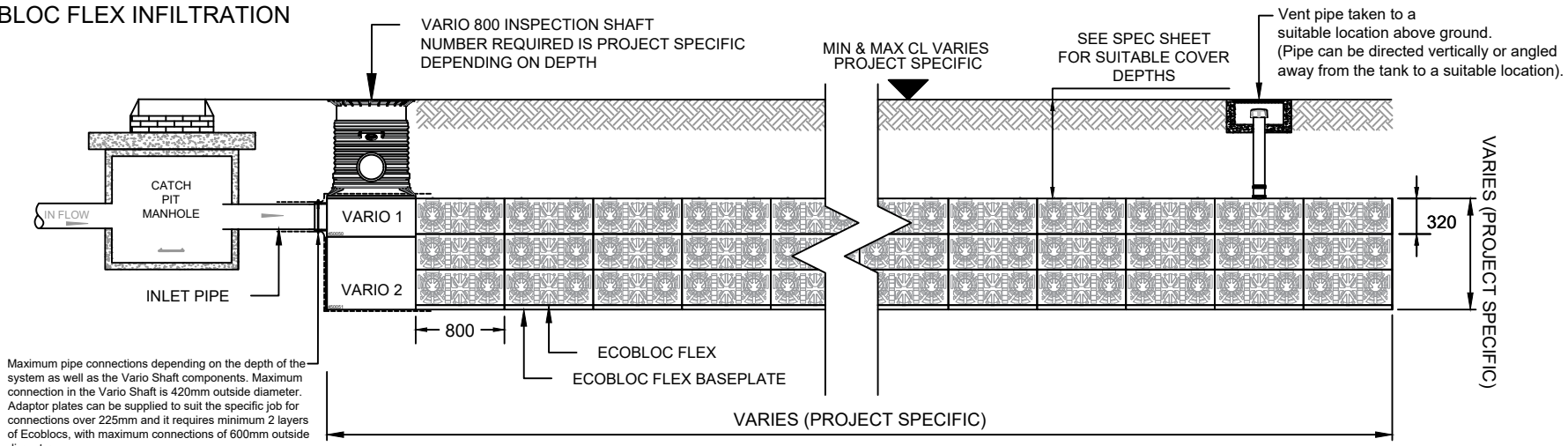
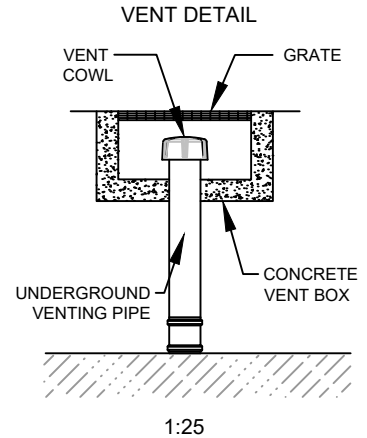


ECOBLOC FLEX INFILTRATION



Maximum pipe connections depending on the depth of the system as well as the Vario Shaft components. Maximum connection in the Vario Shaft is 420mm outside diameter. Adaptor plates can be supplied to suit the specific job for connections over 225mm and it requires minimum 2 layers of Ecoblocs, with maximum connections of 600mm outside diameter.

