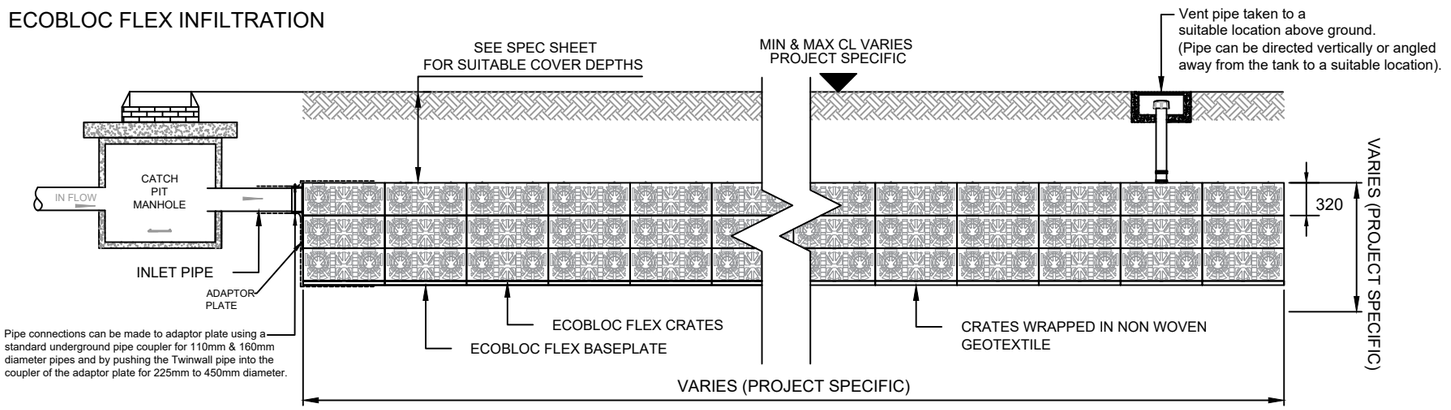
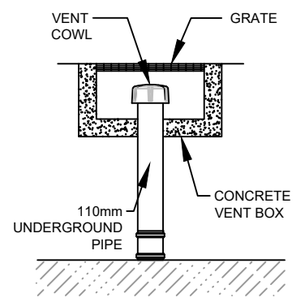
ECOBLOC FLEX INFILTRATION



