

PRODUCT DATA SHEET

DELTA AT800

Product Code: DMS026



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Delta AT 800 is an innovative Type C Drainage Membrane which conforms to BS 8102:2009 and BS 8485:2015+A1:2019, Table 7 achieving waterproofing and ground gas protection simultaneously.

Delta AT 800 offers maximum protection in just one application. Designed to offer drainage protection in Type C waterproofing (Grade 3 environment) in accordance with BS 8102:2009 this innovative membrane also offers barrier protection to ground gases Carbon Dioxide, Radon and Methane in accordance with BS 8485:2015 +A1:2019, Table 7 with high adhesion to the application of flame retardants.



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This Virgin Polymer profiled membrane with superior drainage capacity and compressive strength has been used in the construction of the Gothard tunnel and several stations of the Moscow Metro.

CHARACTERISTICS	METHODS	VALUES	UNITS
Dimpled Sheet	-	Virgin Polymer	-
Geotextile	-	None	-
Additional Layer(s)	-	None	-
Flat Edge/Self-adhesive Edge	-	Yes/None	-
Dimpled Height	EN 964	Approx 9	mm
Air Gap Between 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 rolls	EN 1848-2	20 x 2. 0	m
Straightness	EN 1848-2	Passed <75	l/m ²
Package	-	6 Rolls on Pallets	-
Certification	Specification sheet Alp Transit	Passed	-

Head Office:

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DMSPDS2020

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CHARACTERISTICS	METHODS	VALUES	UNITS
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Mechanical Properties

Pressure Resistance	EN ISO 25619-2	Approx 650	kPA
Resistance against mechanical perforation	EN 918	Diameter of the hole: 13.4	mm

Other Properties

Service temp range	-	-30 up to +80	°C
Resistance to water Penetration	EN 1928	Waterproof	-
Resistance of waterproofness against artificial aging at elevated temps	EN 1296	Passed	-
Durability under alkaline environment	EN 13984	Passed	-
Methane Permeability	EN ISO 15105-1	<31 (less than)	ml/m ² /day/atm

Drainage Capacity in the plane

Drainage Capacity in the plane			EN ISO 12958		
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
200 kPA		0.33	0.42	0.84	3.10
					l/s m

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BENEFITS

- Rapid cost effective installation
- Compatible with all types of construction
- Ideal for complex substructures
- Guaranteed performance
- Suitable for new and existing buildings
- Suitable for high volumes of water penetration
- Suitable for ground gas protection
- A reversible system, which will minimize damage to historical or heritage structures
- An effective barrier to the transmission of salts, liquid water and water vapour
- An effective barrier to gas – including Methane, CO₂ and Radon
- Durable for 100 years in natural soil with $4 \leq \text{pH} \leq 9$ and soil temperature $\leq 25^\circ\text{C}$



SPECIFICATION

- BS 8102:2009, Code of practice for protection of below ground structures against water from the ground

- Table 7, BS 8485:2015 +A1:2019 Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings

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TECHNICAL DRAWING

