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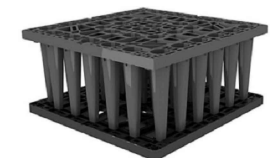
Notice: This drawing is issued only as a guideline and is an estimate of the materials required to construct the drainage system, it should not be used for construction purposes.

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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 MAXX



	Ecobloc	Baseplate
Dimensions (mm)	800 x 800 x 350	800 x 800 x 40
Gross Volume (m3)	0.225m³	0.025m³
Net Volume (m3)	0.217m³	0.020m³
Material	Polypropylene	Polypropylene
Weight	9kg	4kg
Void Ratio	>96% depending on number of layers	
Inspectable	Yes, when combined with EcoBloc Flex	
Conform to load requirements of AS5100		

2	LATEST REVISION	MV	04.01.2022
1	LATEST REVISION	MV	02.11.2021
REV.	DESCRIPTION	BY	DATE



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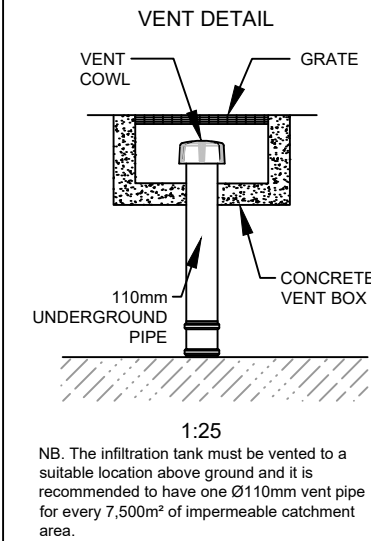
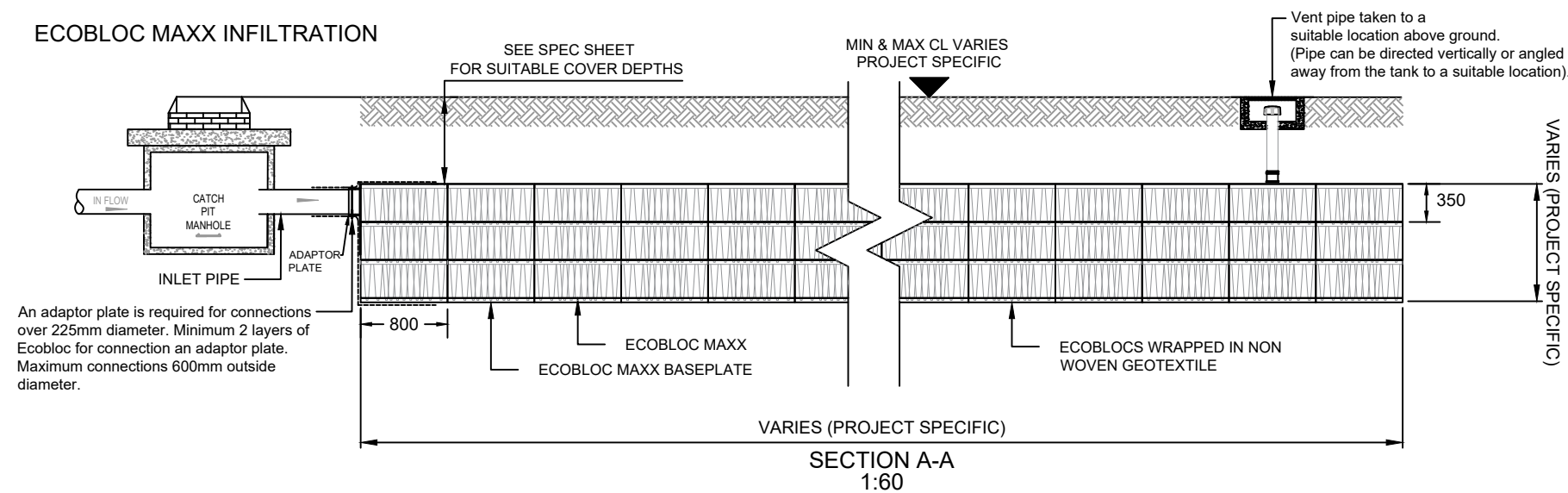
DRAWN :	MV	DATE :	04.01.2022
CHECKED :	LB	SCALE :	VARIOUS@A3

PROJECT	GRAF STANDARD DETAILS
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DESCRIPTION	INFILTRATION TANK using GRAF ECOBLOC MAXX
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DRAWING No.	DWG-344	REV.	2
			(Pg.1)

ECOBLOC MAXX INFILTRATION



Denotes size of excavation at the base to allow for 500mm around the tank.

Dimensions for top of the excavation will be dependant on the depth of the excavation. Sides of excavation to be at a safe batter (or stepped) .

