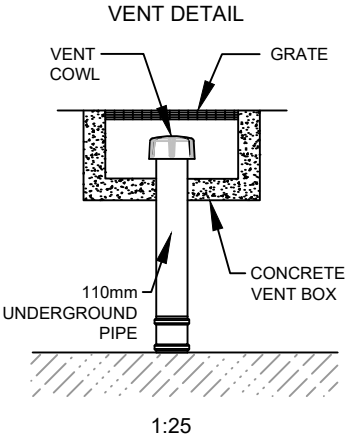
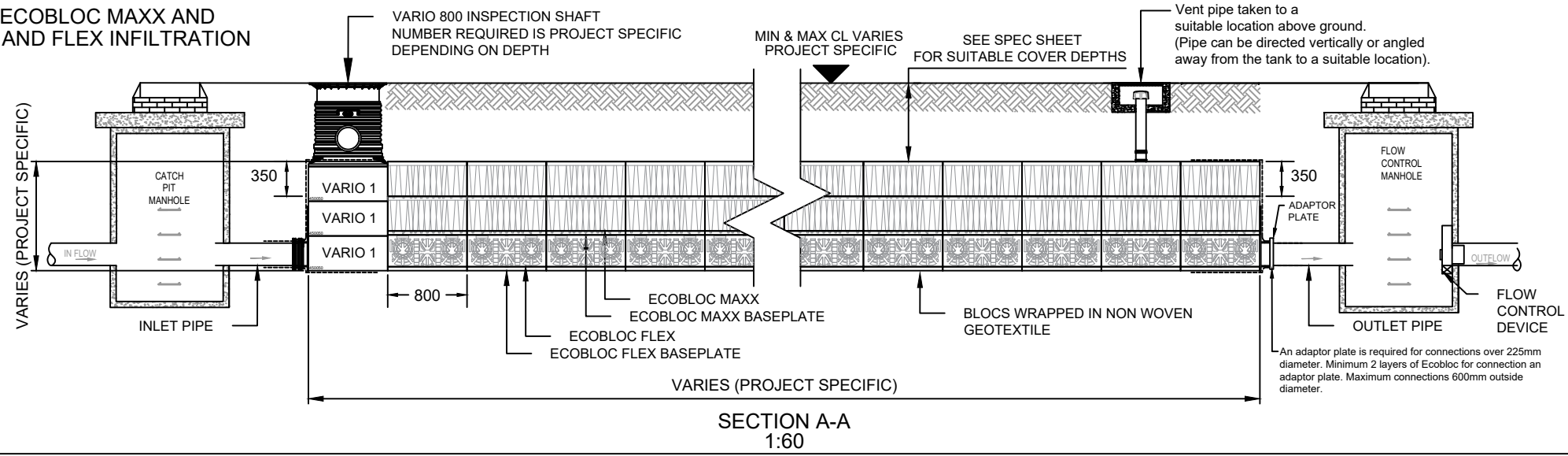


