

## Technical Datasheet

# DELTA®-FLORAXX

Protection and drainage sheet with water storage



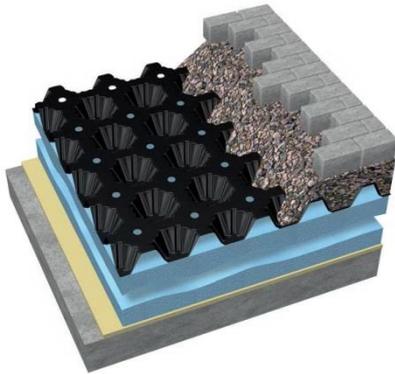
Characteristics	Methods	Values	Units			
Dimpled sheet	-	Stabilized HDPE, black, perforated	-			
Flat edge/self-adhesive edge	-	None/none	-			
Dimple height	-	Approx. 20	mm			
Air gap between the dimples	-	Approx. 14	l/m <sup>2</sup>			
Contact area dimples/surface	-	Approx. 1.300	cm <sup>2</sup> /m <sup>2</sup>			
Dimples per m <sup>2</sup>	-	Approx. 400	per m <sup>2</sup>			
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/m <sup>2</sup>			
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	-			
<b>Mechanical properties</b>						
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	%			
<b>Hydraulic properties</b>						
Water storage	-	Approx. 7	l/m <sup>2</sup>			
Water permeability vertically	50 mm water column	8,73	l/[m" · s)			
Size of perforation	-	Approx. 6,5	mm			
<b>Drainage capacity in the plane</b>		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. Therefore 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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