

Ready to
improve your
construction



GeoTeknik
Non-Woven Geotextiles

GeoTeknik is a non-woven geotextile product produced from polypropylene and polyester based fiber blends by needlepunch method in white color.

istanbul**teknik**



GeoTeknik

Non-Woven Geotextiles

Geoteknik Non-Woven Geotextile is a multi-functional felt product which have high static CBR coefficient and dynamic puncture resistance with its adjusted aperture opening size, are used for filtering purposes to prevent the pores of the drainage pipes from clogging with fine materials such as silt and sand, for separating coarse and fine materials to prevent unwanted mixing, and also for protecting to prevent damaging of sharp aggregates to synthetic geomembranes.

Fields of Application

Filtration (F);

- At French drain ditches.
- At green roof drainage.
- At perforated drainage pipe coatings.
- At vertical applications such as tunnels, retaining walls and foundation walls.

Protection (P):

- Protection of polymeric and bitumen waterproofing membranes on roofs and terraces.
- Protection of external thermal insulation board on roofs or terraces.
- Protection of liquid waterproofing membrane on roofs, terrace or balconies.

- Protection of waterproofing liner as PVC, TPO, LDPE, or HDPE on ponds and artificial lakes.

- Protection of thin screed and topping concrete layer.

Separation (S):

- To ensure the continuity of the capacity of the section and to reduce the formation of local settlements by preventing the sinking and contamination of the granular fill to be applied on the weak soil.
- Used at the coastal structures in order to prevent dislocation and mixing of fine and coarse material due to wave and scour effects.

Drainage (D):

- Used between two restrictive layer to transfer water to drainage pipes.

Advantages

- Made by pure polypropylene and/or polyester staple fibers.
- Needled homogenously and properly.
- Needling number and frequency are adjustable.
- Line speed is adjustable.
- Fiber length and size (denier / diameter) are adjustable.
- Thermal treatment temperature is adjustable.
- Thermal treatment roll pressure is adjustable.
- Fiber blend and mixing and crimp are adjustable.
- Geoteknik Non-Woven Geotextiles can be produced up to 6 meters wide and 200 meters long.

Polypropylene and/or polyester stable fiber blends to be used for filter, separation and/or protection purposes at the buildings, roads, railways, airports, tunnels, dams, irrigation channels, lagoons, solid and liquid waste storages and disposal areas, sports fields etc.

Application

GeoTeknik Non-Woven Geotextiles must be applied on ready surface tightly and properly in order to assure full surface contact without any fluctuation. GeoTeknik has to be overlap underneath the geotextile corner or edge minimum 25 cm to avoid sliding while backfilling process. Overlaps and other application details should be given on project.



Range of Products

Property		Standard	Unit	1500	2000	2500	3000	3500	4000	5000	6000	8000	9000	10000	12000
Unit Weight		EN ISO 9864	gr/m² (min)	150	200	250	300	350	400	500	600	800	900	1000	1200
GeoTeknik PP	Tensile Strenght (MD/CMD)	EN ISO 10319	kN/m	>8.0	>11.0	>14.0	>17.0	>20.0	>24.0	>29.0	>33.0	>38.0	>45.0	>52.0	>62.0
	Static Puncture Resistance	EN ISO 12236	N	>1500	>2100	>2500	>3200	>4000	>4700	>5500	>6200	>7100	>7700	>8500	>9500
	Thickness (at 2kPa)	EN ISO 9863-1	mm	>1.60	>2.00	>2.30	>2.60	>3.00	>3.50	>4.20	>5.10	>6.00	>7.30	>8.20	>10.00
GeoTeknik S	Tensile Strenght (MD/CMD)	EN ISO 10319	kN/m	>5.5	>8.0	>10.0	>12.0	>14.5	>17.5	>21.0	>24.0	>27.5	>32.5	>37.5	>45.0
	Static Puncture Resistance	EN ISO 12236	N	>1400	>1950	>2300	>3000	>3700	>4400	>5200	>5800	>6500	>6900	>7500	>8000
	Thickness (at 2kPa)	EN ISO 9863-1	mm	>1.20	>1.45	>1.70	>1.90	>2.20	>2.60	>3.10	>3.75	>4.40	>5.40	>6.00	>7.40
Intended Use				F+S	F+S	F+S	F+S	F+S	F+S	F+S	F+S+P	F+S+P	F+S+P	F+S+P	F+S+P

*Elongation @ break MD/CMD according to EN ISO 10319 min. 50%

*Above figures are minimum MRS values

*Average tolerans is 10% of above figures

*Required sizes, dimensions and types can be produce according to project requirement and order quantity and specification values.

Packaging And Storage

GeoTeknik Non-Woven Geotextiles are dispatched in the form of rolls with 1,0 m – 6,0 m width and 50 m – 100 m – 200 m length. Products are covered with PE sheet. Rolls should be stored under cover so that they are not affected by water, oil, mud, sunlight, heat and fire sources. Products must be kept indoor on a smooth surface.

