

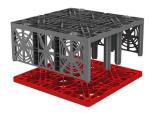
THIS DOCUMENT IS SUPPLIED IN STRICT CONFIDENCE AND MUST NOT BE LENT, REPRODUCED OR DISCLOSED TO ANY THIRD PARTY WITHOUT THE WRITTEN CONSENT OF GRAF UK LIMITED

DO NOT SCALE - IF IN DOUBT ASK

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

- All dimensions in mm, unless otherwise stated
- All dimensions are nominal and may vary within manufacturing tolerances.
- All site temporary enabling works by others
- Graf products to be installed in strict accordance with Graf
- 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

ECOBLOC FLEX



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

Polypropylene

Polypropylene

Gross Volume (m3) 0.205m² 0.025m³

Net Volume (m3) 0.199m³ 0.020m³

Weiaht 8kg 4ka

Void Ratio >96% depending on number of layers

Inspectable Yes

*UCS Vertical 340 kN/m²

*UCS Lateral 82 kN/m²



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



GRAF UK Limited. Regen House, Beaumont Road, Banbury, Oxfordshire. OX16 1RH F: 01295 211333

T: 01608 661500

E: info@grafuk.co.uk www.grafuk.co.uk

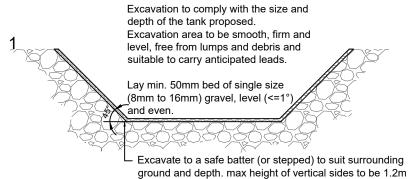
DATE: 05.03.2021 SCALE: VARIOUS@A3

GRAF STANDARD DETAILS

DESCRIPTION

ATTENUATION TANK using GRAF ECOBLOC FLEX

STANDARD DETAIL.FLEX



and up the sides of the trench.

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

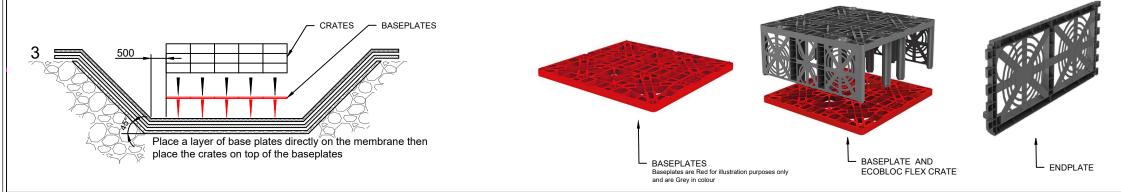
Lay the geotextile over the base

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

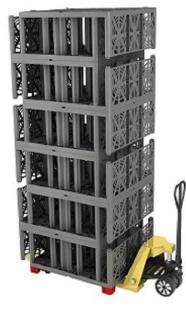


Remove a crate from the stack and place on top of the previously placed crate ensuring the connector clips are clipped locking the crates together.



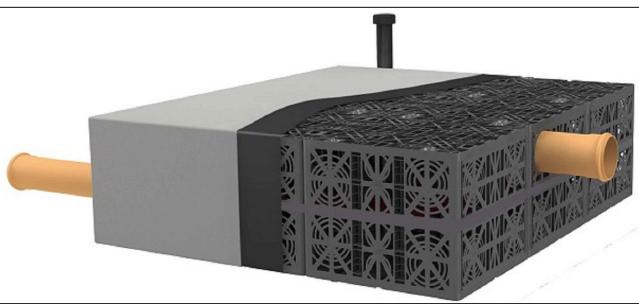






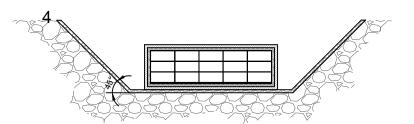






Endplates are then clipped to the tank where required.

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

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

Graf UK Ltd makes no warranty or guarantee in relation to the suitability of any of the layout details show on 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 tof6mm) as a base for the tank. This can be laid to a maximum fall
- 2. a) Lay the Geotextile over the base and up the sides 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) Lay all Baseplates ensuring that they all run in the same
- b) Remove EcoBloc Flex Crate from the stack, position leg ends into corresponding holes in the Baseplate. Push down firmly to ensure Crate is located correctly.
- c) Install Crates into the Baseplates until the first layer is complete.
 Insert retaining clips into each adjacent Crate.
- d) Install the next layer of Crates. Push down firmly to ensure Crate is located correctly.
- e) Continue until all Crates have been installed, ensuring clips are used to secure each Crate.
- f) 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.
- 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) Wrap and overlap the ge
- 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.
- g) Connect interoutiet 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
P1	PRELIMINARY FOR APPROVAL	AP	05.03.21
P2	UPDATED NOTES	AP	21.09.22



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:
 AP
 DATE:
 05.03.2021

 CHECKED:
 MC
 SCALE:
 VARIOUS@A3

PROJECT

GRAF STANDARD DETAILS

DESCRIPTION

ATTENUATION TANK using GRAF ECOBLOC FLEX

DRAWING No.

REV.

STANDARD DETAIL.FLEX

⊃g.2)