

Technical Datasheet

DELTA®-FLORAXX TOP

Two-ply drainage sheet with water storage



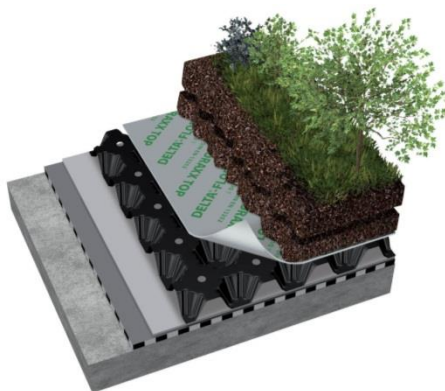
Characteristics		Methods		Values			Units
Characteristics of core							
Dimpled sheet		-		Stabilized HDPE, black, perforated			-
Flat edge/self-adhesive edge		-		None/none			-
Dimple height		-		Approx. 20			mm
Air gap between the dimples		-		Approx. 14			l/m²
Contact area dimples/surface		-		Approx. 1.300			cm²/m²
Dimples per m²		-		Approx. 400			per m²
Tensile strength MD / CD		EN ISO 10319		9,2 / 4,7			kN/m
Elongation at tensile strength MD / CD		EN ISO 10319		40 / 8			%
water permeability vertically		50 mm water column		8,73			l/[m" · s)
Characteristics of geotextile							
Geotextile		-		Nonwoven, stabilized virgin PP, grey with printing			-
Dynamic performance resistance (cone drop test)		EN 918		40			mm
Opening size O ₉₀		EN 12956		150			µm
Water permeability		EN ISO 11058		80			mm/s
Tensile strength MD / CD		EN ISO 10319		6,0 / 6,5			kN/m
Elongation at tensile strength MD / CD		EN ISO 10319		41 / 47			%
Weathering resistance (ΔTensile/Elongation)		EN 12224		-2,5 / -1,4			%
Characteristics of composite							
Additional layer(s)		-		None			-
Classification according EN 13252		EN 13252		Drainage and Filtration			-
Pressure resistance (short time load)		EN ISO 25619-2		Approx. 200			kPa
Tensile strength MD / CD		EN ISO 10319		15,0 / 9,8			kN/m
Elongation at tensile strength MD / CD		EN ISO 10319		38 / 27			%
Service temperature range		-		- 30 up to + 80			°C
Prognosis of durability without coverage		EN 12224		Max. 2			weeks
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. 950			g/m²
Weight of the rolls		-		Approx. 19,0			kg
Dimensions of the rolls		-		10 x 2,0 (nonwoven 2,10)			m
Package		-		12 rolls on industrial pallet			-
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. Therefore that value is not technically relevant. It is only mentioned here because it is often asked.

Technical Datasheet

DELTA®-FLORAXX TOP

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

Other exceptional characteristics

- Water storage
- Vapour permeable
- Inclusive fused on geotextile



Installation instruction

- The sealed surface must be thoroughly cleaned, to avoid damage of the waterproofing after installation of the drainage layer. The waterproofing must be root resistant according to FLL or protected by a root barrier. A protective and separating is laid on the waterproofing.
- The drainage layer is simply rolled out on the underlay. Here, the filter stable geotextile facing up. With a blade knife the membrane will be cut to the required length.
- Detach the geotextile from the edge of the overlapping sheet and push it behind the smooth overlap of the sheet installed previously.
- To extend a sheet, remove the geotextile at the top end, lay two rows of dimples together, and connect the sheets with the DELTA®-FLORAXX connector and the rivets, 5 rivets/2 m.
- Install the sheets Step by Step.
- The substrate can be applied directly.

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.

Dörken GmbH & Co. KG · Wetterstraße 58 · 58313 Herdecke · Tel.: 0 23 30/63-0 · Fax: 0 23 30/63-508 · info@doerken.de · www.doerken.de

Ein Unternehmen der Dörken Gruppe – A Company of the Dörken Group – Une société du groupe Doerken