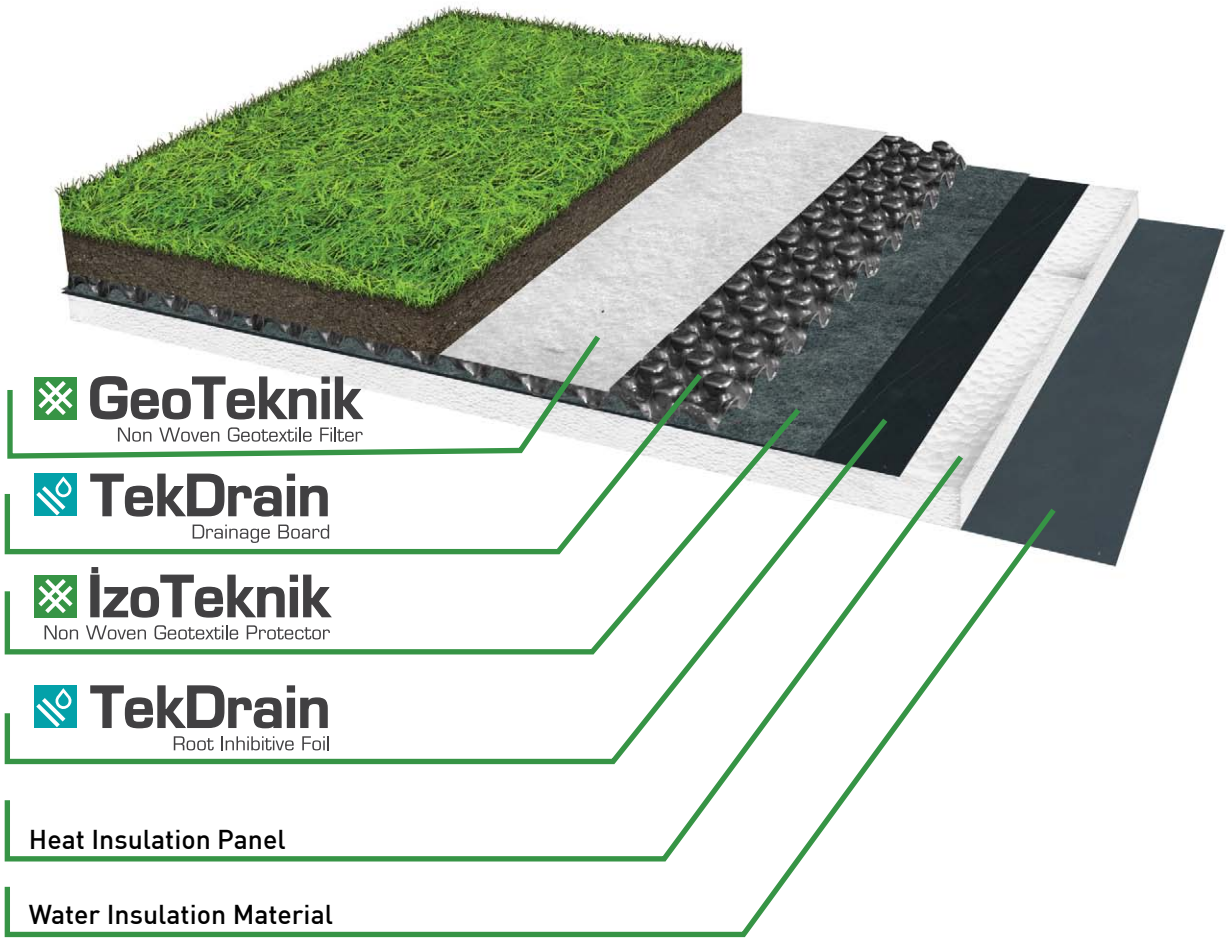
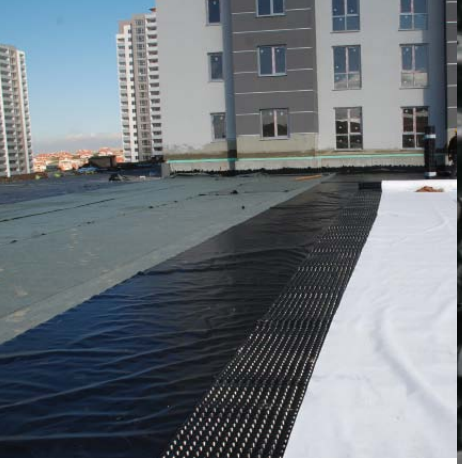
istanbulteknik
"Ready to improve your construction"




