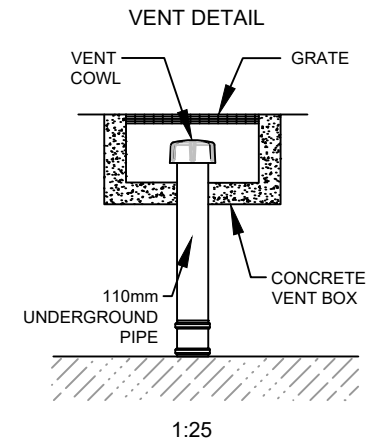
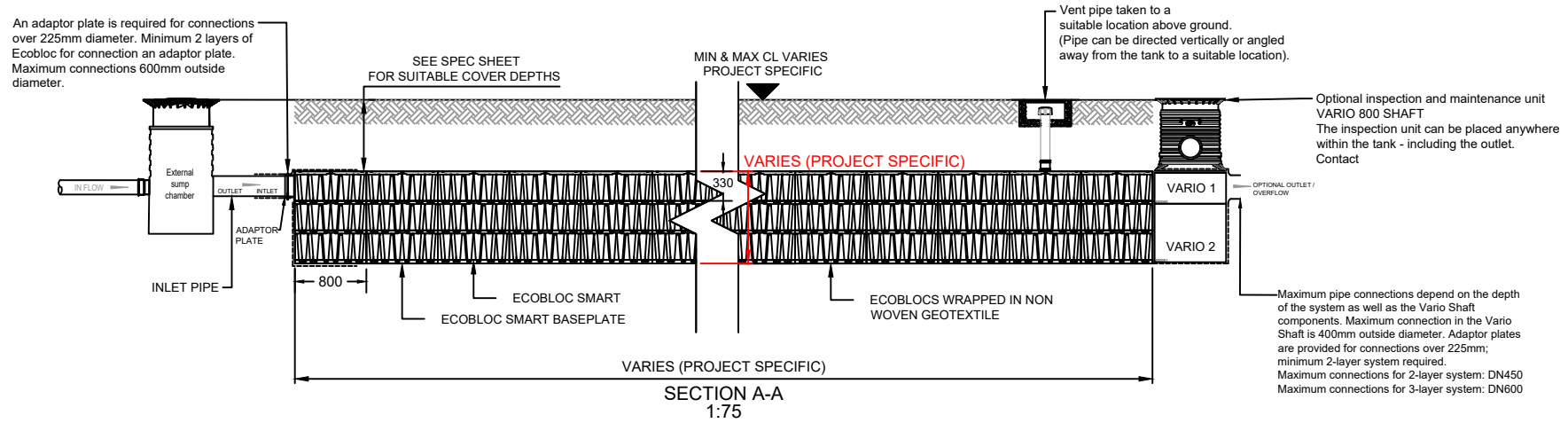


ECOBLOC SMART INFILTRATION



NB. The infiltration 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.

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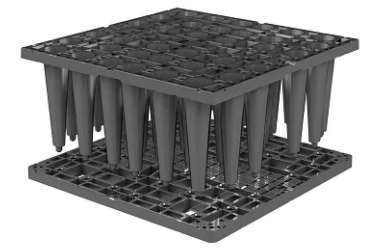
DO NOT SCALE - IF IN DOUBT ASK

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.

