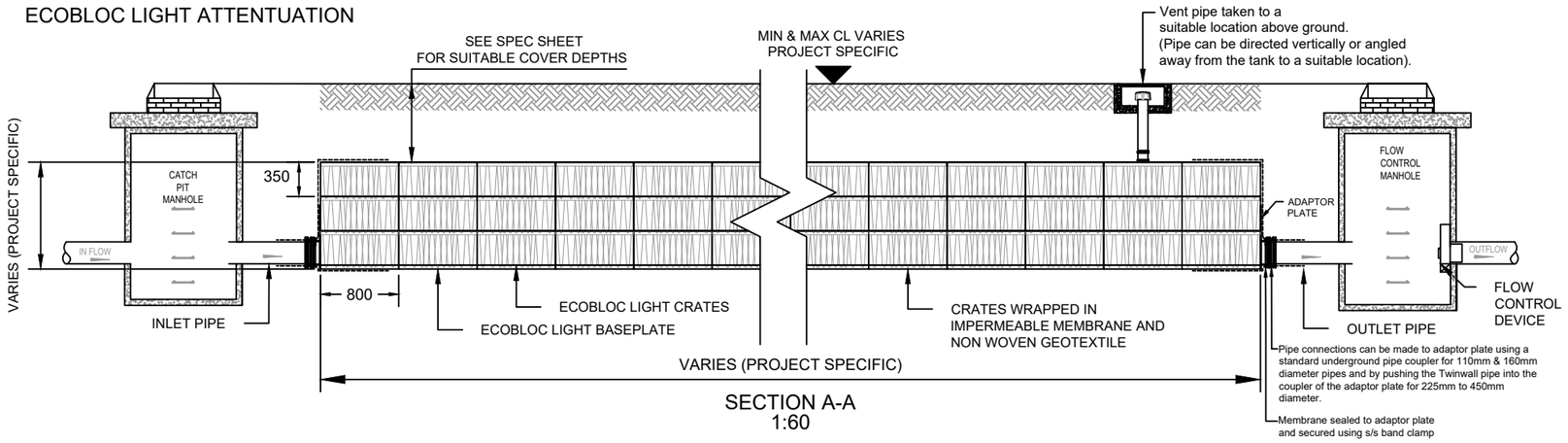
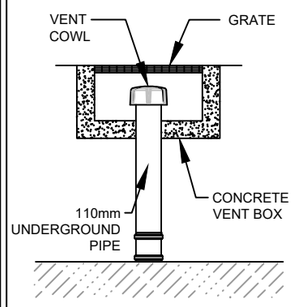
ECOBLOC LIGHT ATTENTUATION



