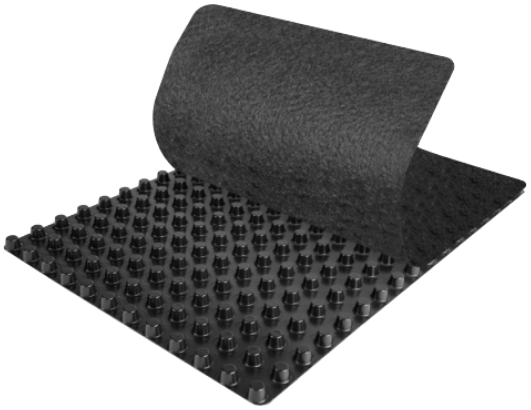
DRENTEX IMPACT 100

DRENTEX IMPACT 100 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 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 wheelled trafficable roof decks: high water collection.
· Extensive green roofs and areas drainage.
· Intensive green roof and areas drainage.

REGULATIONS

· The product is CE marked according EN 13252:2001 + A1:2005. Holds the certificate Nº 0799-CPD-41
· Quality Management System according to the requirements of ISO 9001:2008 standard

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INSTALLATION

· Wall application:
· Prior to application, the wall should be protected with bituminous paint type EMUFAL TE (in areas with low water build-up) or waterproofed with TEXSELF self-adhesive bituminous membrane, MORTERPLAS bituminous membrane or FLAGON PVC membranes (in areas with high water build-up), as the drainage system filters and channels water but is not a waterproofing system.
· Roll can be installed both, horizontally or vertically:
- Horizontal application: Start application from the bottom of the wall, placing the overlap edge (extra geotextile) at the top. Fill in soil as the Drentex Impact is installed.
- Vertical application: The overlap should follow the runoff direction. The correct installation of Drentex Impact 100 / 200 minimises infiltration of water behind the drainage system.
· Finally, compact the surrounding soil to ensure optimum drainage.
· Horizontal application / roof decks: The overlap edge of the dimple membrane should be placed at the top, far from the drainage area. For horizontal applications, the drainage system should be installed with the geotextile face up. Cut the membrane and geotextile so that it adapts perfectly to the ground to be drained.
· 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 100	DRENTEX IMPACT 200	DRENTEX IMPACT PARKING
Colour	Black	Black	Black
Filter geotextile weigth (g/m²)	PP 140	PP 140	Rafia PP 235
Membrane weigth (g/m²)	535 ± 2%	785 ± 2%	915 ± 2%
Build-up height at 2 kPa	8	12	12
Separation geotextile weigth (g/m²)	-	-	-
Roll dimensions (m)	1,25 x 32 ±2,5%	1,25 x 32 ±2,5%	1,25 x 32 ±2,5%
m²/ roll	40	40	40
m²/ pallet	160	80	80
Roll weigth (kg)	27 ± 2%	37 ± 2%	46 ± 2%

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 100	DRENTEX IMPACT 200	DRENTEX IMPACT PARKING
Compressive strength at 10% deformation	kPa	EN ISO 25619-2	445	645	890
Tensile strength1 (LxT)	KN/m	EN ISO 10319	42224	42224	48,2 / 41,0
CBR Puncture resistance1	N	EN ISO 12236	1500	1500	4376
Dynamic perforation1 (Cone drop)	mm	EN ISO 13433	38	38	8.8
Drainage capacity	l/sm	EN ISO 12958			
i=1 (vert), 30kPa (3m deep)			2.89	5.38	5.41
i=0,01 , 10 kPa			0.36	0.62	0.62
i=0,01 , 100 kPa			0.23	0.36	0.46
i=0,003 , 10 kPa			0.56	0.95	0.95
i=0,003 , 100kPa			0.33	0.56	0.69

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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 (15º - 25º)	
DRENTEX IMPACT 200	X	X	Pedestrian traffic	Sloped roofs (15º - 25º)	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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