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construction

 **izoTeknik**  
Non-Woven Geotextiles



**izoTeknik is a Non-Woven Geotextile product in multi color which is manufactured of needlepunching polyester (PET) based fiber blends.**

istanbul**teknik**





# izoTeknik

## Non-Woven Geotextiles

Izoteknik 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

#### izoTeknik Filter (F);

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

#### izoTeknik Protector (P):

- Protection of polymeric 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, LLDPE, or HDPE on ponds and artificial lakes.
- Protection of thin screed and topping concrete layer.

#### izoTeknik Separator (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 rubbing effects.

#### izoTeknik Drainage (D):

- Used between two restrictive layer to transfer water to drainage pipes.
- Used as moisture retaining layer and protection for insulation for green roof systems.

### Advantages

- Needed 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.
- Izoteknik Non-Woven Geotextiles can be produced up to 6 meters wide and 200 meters long from 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

Izoteknik Non-Woven Geotextiles must be applied on ready surface tightly and properly in order to assure full surface contact without any fluctuation. IzoTeknik 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/m <sup>2</sup> (min)	150	200	250	300	350	400	500	600	800	900	1000	1200
Tensile Strength (MD/CMD)	EN ISO 10319	kN/m	>3.0	>4.0	>4.5	>5.5	>6.5	>7.5	>10.0	>12.0	>15.0	>18.0	>21.0	>25.0
Static Puncture Resistance	EN ISO 12236	N	>550	>700	>900	>1100	>1200	>1300	>1600	>1800	>2100	>2300	>2700	>3100
Thickness (at 2kPa)	EN ISO 10319	mm	>1.0	>1.2	>1.3	>1.5	>1.7	>2.0	>2.4	>3.0	>3.6	>4.1	>5.0	>6.0
Intended Use			F+S	F+S	F+S	F+S	F+S	F+S	S+P	S+P	S+P	S+P	S+P	S+P

\*Nominal elongation at break is over %50

\*Above figures are minimum MRS values

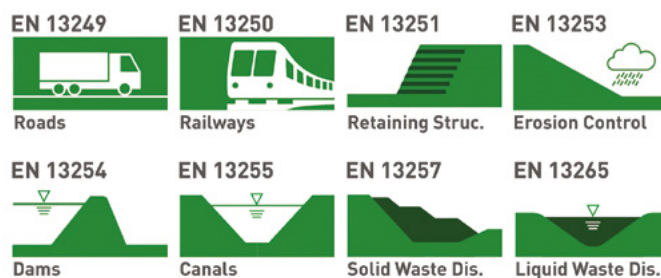
\* Average tolerance are +/-%10

\*Required size and types can be arranged according to project requirements and order quantity.

## Packaging And Storage

The materials 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. Products must be kept away from water, dust, mud, oil, direct sun light, heat and combustible sources. Products must be kept indoor on a smooth surface. Trucks : 6.00 m wide rolls - up to avg. 7500 kg. Container: 5.80 m wide rolls - up to avg. 7500 kg

## Intended Use





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**İzoTeknik Non-Woven  
Geotextiles have good  
performance for green  
roof and solid waste  
liner systems with high  
weathering resistance.**

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