VIEW PLAN
1:60

NOTE: EXCAVATION TO EXCEED TANK SIZE BY 500MM ON ALL SIDES TO ALLOW FOR ACCESS

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 30°-35° *
MAX. BULK UNIT WEIGHT 20kN/m³

ANGLE TO SUIT SAFE EXCAVATION OR SURROUNDING GROUND AND DEPTH

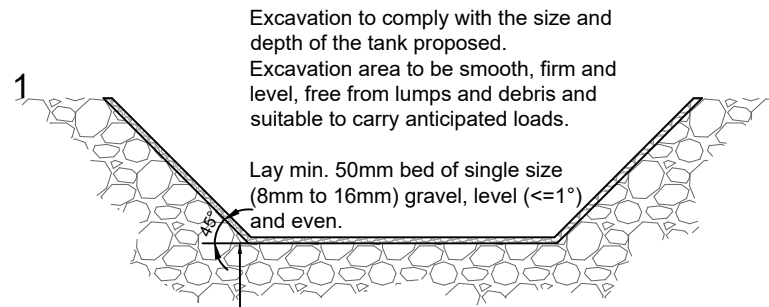
BASE LAYER TO BE 8 TO 16mm SINGLE SIZED NON-ANGULAR STONE MIN DEPTH 50mm

SECTION B-B
1:75

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.

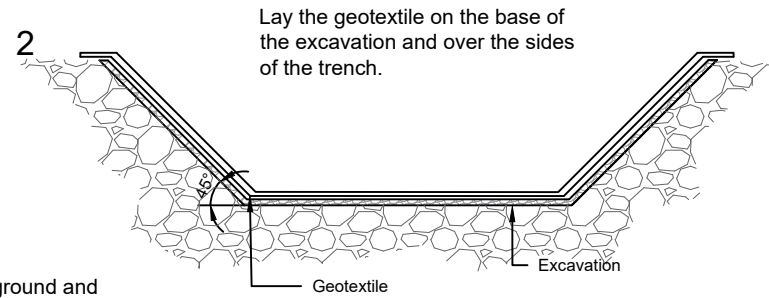
* These values depends on installation conditions. Please, contact GRAF Technical team for more details.



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 ($\leq 1^\circ$) 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.

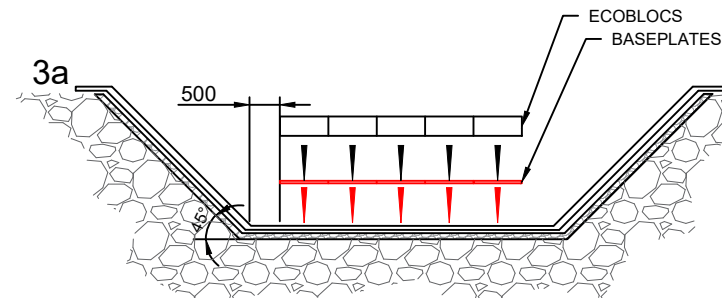
Geotextile

Excavation

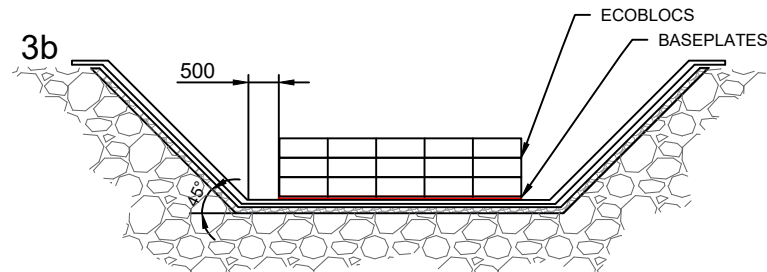


Geotextile:
150g/m² Non-woven

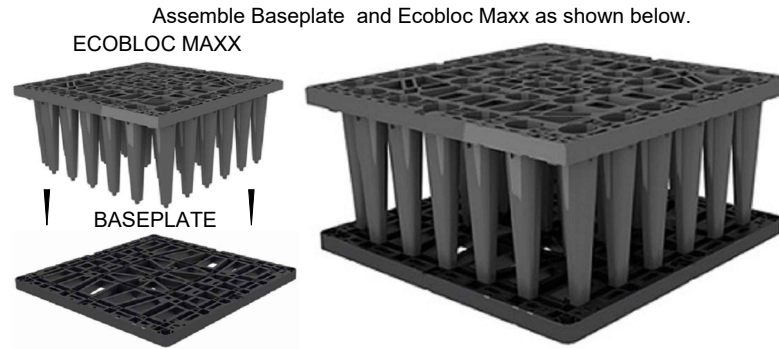
Geotextiles with characteristics less than those specified are unlikely to be suitable and are therefore not recommended for use with Graf Australia systems for this application



Place the Baseplates on the geotextile followed by the second layer of Ecoblocs securing them with connectors.



After all layers of Ecoblocs are placed and secured, install the End Plates. Endplates are clipped to the tank.

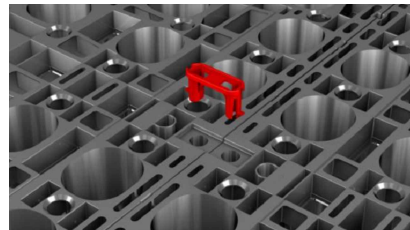


Assemble Baseplate and Ecobloc Maxx as shown below.