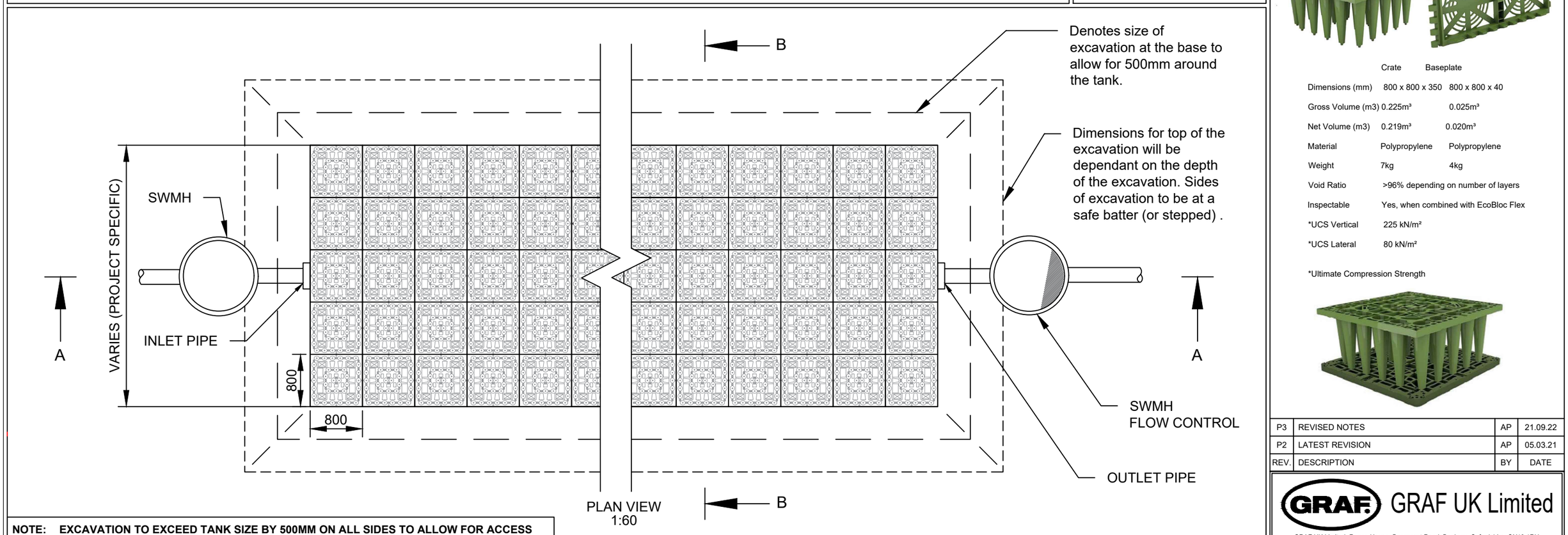
SECTION A-A
1:60

VENT DETAIL

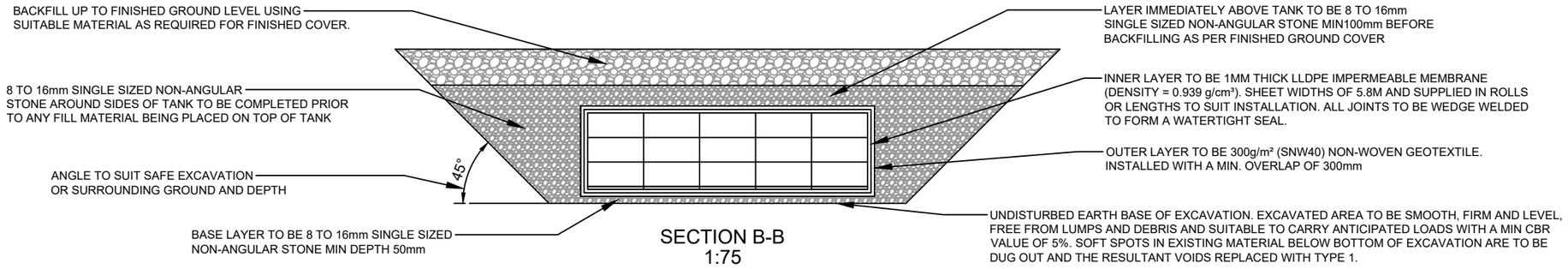


1:25

NB. The attenuation 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.



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



SECTION B-B
1:75

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NOTES:-

1. All dimensions in mm, unless otherwise stated.
2. All dimensions are nominal and may vary within manufacturing tolerances.
3. All site temporary an 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 LIGHT

	Crate	Baseplate
Dimensions (mm)	800 x 800 x 350	800 x 800 x 40
Gross Volume (m3)	0.225m³	0.025m³
Net Volume (m3)	0.219m³	0.020m³
Material	Polypropylene	Polypropylene
Weight	7kg	4kg
Void Ratio	>96% depending on number of layers	
Inspectable	Yes, when combined with EcoBloc Flex	
*UCS Vertical	225 kN/m²	
*UCS Lateral	80 kN/m²	

*Ultimate Compression Strength

REV.	DESCRIPTION	BY	DATE
P3	REVISED NOTES	AP	21.09.22
P2	LATEST REVISION	AP	05.03.21

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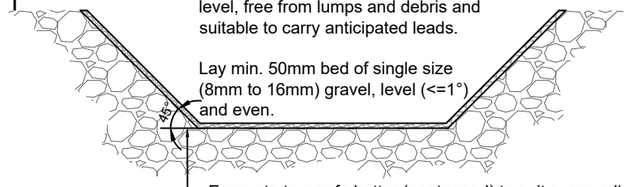
DRAWN : DB DATE : 05.10.2018
CHECKED : MC SCALE : VARIOUS@A3

PROJECT
GRAF STANDARD DETAILS

DESCRIPTION
ATTENUATION TANK
using GRAF ECOBLOC LIGHT

DRAWING No. STANDARD DETAIL.LIGHT REV. P3

1

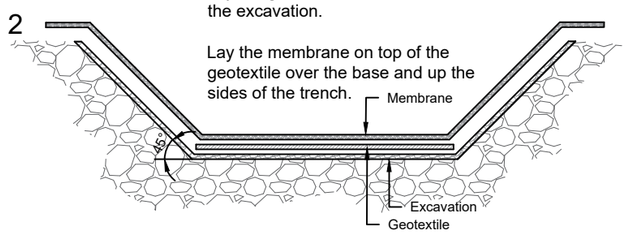


Excavation to comply with the size and depth of the tank proposed.
Excavation area to be smooth, firm and level, free from lumps and debris and suitable to carry anticipated leads.

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

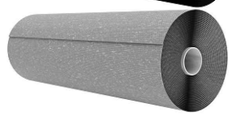
2



Lay the geotextile on the base of the excavation.

Lay the membrane on top of the geotextile over the base and up the sides of the trench.

