

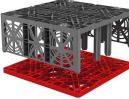
THIS DOCUMENT IS SUPPLIED IN STRICT CONFIDENCE AND MUST NOT BE LENT, REPRODUCED OR DISCLOSED TO ANY THIRD PARTY WITHOUT THE WRITTEN CONSENT OF GRAF UK LIMITED

DO NOT SCALE - IF IN DOUBT ASK

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

- All dimensions are nominal and may vary within manufacturing

- 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.



Dimensions (mm) 800 x 800 x 320 800 x 800 x 40

0.025m3

0.020m³



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



F: 01295 211333

www.grafuk.co.uk

DATE: 01.01.2019 SCALE: VARIOUS@A3

GRAF STANDARD DETAILS

using GRAF ECOBLOC FLEX

STANDARD DETAIL.FLEX

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

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.

Membrane

Excavation

Geotextile

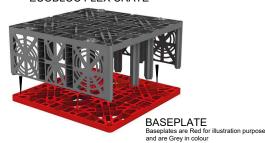
Geomembrane: 1mm Thick LLDPE Geomembrane with a density of at least 0.939g/cm³

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 EcoBloc Flex crate and Baseplate as shown below.

ECOBLOC FLEX CRATE

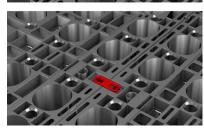


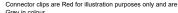
Place the already assembled crate and baseplate directly on the membrane.



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.



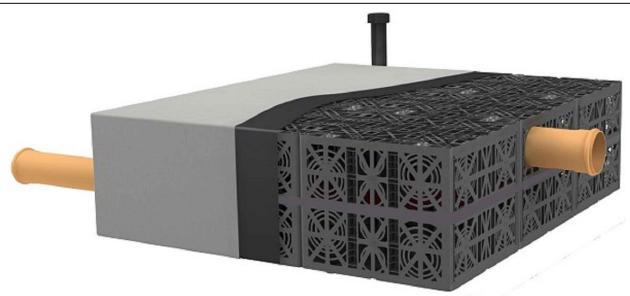






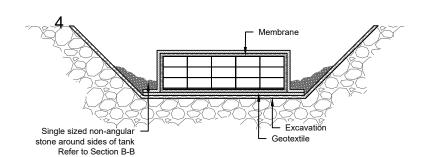






Endplates are then clipped to the tank where required.

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



THIS DOCUMENT IS SUPPLIED IN STRICT CONFIDENCE AND MUST NOT BE LENT, REPRODUCED OR DISCLOSED TO ANY THIRD PARTY WITHOUT THE WRITTEN CONSENT OF GRAF UK LIMITED

DO NOT SCALE - IF IN DOUBT ASK

otice: This drawing is issued only as a guideline and is an estimate of the materials required to construct

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

INSTALLATION METHOD:-

- 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 to 16mm) as a base for the tank. This can be laid to
 - (8 to 16mm) 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.
- the integrity of the weld.
- d) The Membrane and Geotextile used must meet the specification stated on the drawing.
- 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 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.
- 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 yent nine connection into the top of the tank at a suital
- e) Install vent pipe connection into the top of the tank at a suitable
- 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.

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



GRAF UK Limited. Regen House, Beaumont Road, Banbury, Oxfordshire. OX16 1RH

T: 01608 661500 F: 01295 211333 E: info@grafuk.co.uk www.grafuk.co.uk

 DRAWN:
 DB
 DATE:
 01.01.2019

 CHECKED:
 MC
 SCALE:
 VARIOUS@A3

PROJEC^{*}

GRAF STANDARD DETAILS

DESCRIPTION

ATTENUATION TANK using GRAF ECOBLOC FLEX

DRAWING No.

STANDARD DETAIL.FLEX

P3 (Pg.2)