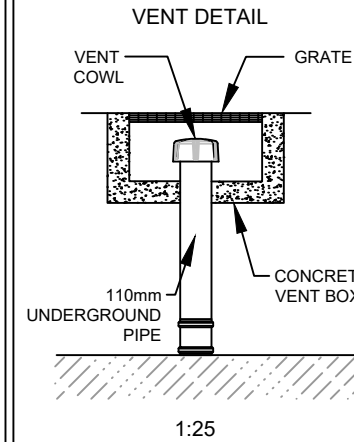
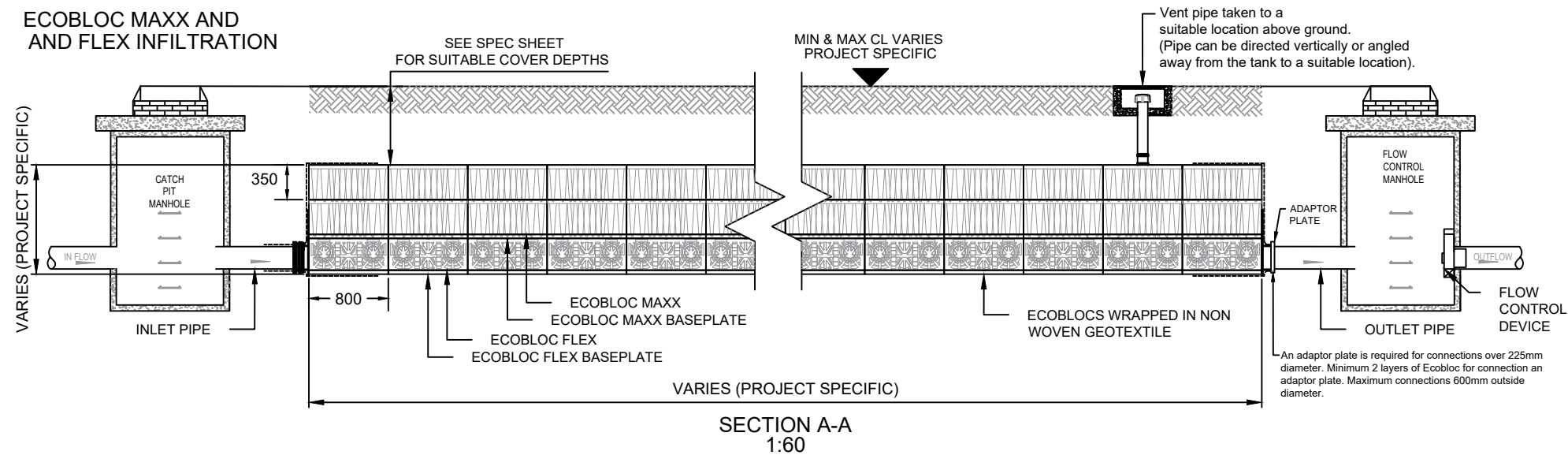


ECOBLOC MAXX AND AND FLEX INFILTRATION



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

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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