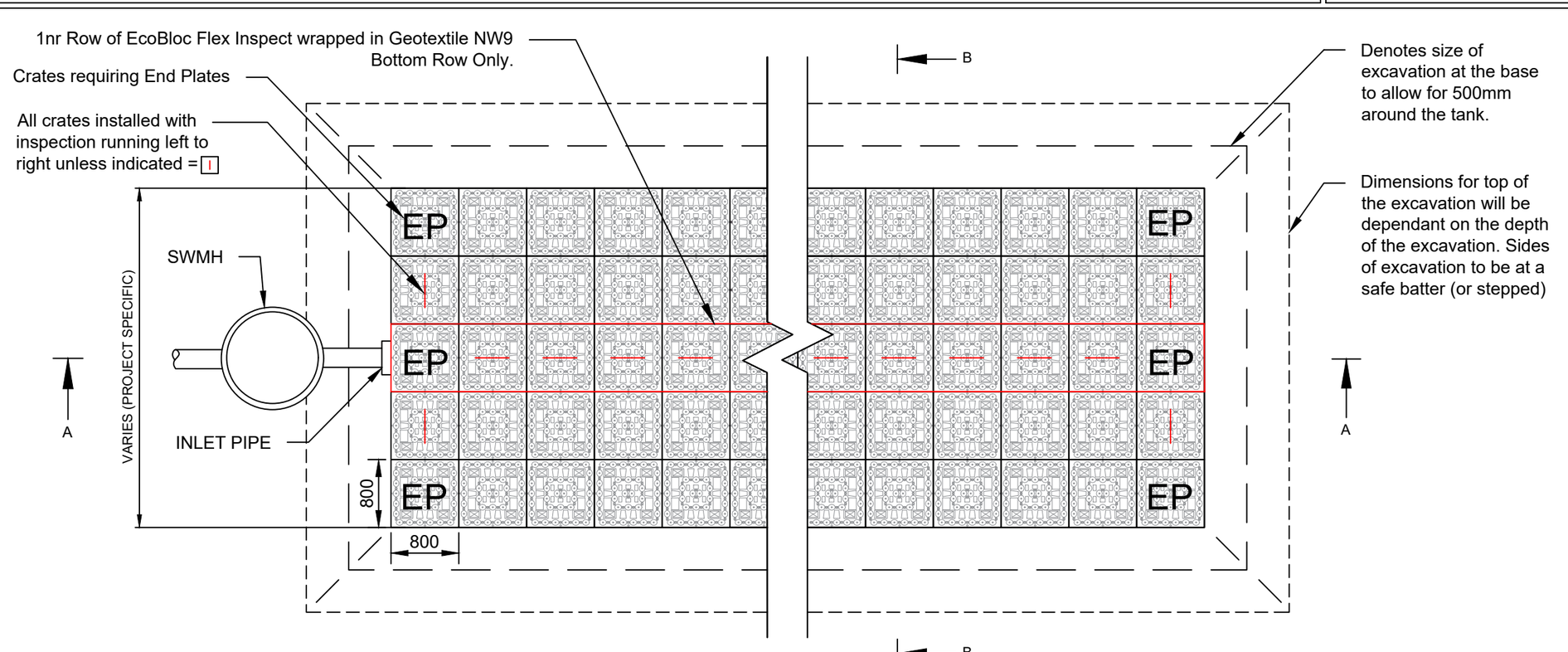
SECTION A-A
1:60

VENT DETAIL



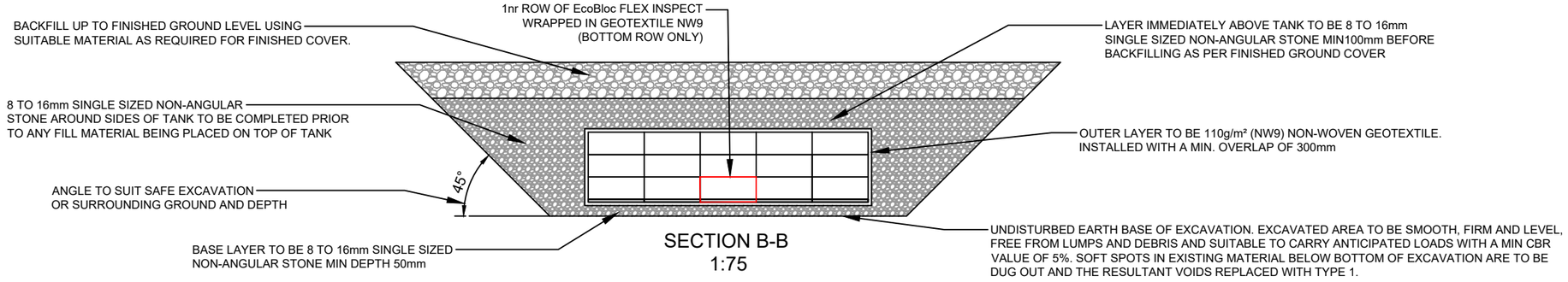
1:25

NB. The Infiltration tank must be vented to a suitable location above ground and it is recommended to have one Ø110mm vent pipe for every 7,500m² of impermeable catchment area.



PLAN VIEW
1:60

NOTE: EXCAVATION TO EXCEED TANK SIZE BY 500MM ON ALL SIDES TO ALLOW FOR ACCESS



SECTION B-B
1:75

DO NOT SCALE - IF IN DOUBT ASK

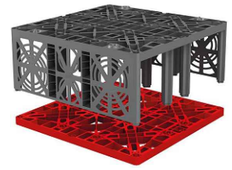
Notice: This drawing is issued only as a guideline and is an estimate of the materials required to construct the drainage system, it should not be used for construction purposes.

Graf UK Ltd makes no warranty or guarantee in relation to the suitability of any of the layout details shown on this drawing in relation to a particular scheme.

NOTES:-

1. All dimensions in mm, unless otherwise stated.
2. All dimensions are nominal and may vary within manufacturing tolerances.
3. All site temporary enabling works by others.
4. Graf products to be installed in strict accordance with Graf recommendations.
5. This drawing is intended for guidance only. Confirmation of the suitability for a particular project should be sought from the consulting engineers prior to final design or commencement of any construction works.

