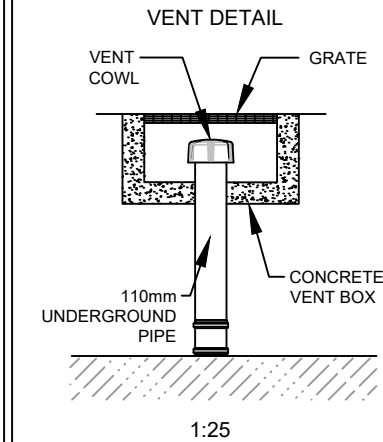
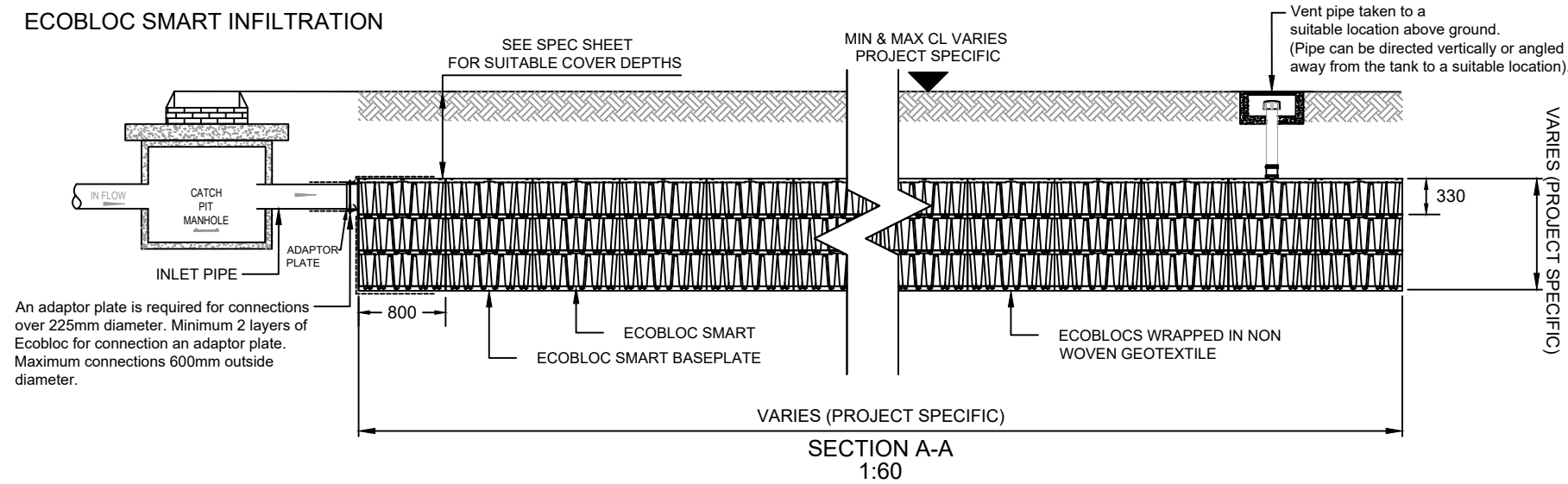


ECOBLOC SMART INFILTRATION



NB. The Infiltration tank must be vented to a suitable location above ground. For recommendation on venting size or location on the tank, please contact GRAF Australia.

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DO NOT SCALE - IF IN DOUBT ASK

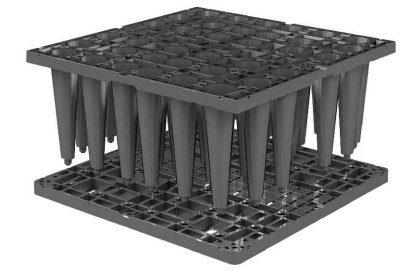
Notice: This drawing is issued only as a guideline and is an estimate of the materials required to construct the drainage system, it should not be used for construction purposes.

Graf Australia Pty 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.