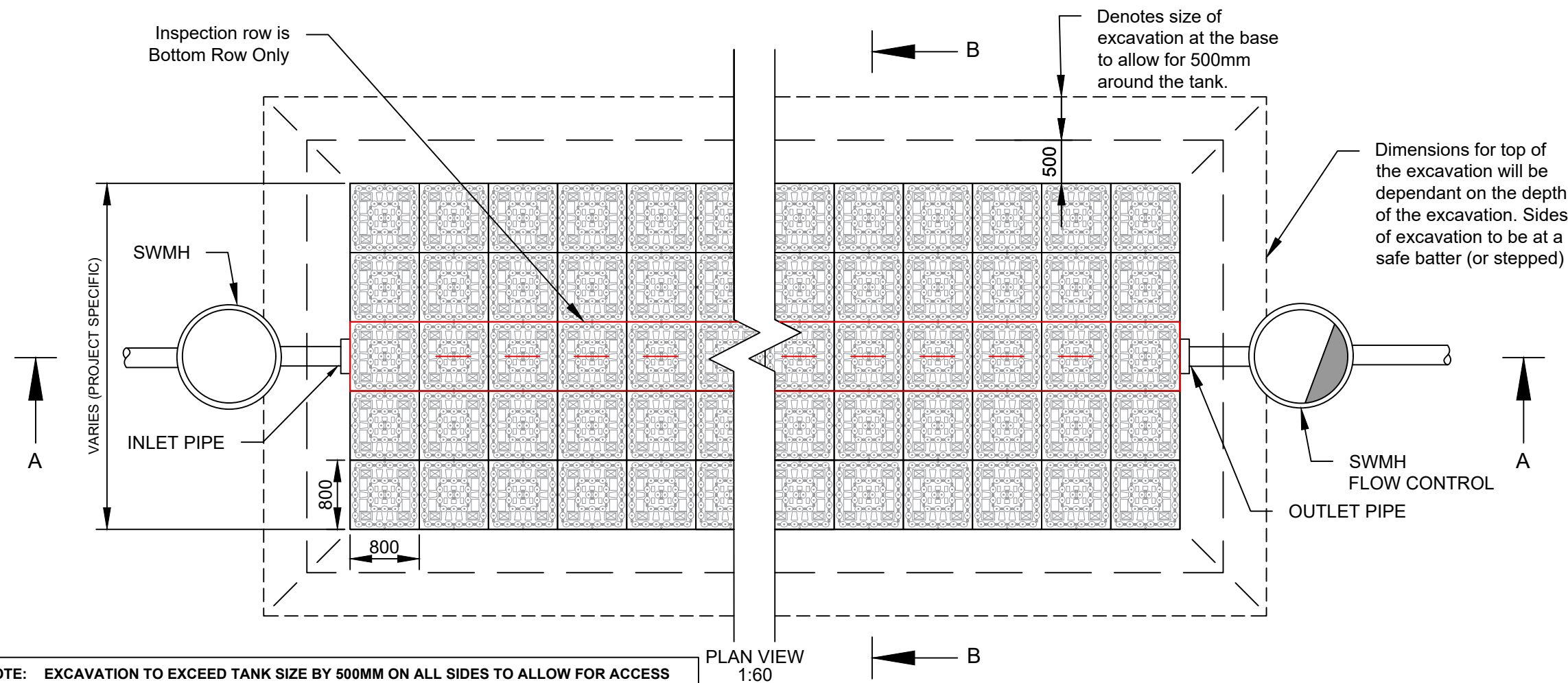
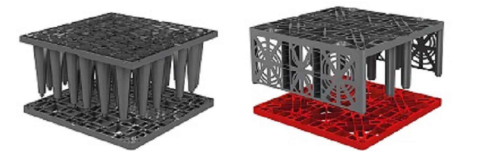
	Ecobloc	Baseplate
Dimensions (mm)	800 x 800 x 350	800 x 800 x 40
Gross Volume (m3)	0.225m ³	0.025m ³
Net Volume (m3)	0.217m ³	0.020m ³
Material	Polypropylene	Polypropylene
Weight	9kg	4kg
Void Ratio	>96% depending on number of layers	
Inspectable	Yes, when combined with EcoBloc Flex	

ECOBLOC FLEX

	Ecobloc	Baseplate
Dimensions (mm)	800 x 800 x 320	800 x 800 x 40
Gross Volume (m3)	0.205m ³	0.025m ³
Net Volume (m3)	0.195m ³	0.020m ³
Material	Polypropylene	Polypropylene
Weight	8kg	4kg
Void Ratio	>96% depending on number of layers	
Inspectable	Yes	

MAXX AND FLEX COMBINATION

Conform to load requirements of AS5100



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

45°

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.

