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# DO NOT SCALE - IF IN DOUBT ASK

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- All dimensions in mm, unless otherwise stated.
- All dimensions are nominal and may vary within manufacturing
- 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 construction works.

# **ECOBLOC LIGHT**

Dimensions (mm) 800 x 800 x 350 800 x 800 x 40 Gross Volume (m3) 0.225m<sup>3</sup> Net Volume (m3) 0.219m3 0.020m<sup>3</sup> Polypropylene Polypropylene

7kg 4kg >96% depending on number of layers Yes, when combined with EcoBloc Flex

## **ECOBLOC FLEX**

Dimensions (mm) 800 x 800 x 320 800 x 800 x 40 0.025m<sup>3</sup> 0.020m<sup>3</sup> Gross Volume (m3) 0.205m<sup>3</sup> Net Volume (m3) 0.199m3 Polypropylene Polypropylene Weight >96% depending on number of layers

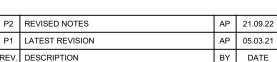
### LIGHT AND FLEX COMBINATION

\*UCS Vertical 168.75 kN/m<sup>2</sup> \*UCS Lateral

80 kN/m<sup>2</sup>

\*Ultimate Compression Strength







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**GRAF STANDARD DETAILS** 

**ATTENUATION TANK** using GRAF ECOBLOC LIGHT AND FLEX

STANDARD DETAIL ECOBLOC LIGHT & FLEX ATTENUATION

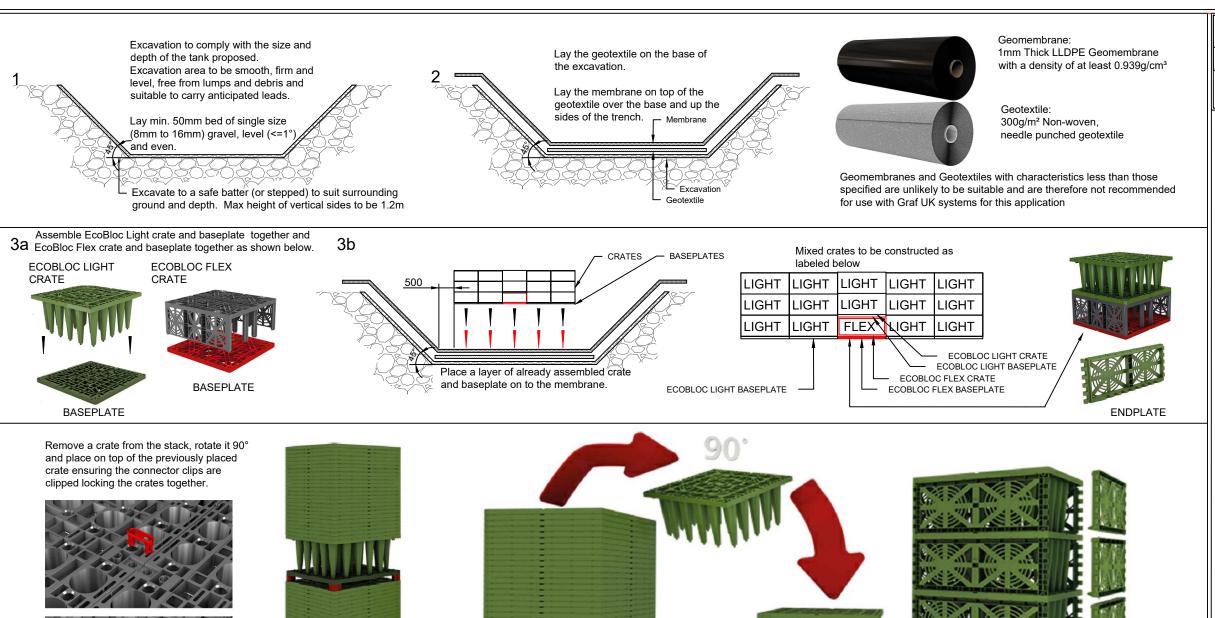




Image shown is of an EcoBloc Light Attenuation Tank with a row of EcoBloc Flex for Inspection / maintenance

Endplates are then clipped to the tank where required.

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

Single sized non-angular

stone around sides of tank Refer to Section B-B 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

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

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#### 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 to16mm) as a base for the tank. This can be laid to a maximum fall
- 2. a) Lay the Geotextile over the base 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. Assemble the row of EcoBloc Flex Crate with baseplates where inspection run is required. If a Vario shaft is to be included within the tank make sure the Vario Shaft base is in position located

(Vario Shaft bases do not not require a crate baseplates).

- b) Install already assembled Crates and Baseplates onto the membrane until the first layer is complete. Insert retaining clips into each adjacent Crate.
- c) Check and make sure the Row of EcoBloc Flex Crates are in the correct located position where inspection run is required.
- d) 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. NOTE: You will need to place an additional row of Ecobloc Light
- Baseplates directly on top of the EcoBloc Flex crates **only**. No more base plates are required.
- 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 Membrane 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 top and sides with the Geotextile covering the entire tank to protect the Membrane.
- 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.
- 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.

 P2
 LATEST REVISION
 AP
 21.09.22

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 DESCRIPTION
 BY
 DATE



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 DRAWN:
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PROJECT

**GRAF STANDARD DETAILS** 

DECODIDE

ATTENUATION TANK using GRAF ECOBLOC LIGHT AND FLEX

DRAWING No

STANDARD DETAIL\_ECOBLOC LIGHT & FLEX\_ATTENUATION

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