# GeoGreen

## Green Roof System

"The Right Product for the Right Solution
In Green Roof Applications!"



GeoGreen
Green Roof System

# What are the advantages of a Green Roof?

**Retains the Rainwater**
Green roofs use the rainwater to foster a green cover thus reducing the need for drainage. Such an arrangement reduces the load on waste water treatment network. A roof, which is densely planted to a height of 20 to 40 cm, has the capacity to retain water up to a height of 10 to 15 cm. This means that 10 to 15% of precipitation received in a residential area can be retained by green roof tops. In parallel to the increase in the thickness of the soil used, the capacity of the roof top to retain the precipitation received will increase.

**Prevents Air Pollution**
Green Roofs hold between 200 g to 2 kg of dust on annual basis depending on the wind. On the basis of the measurements taken in areas in possession of green cover or not; the areas lacking green cover report to have 3 to 7 times more dust particles in the air.

**Oxygen Production and Vapor Permeability**
Green roofs improve the air quality and as such increase the ease of breathing. 1 square meter of grass roof top meets oxygen requirement of 4 people in summer months. As we include the nights and the months of winter in the equation we can confidently say that 1.5 square meter grass planted area is capable of producing oxygen to meet the requirements of one person per year. Moreover, the covers made up of green grass roof tops ensure that the humidity in the building increases thanks to their vapor permeability. This improves the life quality of the building residents and affects the threshold of heat perception positively.

%85
%70

**Insulation and Weight**
Green roof tops in their dry form provide heat insulation equivalent to the roofs made of rock wool. Thanks to its structure, which does not radiate heat with high insulation value, this type of roofing reduces urban heat island effect. The temperature of the roof surface is decreased contributing to the creation of cool environments. It is calculated that a green roof prevents the seeping of the outside temperature to the inside at the rate of 85% while the heat loss is reduced at the rate of 70%. It can be seen that green roofs help reduce the general costs by reducing the cooling and heating expenses.

**Sound insulation**
Green roofs absorb sound and reduce noise. Green roofs drop high decibel sound frequencies to below the noise threshold to provide silent spaces.

GeoGreen
Green Roof System

**Electromagnetic radiation**
A green roof in a layer of 10 cm reduce is measured to reduce electromagnetic radiation up to 99%.


**Greenhouse gases and heavy metals**
Soil on the green roofs retains heavy metals and salt infiltrated into the rainwater from air. It is detected that metals such as copper, lead and cadmium are retained by 98% and zinc by 16% and removed from the rainwater.

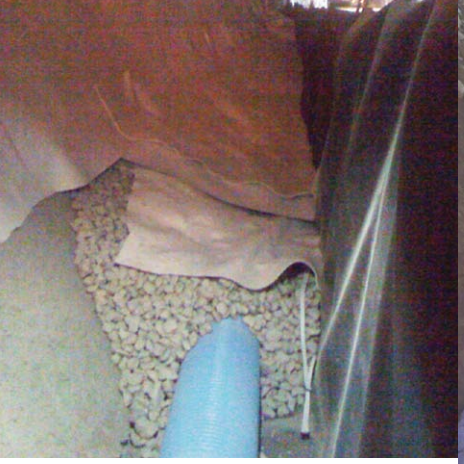
**Recycling and low energy**
Green roofs are made of recycled materials. Low energy used to produce and implement them. Most of the time, manpower is sufficient.

**Soil recovery**
Green roofs ensure recovery of the vital soil lost during excavation for foundation. It creates green areas in the city, lending color to the urban life. It ensures contact of the buildings with nature, creating safe and healthy spaces.