SECTION A-A
1:60



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

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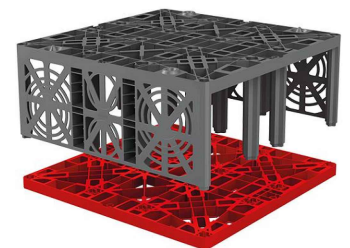
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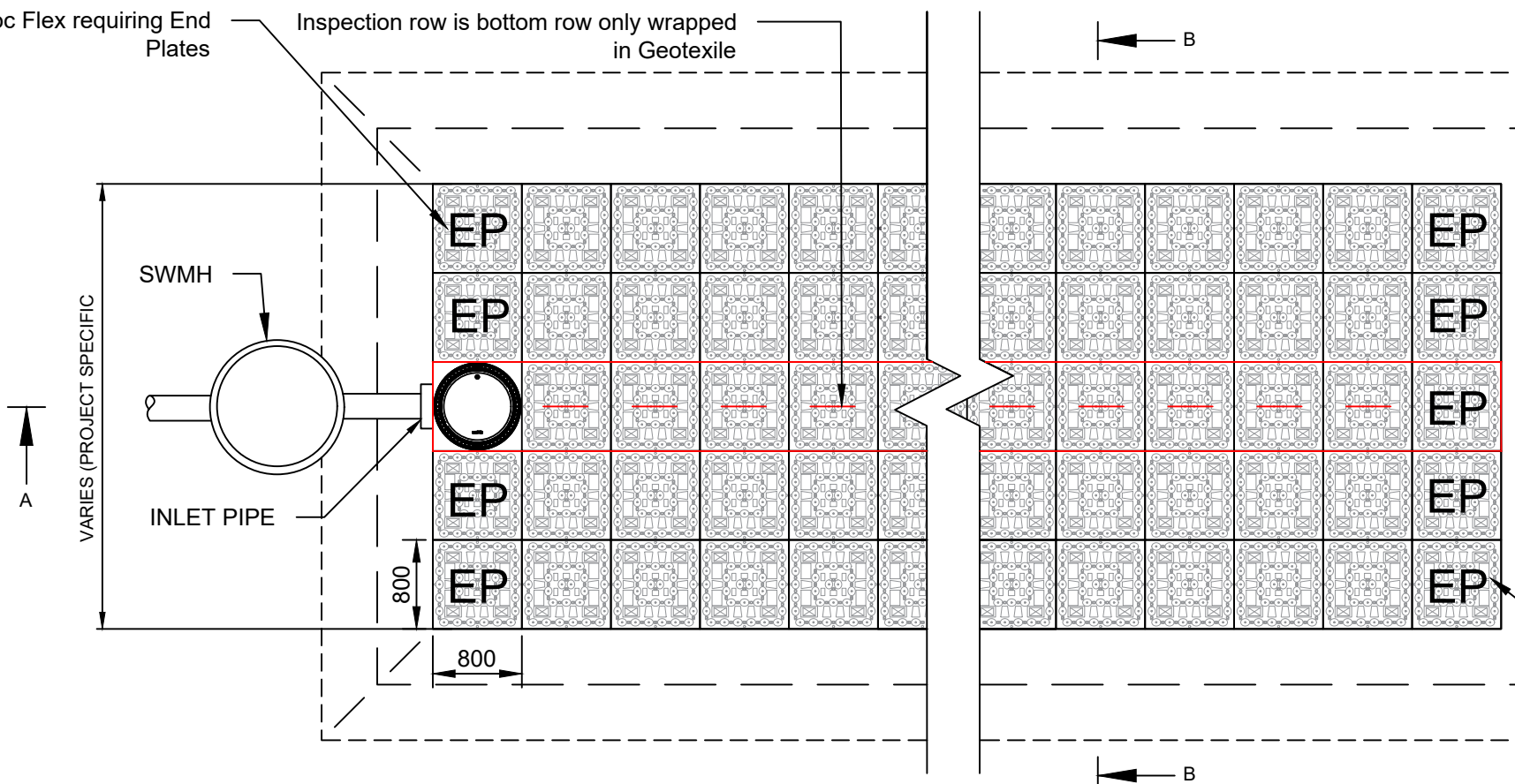
ECOBLOC FLEX



	Ecobloc	Baseplate
Dimensions (mm)	800 x 800 x 320	800 x 800 x 40
Gross Volume (m3)	0.205m³	0.025m³
Net Volume (m3)	0.195m³	0.020m³
Material	Polypropylene	Polypropylene
Weight	8kg	4kg
Void Ratio	>96% depending on number of layers	
Inspectable	Yes	
Comply to load requirements of AS5100		