ECOBLOC MAXX AND  
AND FLEX INFILTRATION



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ECOBLOC MAXX

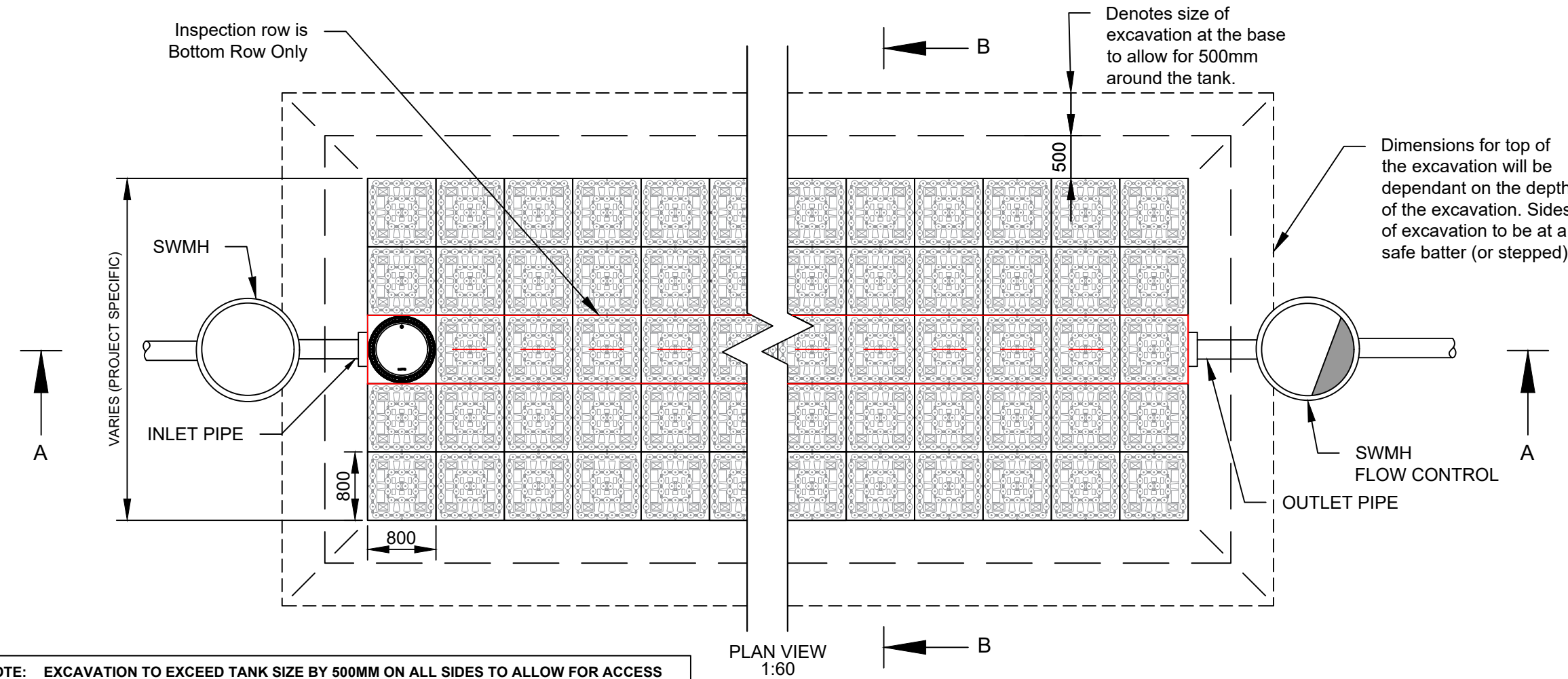
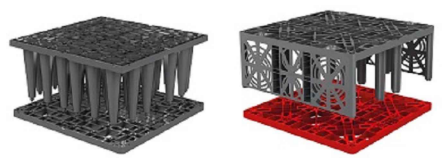
|                   | Crate                                | Baseplate           |
|-------------------|--------------------------------------|---------------------|
| Dimensions (mm)   | 800 x 800 x 350                      | 800 x 800 x 40      |
| Gross Volume (m3) | 0.225m <sup>3</sup>          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

ECOBLOC FLEX

|                   | Crate                              | Baseplate           |
|-------------------|------------------------------------|---------------------|
| Dimensions (mm)   | 800 x 800 x 320                    | 800 x 800 x 40      |
| Gross Volume (m3) | 0.205m <sup>3</sup>                | 0.025m <sup>3</sup> |
| Net Volume (m3)   | 0.195m <sup>3</sup>                | 0.020m <sup>3</sup> |
| 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



**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/m<sup>3</sup>

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.