**Gaining from Area and Creating a New Image**
Green roof tops provide the opportunity to utilize wide roof top space while enjoying means of sophisticated landscaping. In addition to the new uses provided in the wealth of design and aesthetic choices offered; this type of roofing is a beauty integrated with green.

**Protection of the Building**
Green roofs protect the building against ultra violet lights and load bearing construction as well as protecting the roof against mechanical damage. In comparison to the -20 to +80 expansion range encountered in traditional roofs, a 10 cm thick green roof top narrows down the range for daily and seasonal temperature changes. The surface temperature remains between 10 to 30 degrees, exerting none of the ordinary contraction or expansion stress and as such material fatigue and brittleness would not be a concern. The useful life of the roof and the building will be extended. Renewal costs and operating expenses are reduced.

**Fire**
Green Roofs do not contain any inflammable substances. They do not conduct heat and are resistant to flames. Due to the reasons listed above this type of roofing has the highest level of safety against fires.



# GeoTeknik

## Non-Woven Geotextile Filter

**GeoTeknik Non-Woven PP Heat Treatment Filter Geotextile**

**GeoTeknik Filter** is a non woven geotextile produced needle punching and thermally treated as to be filter material. **GeoTeknik** is producing short cut polyester or polypropylene staple fiber.

**Fields Of Application**

**GeoTeknik Filter** protects the system to avoid obstruction of the pores of drainage pipe, ditch or channel by fine material.

**GeoTeknik Filter** must be applied on ready surface tighly and properly in order to assure full surface contact without any flexion. GeoTeknik has to be overlap underneath the geotextile corner or edge minimum 25 cm to avoid sliding while backfilling process.

**GeoTeknik Filter** non woven geotextile material recommended as filtering and bedding material for effective control and direction of water is used at the following applications;

- At French drain ditches
- At green roof drainage
- At perforated pipe coatings
- At vertical applications such as tunnels and retaining walls
- At coastal structures

**Advantages**

**GeoTeknik Filter** geotextile material has below production properties;

- Manufactured from pure fiber.
- Tight processing and advanced production technology ensures that fibers are homogeneously distributed.
- The means for manufacturing up to a width of 6 m ensures an application with minimum overlap in large areas with savings on material and labor and fast application advantage.

**Packaging And Storage**

The materials are dispatched in the form of roils with 1 m - 6 m width and 100 m - 200 m length.

**Technical Specifications**

| | | | |
|---|---|---|---|
| Weight | | $g/m^2$ | 110 |
| Thickness (at 2kPa) | TS EN ISO 9863-1 | mm | 0.90 |
| Tensil Strength<br>MD<br>CMD | TS EN ISO 10319 | kN/m | <br>6<br>7 |
| Elongation at Break (MD/CMD) | TS EN ISO 10319 | % | 50-80 |
| Static Punching | TS EN ISO 12236 | N | 1200 |
| Dynamic Punching | TS EN ISO 13433 | mm | 33 |
| Permeability | TS EN ISO 11058 | $l/m^2s$<br>m/s | 110<br>0.11 |
| Visible Aperture Size | TS EN ISO 12956 | mm | 0.14 |

Roll Packing

# TekDrain

## Green Roof Drainage Boards

**Areas of Use**
- Building roofs
- Parking Lot roofs

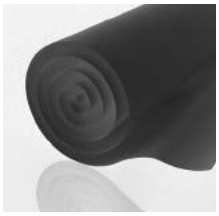
**Advantages**
- It has a major role in building insulation.
- It provides significant savings in heating and air conditioning system costs and carbondioxide emissions of green building applications.
- Due to its plant layer, roof facade systems of the building are also protected against external factors.
- With multidimensional use of plant layer, it assists urban water management
- Green roof and facade systems that can hold a significant amount of rainwater assists in water treatment.
- Investment to green building systems also provides savings in operation and investment to canalization systems and water treatment systems.
- Green roof application is known to improve air quality as well.
- It diminishes the effects of sun rays that affect the building