Ecobloc Flex requiring End Plates

Inspection row is bottom row only wrapped in Geotextile



PLAN VIEW
1:60

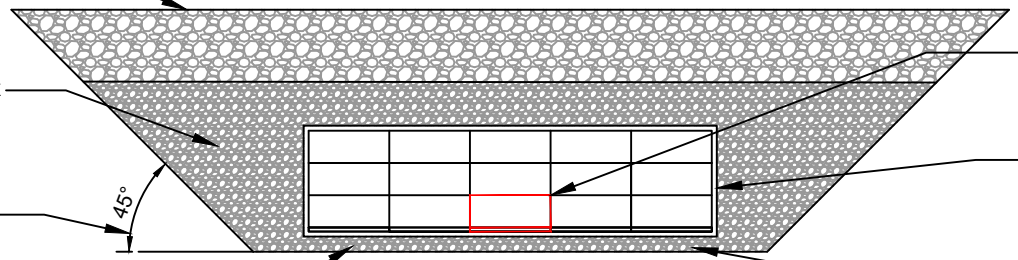
NOTE: EXCAVATION TO EXCEED TANK SIZE BY 500MM ON ALL SIDES TO ALLOW FOR ACCESS

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

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

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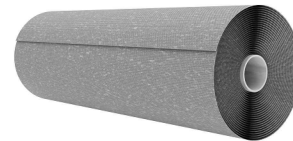
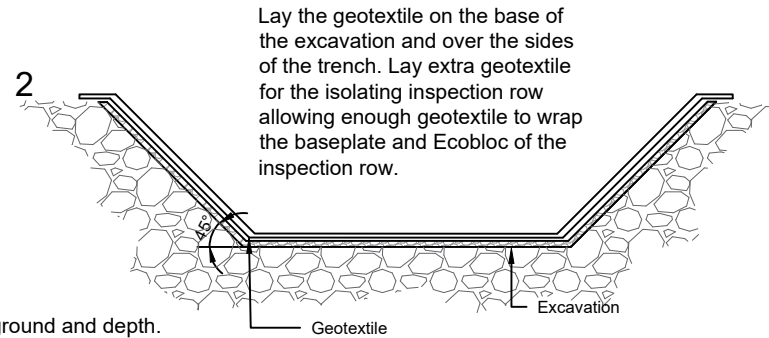
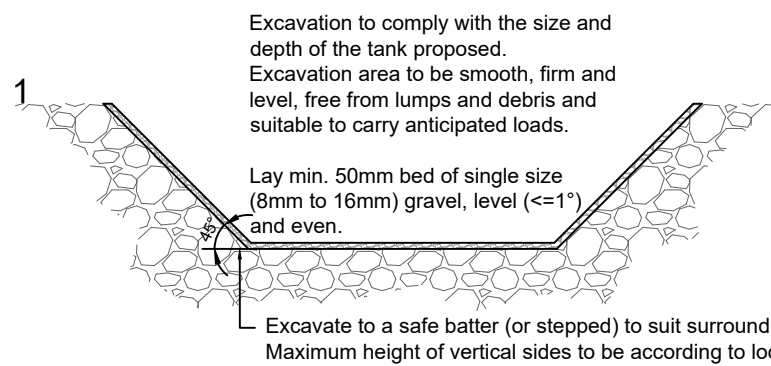
PROJECT

GRAF STANDARD DETAILS

DESCRIPTION

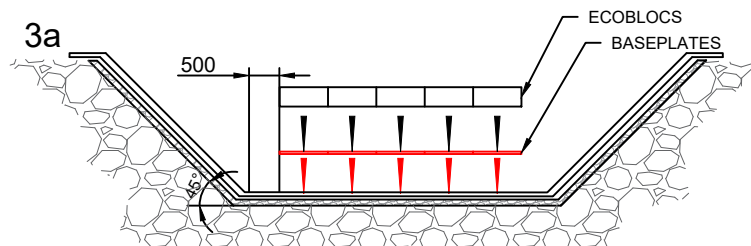
INFILTRATION TANK
using GRAF ECOBLOC FLEX WITH
ISOLATING LAYER & VARIO SHAFT

DRAWING No.	DWG-349	REV.	2
		(Pg.1)	

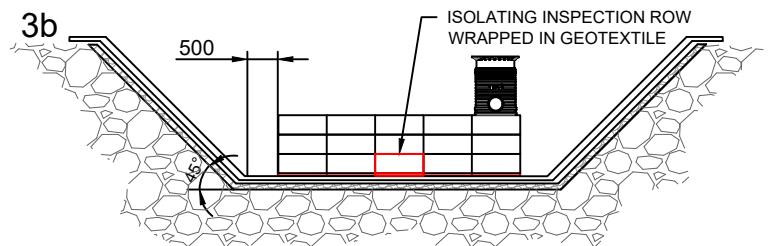


Geotextile:
150g/m² Non-woven

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

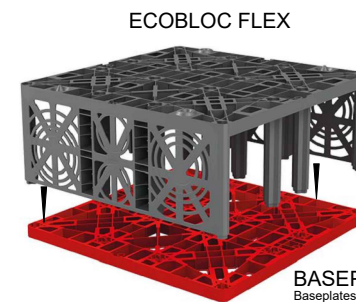


Place the isolating geotextile on top of the outer layer of geotextile followed by Baseplates and Ecoblocs of the inspection row. Wrapped the isolating row and start to build the rest of the tank placing the Baseplates on the geotextile securing them with connectors. Add the first layer of Ecoblocs clipping them with connectors, including adjacent Ecoblocs of the inspection row. Make sure the Vario shaft is the correct position for inspection.