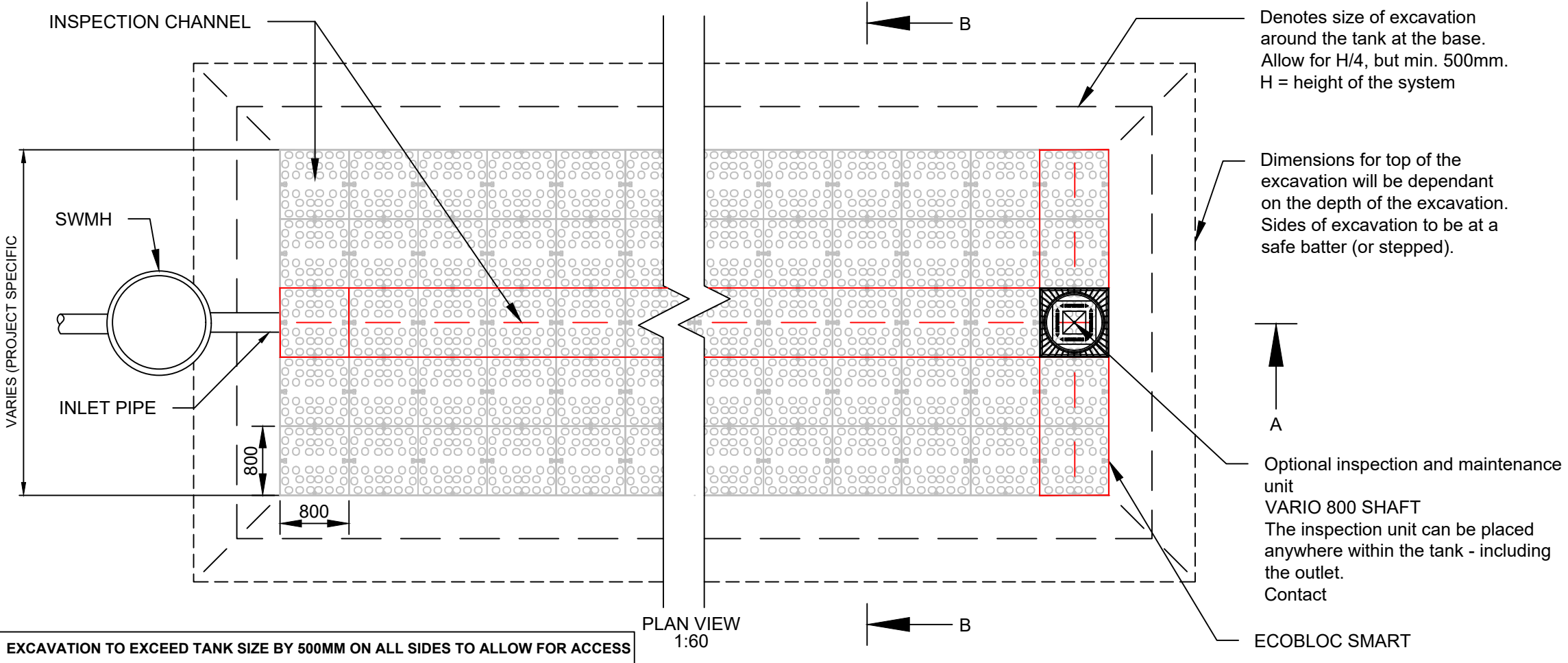
Graf Australia Pty Ltd makes no warranty or guarantee in relation to the suitability of any of the layout details shown on this drawing in relation to a particular scheme.

