

Technical Datasheet

DELTA®-FLORAXX

Protection and drainage sheet with water storage



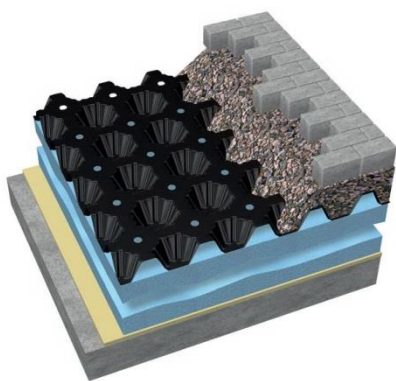
Characteristics			Methods	Values		Units
Dimpled sheet			-	Stabilized HDPE, black, perforated		-
Flat edge/self-adhesive edge			-	None/none		-
Dimple height			-	Approx. 20		mm
Air gap between the dimples			-	Approx. 14		l/m²
Contact area dimples/surface			-	Approx. 1.300		cm²/m²
Dimples per m²			-	Approx. 400		per m²
Additional layer(s)			-	None		
Service temperature range			-	- 30 up to + 80		°C
To be covered within			EN 12224	one		day
Prognosis of durability in natural soil (pH-value 4-9, < 25°C)			EN ISO 13438/ EN 12225	Min. 25		years
Mass per unit area*			-	Approx. 850		g/m²
Weight of the rolls			-	Approx. 34,8		kg
Dimensions of the rolls			-	20 x 2,0		m
Package			-	6 rolls on industrial pallet		-
Classification according EN 13252			EN 13252	Drainage		-
Mechanical properties						
Pressure resistance (short time load)			EN ISO 25619-2	Approx. 200		kPa
Pressure resistance with filled dimples (short time load)			-	> 300		kPa
Tensile strength MD / CD			EN ISO 10319	9,2 / 4,7		kN/m
Elongation at tensile strength MD / CD			EN ISO 10319	40 / 8		%
Elongation at break			EN ISO 10319	47 / 70		%
Hydraulic properties						
Water storage			-	Approx. 7		l/m²
Water permeability vertically			50 mm water column	8,73		l/[m² · s)
Size of perforation			-	Approx. 6,5		mm
Drainage capacity in the plane			EN ISO 12958			
Load	Hydraulic gradient	i = 0,02	i = 0,03	i = 0,10	i = 1,00	
0 kPa		1,45	1,75	3,20	10,00	l/m · s
20 kPa		1,17	1,43	2,64	8,40	l/ m · s
50 kPa		0,90	1,11	2,03	6,46	l/ m · s

*It would be possible to enlarge the values of weights per unit area of dimpled sheets significantly without any positive effect on the technical data. Therefor that value is not technical relevant It is only mentioned here because it is often asked.

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Examples



Typical usage

- Protection sheet and/or drainage/seepage layer according for
 - Flat roofs (beneath gravel, paving's, green roofs ...)
 - water storage for green roofs (with an additional geotextile on top)
 - inverted roofs

Other exceptional characteristics

- water storage
- vapour permeable



Installation instruction

- The sealed surface must be thoroughly cleaned, to avoid damage of the waterproofing after installation of the drainage layer.
- For building a green roof, the waterproofing must either be root resistant according to FLL or protected by an additional root barrier. If DELTA®-FLORAXX is installed directly on top of the waterproofing, use an additional protective and separating layer (e.g. 300-500g geotextile) to protect the waterproofing.
- The drainage layer is simply rolled out on the underground. With a blade knife the membrane can be cut to the required length.
- At the lengths of the membranes an overlapping is not necessary, the membranes are simply laid next to each other (butt joint). To extend a sheet, overlap two rows of dimples and connect the sheets with the DELTA®-FLORAXX connector and the rivets, approx.. 5 rivets/2 m.
- For green roofs an additional geotextile like DELTA®-BIOTOPVLIES must be installed on top of the drainage membrane.

Environmental behavior

- Neutral, resistant to bacterial catabolic products, proof against alkaline and chemical substances, rot-proof

For more detailed information, please visit our webpage or call our specialists: +49 2330 63 578

The contents of this data sheet describe the current state of knowledge at the time of publication and do not purport to be complete. The information listed does not release from own responsibility. With publication of this sheet all previous ones are no longer valid. Errors and typing errors reserved.

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