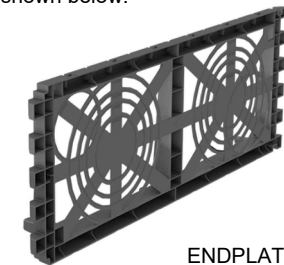


After wrapping the isolating inspection row and placing all layers of Ecoblocs and the Vario shaft, make sure all items are secured. Install End Plates where required clipping them to the tank.

Assemble EcoBloc Flex and Baseplate as shown below.

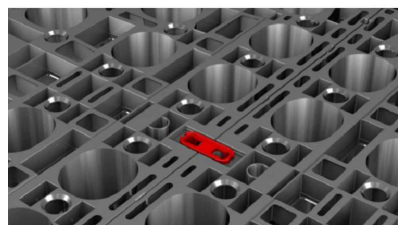
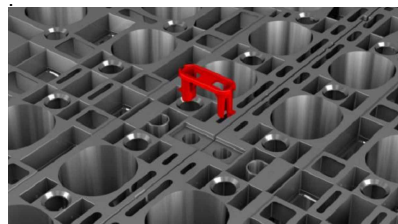


BASEPLATE
Baseplates are Red for illustration purposes only and are Grey in colour

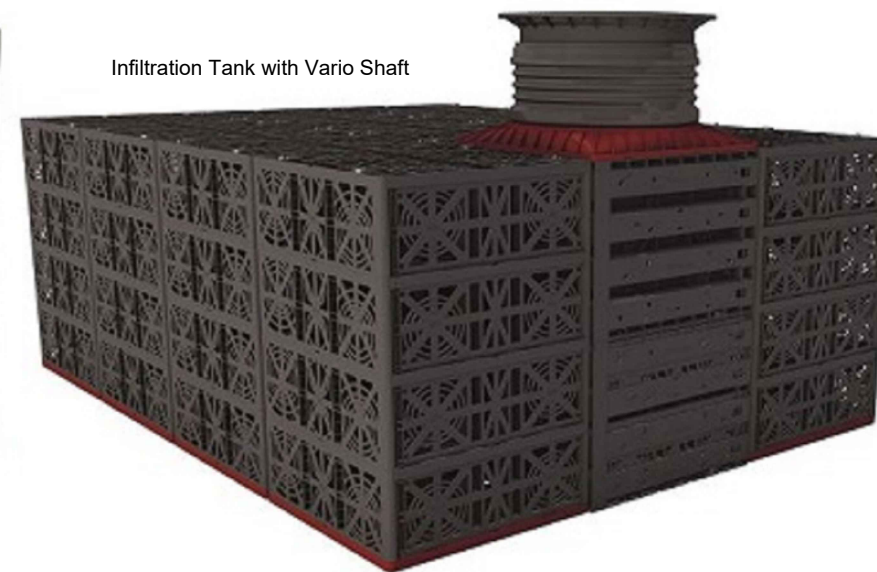


ENDPLATE

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



Infiltration Tank with Vario Shaft

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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.
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. Lay extra geotextile for the isolating inspection, minimum 2500mm in width to make sure it will have enough geotextile to wrap the inspection row.
b) The geotextile used must meet the specification stated on the drawing.
- a) Place EcoBloc Flex Baseplates on top of the geotextile according to inspection orientation until the bottom of the tank is completed. Check position of vario shaft before placing Baseplates. Clip Baseplates together using the connectors.
b) Place Ecoblocs Flex on the 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) Place Vario shaft in the correct location for inspection while building the tank.
d) Install the next layer of Ecoblocs on top of the first layer until all the layers are completed. Ensure Ecoblocs have the correct direction and are secured with connectors.
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.
- 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	04.01.2022
1	LATEST REVISION	MV	02.11.2021
REV.	DESCRIPTION	BY	DATE