**Packaging and Storage**
- Produced in 1 x 2 m plates.
- Stored horizontally.

**Technical Specifications**

| | GF 1400 | GF 1500 | GF 1700 |
|---|---|---|---|
| Compression Strength | TS EN ISO 25619-320 kN/m² | TS EN ISO 25619-370 kN/m² | TS EN ISO 25619-420 kN/m² |
| Weight | 1.4 kg/ m² | 1.5 kg/ m² | 1.7 kg/ m² |
| Water Filled Weight | 5.5 kg/ m² | 5.5 kg/ m² | 6.18 kg/ m² |
| Roll Length | 2 m | 2 m | 2 m |
| Roll Width | 1 m | 1 m | 1 m |
| Water Holding Capacity | 5 lt/m² | 5 lt/m² | 5 lt/m² |
| Blister Height | 25 mm | 25 mm | 25 mm |
| Water Flow rate | İ=0.01 0,95 lt/(m.s)<br>İ=0.02 1,35 lt/(m.s)<br>İ=0,03 2,10 lt/(m.s) | İ=0.01 0,95 lt/(m.s)<br>İ=0.02 1,35 lt/(m.s)<br>İ=0,03 2,10 lt/(m.s) | İ=0.01 0,95 lt/(m.s)<br>İ=0.02 1,35 lt/(m.s)<br>İ=0,03 2,10 lt/(m.s) |

Roll Packing



CE 12 MADE IN TURKEY

# TekDrain

## Geo 10 400 Drainage Board

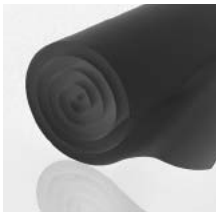
**TekDrain Geo 10 400** has high drainage capacity by preventing blockage of waste gap around the blister with its integrated geotextile cover. Air gap between the blisters enables safe drainage of flowing water and protection of the structure. Drainage board has high compression strength and important technical specifications for tunnel and infrastructure applications.

**TekDrain Geo 10 400** is preferred for sub roads, parking lots, bridges and garages for its high drainage performance

**Technical Specifications**

| | |
|---|---|
| Plate Raw Material | HDPE |
| Geotextile Raw Material | PP |
| Plate Color | Black |
| Geotextile Color | Silver, Gray |
| Plate thickness | 0.6 mm |
| Geotextile weight | 136 g/m$^2$ |
| Roll width | 2.0 – 2.4 m |
| Roll Length | 12.5 mm |
| Roll Weight | 22.15 kg |
| Area Weight | 750 g/m$^2$ |
| Unit Weight | 886 g/m$^2$ |
| Blister Height | 10 mm |
| Blister Gap | 3,360 per m$^2$ |
| Air gap between blisters | 7.9 l/m$^2$ |
| Drainage Capacity | 4.8 l/sec/m |
| | 288 l/min./m |
| | 17,300 l/hrs/m |
| Geotextile Permeability | 85 l/m2/sec |
| Compression Strength | 400 kN/m2(40 t/m$^2$) |
| Application Temperature | +40° C to +80° C |
| Warnings | Prevent from potable water |

Roll Packing



# TekDrain

## GGF 20 Green Roof Drainage Boards

**Areas of Use**
- Building roofs
- Parking Lot roofs

**Advantages**
- It has a major role in building insulation.
- It provides significant savings in heating and air conditioning system costs and carbondioxide emissions of green building applications.
- Due to its plant layer, roof facade systems of the building are also protected against external factors.
- With multidimensional use of plant layer, it assists urban water management.
- Green roof and facade systems that can hold a significant amount of rainwater assists in water treatment.
- Investment to green building systems also provides savings in operation and investment to canalization systems and water treatment systems.
- Green roof application is known to improve air quality as well.
- It diminishes the effects of sun rays that affect the building

**Packaging and Storage**
- Produced in 2.5 x 1.2 m plates or 2 x 20 m rolls.
- Rolls are stored vertically while plates are stored horizontally.

