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Title **Data for Permeable Paviors Exfiltration system**

Local Hydrology constants for BERWICK-ON-TWEED:-

M5-60 = 17 r = 0.3
Storm Return period = 5 years Storm duration (hrs) = 24

Roadbase material:-

Voids = 33.0% Saturation depth = 60.0%

Roadbase dimensions for water storage:-

Storage depth = 249 mm Rainfall depth = 49.28 mm

Storage volume

Calculated storage volume = 0.00 m³ Total available = 0.00 m³

Loadings

Load category = Cat 2 - Light (GVW 3500Kg)
Safety factor = Certain
Roadbase stability = D. Tp Cl.803 Type 1 material

Sub-base material = 150mm - D. Tp Cl.803 Type 1 material
Capping Layer = 0mm capping material

Structural roadbase thicknesses

Structural roadbase - Cement stabilised open graded crushed rock = 0 mm
Structural roadbase - Open graded crushed rock = 157 mm

Additional thickness equivalent to sub-base and capping layer amounts to 150mm

Required minimum infiltration coefficient is 0.002053m/hour (0.001 l/s)

Total depth is equal to Water storage depth + Extra contributing area factor + equivalent sub-base and capping layer. Therefore, calculated storage thickness amounts to 399 mm

Specification:-

Wearing surface = 210 x 105 x 65 Pemeable Paviors

Bedding course = 50mm x 6mm crushed stone

Storage roadbase depth exceeds structural roadbase depth
Roadbase = 399mm 20-5 coarse graded crushed rock

Geotextile = Woven Geotextile