

## DRENTEX IMPACT GARDEN

DRENTEX IMPACT GARDEN is a sheet drain made up of a three-dimensional polystyrene (HIPS) structure perforated or not, with a polypropylene geotextile on one or both sides.

### ADVANTAGES

- DRENTEX IMPACT GARDEN sheets made up of three-dimensional polystyrene (HIPS) structure (dimple shaped) guarantee the high drainage capacity over the years, due to its elevated compressive resistance and almost none deformation
- The non-woven propylene geotextile acts as a water filter to prevent soil from blocking drainage, while the polystyrene dimples guide and drain off the water. The entire system drains off water and protects the waterproofing on walls, foundations, etc.
- A stable, reliable, rot-, root- and fungi-proof drainage system.
- Because all the dimples are connected directly to the geotextile structure, high compressive strength is provided to ensure the drainage volume is not reduced by pressure from the soil.
- Easy to transport and install.



### APPLICATION

- Vertical and horizontal drainage of walls and floors: low or high water collection.
- Horizontal drainage of pedestrians or wheeled trafficable roof decks: high water collection.
- Extensive green roofs and areas drainage.
- Intensive green roof and areas drainage.
- The range of drainage for green roofs, highlights DRENTEX IMPACT GARDEN 500, it is specially used on areas on risk of floating, on a low slope surface (< 1%) or located on high rainfall intensity geographical location; and DRENTEX IMPACT GARDEN PLUS for highly performances and elevated water retention depend on the plants require.

### REGULATIONS

- The product is CE marked according EN 13252:2001 + A1:2005. Holds the certificate N° 0799-CPD-41
- Quality Management System according to the requirements of ISO 9001:2008 standard

## Drainages Drainages HIPS

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## INSTALLATION

- Green roofs:
- Extend the DRENTEX IMPACT GARDEN over the waterproofing layer, so the dimples cavity are faced up. As reference the under side geotextile is thicker than the upper side one.
- Drentex Impact Garden overlaps about 5 cm, and covered with geotextile itself, which is already unstuck along the edges.
- Selection of the proper drainage sheet should be according to the type of Green roof ( extensive / intensive), the slope of the roof, and specific application, consult the application chart above
- DRENTEX IMPACT should not be weather exposed more than 14 days

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## PACKAGING AND STORAGE

|  | DRENTEX IMPACT GARDEN | DRENTEX IMPACT GARDEN 500 | DRENTEX IMPACT GARDEN PLUS |
|--|-----------------------|---------------------------|----------------------------|
| Colour   | Black                 | Black                     | Black                      |
| Filter geotextile weight (g/m <sup>2</sup> )     | PP 286                | PP 140                    | PP 146                     |
| Membrane weight (g/m <sup>2</sup> )              | 615 ± 2%              | 996                       | 1091                       |
| Build-up height at 2 kPa                         | 11                    | 26                        | 11                         |
| Separation geotextile weight (g/m <sup>2</sup> ) | 125                   | 125                       | -                          |
| Roll dimensions (m)                              | 1,25 x 32 ±2,5%       | 1,25 x 20 ±2,5%           | 1,20 x 20 ±2,5%            |
| m <sup>2</sup> / roll                            | 40                    | 25                        | 24                         |
| m <sup>2</sup> / pallet                          | 80                    | 50                        | 48                         |
| Roll weight (kg)                                 | 41 ± 3 %              | 31 ± 3 %                  | ± %                        |

Storage: Vertically. Protected against weathering and UV rays, in a dry site. If product is stored in a wet area, it would increase its weight and difficult to handle.

## TECHNICAL PROPERTIES

| PROPERTIES                              | UNIT | TEST METHOD    | DRENTEX IMPACT GARDEN | DRENTEX IMPACT GARDEN 500 | DRENTEX IMPACT GARDEN PLUS |
|---|------|----------------|-----------------------|---------------------------|----------------------------|
| Compressive strength at 10% deformation | kPa  | EN ISO 25619-2 | 645                   | 460                       | 285                        |
| Tensile strength1 (LxT)                 | KN/m | EN ISO 10319   | 42224                 | 42224                     | 42224                      |
| CBR Puncture resistance1                | N    | EN ISO 12236   | 1400                  | 1400                      | 1500                       |
| Dynamic perforation1 (Cone drop)        | mm   | EN ISO 13433   | 26                    | 26                        | 38                         |
| Drainage capacity                       | l/sm | EN ISO 12958   |                       |                           |                            |
| i=1 (vert), 30kPa (3m deep)             |      |                | 5.67                  | 15.64                     | 8.33                       |
| i=0 , 2 kPa                             |      |                | -                     | 0.36                      | -                          |
| i=0,01 , 10 kPa                         |      |                | 0.59                  | 1.77                      | 0.98                       |
| i=0,01 , 100 kPa                        |      |                | 0.59                  | 1.61                      | 0.62                       |
| i=0,003 , 10 kPa                        |      |                | 0.98                  | 2.82                      | 1.54                       |
| i=0,003 , 100kPa                        |      |                | 0.95                  | 2.43                      | 0.95                       |

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## OTHER FEATURES

| PRODUCT                    | WALL | FLOOR | PAVED DECKS                     | EXTENSIVES               | INTENSIVES         |
|----------------------------|------|-------|---------------------------------|--------------------------|--------------------|
|                            |      |       |                                 | GREEN ROOFS (1)          | GREEN ROOFS (2)    |
| DRENTEX IMPACT 100         | X    | X     |                                 | Sloped roofs (15° - 25°) |                    |
| DRENTEX IMPACT 200         | X    | X     | Pedestrian traffic              | Sloped roofs (15° - 25°) | X                  |
| DRENTEX IMPACT PARKING     |      |       | Pedestrian and wheelled traffic |                          | X                  |
| DRENTEX IMPACT GARDEN      |      |       |                                 | X                        | X                  |
| DRENTEX IMPACT GARDEN 500  |      |       | Pedestrian traffic              | No slope specially       | No slope specially |
| DRENTEX IMPACT GARDEN PLUS |      |       |                                 | X                        | X                  |

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