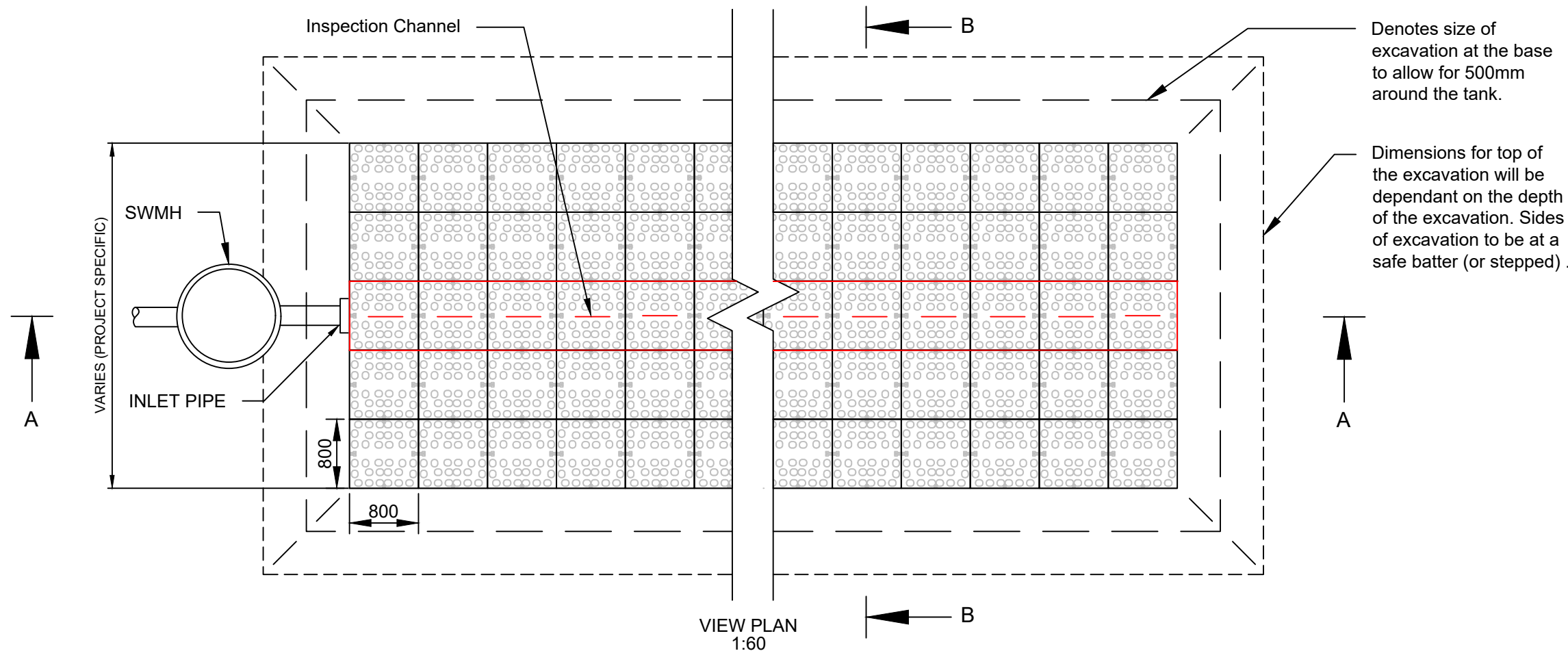
NOTES:-

- 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 recommendations.
- 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 SMART



| | Ecobloc | Baseplate |
|---------------------------------------|------------------------------------|---------------------|
| Dimensions (mm) | 800 x 800 x 330 | 800 x 800 x 40 |
| Gross Volume (m ³) | 0.211m ³ | 0.025m ³ |
| Net Volume (m ³) | 0.202m ³ | 0.024m ³ |
| Material | Polypropylene | Polypropylene |
| Weight | 9.9kg | 4.2kg |
| Void Ratio | >96% depending on number of layers | |
| Inspectable | Yes | |
| Comply to load requirements of AS5100 | | |



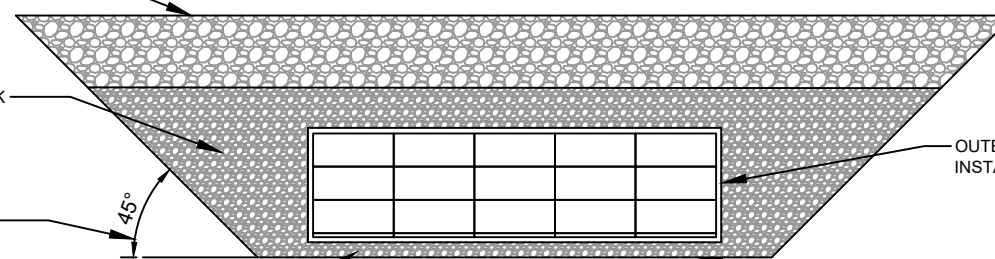
NOTE: EXCAVATION TO EXCEED TANK SIZE BY 500MM ON ALL SIDES TO ALLOW FOR ACCESS. IF THERE IS ANY GROUNDWATER CONDITIONS TO BE CONSIDERED PLEASE CONTACT GRAF TECHNICAL TEAM.

