



## DECKDRAIN 600S/NW8

HDPE cuspated sheet thermally bonded to nonwoven (PP) geotextile

DECKDRAIN 600S/NW8 is a geocomposite drainage layer comprising a high performance single cuspated HDPE (High Density Polyethylene) core with a nonwoven geotextile filter thermally bonded to one side. The geotextile has a flap that extends beyond the core on one edge. The product is practically impermeable one side. It is used as an engineered drainage layer in structural applications, its major areas of use being behind retaining structures, on roof decks and in subsurface works.

### TECHNICAL DATA SHEET

| GEOCOMPOSITE PROPERTIES  |  | UNIT                   |                 |      | STANDARD        |                           |
|--|--|------------------------|-----------------|------|-----------------|---------------------------|
| Thickness at 2kPa  | mm   | 6.1                    |                 |      | ±10%            | EN ISO 9863-1             |
| Mass per unit area   | g/m <sup>2</sup>   | 670                    |                 |      | approx          | EN ISO 9864               |
| Tensile Strength MD / CMD  | kN/m   | 13 / 13                |                 |      | -10%            | EN ISO 10319              |
| Elongation at peak MD/ CMD   | %  | 45 / 45                |                 |      | nominal         | EN ISO 10319              |
| CBR puncture resistance  | N  | 2250                   |                 |      | -20%            | EN ISO 12236              |
| <u>Perpendicular Water inflow</u>  | dimple side only   |                        |                 |      |                 |                           |
| Water flow at 50mm head  | l/m <sup>2</sup> .s  | 103                    |                 |      | ±30%            | EN ISO 11058              |
| At 2kPa permeability (coefficient)   | m/s  | 2.5 x 10 <sup>-3</sup> |                 |      | ±30%            | EN ISO 11058              |
| Breakthrough head  | mm   | 0                      |                 |      |                 | BS 6906 pt 3              |
| <u>In-plane water flow MD and CMD</u>  |  |                        | <u>HG = 1.0</u> |      | <u>HG = 0.1</u> | <u>Hydraulic gradient</u> |
| at 20kPa confining pressure  | l/m.s  | 1.6                    | ±0.40           | 0.48 | ±0.12           | EN ISO 12958              |
| at 100kPa confining pressure   | l/m.s  | 1.35                   | ±0.34           | 0.38 | ±0.10           | EN ISO 12958              |
| at 200kPa confining pressure   | l/m.s  | 1.1                    | ±0.28           | 0.29 | ±0.07           | EN ISO 12958              |
| with soft foam contact surfaces to simulate textile intrusion into the core due to soil pressure |  |                        |                 |      |                 |                           |
| Resistance to weathering   | To be covered within 14 days   |                        |                 |      |                 | EN ISO 12224              |
| Resistance to chemicals  | Excellent  |                        |                 |      |                 | EN ISO 14030              |
| Design life  | 120 years (manufacturer's declaration)                                   |                        |                 |      |                 |                           |
| GEOTEXTILE PROPERTIES  |  | UNIT                   |                 |      | STANDARD        |                           |
| Thickness at 2kPa  | mm   | 1.2                    |                 |      | ±20%            | EN ISO 9863-1             |
| Tensile Strength MD / CMD  | kN/m   | 9.5 / 9.5              |                 |      | -13%            | EN ISO 10319              |
| Pore size O <sub>90</sub>  | µm   | 120                    |                 |      | ±30%            | EN ISO 12956              |
| CBR puncture resistance  | N  | 1600                   |                 |      | -20%            | EN ISO 12236              |
| Dynamic perforation cone drop  | mm   | 32                     |                 |      | 20%             | EN ISO 13433              |
| Material   | Nonwoven needle-punched and heat treated long staple fibre polypropylene |                        |                 |      |                 |                           |
| PRODUCT DIMENSIONS   |  |                        |                 |      |                 |                           |
| Standard roll size   | 1.1m x 50m or 2.2m x 25m   |                        |                 |      |                 |                           |

1. The listed technical values are guiding values, achieved in the manufacturer's laboratories and/or independent testing institutes. The products are subject to changes without prior notice.

2. The tolerance on roll length is 1.5% and on roll width is 1.0%

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