

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.
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- 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

Drainages Drainages HIPS

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PACKAGING AND STORAGE

	DRENTX IMPACT GARDEN	DRENTX IMPACT GARDEN 500	DRENTX IMPACT GARDEN PLUS
Colour	Black	Black	Black
Filter geotextile weight (g/m ²)	PP 286	PP 140	PP 146
Membrane weight (g/m ²)	615 ± 2%	996	1091
Build-up height at 2 kPa	11	26	11
Separation geotextile weight (g/m ²)	125	125	-
Roll dimensions (m)	1,25 x 32 ±2,5%	1,25 x 20 ±2,5%	1,20 x 20 ±2,5%
m ² / roll	40	25	24
m ² / 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	DRENTX IMPACT GARDEN	DRENTX IMPACT GARDEN 500	DRENTX 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)
DRENTX IMPACT 100	X	X		Sloped roofs (15° - 25°)	
DRENTX IMPACT 200	X	X	Pedestrian traffic	Sloped roofs (15° - 25°)	X
DRENTX IMPACT PARKING			Pedestrian and wheeled traffic		X
DRENTX IMPACT GARDEN				X	X
DRENTX IMPACT GARDEN 500			Pedestrian traffic	No slope specially	No slope specially
DRENTX IMPACT GARDEN PLUS				X	X

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