

Ready to
improve your
construction

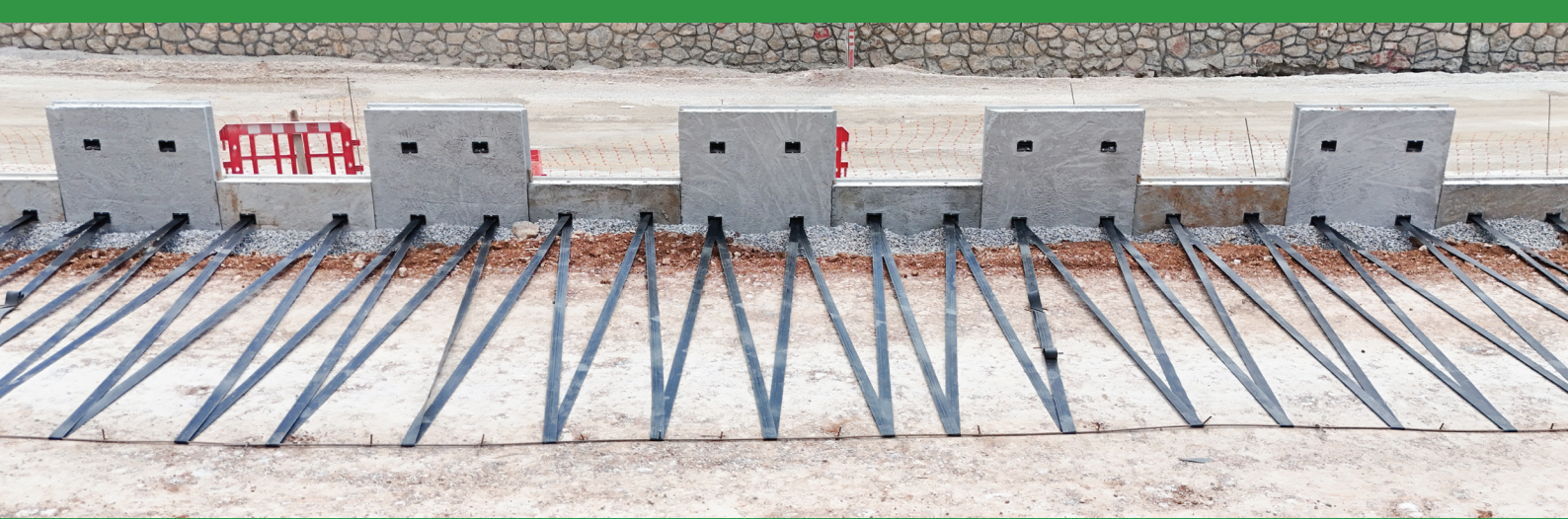
ForStrap

Polymeric Strip



**High-strength and long-lasting polymer strip reinforcement
solution for GeoArme systems.**

istanbul**teknik**



ForStrap Polymeric Strip

Economical, fast and practical reinforcement solution for GeoArme systems.

ForStrap contributing to overall fill stability with its high tensile strength and strong soil interaction withstands the horizontal loads within the fill. It enables the construction of durable, long-lasting GeoArme systems.

Fields of Application

- Capacity enhancement and widening projects for divided roads and highways
- Retaining walls as an alternative to bridge approach walls
- Perimeter walls for parks and landscaping projects
- Median widening applications on divided highways
- Approach walls at intersections and connecting roads
- Projects with high expropriation and land acquisition costs
- Land optimization in urban and infrastructure projects
- Retaining walls constructed in conjunction with viaducts, bridges, and other structures

Application

The elevations at which the polymer strip reinforcements will be installed are determined according to panel dimensions and design.

The foundation is prepared by filling and compacting the base layer. The levelling pad made as cast in-situ concrete. The panels are casted and stored according to specs. The starting panel units are placed as the first line. The fixing probs are placed. The starting filling and compaction done to prepare the surface for the first polymeric strip line. Back fixing rebars are placed according to project layout.

The first layer of polymeric strip reinforcement is laid horizontally and secured to the facing elements, such as reinforced concrete panels, using connection boxes and connection bar.

The strips must be installed continuously from panels to back fixing line in Z form, tight and stretched. Suitable fill material is placed over the strips in layers approximately 25-30 cm thick. Each layer is carefully compacted to ensure structural integrity.

This process is repeated for each layer. After each fill layer is compacted, the next layer of ForStrap reinforcement is installed. The process continues until the wall reaches the required height.

The facing is completed with a suitable facing material, and appropriate drainage systems, such as geodrain, gravel, or drainage pipes, are integrated to prevent water accumulation between the layers.



Advantages

- Provides high tensile strength and works in conjunction with the filling material to enhance the overall stability of the structure.
- Its lightweight structure makes it easy to transport and install in the field. It offers significant logistical advantages compared to other systems.
- Provides effective interaction with the soil through friction, enhancing reinforcement efficiency.
- Offers a more economical, easy-to-install, and advantageous solution compared to traditional retaining wall systems.
- Reinforcement lengths can be easily adjusted when changes are made to the wall geometry during the design process.

Range of Products



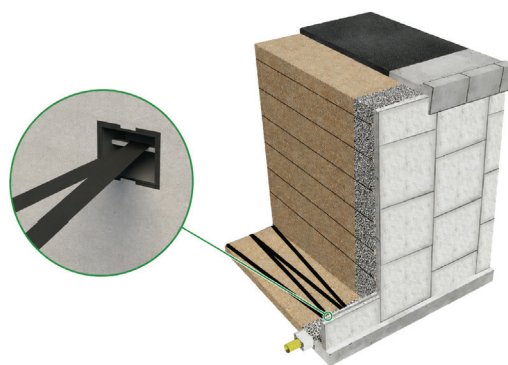
ForStrap PN



ForStrap PS

ForStrap PN	Unit	PN28	PN38	PN45	PN50	PN55	PN65	PN70	PN80
Tensile Strength	kN	≥28	≥38	≥45	≥50	≥55	≥65	≥70	≥80

ForStrap PS	Unit	PS20	PS30	PS40	PS50	PS65	PS70	PS80	PS90	PS100	PS110	PS120	PS150	PS170
Tensile Strength	kN	≥20	≥30	≥40	≥50	≥65	≥70	≥80	≥90	≥100	≥110	≥120	≥150	≥170



Packaging And Storage

ForStrap Polymeric Strips are manufactured in rolls, generally in lengths of 100–200 m. The rolls are stacked on pallets, and the entire pallet is securely wrapped with stretch film to protect the products during transportation and storage. Polymeric Strips should be stored under cover and protected from direct sunlight, rain, heat sources, and other potentially damaging environmental conditions. For detailed loading and transportation information, please contact your sales representative.



ForStrap Polymeric Strips are durable, resistant to seismic and dynamic loads, reliable

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