BACKFILL UP TO FINISHED GROUND LEVEL USING SUITABLE MATERIAL AS REQUIRED FOR FINISHED COVER.

NON-COHESIVE, COMPRESSIBLE LOOSE ROCK (GRAVEL, CRUSHED STONE, SAND, ETC.)
MIN. FRICTION ANGLE 32°-40° *
MAX. BULK UNIT WEIGHT 20kN/m³

ANGLE TO SUIT SAFE EXCAVATION OR SURROUNDING GROUND AND DEPTH

BASE LAYER TO BE 8 TO 16mm SINGLE SIZED NON-ANGULAR STONE MIN DEPTH 50mm



OUTER LAYER TO BE NON-WOVEN GEOTEXTILE. INSTALLED WITH A MIN. OVERLAP OF 300mm.

UNDISTURBED EARTH BASE OF EXCAVATION. EXCAVATED AREA TO BE SMOOTH, FIRM AND LEVEL, FREE FROM LUMPS AND DEBRIS AND SUITABLE TO CARRY ANTICIPATED LOADS.

* These values depends on installation conditions. Please, contact GRAF Technical team for more details.

| | | | |
|------|-----------------|----|------------|
| 2 | LATEST REVISION | AA | 04.01.2023 |
| 1 | LATEST REVISION | MV | 13.09.2022 |
| REV. | DESCRIPTION | BY | DATE |



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DRAWN : AA DATE : 04.01.2023
CHECKED : MV SCALE : VARIOUS@A3

PROJECT
GRAF STANDARD DETAILS

DESCRIPTION
INFILTRATION TANK using GRAF ECOBLOC SMART

DRAWING No. **DWG-356** REV. **2**
(Pg.1)

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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.

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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.
 c) Lay min. 50mm of single sized non angular stone (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 the excavation, overlapping any joins by a minimum of 300mm.
 b) The geotextile used must meet the specification stated on the drawing.
3. a) Place EcoBlocs Smart Baseplates on top of the geotextile. Baseplates do not require clipping.
 b) Place EcoBlocs Smart on the baseplates according to inspection orientation, position leg ends into corresponding holes in the Baseplate. The bloc will only fit in the correct orientation. Push down firmly to ensure the EcoBloc is located correctly, clipping each adjacent bloc using the connectors until the first layer is completed.
 c) To install the next layer of blocs remove from the stack and turn 90° and position directly above the bloc below. Push down firmly to ensure the bloc is located correctly.
 d) Continue until all EcoBlocs Smart have been installed, ensuring clips are used to secure each bloc.
 e) Fit Endplates to the sides of each bloc 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 blocs in the required position for the inlet and if required.
 b) Cut a hole in the geotextile for inlet connections.
 c) Pull geotextile up around the sides and fully wrap the blocs, securing the top in place.
 d) Install vent pipe connection into the top of the tank at a suitable location.
 e) Backfill around the tank in 300mm layers increments using non-cohesive, compressible loose rock (gravel, crushed rock, sand, etc).
 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 Australia Pty Ltd.

| | | | |
|---|-----------------|----|------------|
| 2 | LATEST REVISION | AA | 04.01.2023 |
|---|-----------------|----|------------|

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|---|-----------------|----|------------|
| 1 | LATEST REVISION | MV | 13.09.2022 |
|---|-----------------|----|------------|