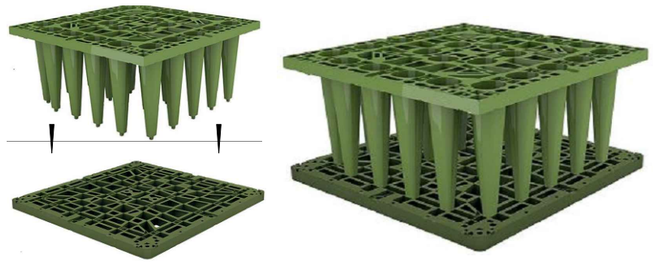
Geomembrane:
1mm Thick LLDPE Geomembrane with a density of at least 0.939g/cm³



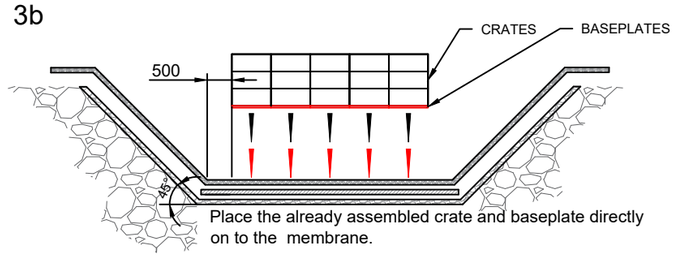
Geotextile:
300g/m² Non-woven, needle punched geotextile

Geomembranes and 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

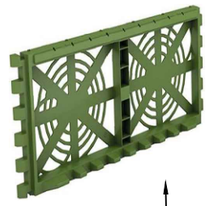
3a Assemble Baseplate and Ecobloc Maxx crate as shown below.



3b

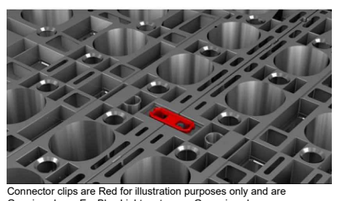


Place the already assembled crate and baseplate directly on to the membrane.



ENDPLATE

Remove a crate from the stack, rotate it 90° 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. EcoBloc Light crates are Green in colour

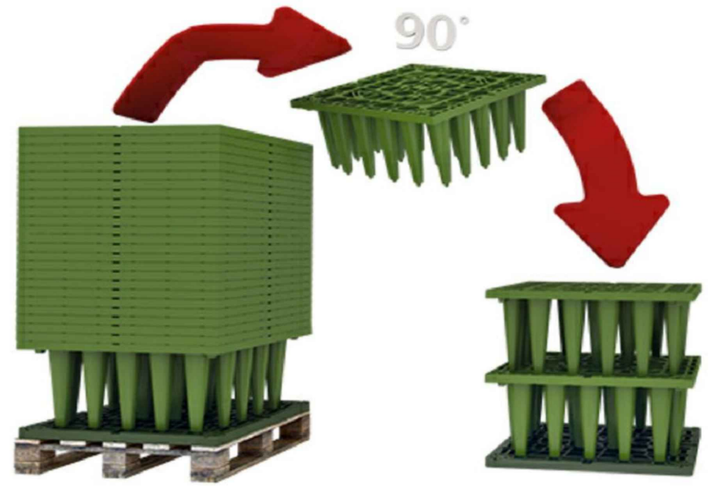
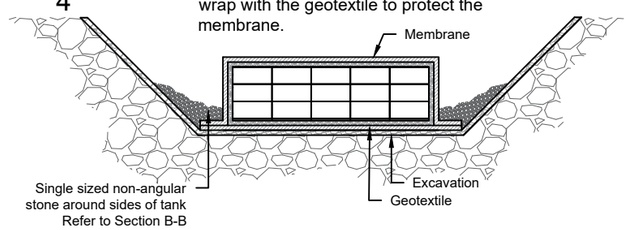


Image shown is of an EcoBloc Light Attenuation Tank with a Vario shaft and a row of EcoBloc Flex for Inspection / maintenance

Endplates are then clipped to the tank where required.

Wrap the crates with the geomembrane ensuring it is heat welded/sealed then wrap with the geotextile to protect the membrane.

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) Lay the Membrane on top of the Geotextile over the base and up the sides of the trench.
   c) Membrane must be joined by thermal fusion heated wedge welding. It is recommended that the Dual Seam method is used as this generates an unwelded channel which can be pressured with air to check the integrity of the weld.
   d) The Membrane and Geotextile used must meet the specification stated on the drawing.

3. a) Assemble EcoBloc Light 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 membrane 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 and outlet pipes.
   b) Cut a hole in the Geomembrane and pull up over the adaptor plate sealing the membrane around the spigot of the adaptor plate.
   c) Pull Membrane up around the sides and fully wrap the crates, securing the lid in place by heated wedge welding to the side panels.
   d) Cover the top and sides with Geotextile to protect the Geomembrane.
   e) Install vent pipe connection into the top of the tank at a suitable location.
   f) Backfill around the tank and for 100mm above with non-angular stone. Backfill to finished ground level with suitable material in layers.
   g) Connect inlet/outlet pipes using appropriate bandseals.
   h) 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.

REV.	DESCRIPTION	BY	DATE
P3	REVISED NOTES	AP	21.09.22
P2	LATEST REVISION	AP	05.03.21

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DRAWN : DB DATE : 05.10.2018
CHECKED : MC SCALE : VARIOUS@A3

PROJECT
GRAF STANDARD DETAILS

DESCRIPTION
ATTENUATION TANK
using GRAF ECOBLOC LIGHT

DRAWING No. STANDARD DETAIL.LIGHT REV. P3 (Pg.2)