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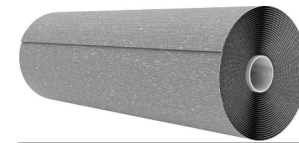
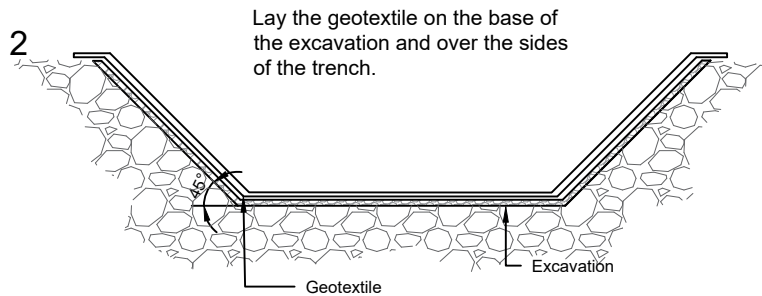
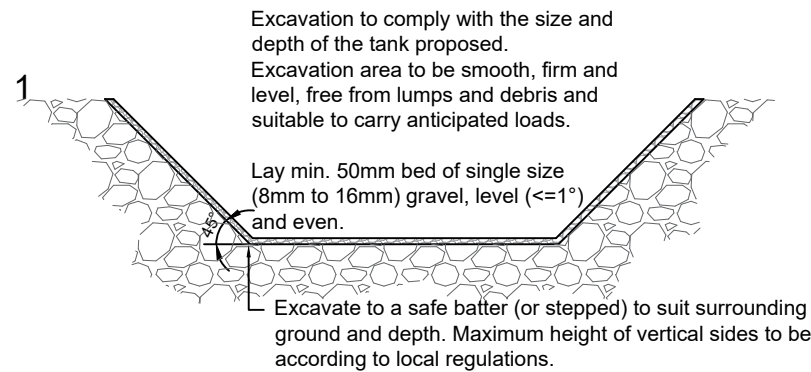
www.grafaustalia.com.au

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

PROJECT
GRAF STANDARD DETAILS

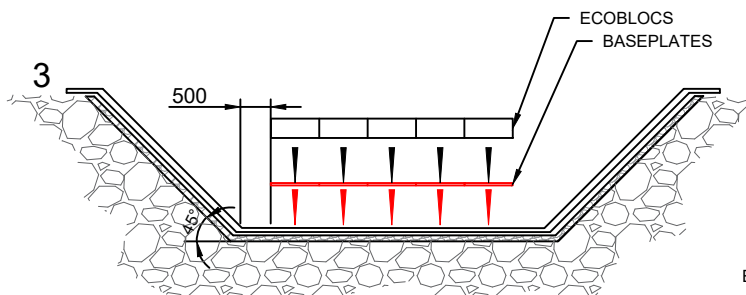
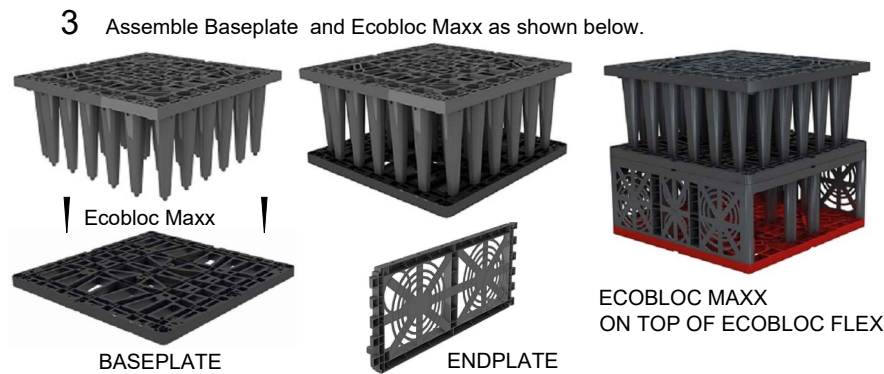
DESCRIPTION
**INFILTRATION TANK
using GRAF ECOBLOC
MAXX AND FLEX**

DRAWING No. **DWG-346** REV. **2**
(Pg.1)



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 layer and lock them together using the connectors. Place the first layer of Ecoblocs on top of the baseplates and lock them together using the connectors. After all layers of Ecoblocs are placed and secure, install the End Plates. Endplates are clipped to the tank where it is required.