| REV. | DESCRIPTION | BY | DATE |
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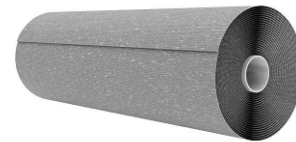
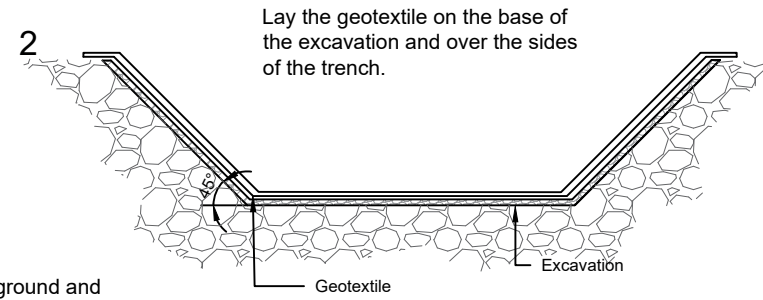
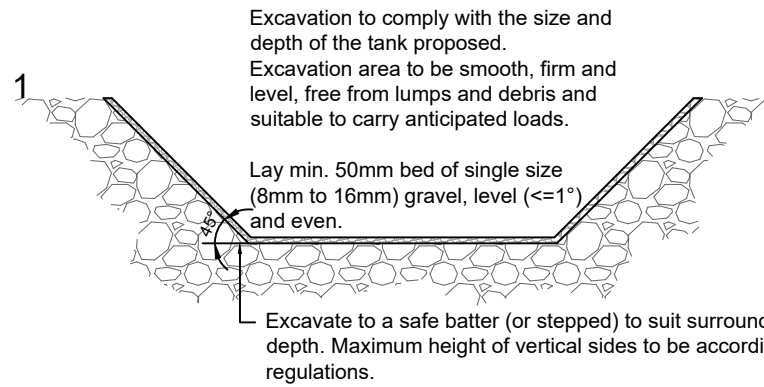
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|--------------|--------------------|
| DRAWN : AA | DATE : 04.01.2023 |
| CHECKED : MV | SCALE : VARIOUS@A3 |

PROJECT
GRAF STANDARD DETAILS

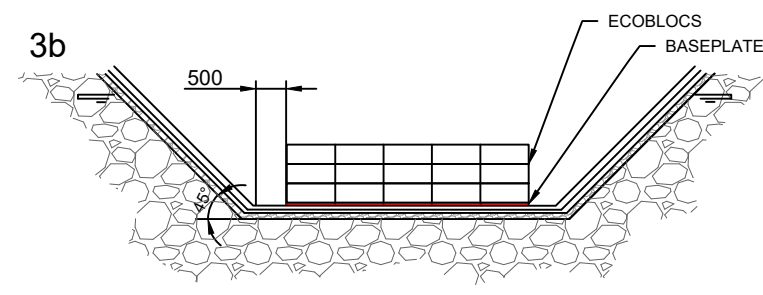
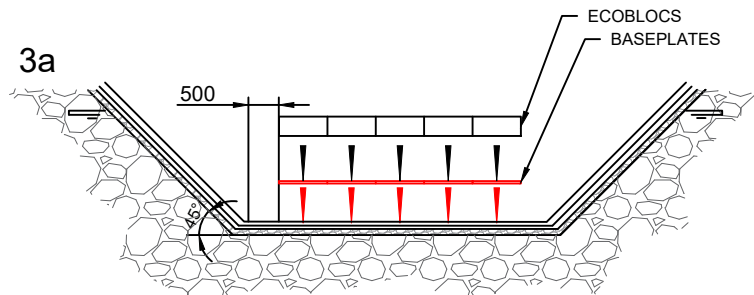
DESCRIPTION
**INFILTRATION TANK
 using GRAF ECOBLOC SMART**