**Technical Specifications**

| | |
|---|---|
| Weight | 1000 g/m$^2$ |
| Plate Raw Material | HDPE |
| Plate Color | Black |
| Film thickness | 1 mm |
| Roll Width | 2.50 m |
| Plate Dimensions | 2.5 x 1.2 m – 2 x 20 m |
| Blister height | 20 mm |
| Plate Thickness | 20 mm |
| Blister Gap | 400 per m$^2$ |
| Air gap between blisters | 14 l/m$^2$ |
| Drilling Diameter | 5 mm |
| Compression Strength | 200 kN/m$^2$ |
| Application Temperature | +40° C to + 80° C |
| Water Flow Rate | Drainage rate of 1.2 l/sec.m$^2$ |
| Heat Resistance | -30° C to + 80° C |
| Water holding capacity | 7.00 l/m$^2$ |
| Does not decompose under soil, CE certified | |

Roll Packing

# TekDrain

## GGF 20 150 Green Roof Drainage Boards

**Areas of Use**
- Building roofs
- Parking Lot roofs

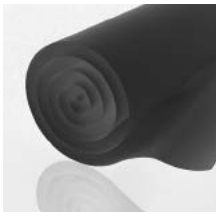
**Advantages**
- It has a major role in building insulation.
- It provides significant savings in heating and air conditioning system costs and carbondioxide emissions of green building applications.
- Due to its plant layer, roof facade systems of the building are also protected against external factors.
- With multidimensional use of plant layer, it assists urban water management.
- Green roof and facade systems that can hold a significant amount of rainwater assists in water treatment.
- Investment to green building systems also provides savings in operation and investment to canalization systems and water treatment systems.
- Green roof application is known to improve air quality as well.
- It diminishes the effects of sun rays that affect the building

**Packaging and Storage**
- Produced in 2.5 x 1.2 m plates or 2 x 20 m rolls.
- Rolls are stored vertically while plates are stored horizontally.

**Technical Specifications**

| | |
|---|---|
| Weight | 800 g/m² |
| Plate Raw Material | HDPE |
| Plate Color | Black |
| Film thickness | 0,9 mm |
| Roll Width | 2.50 m |
| Plate Dimensions | 2.5 x 1.2 m – 2 x 20 m |
| Blister height | 20 mm |
| Plate Thickness | 20 mm |
| Blister Gap | 400 per m² |
| Air gap between blisters | 14 l/m² |
| Drilling Diameter | 5 mm |
| Compression Strength | 150 kN/m² |
| Application Temperature | +40° C to + 80° C |
| Water Flow Rate | Drainage rate of 1.2 l/sec.m² |
| Heat Resistance | -30° C to + 80° C |
| Water holding capacity | 7.00 l/m² |
| Does not decompose under soil, CE certified | |

Roll Packing



# TekDrain

## TekDrain GF 40

After İzoTeknik 5000 is laid over the root retainer folio, **TekDrain GF 40** is applied on top of these two layers. Spaces on **TekDrain GF 40** which serve to store water are filled with light drainage stones. Following this operation GeoTeknik 1100 is laid over **TekDrain GF 40.** The main purpose of this is to allow the plant roots reach the main water reservoir by going through the thin layers. Excess of rain water is directed to the parapet by the openings on **TekDrain GF 40** from where they are discharged.

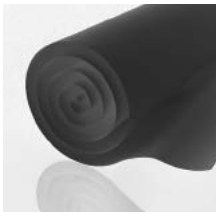
**TekDrain GF 40** is preferred in green roof applications since it is a durable product made of HDPE polyethylene. By means of its water retaining capacity in its reservoir, it helps plants grow without requiring any extra watering expense.