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

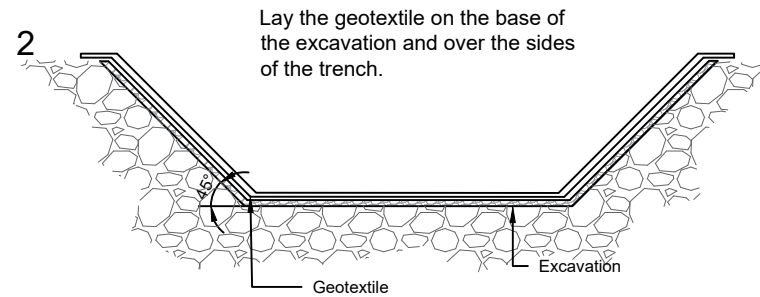
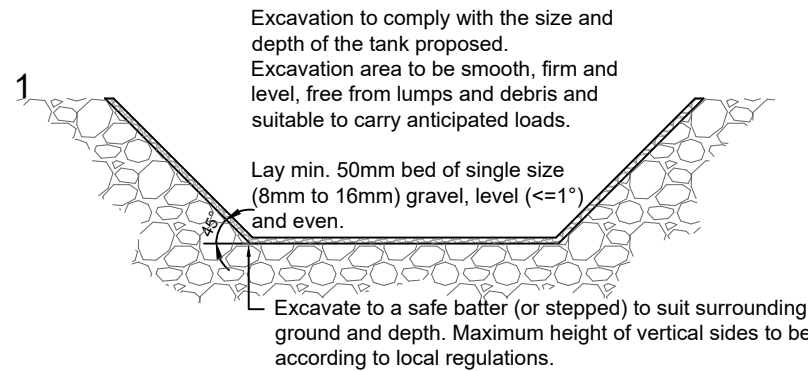
PROJECT

**GRAF STANDARD DETAILS**

DESCRIPTION

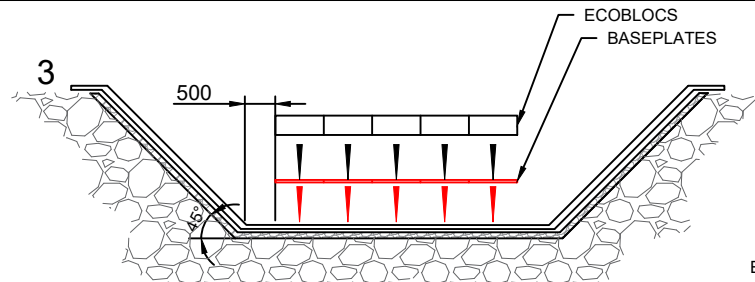
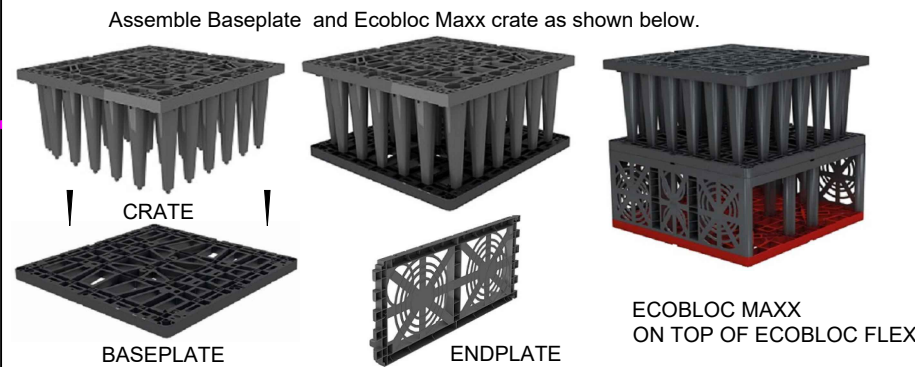
**INFILTRATION TANK  
using GRAF ECOBLOC  
MAXX AND FLEX & VARIO SHAFT**

|             |                |      |                    |
|-------------|----------------|------|--------------------|
| DRAWING No. | <b>DWG-348</b> | REV. | <b>2</b><br>(Pg.1) |
|-------------|----------------|------|--------------------|



Geotextile:  
150g/m<sup>2</sup> 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 inner 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

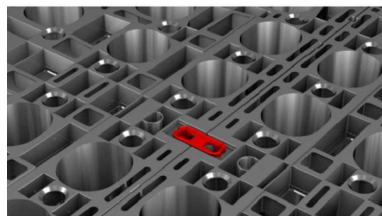
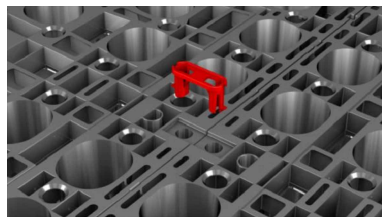
ECOBLOC MAXX