Average loading capacity;

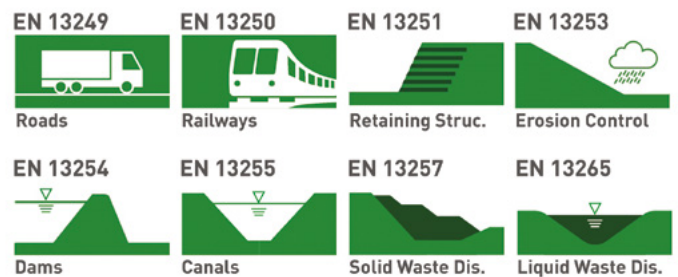
Truck: 6.00 m wide rolls - up to avg. PP: 7500 kg

S: 9000 kg1x40

Container: 5.80 m wide rolls - up to avg. PP: 7500 kg

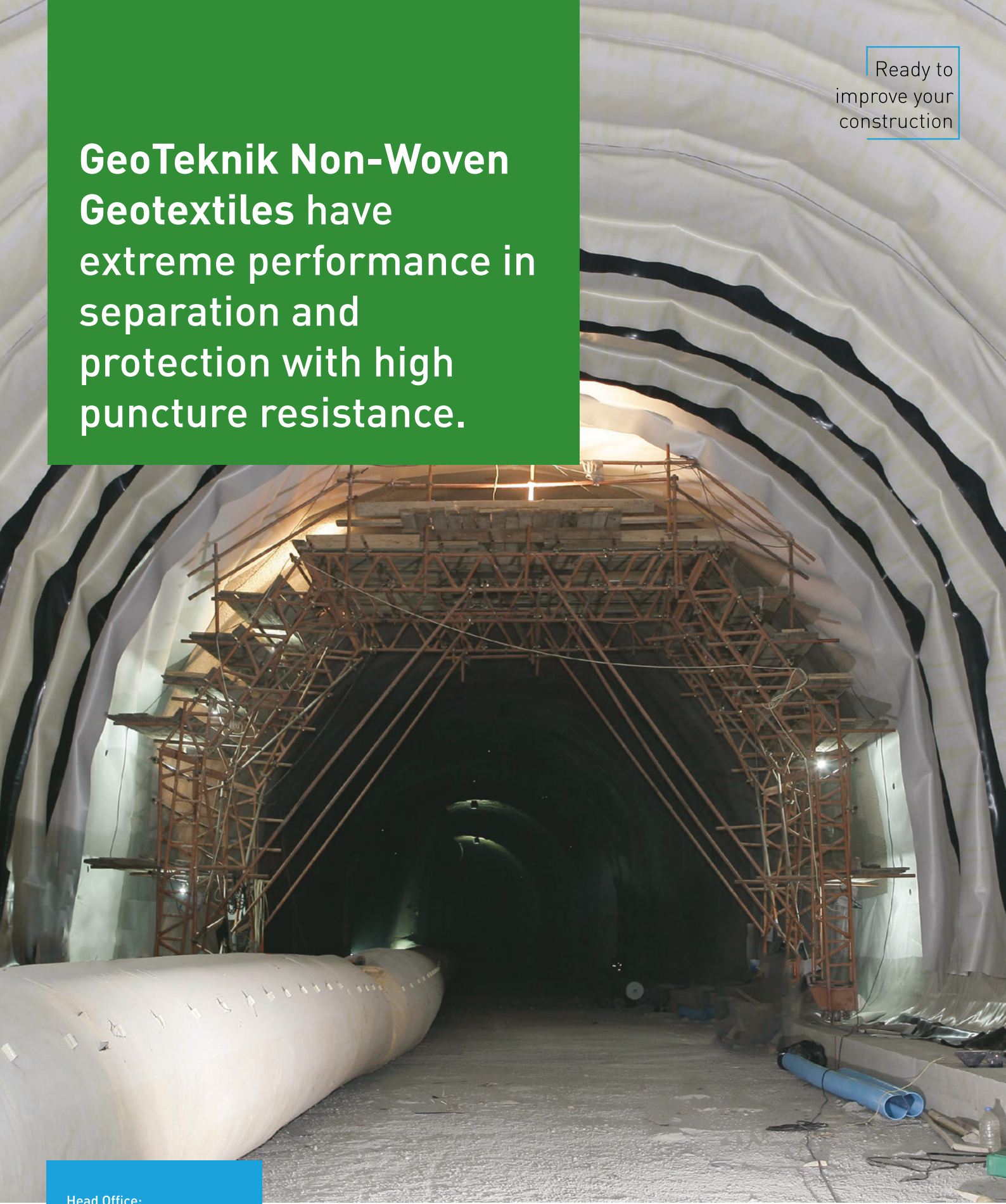
S: 9000 kg

Intended Use



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**GeoTeknik Non-Woven
Geotextiles have
extreme performance in
separation and
protection with high
puncture resistance.**



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