ECOBLOC FLEX



	Crate	Baseplate
Dimensions (mm)	800 x 800 x 320	800 x 800 x 40
Gross Volume (m3)	0.205m³	0.025m³
Net Volume (m3)	0.199m³	0.020m³
Material	Polypropylene	Polypropylene
Weight	8kg	4kg
Void Ratio	>96% depending on number of layers	
Inspectable	Yes	
*UCS Vertical	340 kN/m²	
*UCS Lateral	82 kN/m²	

*Ultimate Compression Strength

BBA APPROVAL INSPECTION TESTING CERTIFICATION
CERTIFICATE 15/5200

REV.	DESCRIPTION	BY	DATE
P2	UPDATED NOTES	AP	21.09.22
P1	PRELIMINARY FOR APPROVAL	AP	05.03.21

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DRAWN : AP DATE : 05.03.2021
CHECKED : MC SCALE : VARIOUS@A3

PROJECT
GRAF STANDARD DETAILS

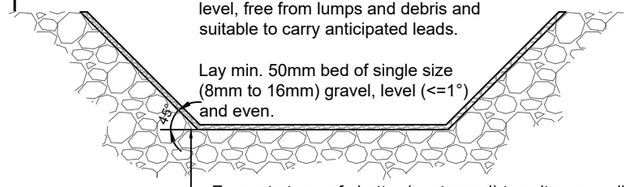
DESCRIPTION
INFILTRATION TANK
using GRAF ECOBLOC FLEX

DRAWING No. STANDARD DETAIL.FLEX
REV. P2 (Pg.1)

1

Excavation to comply with the size and depth of the tank proposed.
Excavation area to be smooth, firm and level, free from lumps and debris and suitable to carry anticipated leads.

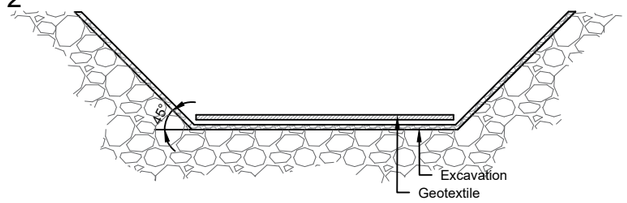
Lay min. 50mm bed of single size (8mm to 16mm) gravel, level (<=1°) and even.

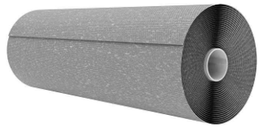


Excavate to a safe batter (or stepped) to suit surrounding ground and depth. max height of vertical sides to be 1.2m

2

Lay the geotextile on the base of the excavation.



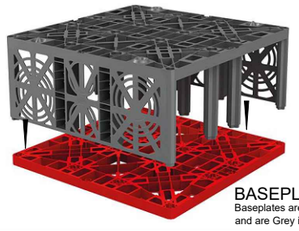


Geotextile:
110g/m² Non-woven, needle punched geotextile

Geotextiles with characteristics less than those specified are unlikely to be suitable and are therefore not recommended for use with Graf UK systems for this application

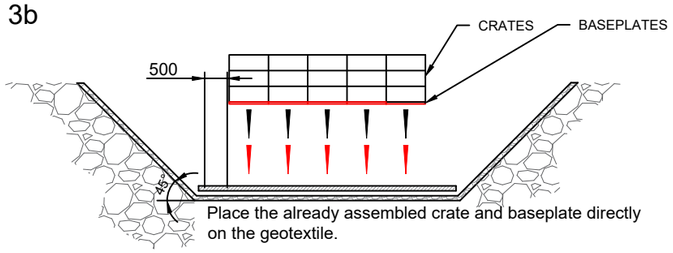
3a Assemble EcoBloc Flex crate and Baseplate as shown below.

ECOBLOC FLEX CRATE

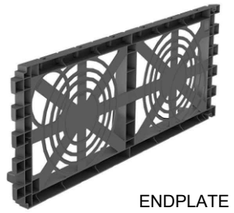


BASEPLATE
Baseplates are Red for illustration purposes only and are Grey in colour

3b

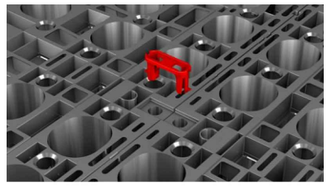


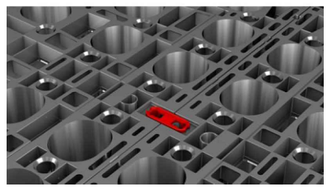
Place the already assembled crate and baseplate directly on the geotextile.