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

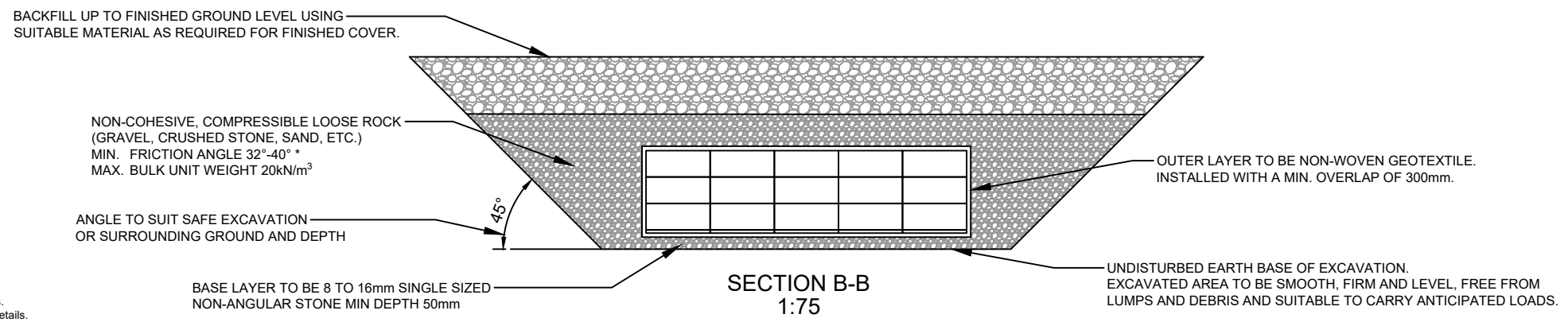
ECOBLOC SMART



	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



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

2	LATEST REVISION	SS	20.10.2025
REV.	DESCRIPTION	BY	DATE

GRAF GRAF Australia Pty Ltd

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DRAWN :	SS	DATE :	20.10.2025
CHECKED :	AW	SCALE :	VARIOUS@A3

PROJECT

GRAF STANDARD DETAILS

DESCRIPTION

INFILTRATION TANK WITH PRE-TREATMENT GRAF ECOBLOC SMART

DRAWING No.	DWG- 479	REV.	1 (Pg.1)
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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) Assemble EcoBloc Smart and Baseplate, 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.
 b) Install already assembled EcoBloc Smart and Baseplates onto the geotextile until the first layer is complete. Insert retaining clips into each adjacent bloc.
 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	MV	20.10.2025
REV.	DESCRIPTION	BY	DATE

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DRAWN :	SS	DATE :	20.10.2025
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PROJECT
GRAF STANDARD DETAILS

DESCRIPTION
INFILTRATION TANK WITH PRE-TREATMENT GRAF ECOBLOC SMART

DRAWING No.	DWG-479	REV.	1 (Pg.2)
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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 loads.

Lay min. 50mm bed of single size (8mm to 16mm) gravel, level (<=1°) and even.

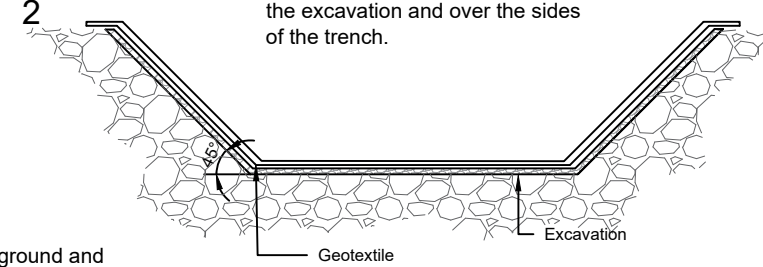
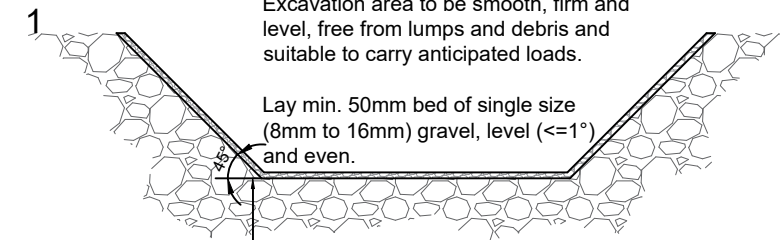
Excavate to a safe batter (or stepped) to suit surrounding ground and depth. Maximum height of vertical sides to be according to local regulations.

Lay the geotextile on the base of the excavation and over the sides of the trench.

