

ARMATEX®

Soft Soil Reinforcement



Main applications:

- Reinforcing embankments of road, car parks, railways and airports.
- Embankments on piles.
- Reinforcement of soils.
- Retaining walls.
- Landslide repair.
- Construction of noise barriers.
- Stabilisation of sea, river banks.
- Reinforcement of any type of unstable foundation.

- **Armatex® M: (woven PVA grid, pvc coated)**

Geogrid for soil reinforcement made from woven polyvinylalcohol yarns with pvc coating.

Advantages:

- High tensile strength at low elongation.
- Very low strain at max. load (cca 6%).
- High resistance to chemism in soils, acid and alkali earth (pH 0-14).
- High level of micro-biological resistance.
- High resistance to damage during installation.
- Optimal interlocking with coarse-grained soils.
- High pull-out resistance.
- Low values of creep ensure long-term stability.
- High tensile strength at 2, 3 and 5% strain.
- Increases the safety and stability of embankments.
- Reduces volume of earthworks.
- Preserves natural appearance of slopes.
- Cuts construction costs.

- **Armatex® G: (woven PET grid, pvc coated)**

Geogrid for soil reinforcement made from woven polyester yarns with pvc coating.

Advantages:

- Optimal interlocking with coarse-grained soils.
- High pull-out resistance.
- Low values of creep ensure long-term stability.
- Increases the safety and stability of embankments.
- Reduces volume of earthworks.
- Preserves natural appearance of slopes.
- High resistance to damage during installation.
- High level of micro-biological resistance.
- Cuts construction costs.

Physical Properties

Armatex M: woven geogrid for soft soil reinforcing (woven grid made from high tenacity PVA yarns with pvc coating)

Technical	Method	Units	20/20	35/20	40/40	55/30	65/65	80/30	80/80	110/30
Tensile strength EN ISO 10319	MD min.	kN/m	25	40	45	60	75	90	90	130
	CD min.	kN/m	25	25	45	35	75	35	90	35
	tolerances MD, CD			-5	-5	-5	-5	-10	-10, -5	-10
Strain at maximum load EN ISO 10319	MD	%	5	6	5	5	5	6	5	6
	CD	%	6	6	6	6	6	6	6	6
	tolerances MD, CD			±1	±2	±1	±2	±1	±2	±1

Technical	Method	Units	150/30	150/150	200/20	200/50	200/100	250/125		
Tensile strength EN ISO 10319	MD min.	kN/m	170	170	220	220	220	270		
	CD min.	kN/m	35	170	25	55	110	140		
	tolerances MD, CD			-20	-20	-20, -5	-20, -5	-20, -10	-20, -15	
Strain at max. load EN ISO 10319	MD	%	6	6	6	5	6	6		
	CD	%	6	6	6	6	6	6		
	tolerances MD, CD			±2	±1	±2	±1	±2	±2	
Roll size		m	5 x 100							
Mesh size	ISO 4648	mm	20 x 20 or 35 x 35							

Physical Properties

Armatex G: woven geogrid for soft soil reinforcing (woven grid made from high tenacity PET yarns with pvc coating)

Technical	Method	Units	20/20	35/20	35/35	40/40	55/30	55/55	65/20	65/30
Tensile strength EN ISO 10319	MD min.	kN/m	25	40	40	45	60	60	70	70
	CD min.	kN/m	25	25	40	45	35	60	25	35
	tolerances MD, CD			-5	-5	-5	-5	-5	-5	-5
Strain at max. load EN ISO 10319	MD	%	12.5	12.5	12.5	12.5	13	13	13	13
	CD	%	12.5	12.5	12.5	12.5	13	13	13	13
	tolerances MD, CD			±2.5	±2.5	±2.5	±2.5	±2.5	±2.5	±2.5

Technical	Method	Units	65/65	80/30	80/80	110/30	110/110	150/30	150/50	150/150
Tensile strength EN ISO 10319	MD min.	kN/m	75	90	90	130	130	170	170	170
	CD min.	kN/m	75	35	90	35	130	35	55	170
	tolerances MD, CD			-10	-10, -5	-10	-20, -5	-20	-20, -5	-20, -5
Strain at max. load EN ISO 10319	MD	%	12.5	12.5	13	13	13	13	12.5	14
	CD	%	12.5	12.5	13	13	13	13	12.5	14
	tolerances MD, CD			±2.5	±3.5	±2.5	±2.5	±2.5	±2.5	±3

Technical	Method	Units	200/50A	200/50	300/50					
Tensile strength EN ISO 10319	MD min.	kN/m	200	220	330					
	CD min.	kN/m	55	55	55					
	tolerances MD, CD			-50, -5	-20, -5	-30, -5				
Strain at max. load EN ISO 10319	MD	%	12	18	14					
	CD	%	12	13	13					
	tolerances MD, CD			±3	±3, ±2.5	±3, ±2.5				
Roll size		m	5 x 500							
Mesh size	ISO 4648	mm x mm	20 x 20 or 35 x 35							

Disclaimer

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