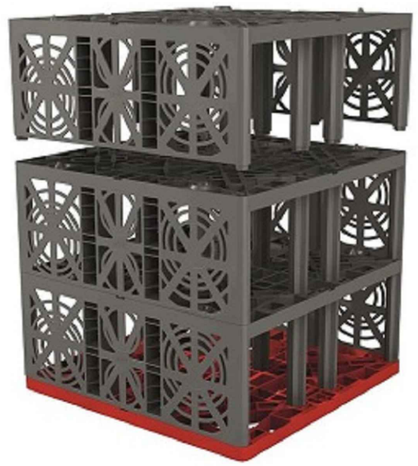
ENDPLATE

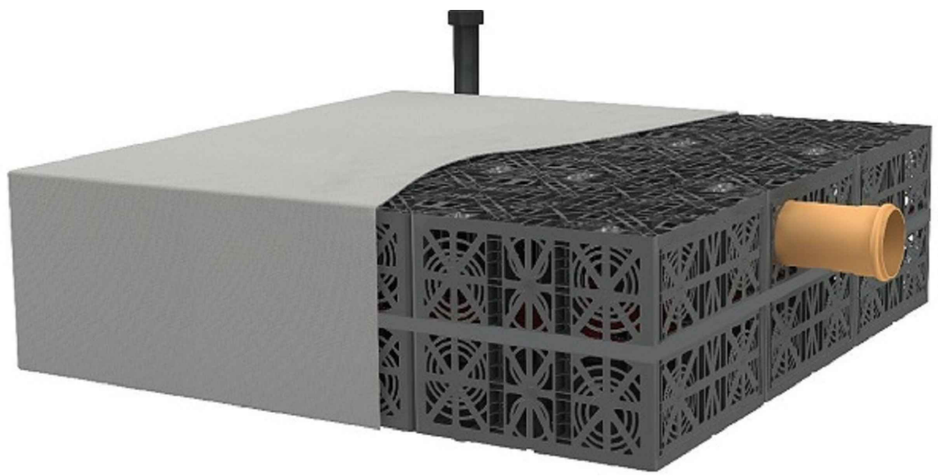
Remove a crate from the stack and place on top of the previously placed crate ensuring the connector clips are clipped locking the crates together.





Connector clips are Red for illustration purposes only and are Grey in colour

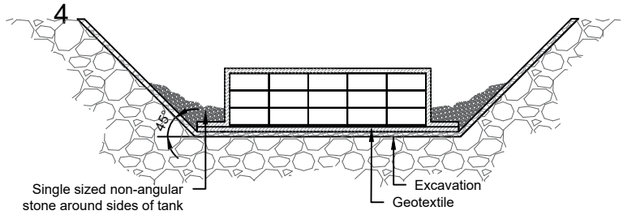




Endplates are then clipped to the tank where required.

Wrap the geotextile around the top and sides of the tank. Installed with a Min. 300mm overlap.

4



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INSTALLATION METHOD:-

1. a) Excavate the trench with a safe batter (or stepped) ensuring the footprint allows for sufficient space between tank and the sides. (minimum 500mm around all sides of the tank).
   b) Mark out the position of the tank including inlets and outlets.
   c) Lay min. 50mm of single sized non angular stone (8 to16mm) as a base for the tank. This can be laid to a maximum fall of 1°.

2. a) Lay the Geotextile over the base of the excavation, overlapping any joins by a minimum of 300mm
   b) The Geotextile used must meet the specification stated on the drawing.

3. a) Assemble EcoBloc Flex Crate and Baseplate, position leg ends into corresponding holes in the Baseplate. The crate will only fit in the correct orientation. Push down firmly to ensure Crate is located correctly.
   b) Install already assembled Crates and Baseplates onto the geotextile until the first layer is complete. Insert retaining clips into each adjacent Crate.
   c) To install the next layer of Crates remove from the stack and turn 90° and position directly above the Crate below. Push down firmly to ensure Crate is located correctly.
   d) Continue until all Crates have been installed, ensuring clips are used to secure each Crate.
   e) Fit Endplates to the sides of each Crate by positioning the bottom in place then pushing firmly on the top section to locate into place.

4. a) Fix adaptor plates to the sides of the crates in the required position for the inlet pipes.
   d) Cover the top and sides with Geotextile.
   c) Install vent pipe connection into the top of the tank at a suitable location.
   d) Backfill around the tank and for 100mm above with non-angular stone. Backfill to finished ground level with suitable material in layers.
   e) Connect inlet pipes using appropriate bandseals.
   f) In order to prevent silt from entering the tank it is recommended that silt traps or catchpit manholes are installed upstream of any inlet. These should be regularly maintained to avoid the buildup of any silt.

N.B. Installation method may vary depending on depth of the tank and is project specific. For more information or technical questions please contact our Technical Department at Graf UK.

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P2	UPDATED NOTES	AP	21.09.22
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DRAWN : DB DATE : 05.03.2021
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PROJECT
GRAF STANDARD DETAILS

DESCRIPTION
INFILTRATION TANK
using GRAF ECOBLOC FLEX

DRAWING No. STANDARD DETAIL.FLEX REV. P2 (Pg.2)