| | |
|----------------|--------------------|
| DRAWING No. | REV. |
| DWG-356 | 2 (Pg.2) |

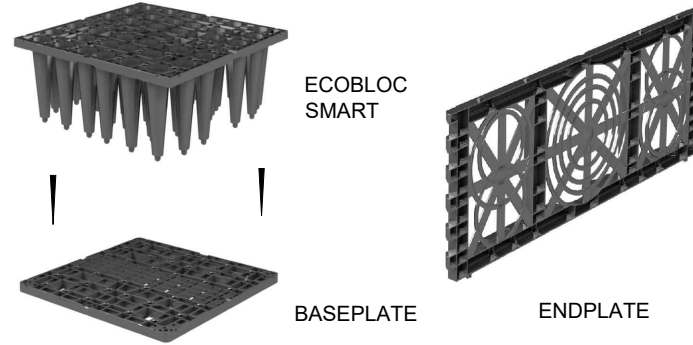


Geotextile:
 150g/m² Non-woven

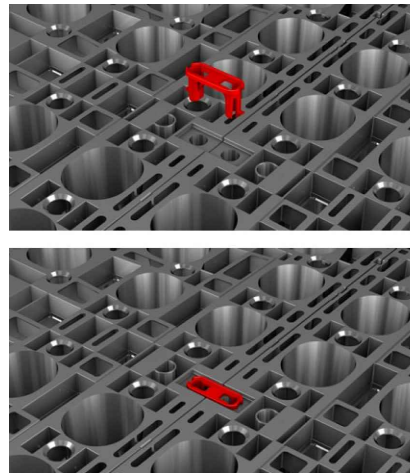
Geotextiles with characteristics less than those specified are unlikely to be suitable and are therefore not recommended for use with Graf Australia systems for this application



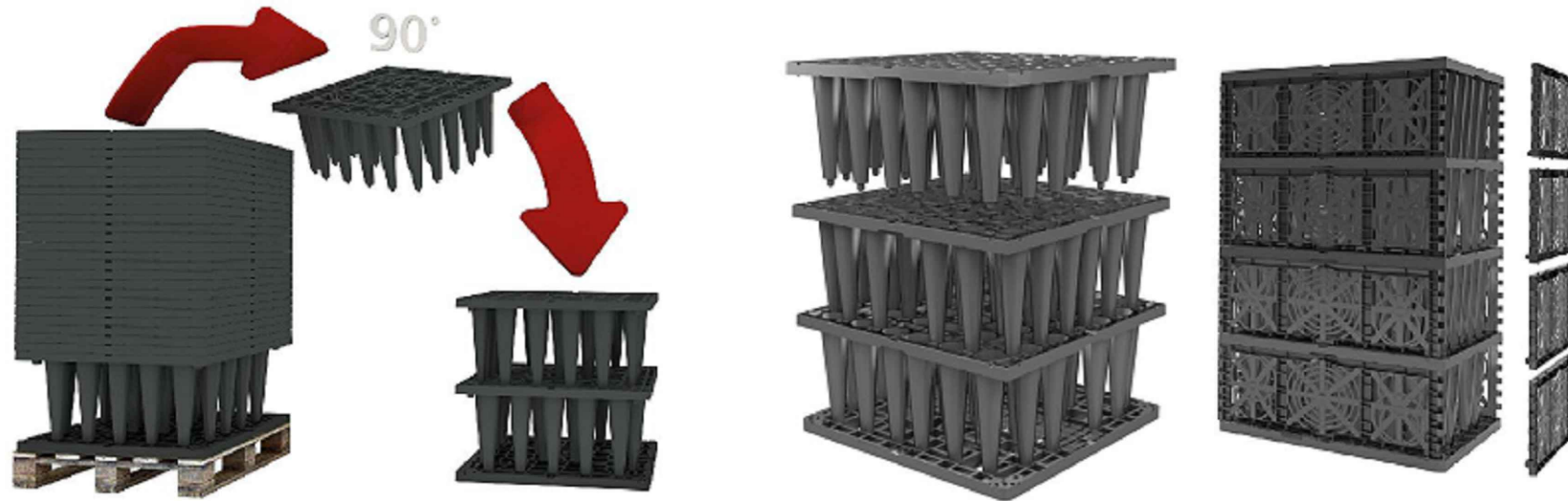
Assemble EcoBloc Smart module and Baseplate as shown below.



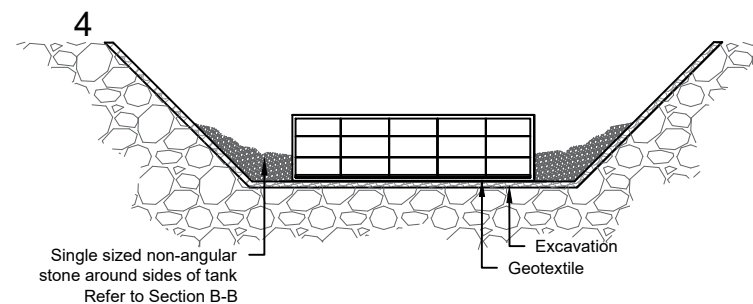
Place the one layer of Ecoblocs on top of the previously placed layer of Ecoblocs ensuring the connector clips are locking the Ecoblocs together.



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



Finally, wrap the blocs with the geotextile.



Infiltration Tank