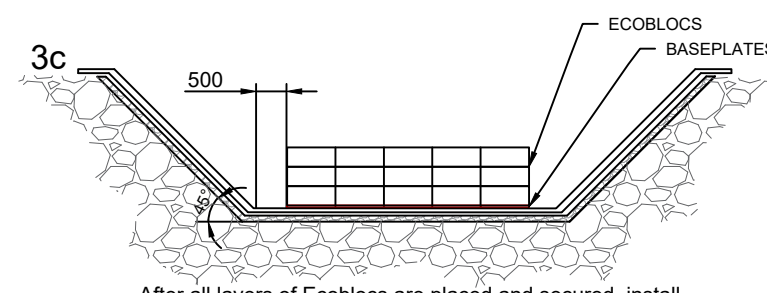
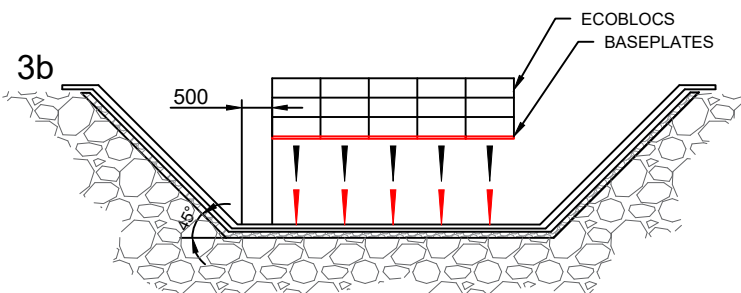
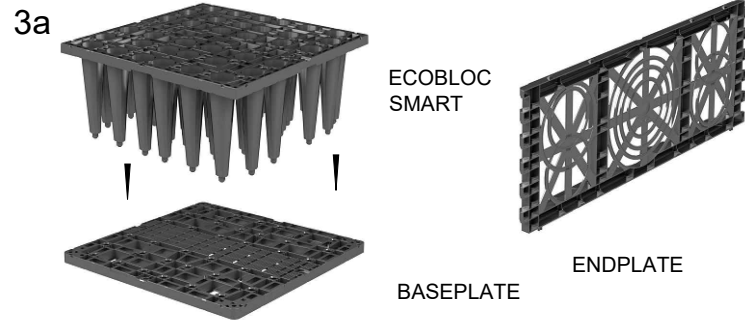
Geotextile:
 150g/m² Non-woven



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



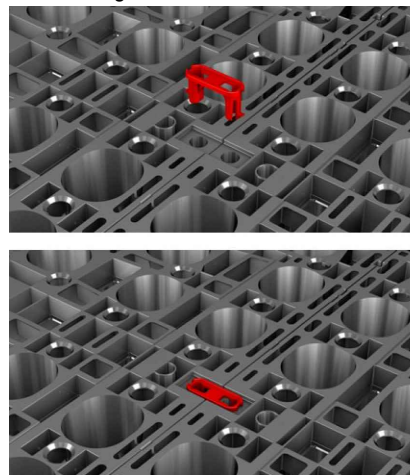
Assemble EcoBloc Smart module and Baseplate as shown below.



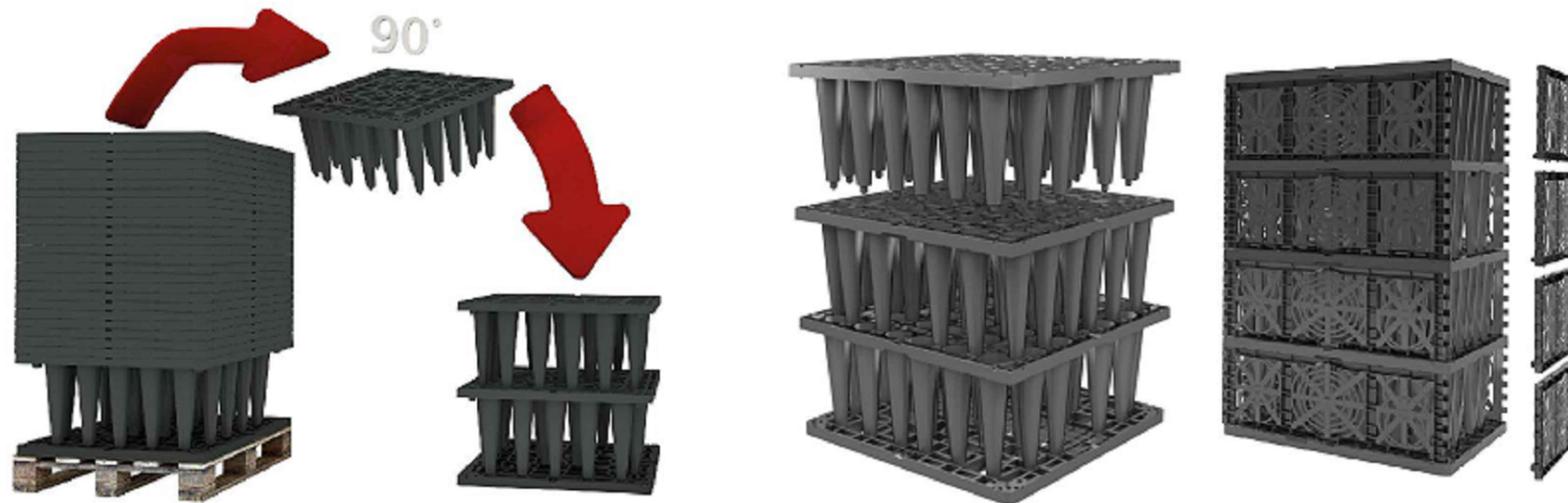
Place the already assembled blocs and baseplate directly on the geotextile securing them with connectors.