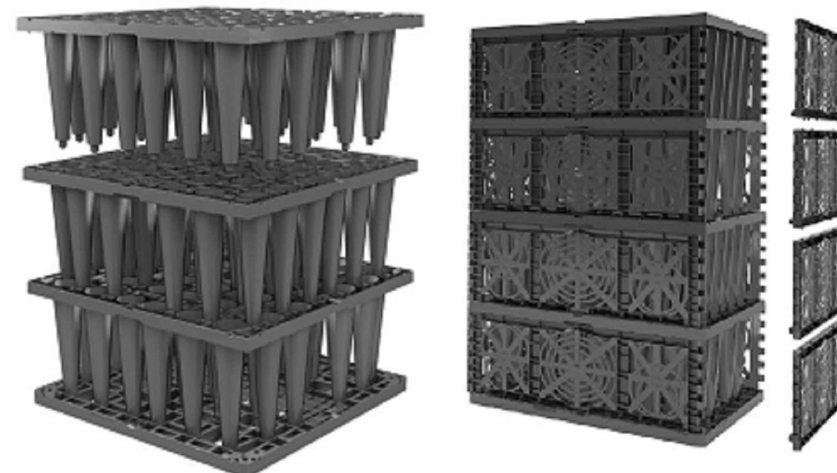
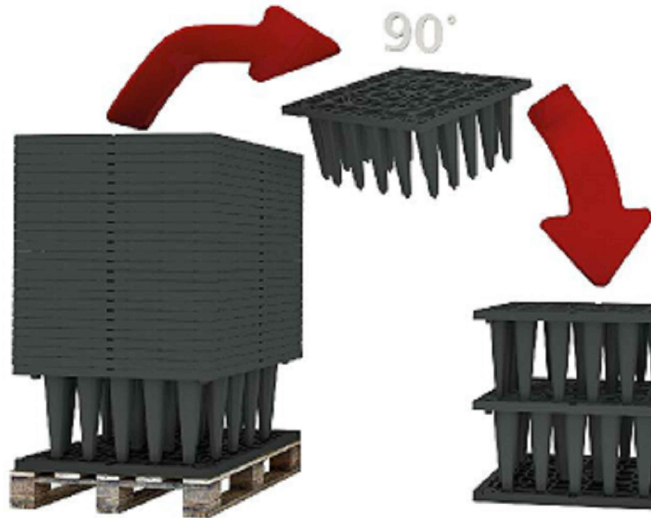
ECOBLOC MAXX

BASEPLATE

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



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INSTALLATION METHOD:

- 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).
 - Mark out the position of the tank including inlets.
 - 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°.
- Lay the geotextile over the base the excavation, overlapping any joins by a minimum of 300mm.
 - The geotextile used must meet the specification stated on the drawing.
- Place EcoBloc Maxx Baseplates on top of the geotextile until the bottom of the tank is completed. Clip Baseplates together using the connectors.
 - Place Ecoblocs Maxx on the Baseplates clipping each adjacent bloc using the connectors. Ecoblocs will only fit in the correct orientation. Push down firmly to ensure the Ecobloc is located correctly.
 - Install the next layer of Ecoblocs on top of the first layer until all layers are completed. Ensure the Ecoblocs are secured with connectors.
 - 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.
- Fix adaptor plates to the sides of the blocs in the required position for the inlet and if required.
 - Cut a hole in the geotextile for inlet connections.
 - Pull geotextile up around the sides and fully wrap the blocs, securing the top in place.
 - Install vent pipe connection into the top of the tank at a suitable location.
 - Backfill around the tank in 300mm layers increments using non-cohesive, compressible loose rock (gravel, crushed rock, sand, etc).
 - 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	04.01.2022
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1	LATEST REVISION	MV	02.11.2021
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REV.	DESCRIPTION	BY	DATE
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PROJECT
GRAF STANDARD DETAILS

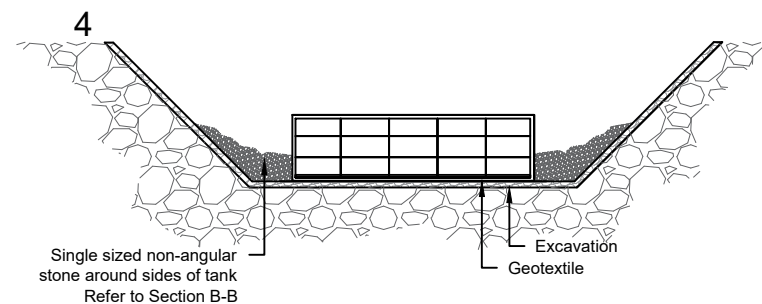
DESCRIPTION
**INFILTRATION TANK
using GRAF ECOBLOC MAXX**

DRAWING No.	DWG-344	REV.	2 (Pg.2)
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Infiltration Tank without Vario Shaft



Finally, wrap the blocs with the geotextile.



Single sized non-angular stone around sides of tank
Refer to Section B-B

Excavation
Geotextile