**TekDrain GF 40** is delivered in plates of 3.90 x 0.92 m size.

**Technical Specifications**

| | | |
|---|---|---|
| Thickness at 2kPa | 43 mm | EN ISO 9863-1 |
| Tensile Strength (MD/CD) | 31/26 kN/m | EN ISO 10319 |
| Elongation (MD/CD) | % 35/30 | EN ISO 10319 |
| Water reservoir volume | 14 L/m² | |
| Mass/Unit Area (dry) | 2.200 gr/m² | EN ISO 9864 |
| Mass/Unit Area (saturated) | 16.200 gr/m² | EN ISO 9864 |
| Life Expectancy | 120 years in pH 4 to 9 25°C | |
| Chemical Resistance | Excellent resistance to common chemicals | EN 14030 |
| Resistance to microbes | No significant effect | EN 12225 |
| Waterproofing Compability water | Fully compatible. All components compatible with protable | |
| Health, safety and environment | INERT. No known health hazard. No precautions necessary | |

Roll Packing





# TekDrain

## TekDrain GF 60

After İzoTeknik 5000 is laid over the root retainer folio, **TekDrain GF 60** is applied on top of these two layers. Spaces on **TekDrain GF 60** which serve to store water are filled with light drainage stones. Following this operation GeoTeknik 1100 is laid over **TekDrain GF 60.** The main purpose of this is to allow the plant roots reach the main water reservoir by going through the thin layers. Excess of rain water is directed to the parapet by the openings on **TekDrain GF 60** from where they are discharged.

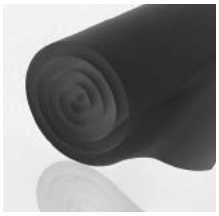
**TekDrain GF 60** is preferred in green roof applications since it is a durable product made of HDPE polyethylene. By means of its water retaining capacity in its reservoir, it helps plants grow without requiring any extra watering expense.

**TekDrain GF 60** is delivered in plates of 3.90 x 0.92 m size.

**Technical Specifications**

| | | |
|---|---|---|
| Thickness at 2kPa | 60 mm | EN ISO 9863-1 |
| Tensile Strength (MD/CD) | 20 kN/m | EN ISO 10319 |
| Elongation (MD/CD) | % 50 | EN ISO 10319 |
| Water reservoir volume | 23 L/m² | |
| Water reservoir volume (saturated) | 11 L/m² | |
| Mass/Unit Area (dry) | 2.200 gr/m² | EN ISO 9864 |
| Mass/Unit Area (saturated) | 26.000 gr/m² | EN ISO 9864 |
| Life Expectancy | 120 years in pH 4 to 9 25° C | |
| Chemical Resistance | Excellent resistance to common chemicals | EN 14030 |
| Resistance to microbes | No significant effect | EN 12225 |
| Waterproofing Compability water | Fully compatible. All components compatible with protable | |
| Health, safety and environment | INERT. No known health hazard. No precautions necessary | |

Roll Packing



# İzoTeknik

## Non-Woven Geotextile Protector

**İzoTeknik 5000 Protector and Moisture Keeper**

**İzoTeknik Protector** is a nonwoven textile product produced in dark color by method of needling of pure polypropylene much thinner than millimeter or pure polyester based fibers as filtration material.

**Fields Of Application And Usage**

- It is used on thermal insulating boards for terrace roof applications thanks to its highpuncture resistance, protecting the underlying materials against impacts and allowing different operation of the materials and preventing flow of cement grout downward.
- It is used on the building foundations to preserve water insulation applications thanks to its pressure distribution effect.
- It protects the geo-membranes used on open lands against any tear or impairment arising from puncture and excessive friction.
- It is brought on the treated surface in roll and should be spread on the stretch for complete contact with the surface. In order to prevent slippage of the geotextile during the filling process, it should be applied below the previous geotextile with an overlap of 25 cm minimum.

**Advantages**

- It is produced by use of pure fiber.
- It has such a structure as to ensure homogenous distribution of the fibers thanks to frequent needling and superior production technology.
- Quick application advantage with minimum overlapping and labor saving over large areas thanks to production up to 6 m in width.

**Packaging And Storage**

Materials are shipped in rolls, 1 – 6m in width and 30 – 100 m in length.