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PROJECT	GRAF STANDARD DETAILS
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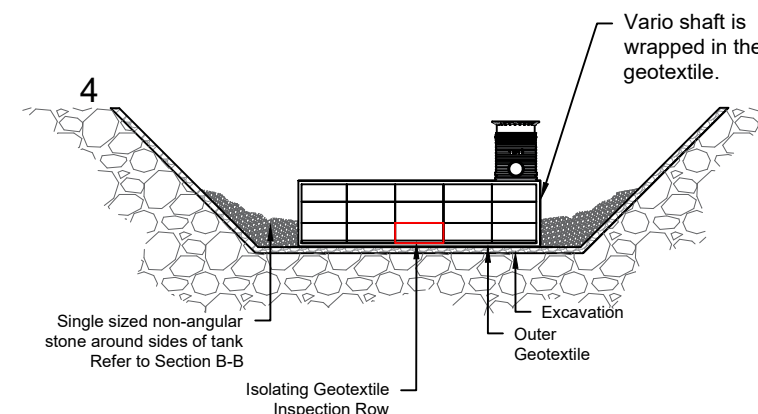
DESCRIPTION	INFILTRATION TANK using GRAF ECOBLOC FLEX WITH ISOLATING LAYER & VARIO SHAFT
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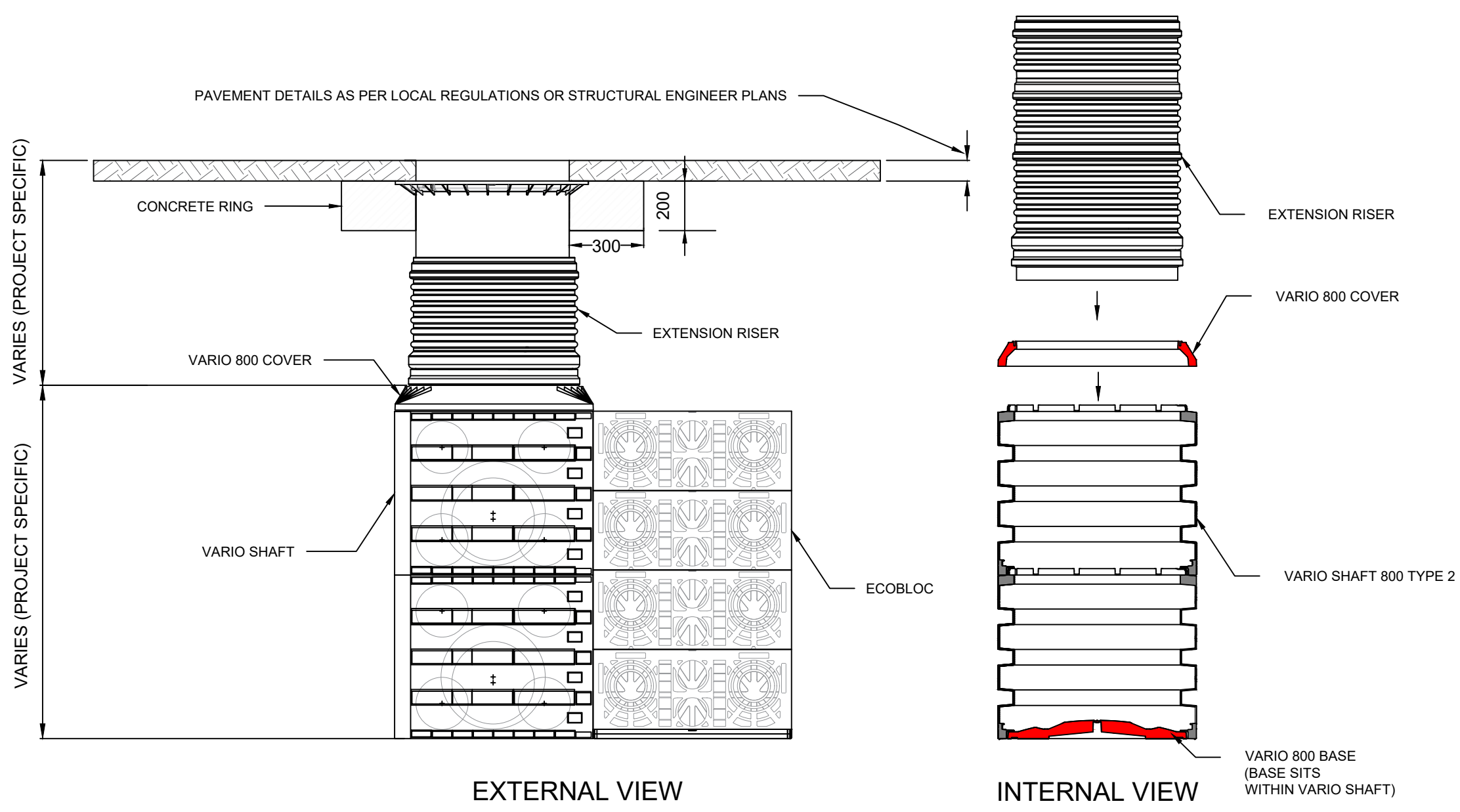
DRAWING No.	DWG-349	REV.	2 (Pg.2)
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Infiltration Tank with Vario Shaft