After all layers of EcoBlocs are placed and secured, install the End Plates. Endplates are clipped to the tank where it is required.

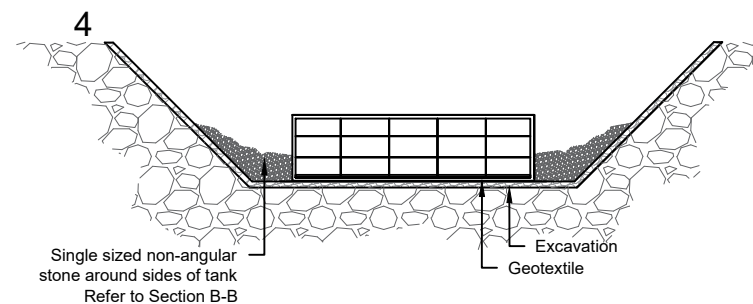
Place the one layer of ecoblocs on top of the previously placed layer of Baseplates ensuring the connector clips are locking the EcoBlocs together.



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



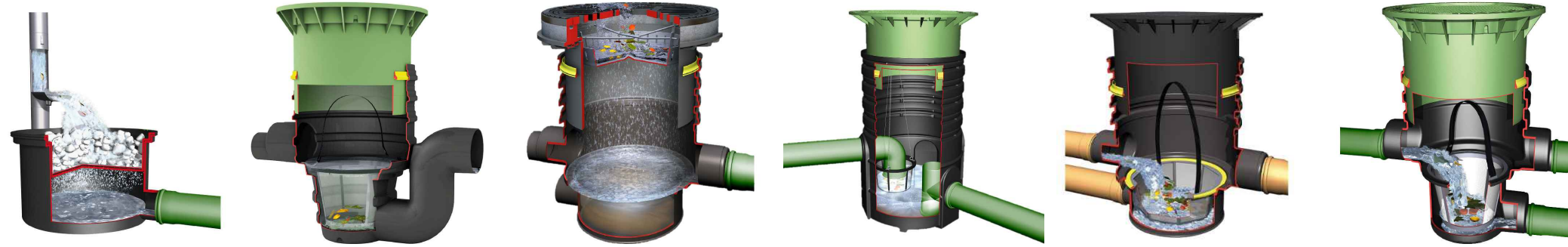
Finally, wrap the blocs with the geotextile.



Infiltration Tank



SUMMARY OF EXTERNAL TREATMENT CHAMBER OPTIONS



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EXTERNAL FILTER SELECTION METHOD:

1. Calculate the incoming and outgoing flow rates and connected area
2. Size the incoming and outgoing pipe desired to meet the design flow rates
3. Determine the required load rating, Pedestrian, Class B or Class D.
4. Determine the incoming pollution type and size and treatment required

Gross pollutants : > 35mm
Sediments : 63-6300 µm
Fine Particles : 0.45-63 µm

5. Determine the frequency of maintenance desired
6. Place external sump before the infiltration ECOBLOC SMART modules
7. DN denotes external diameter