**Technical Specifications**

| | | | |
|---|---|---|---|
| Weight | | $g/m^2$ | 500 |
| Thickness (at 2kPa) | TS EN ISO 9863-1 | mm | 3.2 |
| Tensil Strength<br>MD<br>CMD | TS EN ISO 10319 | <br>kN/m | <br>17<br>19 |
| Elongation at Break (MD/CMD) | TS EN ISO 10319 | % | 50-80 |
| Static Punching | TS EN ISO 12236 | N | 3000 |
| Dynamic Punching | TS EN ISO 13433 | mm | 16 |
| Permeability | TS EN ISO 11058 | $l/m^2s$<br>m/s | 40<br>0.040 |
| Visible Aperture Size | TS EN ISO 12956 | mm | 0.14 |

Roll Packing

# İzoTeknik

## Non-Woven Geotextile Protector

**İzoTeknik 6500 Protector and Moisture Keeper**

**İzoTeknik Protector** is a nonwoven textile product produced in dark color by method of needling of pure polypropylene much thinner than millimeter or pure polyester based fibers as filtration material.

**Fields Of Application And Usage**

- It is used on thermal insulating boards for terrace roof applications thanks to its highpuncture resistance, protecting the underlying materials against impacts and allowing different operation of the materials and preventing flow of cement grout downward.
- It is used on the building foundations to preserve water insulation applications thanks to its pressure distribution effect.
- It protects the geo-membranes used on open lands against any tear or impairment arising from puncture and excessive friction.
- It is brought on the treated surface in roll and should be spread on the stretch for complete contact with the surface. In order to prevent slippage of the geotextile during the filling process, it should be applied below the previous geotextile with an overlap of 25 cm minimum.

**Advantages**

- It is produced by use of pure fiber.
- It has such a structure as to ensure homogenous distribution of the fibers thanks to frequent needling and superior production technology.
- Quick application advantage with minimum overlapping and labor saving over large areas thanks to production up to 6 m in width.

**Packaging And Storage**

Materials are shipped in rolls, 1 – 6m in width and 30 – 100 m in length.

**Technical Specifications**

| | | | |
|---|---|---|---|
| Weight | TS EN ISO 9864 | g/m² | 650 |
| Thickness (at 2kPa) | TS EN ISO 9863-1 | mm | 4.2 |
| Tensil Strength<br>MD<br>CMD | TS EN ISO 10319 | kN/m | <br>21<br>24 |
| Elongation at Break (MD/CMD) | TS EN ISO 10319 | % | 50-80 |
| Static Punching | TS EN ISO 12236 | N | 4200 |
| Dynamic Punching | TS EN ISO 13433 | mm | 9 |
| Permeability | TS EN ISO 11058 | l/m²s | 22 |
| | | m/s | 0.022 |
| Visible Aperture Size | TS EN ISO 12956 | mm | 0.09 |

Roll Packing



# TrioTex

Breathing Membranes
as Facade Underlays

## Areas of Use and Application

Underlay should be laid by being stretched with at least 10 cm overlapping and overlaps should be sealed with recommended adhesive tape. Overlapping width can vary according to vertical and horizontal applications for roof and facade. The edges of underlay and other surface should be sealed with mastic or butyl tapes. If the product is not PLUS type, TrioTex DS 38 double side acryl tape should be applied to underlay overlaps in between or TrioTex SP UNI one side acryl tape should be applied to the overlaps top. TrioTex SP UNI is also used as repairing tape for small damage or rips and sealing for connection to brackets, ventilation shafts with short term UV resistance.
Rolls have a physical surface of 75 $m^2$ and area to be covered is 70 $m^2$ at ideal conditions.
The surface of product should be protected from dust and water once it is unpacked. Application of adhesives such as tapes and mastic requires clean surfaces. Underlay should be covered against sunlight in maximum 4 months. " TrioTex Roof and Facade Solutions" should be reviewed for details. It is an element of system on heat insulated walls in mechanical cladding facade and siding applications

## Advantages

- Effectively transmits the moisture out that is contained in the building by its breathing property.
- Increases efficiency of the cold and warm air in the building by means of its wind barrier effect. It also protects heat insulation against erosion caused by wind and air ventilation.
- It is completely water proof. It protects the outer surface of heat insulation from external rain and snow.
- Based on the results of aging tests, it is a durable and long-life product against UV and temperature changes which the building is exposed to.
- High strength, possibility to use for a long period of time after a single application and heat loss prevention properties make TrioTex an environment friendly product.
- It is equipped with a coating that prevents disturbing reflections.