ECOBLOC MAXX BASEPLATE

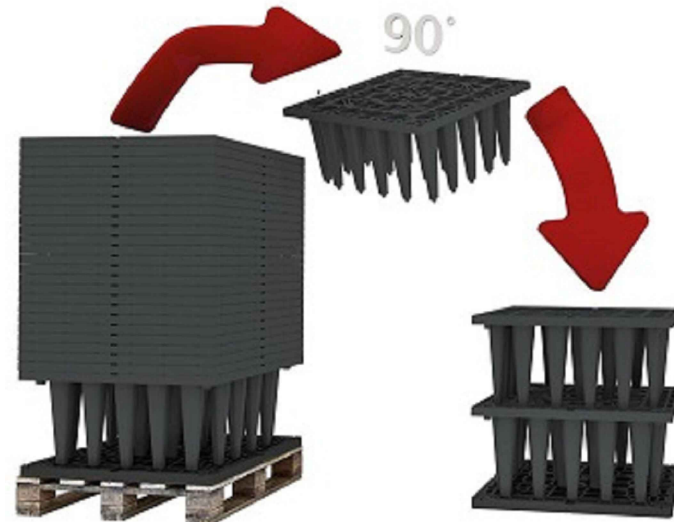
ECOBLOC FLEX

ECOBLOC FLEX BASEPLATE

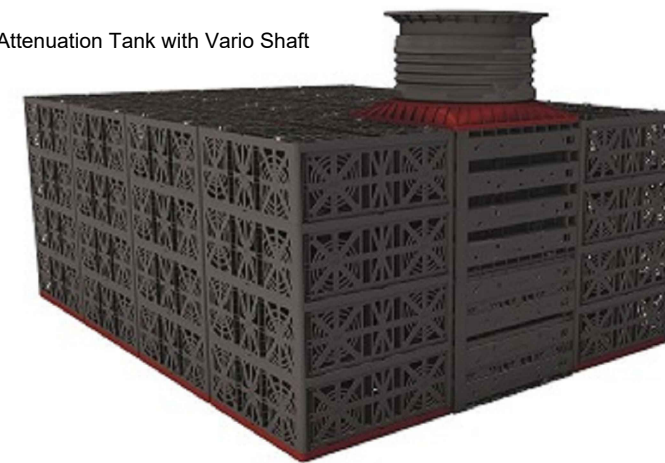
Place the one layer of Ecoblocs on top of the previously placed layer of Baseplates ensuring the connector clips are clipped locking the Ecoblocs together.



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



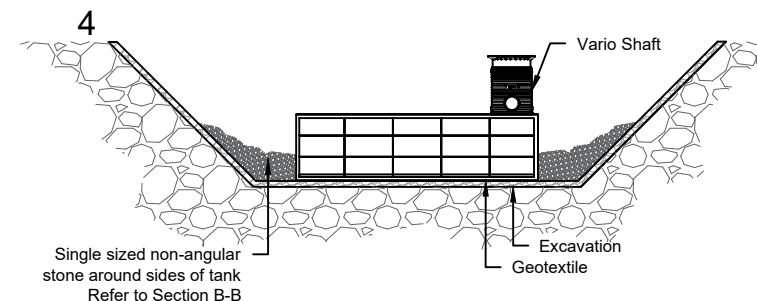
Attenuation Tank with Vario Shaft



Infiltration Tank with Vario Shaft



Add the Vario Shaft in the correct position for inspection and make sure all parts are secure. Finally, wrap the blocs with the geotextile.



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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  $1^\circ$ .
- 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 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.
  - 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.
  - Place Vario shaft in the correct location for inspection while building the tank.
  - 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.
  - 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.

|      |                 |    |            |
|------|-----------------|----|------------|
| 2    | LATEST REVISION | MV | 04.01.2022 |
| 1    | LATEST REVISION | MV | 16.12.2021 |
| REV. | DESCRIPTION     | BY | DATE       |

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

|         |                       |
|---------|-----------------------|
| PROJECT | GRAF STANDARD DETAILS |
|---------|-----------------------|

|             |                                                                        |
|-------------|------------------------------------------------------------------------|
| DESCRIPTION | INFILTRATION TANK<br>using GRAF ECOBLOC<br>MAXX AND FLEX & VARIO SHAFT |
|-------------|------------------------------------------------------------------------|

|             |         |      |        |
|-------------|---------|------|--------|
| DRAWING No. | DWG-348 | REV. | 2      |
|             |         |      | (Pg.2) |

