



## TECHNICAL DATA SHEET

### IZODRAIN DL8 GEO HDPE DRAINAGE PLATE WITH GEOTEXTILE

#### GENERAL INFORMATION

IZODRAIN DL8 GEO is a geo-composite drainage plate which has a high compressive strength and resistant against chemicals and plant roots. The PP geotextile layer is stucked to the HDPE dimpled sheet with special heat treatment.

#### USAGE AREA

IZODRAIN DL8 GEO is used for the two main reason. First of all it is used for the draining the water safely and continuously in vertical and horizontal applications by the help of geotextile layer. Secondly it is used in vertical applications for the protection of the under ground waterproofing system against damages caused by soil pressure, it is used for the horizontal applications for the distribution of the soil load equally and allows the reduction of the point load to the all area. The usage area of the IZODRAIN DL8 GEO are the tunnels, underground parking areas, retaining walls etc.

#### ADVANTAGES

IZODRAIN DL8 GEO is mainly has a big advantages and capcaity for the draining of water continuously in most kind of soil types by the help of the geotextile layer. The air gap between the bubbles helps to breathe the structure. .The number of bubbles more than 1800 piece/m2 provides the equal distribution of load and allows the reduction of the point load. IZODRAIN DL8 GEO creates a low-cos talternative and faster application according to the protection curtain wall made of bricks.

#### APPLICATION

In vertical applications, IZODRAIN DL8 GEO is fixed to the wall with profiles in the subbasement level, the direction of the geotextile layer should be faced to the soil. The bottom of the IZODRAIN DL8 GEO should be coated to the underground drainage pipe. One edge of the IZODRAIN DL8 GEO is smooth and the geotextile layer is not stucked. Plates joints should be done with this smooth edge overlap to the bubbly edge. If it is desired, overlap parts of the plates are fixed to each other by hot air hand welding or glued insulated tape.

In horizontal applications, IZODRAIN DL8 GEO is laid to the ground, the direction of the geotextile layer should be faced to the up(air). Plates joints should be done with the smooth edge overlap to the bubbly edge like in vertical applications. If it is desired, overlap parts of the plates are fixed to each other by hot air hand welding or glued insulated tape. Before working on the top of the IZODRAIN DL8 GEO, you should spread minimum 30 cm soil layer to protect the plate from mechanical damages.

After the application of the IZODRAIN DL8 GEO, you should protect the plates from direct UV rays within one weeks by covering it by soil or any other thing. (ideal application temperature : +5 , + 30 C )

#### PHYSICAL AND MECHANICAL PROPERTIES

<b>RAW MATERIAL (DimpledSheet+Geotextile)</b>	HDPE (HIGH DENSITY POLYETHYLENE) + PP (POLIPROPLEN)
<b>COLOUR</b>	BLACK+ GRAY
<b>DIMPLE SPACING</b>	>1860pcs/m2
<b>DIMPLE HEIGHT</b>	8 MM



## TECHNICAL DATA SHEET

### IZODRAIN DL8 GEO HDPE DRAINAGE PLATE WITH GEOTEXTILE

#### PHYSICAL AND MECHANICAL PROPERTIES

<b>AREA WEIGHT</b>	500 GR/M2 + 110 GR/M2 = 610 GR/M2 ( ±%5)
<b>AIR GAP(BETWEEN DIMPLES)</b>	Approx. 5,3 l/m <sup>2</sup>
<b>DRAINAGE CAPACITY i=1</b>	1,9 l/(ms)
<b>GEOTEXTILE TENSILE STRENGTHMD;CMD</b>	7 kN/m; 7kN/m
<b>GEOTEXTILE ELONGATION MD;CMD</b>	% 45 ; % 45
<b>GEOTEXTILE PUNTURE ( CBR )</b>	1000 N
<b>GEOTEXTILE OPENING SIZE</b>	140 micron
<b>GEOTEXTILE PERMEABILITY</b>	70 mm/s
<b>COMPRESSIVE STRENGTH</b>	≥ 200 kN/m <sup>2</sup>
<b>ELONGATION at MAX LOAD MD;CMD</b>	≥ %40 ; ≥ %40
<b>TENSILE STRENGTH MD;CMD</b>	≥ 10 kN/m ;CMD≥ 10 kN/m
<b>SERVICE TEMPERATURE RANGE</b>	-40 °C - +80 °C

#### OTHER PROPERTIES

Resistant to the chemicals and plant roots. Not harmful to the drinking water. Resistant to the acid, alkali, oil and solvents. No deterioration under soil. The special geotextile layer which is stucked the hdpe drainage plate is resistant to the naturel soils minimum 100 years.

#### STORAGE INFORMATION

IZODRAIN DL8 GEO is stored in dry and cool place, in original packaging and protect from UV rays. Rolls must be transported, stored in up right positions. Pallets should not be placed on top of each other and it should be stored away from direct heat sources.

#### SIZE PROPERTIES AND PACKAGING INFORMATION

Explanation	Unit	Quantity	Tolerances
RollLenght	mt	20,00	±%1
RollWidth	mt	2,00	±%1
RollArea	m <sup>2</sup>	40	±%2
RollWeight	kg	24,40	±%3
Rolls/pallet	pieces	5	---
PalletArea	m <sup>2</sup>	200	±%2
PalletWeight	Kg	140	±%3
PalletSize	cm*cm	100*120	---