

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 | - |

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DMSPDS2020

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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

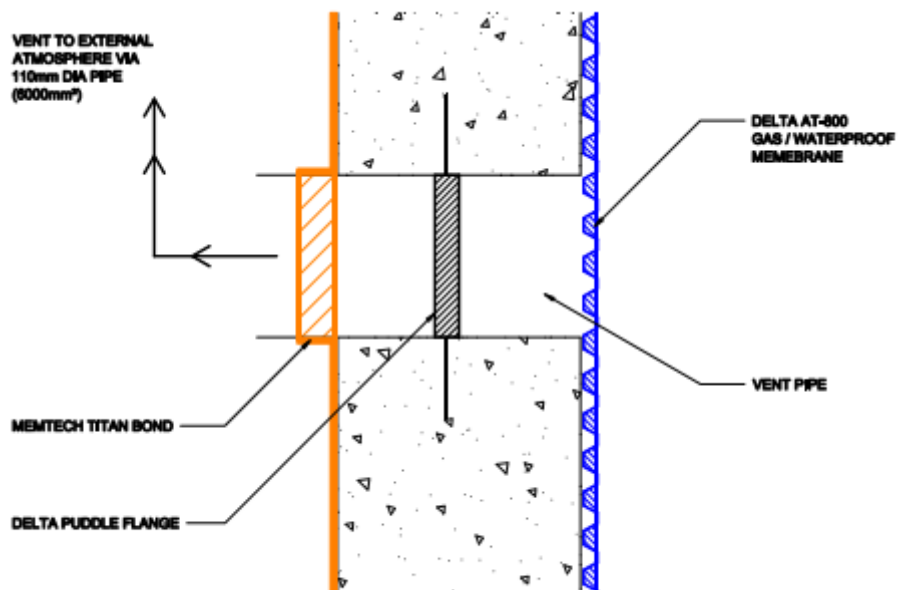
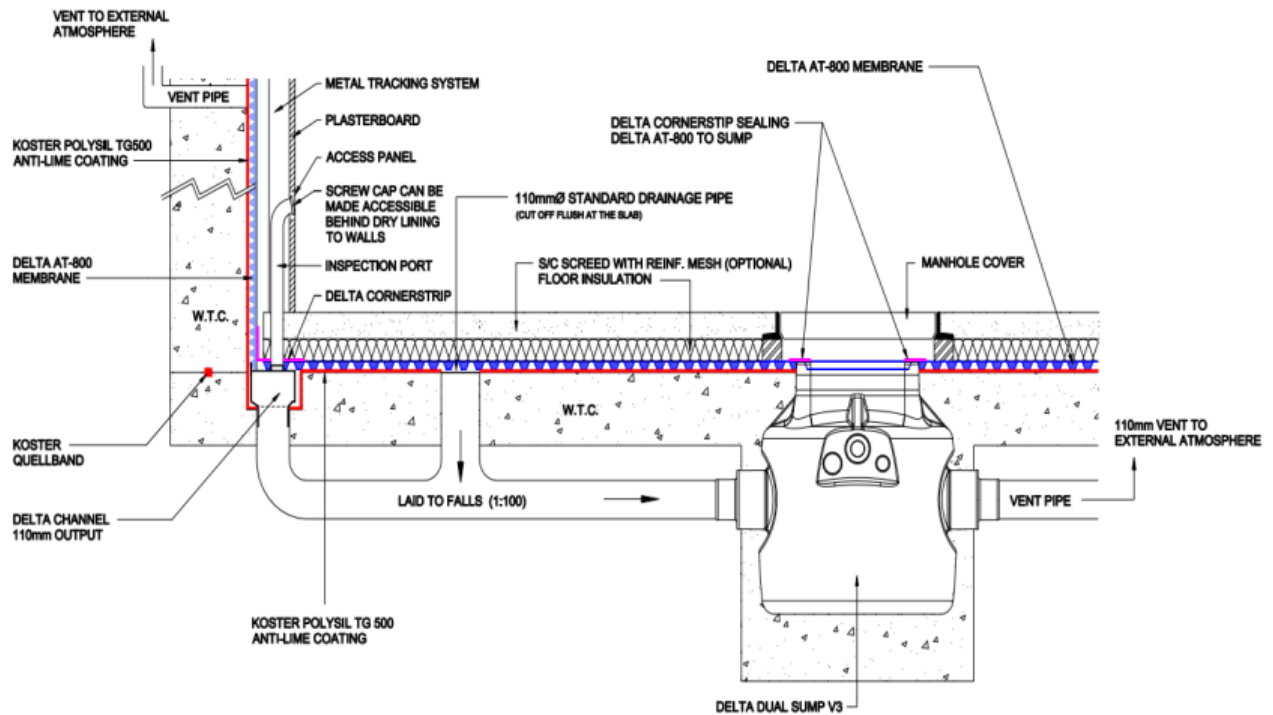
- BS 8102:2009, Code of practice for protection of below ground structures against water from the ground
- Table 7, BS 8485:2015 +A1:2019 Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings

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TECHNICAL DRAWING



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