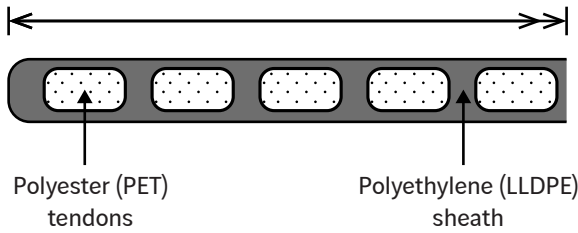


GeoStrap® 5 and GeoStrap® 7 reinforcing strips consist of discrete channels of closely packed high tenacity polyester yarns encased in a 50mm and 70mm wide polyethylene sheaths respectively. The polyester (PET) yarns are selected to comply with the most demanding up to date standards and demonstrate excellent durability in standard environments (pH 3 to 9). GeoStrap® reinforcements are not sensitive to backfills with high concentrations of salts and are suitable to marine applications. The polyethylene continuous sheath ensures a very efficient protection against potential installation damage in aggressively rough backfills. This makes the GeoStrap® reinforcing strip a particularly strong geosynthetic reinforcement.



Technical Properties

Properties	Units	GeoStrap® 5					GeoStrap® 7			
Mechanical Properties										
Characteristic Strength ⁱ	kN	25 ^{A,B}	37.5 ^A	50 ^{A,B}	65 ^{A,B}	75	30	50	75	100
Elongation at break	%	12±4	12±4	12±4	12±4	12±4	12±4	12±4	12±4	12±4
Partial Reduction Factor – Creep ⁱⁱⁱ	@20° C	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Partial Reduction Factor – Installation Damage	D ₅₀ 0.9 mm	1.00	1.00	1.00	1.00	1.00	0.98	0.99	0.99	0.99
	D ₅₀ 5.0 mm	0.98	0.98	0.98	0.98	0.98	0.98	0.97	0.97	0.97
	D ₅₀ 21.0 mm	0.90	0.90	0.97	0.97	0.97	0.96	0.98	0.98	1.00
Partial Reduction Factor -Environmental Effects ^{iv}	-	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Physical Properties										
Reinforcement polymer	-	HT-PET	HT-PET	HT-PET	HT-PET	HT-PET	HT-PET	HT-PET	HT-PET	HT-PET
Coating polymer	-	LLDPE	LLDPE	LLDPE	LLDPE	LLDPE	LLDPE	LLDPE	LLDPE	LLDPE
Width and tolerance	mm	49.5±1	49.5±1	49.5±1	49.5±1	49.5±1	69.5±1	69.5±1	69.5±1	69.5±1
Coil length ⁱⁱ	m	100	100	100	100	100	100	100	100	100

Notes:

- Short-term tests in accordance with EN ISO 10319:2015.
- Values are subjected to 0.1% variation.
- Reduction Factors are at 20°C and for 114 years design life. Reduction factors for higher temperatures up to 40°C can be furnished on request.
- Partial Reduction factors - environmental effects are valid for pH range of 3 to 9.
- Intermediate characteristics strength products of GeoStrap can be manufactured on request.

- NTPEP is certified for GeoStrap 25kN, 50kN, 65kN grades.
- CEDD is certified for GeoStrap 25kN, 37.5kN, 50kN and 65kN grades.
- Our internal laboratory is certified by the National Accreditation Board for Testing and Calibration Laboratories (NABL).

Environmental Properties:

Global Warming Potential A1-A3 (GWP) = 3.3 kg CO₂e/kg
Environmental Product Declaration is available in accordance with ISO 14025 and EN 15804 (Certificate No.: EPD Number RTS_155_21)