

tender file

Infiltration Tunnel

The Infiltration Tunnel can be used for infiltration and retention of rainwater or surface water. Three-dimensional infiltration ensures extensive water spreading with low installation depth. Easy installation due to low net weight – no need of gravel. The Infiltration Tunnels should be covered in a geotextile or membrane which in turn is laid directly on the ground. Rounded edges avoid a rupture in the membrane covering. Earth covering ≥ 75 cm (29.5") (60 t load). 2 end plates are required per infiltration string.

Technical data:

- Dimensions (LxWxH): 1160 x 800 x 510 mm (45.7" x 31.5" x 20.1")
- Weight: approx. 11 kg (24.3 lbs)
- Material: Polypropylene PP
- Volume: 300 litres (79.3 US gal. net)
- Connections on the end plate
 - top: DN 110, DN 160, DN 200, DN 300 (4", 6", 8", 12" pipe)
 - bottom: DN 110 (4" pipe)
- Colour: black

Product: GRAF Infiltration Tunnel

Accessory

End plate for Infiltration Tunnel / Twin

End plates for Infiltration Tunnel / Twin are fitted on every end row of Infiltration Tunnels. They include connection surfaces of different pipe sizes.

Nominal size connections:

- top: DN 110, DN 160, DN 200, DN 300 (4", 6", 8", 12" pipe)
- bottom: DN 110 (4" pipe)

Product: GRAF End plate for Infiltration Tunnel / Twin

GRAF-Tex geotextile

Graf-Tex 200 geotextile (8 ounce, non-woven geo-textile fabric), 100% polypropylene filter membrane, mechanically needle-punched to form continuous filament. Rot-proof material between soil and infiltration system prevents infiltration layers from silting up. Graf-Tex 200 geotextile ensures long lifetime, consistent infiltration and high permeability.

Technical data:

- Opening width: 100 μ m
- Water permeability coefficient kv (s = 20 kPa) $1,0 \times 10^{-3}$ m/s
- Tensile strength (lengthwise + crosswise)/2: 15 KN/m
- Punch push-through force (x-s): 2,0 KN
- Weight: 200 g/m²
- Robustness class: 3
- Roll material: Roll width 5 m (196.9")

Product: GRAF Tex 200



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Deaeration end DN 110 (4")

Deaeration end DN 110 (4") should always be installed for attenuation/infiltration systems in the event of heavy inflow of rain/surface water or undersized house venting installation.

Technical data:

- DN 110 (4")
- Colour: Black
- Rodent guard
- Can be extended with standard DN 110 (4")

Product: GRAF Deaeration end DN 110 (4")

Deaeration cover DN 160/200 (6"/8")

Deaeration cover DN 160/200 (6"/8") should always be installed for attenuation/infiltration systems in the event of heavy inflow of rain/surface water or undersized house venting installation.

Technical data:

- DN 160/200 (6"/8")
- Colour: Black
- Can be extended with standard DN 160/200 pipes (6"/8")

Product: GRAF Deaeration cover DN 160/200 (6"/8")