Finally, wrap the blocs with the geotextile.





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VARIO 800 TYPE 1

Dimensions (mm) 800 x 800 x 355
Weight 14kg
Volume 230 (litres)

VARIO 800 TYPE 2

Dimensions (mm) 800 x 800 x 660
Weight 24kg
Volume 420 (litres)

VARIO 800 BASE/COVER SET

Dimensions (mm) 800 x 800 x 100
Weight 11kg

2	LATEST REVISION	MV	04.01.2022
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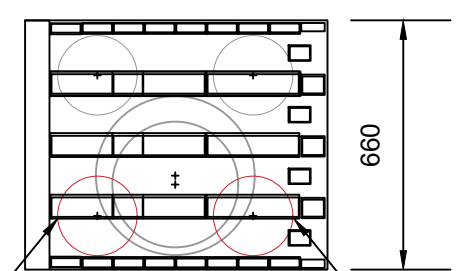
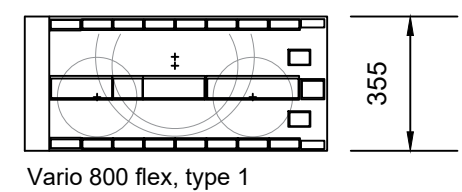
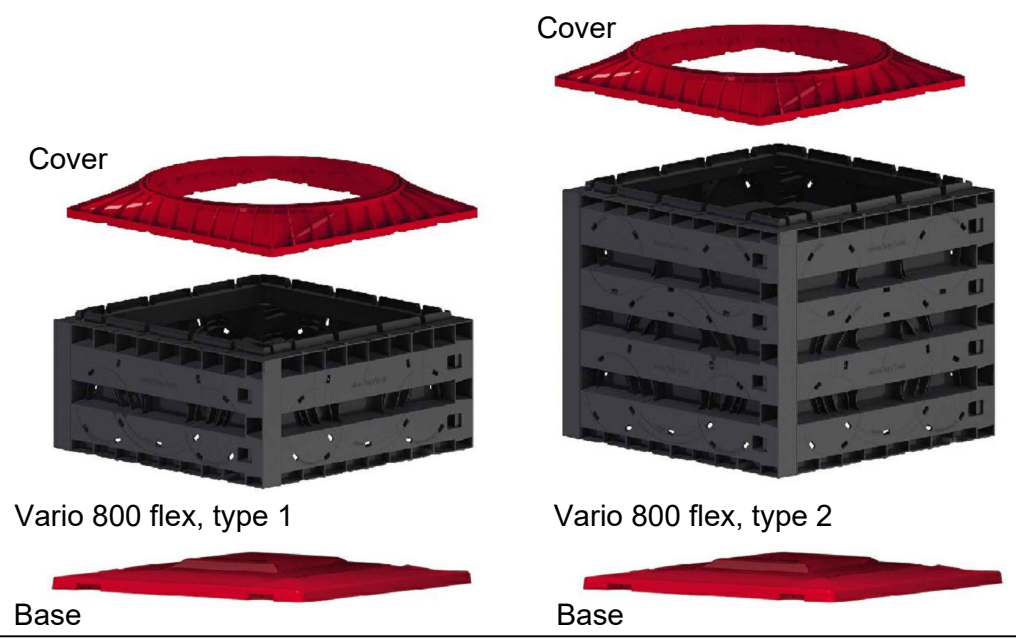
PROJECT

GRAF STANDARD DETAILS

DESCRIPTION

**INFILTRATION TANK
using GRAF ECOBLOC FLEX WITH
ISOLATING LAYER & VARIO SHAFT**

DRAWING No.	DWG-349	REV.	2 (Pg.3)
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Drill both marks towards the Ecobloc to access the tank for inspection



Vario 800 are modular and are easily assembled in a push fit manner.