

Ready to  
improve your  
construction

 **ForStrap**

Polymeric Reinforcement Strap



**ForStrap are linear geosynthetic reinforcements as geostrips produced by polyester yarns coated by PE coating which developed for MSE wall structures.**

istanbul**teknik**



# ForStrap Polymeric Reinforcement Strap

**ForStraps, which have high tensile strength and which are applied in friction with the ground, stabilize the filling by covering the horizontal loads in the filling. In this way, GeoArme Retaining Wall Systems offer quick, cost-effective and practical application solutions.**

**They are used in reinforced wall and filling applications thanks to the high tensile strength and long-term resistance characteristics of polyester yarns. They transfer the load through a special combination with the reinforced concrete panel. The geostrips are installed in a continuous Z-shaped configuration within the fill material, where they interact with both the compacted soil and the panel facing element to create a durable reinforced earth wall system.**

## Fields of Application

- Widening of divided roads and highways
- Alternative to conventional bridge abutment walls
- Perimeter walls for parks and landscaping projects
- Median expansion in divided highways
- Approach retaining walls at intersections and junctions
- Projects with high land acquisition and expropriation costs
- Land optimization in urban and infrastructure projects
- Retaining wall applications with bridging elements

## Application

The ground is prepared by leveling and compacting the base layer; the levels where the geostrips will be placed are determined according to the project.

The first layer of geostrips is laid horizontally and anchored to the facing elements (such as concrete blocks or panels), extending toward the back. The strips must be taut and flat.

A suitable backfill material is placed over the geostrips and compacted in layers (typically 30 cm thick) to ensure structural integrity.

The process is repeated layer by layer: after each fill layer is compacted, the next geostrip layer is installed, continuing until the wall reaches the desired height.

The front wall surface is completed with suitable material and appropriate drainage systems (e.g. geodrains, gravel, drainage pipes) are installed to prevent inter-layer drainage problems.



ForStrap Narrow Series PN

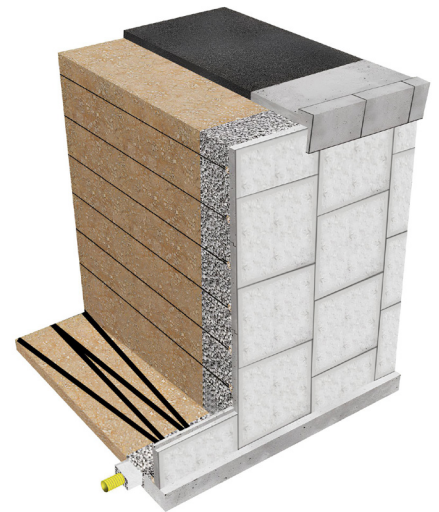
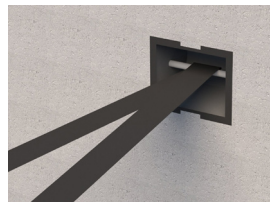


ForStrap Wide Series PS



## Advantages

- Provides high tensile strength, working together with the filling material to enhance overall structural stability.
- Lightweight and easy to install, offering significant advantages in transportation and on-site handling compared to other applications.
- Interacts well with soil through friction, improving reinforcement efficiency, especially in weak or sloped ground conditions.
- It is more advantageous and economical compared to traditional retaining walls.



## Range of Products

ForStrap PN	Unit	PN20	PN30	PN50	PN70
Tensile Strength	kN	≥20	≥30	≥50	≥70

ForStrap PS	Unit	PS20	PS30	PS50	PS70	PS100
Tensile Strength	kN	≥20	≥30	≥50	≥70	≥100

## Packaging And Storage

After the product is installed, it should be covered as soon as possible and within a maximum 2 weeks. Products are packed with PE foil packing. Rolls should be stored under cover so that they are not affected by water, oil, mud, sunlight, heat and fire sources.

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**ForStrap Polymeric  
Reinforcement Strap**  
are durable, resistant  
to seismic and dynamic  
loads and reliable.

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