4) Stabilenka® high strength woven geotextiles are manufactured according to ISO 9001 quality assurance procedures.

#### TYPICAL APPLICATIONS

- Reinforcement of embankments constructed on soft ground
- Stabilisation in river maintenance schemes, breakwater and jetty construction
- Reinforced earth structures
- Spanning sinkhole areas

#### PROPERTIES

- High tensile forces at low elongation
- Low creep
- High resistance to micro-organisms, chemical and mechanical damage

The information contained herein is furnished without charge or obligation.

No responsibility is accepted for any change in product properties due to environmental influences and or improper application or handling.