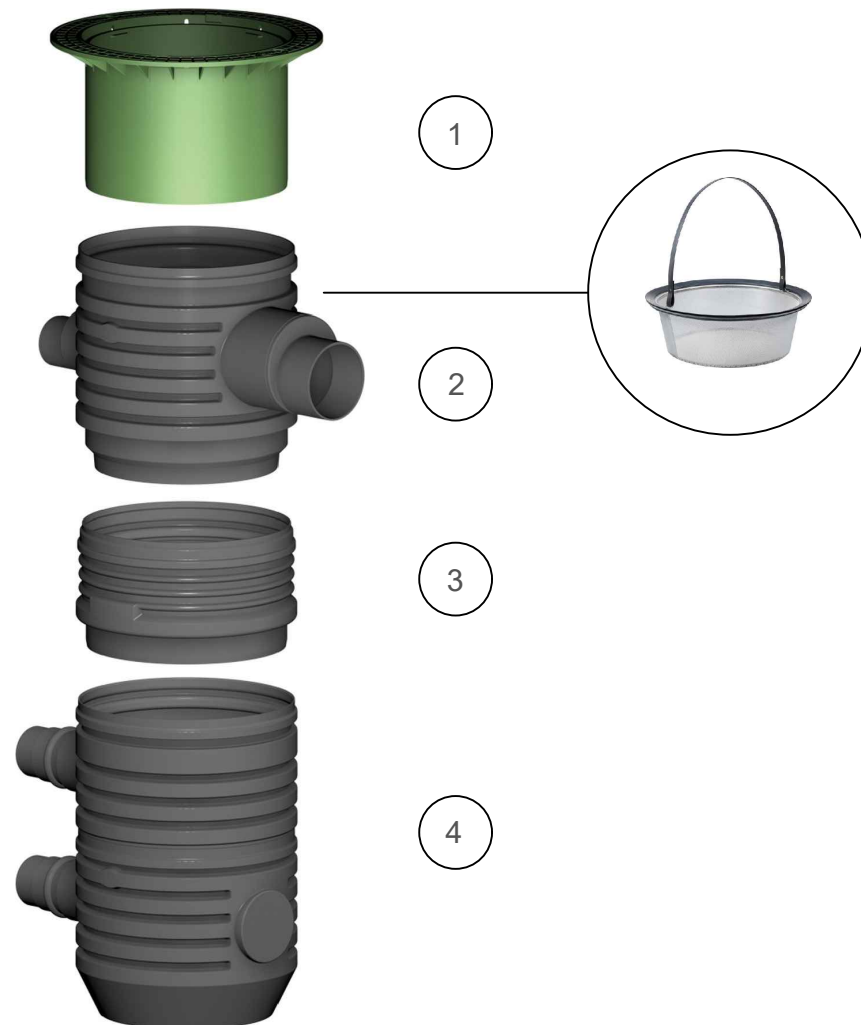
Contact GRAF for sizing and support.

Please visit www.grafaustralia.com.au for the full range of treatment chambers

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.

Product name:	External Filter pot	Drainstar External Filter	Infiltration Filter Shaft XL	Sedimentation Filter Shaft	Universal Filter 3 XL External	Universal Filter 3 - Overflow
Product code:	340003	340143 - Pedestrian 340144 - Vehicle	340141	340026 - Pedestrian 340027 - Vehicle	340050 - Pedestrian 340051/340095 Vehicle	340020 - Pedestrian 340021 - Vehicle
Load Rating:	Pedestrian	Pedestrian Class B	Pedestrian Class B	Pedestrian Class B	Pedestrian Class B, Class D	Pedestrian Class B
Product Diameter (mm):	500	400	600	600	600	400
Connection diameter(mm):	Roof down pipe connection	DN 110/160	DN 160/200	DN 160	DN 160/200	DN 110/160
Flow rates (l/s):	5.5 l/s	16 l/s - 20 l/s	16 l/s - 29.5 l/s	16 l/s	16 l/s - 29.5 l/s	5.5 l/s - 16 l/s

EXTERNAL FILTER SHAFT



1. Telescopic dome shaft , 400mm and 600mm diameter available
2. Inlet module with optional filter basket
3. Shaft extension piece 300mm or 1000mm available
4. Distributor Module

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PROJECT
GRAF STANDARD DETAILS

DESCRIPTION
**INFILTRATION TANK WITH
PRE-TREATMENT
GRAF ECOBLOC SMART**

DRAWING No.	DWG-479	REV.	1 (Pg.3)
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