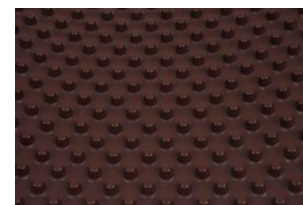


Technical Datasheet

DELTA® - AT 800

High performance dimpled sheet



Characteristics	Methods	Values	Units
Dimpled sheet	-	Virgin HDPE, highly stabilized, brown	-
Geotextile	-	None	-
Additional layer(s)	-	None	-
Flat edge/self-adhesive edge	-	Yes/none	-
Dimple height	EN 964	Approx. 9	mm
Air gap between the dimples	-	Approx. 7,9	l/m ²
Contact area dimples/surface	-	Approx. 700	cm ² /m ²
Diagonal Dimples per m ²	-	Approx. 2.500	Pcs.
Dimensions of the rolls	EN 1848-2	20 x 2,0	m
Straightness	EN 1848-2	Passed <75	mm / 10 m
Package	-	6 rolls on industrial pallets	-
Certification	Specification sheet Alp Transit	Passed	-

Mechanical properties

Pressure resistance (short time load)	EN ISO 25619-2	Approx. 650	kPa
Resistance against mechanical perforation	EN 918	Diameter of the hole: 13,4	mm

Other properties

Service temperature range	-	- 30 up to +80	°C
Resistance to water penetration	EN 1928	Waterproof	-
Resistance of waterproofness against artificial aging at elevated temperatures	EN 1296	Passed	-
Durability under alkaline environment	EN 13984	Passed	-

Drainage capacity in the plane

Load	Hydraulic gradient				
	i = 0,02	i = 0,03	i = 0,10	i = 1,00	
20 kPa	0,33	0,42	0,84	3,10	l/s · m
200 kPa	0,33	0,42	0,84	3,10	l/s · m

As it is possible to enlarge the area density of dimpled sheets significantly without having any positive effect on the technical data, the value of weight per units area is not technical relevant and not included in this data sheet.

Technical Datasheet

DELTA® - AT 800

Examples



Typical usage

- Protection sheet, compensation system, geo spacer and/or drainage for double shell structures in civil engineering and tunnelling



Other exceptional characteristics

- Chemical, mechanical and resistance against aging in accordance with specification sheet "Alp Transit"
- Burning behaviour according to Swiss SIA V280: Brandkennziffer 4.2

Installation instruction, short

- At the outer shell (tunnel) the dimpled sheet will be attached mechanically. The dimples always face to the outer side.
- Standard overlapping is 10 cm (horizontally in direction of the water flow, like shingles)
- On vertical walls approx. 1 fixing point per m² is needed. On uneven surfaces (and in tunnel vaults) up to 4 fixing points/m² can be necessary (depending on in-situ conditions).

Environmental behaviour

- 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