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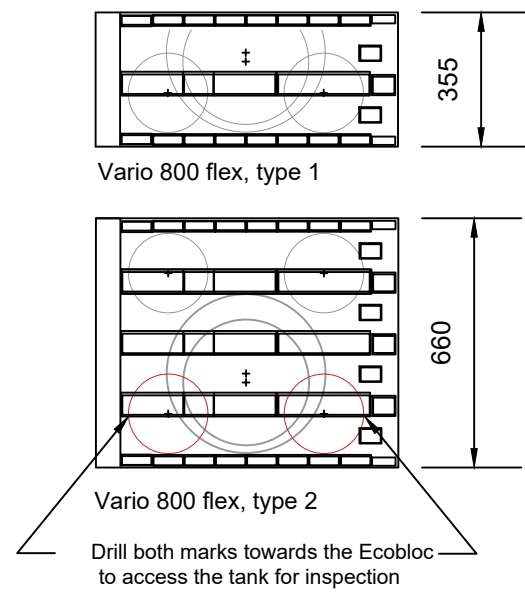
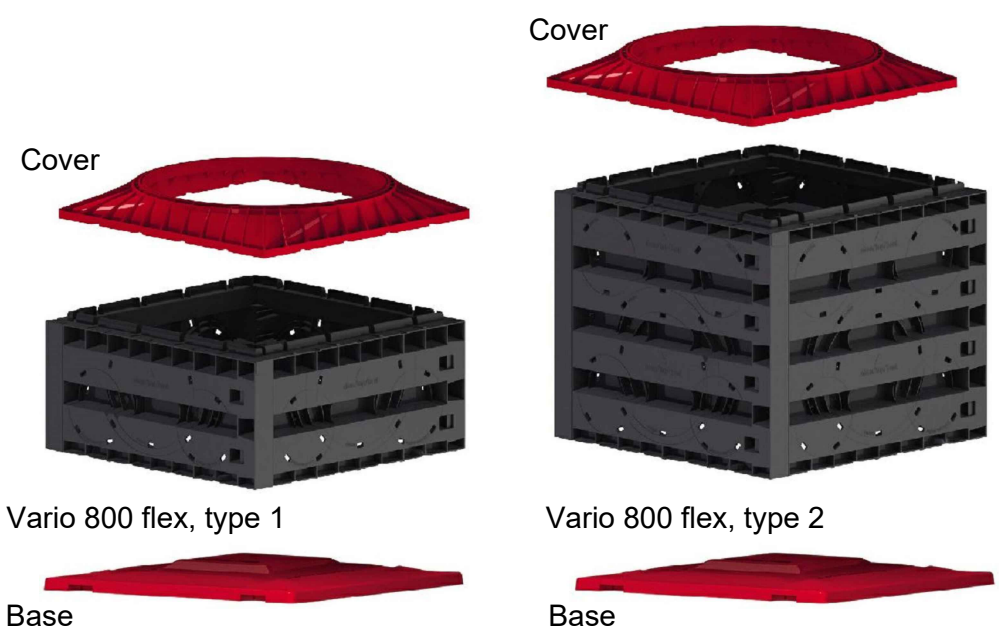
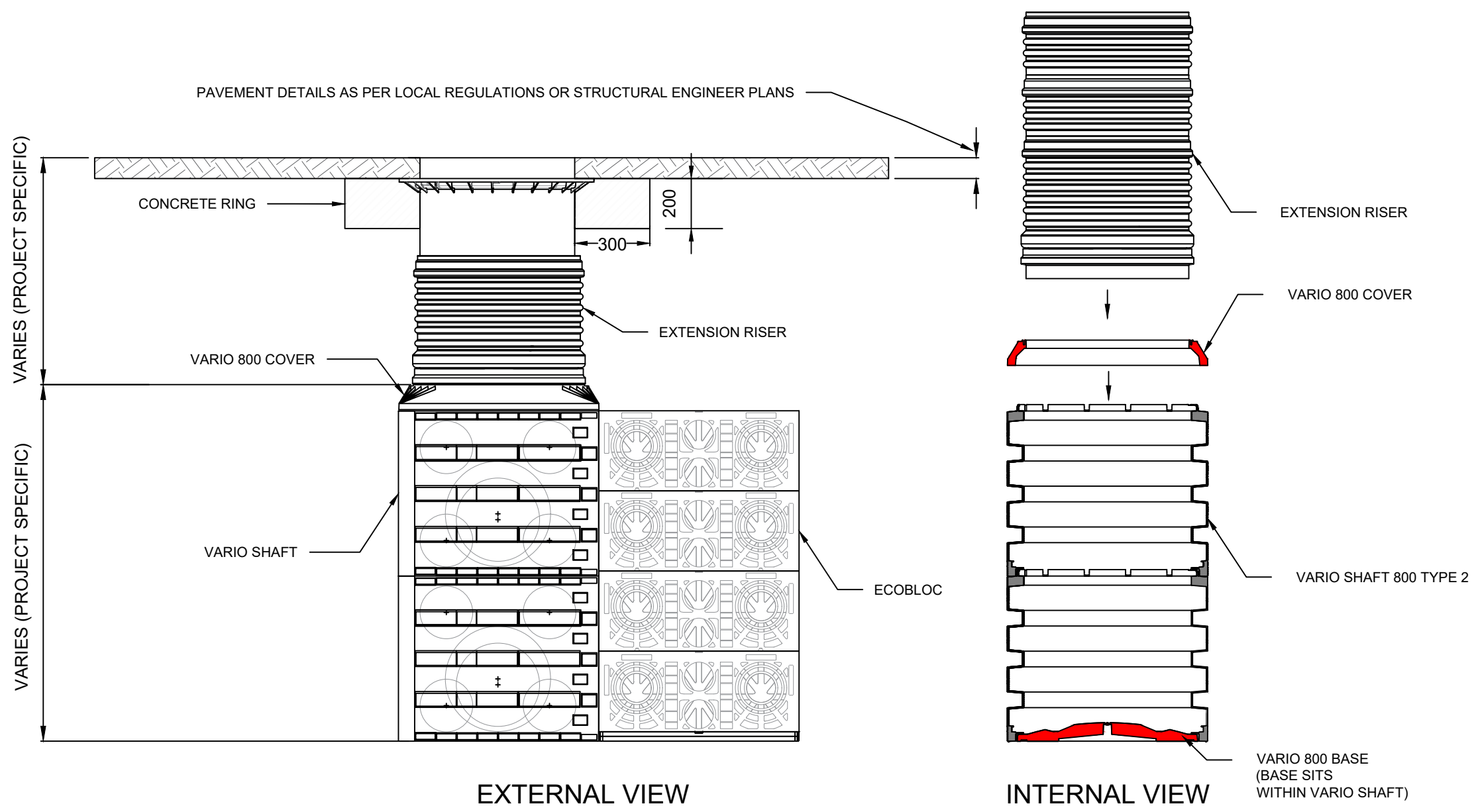
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|                                 |                 |
|---------------------------------|-----------------|
| <b>VARIO 800 TYPE 1</b>         |                 |
| Dimensions (mm)                 | 800 x 800 x 355 |
| Weight                          | 14kg            |
| Volume                          | 230 (litres)    |
| <b>VARIO 800 TYPE 2</b>         |                 |
| Dimensions (mm)                 | 800 x 800 x 660 |
| Weight                          | 24kg            |
| Volume                          | 420 (litres)    |
| <b>VARIO 800 BASE/COVER SET</b> |                 |
| Dimensions (mm)                 | 800 x 800 x 100 |
| Weight                          | 11kg            |



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

|      |                 |    |            |
|------|-----------------|----|------------|
| 2    | LATEST REVISION | MV | 04.01.2022 |
| 1    | LATEST REVISION | MV | 16.12.2021 |
| REV. | DESCRIPTION     | BY | DATE       |

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DRAWN : MV DATE : 04.01.2022

CHECKED : LB SCALE : VARIOUS@A3

PROJECT

**GRAF STANDARD DETAILS**

DESCRIPTION

**INFILTRATION TANK  
using GRAF ECOBLOC  
MAXX AND FLEX & VARIO SHAFT**

DRAWING No. **DWG-348** REV. **2** (Pg.3)