Mix of Ecobloc Maxx and Flex to be constructed as labeled below, according to inspection row

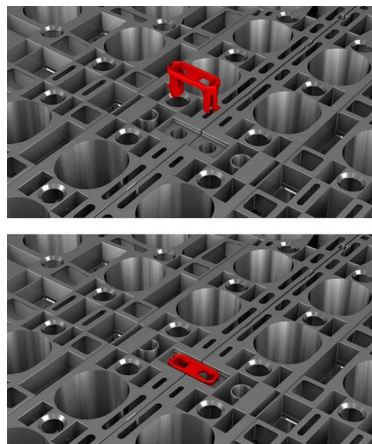
MAXX	MAXX	MAXX	MAXX	MAXX
MAXX	MAXX	MAXX	MAXX	MAXX
MAXX	MAXX	FLEX	MAXX	MAXX

ECOBLOC MAXX BASEPLATE

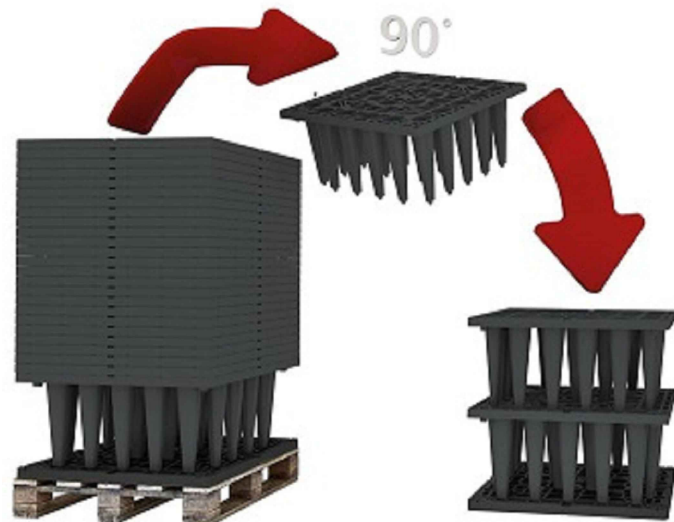
ECOBLOC MAXX
ECOBLOC MAXX BASEPLATE

ECOBLOC FLEX
ECOBLOC FLEX BASEPLATE

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



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



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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 to 16mm) as a base for the tank. This can be laid to a maximum fall of 1°.
- 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.
- a) Place EcoBloc Flex Baseplates and EcoBloc Maxx Baseplates on top of the inner geotextile according to inspection orientation and design of the tank until the bottom of the tank is completed. Clip Baseplates together using the connectors.
b) Place Ecoblocs Flex and Maxx on the respective Baseplates clipping each adjacent bloc using the connectors. Ecoblocs will only fit in the correct orientation considering the inspection orientation. Push down firmly to ensure the Ecobloc is located correctly.
c) Install the next layer of Ecoblocs on top of the first layer until all the layers are completed. Ensure the Ecobloc has the correct direction and ensure each bloc is secure with connectors. NOTE: You will need to place an additional row of Ecobloc Maxx Baseplates directly on top of the EcoBloc Flex **only**. No more base plates are required.
d) 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.
- 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.

2	LATEST REVISION	MV	04.01.2022
1	LATEST REVISION	MV	06.12.2021
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 AND FLEX
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DRAWING No.	DWG-346	REV.	2 (Pg.2)
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Finally, wrap the blocs with the geotextile.

