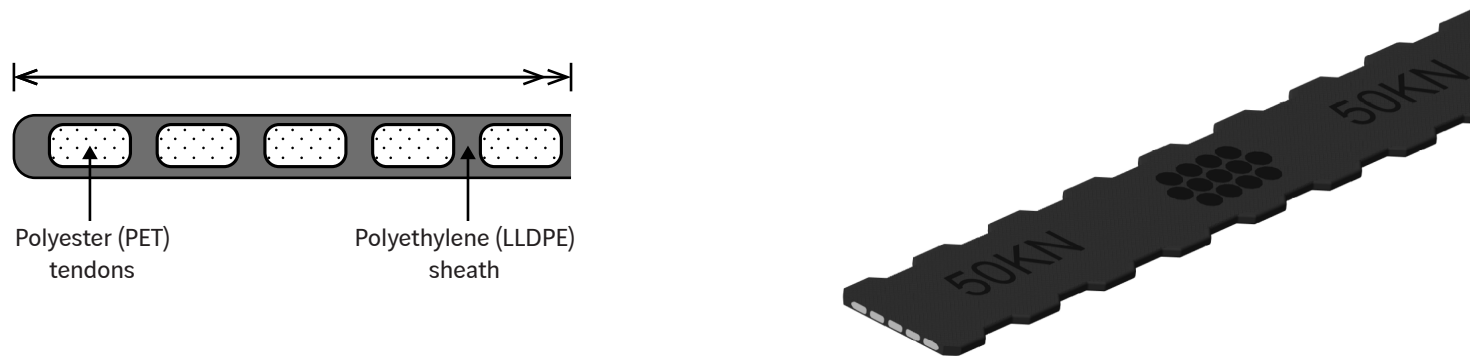


The High Adherence (HA) GeoStrap® 5 and 7 reinforcing strips are engineered for optimal performance in reinforcement applications. Available in widths of 50 mm (GeoStrap 5) and 70 mm (GeoStrap 7), these strips are made of high-tenacity polyester yarns encased in a polyethylene sheath. They are produced through a unique extrusion-coating process. Additionally, trapezoidal corrugations are formed on both sides of the strips to enhance friction for superior stress transfer. The polyester (PET) yarns are meticulously selected to meet stringent industry standards, ensuring excellent durability in standard environments with pH levels ranging from 3 to 9. These features make the GeoStrap®-HA strips ideal for various applications requiring high durability and overall structural integrity.



Technical Properties

Properties	Units	HA GeoStrap® 5				HA GeoStrap® 7			
Mechanical Properties									
Characteristic Strength ⁱ	kN	25	37.5	50	60	70	80	90	100
Elongation at break	%	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	0.73	0.73	0.73	0.73
Partial Reduction Factor – Installation Damage	D ₅₀ 0.9 mm	0.95	0.95	0.99	0.99	0.99	0.99	0.99	0.99
	D ₅₀ 5.0 mm	0.97	0.97	0.99	0.99	0.97	0.97	0.97	0.97
	D ₅₀ 21.0 mm	0.90	0.90	0.99	0.99	0.98	0.98	0.98	1.00
Partial Reduction Factor -Environmental Effects ^{iv}	-	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Physical Properties									
Reinforcement polymer	-	PET	PET	PET	PET	PET	PET	PET	PET
Coating polymer	-	LLDPE	LLDPE	LLDPE	LLDPE	LLDPE	LLDPE	LLDPE	LLDPE
Width and tolerance	mm	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

Note:

- 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 HA GeoStrap can be manufactured on request.
- 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)