



(Drawing for illustrative purposes only)

|           | THIS DOCUMENT IS SUPPLIED IN STRICT CONFIDENCE AND MUST NOT<br>BE LENT, REPRODUCED OR DISCLOSED TO ANY THIRD PARTY WITHOUT   |
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|           | THE WRITTEN CONSENT OF GRAF UK LIMITED<br>DO NOT SCALE - IF IN DOUBT ASK   |
| e         | Notice: This drawing is issued only as a guideline and is an estimate of the materials required to construct   |
| cm³       | the drainage system, it should not be used for construction purposes.<br>Graf UK Ltd makes no warranty or guarantee in relation to the suitability of any of the layout details shown<br>on this drawing in relation to a particular scheme. |
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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.<br>(minimum 500mm around all sides of the tank).   |
|           | <ul> <li>b) Mark out the position of the tank including inlets and outlets.</li> <li>c) Lay min. 50mm of single sized non angular stone</li> </ul>   |
|           | (8 to16mm) as a base for the tank. This can be laid to a maximum fall<br>of 1°.  |
| se        | <ol> <li>a) Lay the Geotextile on the base of the excavation, overlapping any</li> </ol>   |
| ended     | joins by a minimum of 300mm<br>b) Lay the Goemembrane on top of the Geotextile over the base and   |
|           | up the sides of the trench.<br>c) Membrane must be joined by thermal fusion heated wedge welding.  |
|           | It is recommended that the Dual Seam method is used as this<br>generates an unwelded channel which can be pressured with air to  |
|           | check the integrity of the weld.<br>d) The membrane and geotextile used must meet the specification  |
|           | stated on the drawing.   |
|           | <ol> <li>a) Place the first layer of crates until complete ensuring clips are used<br/>to secure each crate.</li> <li>b) Continue building the tank up until all crates have been installed to</li> </ol>                                    |
|           | b) Continue building the tank up until all crates have been installed to<br>the dimensions specified, project specific.  |
|           | <ol> <li>a) Fix adaptor plates to the sides of the crates in the required position<br/>for the inlet and outlet pipes.</li> </ol>  |
|           | <ul> <li>b) Cut a hole in the geomembrane and pull up over the adaptor plate<br/>sealing the membrane around the spigot of the adaptor plate.</li> </ul>   |
|           | c) Pull membrane up around the sides and fully wrap the crates,<br>securing the lid in place by heated wedge welding to the side panels.   |
|           | <ul> <li>d) Wrap and overlap the geotextile covering the entire tank to protect<br/>the geomembrane.</li> </ul>  |
|           | <ul> <li>e) Install vent pipe connection into the top of the tank at a suitable<br/>location.</li> </ul>   |
|           | <li>f) Backfill around the tank and for 100mm above with non-angular<br/>stone. Backfill to finished ground level with suitable material in layers.</li>   |
|           | <ul><li>g) Connect inlet/outlet pipes using appropriate bandseals.</li><li>h) In order to prevent silt from entering the tank it is recommended</li></ul>  |
|           | that silt traps or catchpit manholes are installed upstream of any inlet.<br>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<br>contact our Technical Department at Graf UK.   |
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|           | P3 UPDATED NOTES AP 21.09.22   |
|           | P2 DETAILS UPDATED FOR NEW RAINBLOC CRATE MC 02.02.21  |
| 14        | REV. DESCRIPTION BY DATE   |
|           |  |
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|           | DRAWN : DB DATE : 05.10.2018   |
|           | CHECKED : MC SCALE : VARIOUS@A3  |
|           | GRAF STANDARD DETAILS  |
|           |  |
|           | DESCRIPTION  |
|           | ATTENUATION TANK   |
|           | using GRAF RAIN BLOC   |
|           |  |
|           | DRAWING NO.<br>STANDARD DETAIL.RAIN BLOC. P3   |
|           | STANDARD DETAIL.RAIN BLOC. P3<br>(Pg.2)  |
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