



Under new mandatory European standards for public works, geotextiles specifications are now standardised based on application.

Table 1: For each application the required primary geotextile functions (Filtration [F], Reinforcement [R], Separation [S] and Protection [P]) have been identified.

Table 2: For each function mandatory/harmonised properties have been defined.

Table 3: As part of the CE Mark certification, these properties (to the correct test methods) must be quoted by the manufacturer for the functions relating to the intended applications.

## Terralys™ Woven Geotextiles

Standard	Application	Primary Functions			
		F	R	S	P
EN 13249	Roads and other trafficked areas	★	★	★	★
EN 13250	Railways	★	★	★	★
EN 13251	Earthworks, foundation and retaining walls	★	★	★	★
EN 13253	Erosion control	★	★	★	★
EN 13254	Reservoirs and dams	★	★	★	★
EN 13255	Canals	★	★	★	★
EN 13256	Tunnels and underground structures				★
EN 13257	Solid waste disposal	★	★	★	★
EN 13265	Liquid waste disposal	★	★	★	★

Table 1

Required Properties	Application			
	F	R	S	P
★	★	★	★	★
★	★	★	★	★
★	★	★	★	★
★	★	★	★	★
★	★	★	★	★
★	★	★	★	★
★	★	★	★	★
★	★	★	★	★
★	★	★	★	★

Table 2



Datasheet G1 Version 31

Terralys Woven Geotextile Grades	LF 16/16	LF 29/29	LF 35/35	LF 46/46	LF 57/57	LF 68/68	LF 75/75	LF 90/90
Specification Properties								
Tensile Strength MD/CD (kN/m) [EN ISO 10319]	16/16	29/29	35/35	46/46	57/57	68/68	75/75	90/90
Tolerance	-2/-2	-4/-4	-5/-5	-6/-6	-7/-7	-8/-8	-10/-10	-10/-10
Elongation at Break MD/CD (%) [EN ISO 10319]	20/11	14/16	16/14	18/14	14/14	14/14	14/14	21/14
Tolerance	±5/±3	±4/±4	±4/±4	±5/±4	±4/±4	±4/±4	±4/±4	±5/±4
Dynamic Perforation Resistance (mm) [EN 918]	29	11	16	16	14	12	12	8
Tolerance	+6	+2	+3	+3	+3	+3	+3	+2
Static Puncture (CBR) Resistance (N) [EN ISO 12236]	1,600	3,700	3,700	4,900	5,600	9,000	8,200	9,500
Tolerance	-300	-700	-700	-900	-1,100	-1,800	-1,600	-1,900
Protection Efficiency (10 <sup>3</sup> kN/m <sup>2</sup> ) [EN 13719]	19	23	23	26	25	33	34	38
Tolerance	-4	-5	-5	-5	-5	-7	-7	-8
Characteristic Opening Size (µm) [EN ISO 12956]	350	370	250	370	370	170	200	160
Tolerance	±105	±125	±75	±125	±125	±60	±60	±50
Water Permeability Normal to Plane (10 <sup>-3</sup> m/s) [EN ISO 11058]	12	48	28	36	58	4	6	6
Tolerance	-4	-14	-8	-11	-18	-1	-2	-2
Durability	- To be covered within 1 month after installation							
	- Predicted to be durable for minimum of 25 years in natural soils with pH between 4 and 9 and soil temperatures smaller than 25°C							
	- Terralys geotextiles consisting solely of polypropylene material have passed the oxidation test according to the ENV 13438. The minimum percentage retained strength is > 50%.							
Roll Size (m)	4.50 and 5.15 x 100.00							5.15 x 100.00

Table 3

The values presented above are indicative, they are offered solely to provide possible suggestions. We reserve the right to alter the results of these materials without prior notice. As the installation and the conditions of use are beyond our control, Lys-Fabrics and Hy-Tex (UK) Ltd cannot accept responsibility for the performance of any of these products. The properties listed herein are provided as information only and in no way can create any warranty.