## Packaging and Storage

It is delivered in rolls in polyethylene packaging.
Roll dimensions: 1.5 x 50 m
Rolls should be kept on a clean surface in the storage facility either vertically or horizontally protected from sunlight.

## Technical Specifications

| (EN 13859-1;2) | | | F90 | 120 |
|---|---|---|---|---|
| Mass per unit area | EN 1849-2 | g/$m^2$ | 92 | 112 |
| Roll weight | | kg | 7.5 | 9 |
| Reaction to fire | EN 13501<br>EN 11925-2 | Class | E | E |
| Resistance to water penetration | EN 1928<br>EN 13111 | Class | W1 | W1 |
| Water vapour transmission properties (Sd) | EN 12572<br>EN 1931 | m | 0.02 | 0.02 |
| Maximum tensile force MD / CMD | EN 12311-1<br>EN 13859-1, 2 | N/50mm | 220/125 | 250/165 |
| Elongation at max. tensile force MD / CMD | EN 12311-1<br>EN 13859-1, 2 | % | 50/70 | 50/70 |
| Resistance to tearing MD / CMD | EN 12310-1<br>EN 13859-1, 2 | N | 80/90 | 115/135 |
| Dimensional stability | EN 1107-2 | % | < 2 | < 2 |
| Flexibility at low temperature | EN 1109<br>EN 495-5 | °C | -20 | -20 |
| Resistance to penetration of air | EN 12114<br>EN 13859-1, 2 | $m^3/m^2$.h.50Pa | <0.02 | <0.02 |
| Working Temperature | | C° | -40 /+80 | -40 /+80 |
| Water Column | EN 20811 | cm | >150 | >200 |
| Change after artificial ageing<br>Resistance to water penetration<br>Max. Tensile Force<br>Elongation at max. tensile force | <br>EN 1297<br>EN 13859-1, 2<br>Annex C | <br>Class<br>%<br>% | <br>W1<br>< 20<br>< 35 | <br>W1<br>< 20<br>< 35 |

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TS EN 13859-1
14.4.41.0.00.00/TSE-65164

Roll Packing



# TekDrain

## Root Inhibitive Foil

**TekDrain HDPE Polyethylene Based Root Retaining Folio**

**TekDrain Folio** is manufactured of low density polyethylene creating a resilient cover in black or other color, against plant roots.

**Areas Of Usage And Advantages**

It is a multi-purpose material that is used to prevent any damage to the insulation of green roofs caused by plant and tree roots. Furthermore, it can be used as a layer between two concrete sections to prevent the vapor permeability.

The rolls must be laid down with an overlap of 1.5 meters.

- Prevents any damage that may be caused by plant roots to the insulation.
- Can be used between two concrete layers preventing the humidity and vapor from underneath to penetrate the structure above.

**Packaging And Storage**

- Manufactured in 5 - 8 x 25 m rolls
- Must be stored in vertical position.

**Technical Specifications**

| | | | |
|---|---|---|---|
| Weight | TS EN ISO 9864 | gr/m² | 380 |
| Thickness | TS EN ISO 9863-1 | µm | 400 |
| Density | EN ISO 1183-1/A | g/cm³ | 0,935 |
| Tensile strength<br>at 20°C<br>at 120°C | EN ISO 527-3 | N/mm² | <br>40-45<br>20-25 |
| Elongation at break | EN ISO 527-3 | % | >400 |
| Sd (Permeability of water vapour) | EN 1931 | m | >200 |
| Kd (coefficient of sliding friction) | | | 0,29 |
| Dimension | | | 5mx30m |
| Colour | | | Transparent or black |
| Raw material | | | LDPE |

Roll Packing