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INSTALLATION GUIDELINES FOR SAMPLE CHAMBERS



| | |
|-------------------------------------------------------------------------|---------------------------------------------------------------------------------|
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Introduction

Klargester Sample Chambers are manufactured in Glass Fibre Reinforced Polyester (GRP). The finished products are light in weight, easy to transport and install. GRP is extremely robust, but can be susceptible to damage by sharp objects and from point loads. Care should be taken to avoid contact with sharp objects and point loads and the unit should be uniformly supported during transportation and installation.

WARNING

The unit is designed to take light vehicular loads, such as passenger cars. Under no circumstances should the load exceed that stated on the General Arrangement Drawing.

HEALTH AND SAFETY

These warnings are provided in the interest of safety. You must read them carefully before installing or using the equipment.

It is important that this document is retained with the equipment for future reference. Should the equipment be transferred to a new owner, always ensure that all relevant documents are supplied in order that the new owner can become acquainted with the functioning of the equipment and the relevant warnings.

Installation should only be carried out by a suitably experienced contractor, following the guidelines supplied with the equipment.

We recommend the use of a dust mask and gloves when cutting GRP components.

A qualified electrician should carry out electrical work.

Sewage and sewage effluent can carry micro-organisms harmful to human health. Any person carrying out maintenance on the equipment should wear suitable protective clothing, including gloves. Good hygiene practice should also be observed.

Covers must be kept locked.

Observe all hazard labels and take appropriate action to avoid exposure to the risks indicated.

Customer care hotline phone number is 0845 601 5597

Installation Procedure

CHECK: Drain invert depth and orientation of unit. Relevant drawing and concrete specification SK296 are supplied with this document.

INSPECT: Sample Chamber for damage before installation.

DO NOT: Sample Chamber to impact, contact with sharp edges or use metal chains, when lifting the unit.

1. The installation of any particular unit should be carried out in accordance with details shown on the relevant and current issue of the Klargestor drawing. In particular, note the outlet pipe position and levels relevant to ground level, the depth and size of the excavation.
2. Set out the excavation to size, in the correct position relevant to existing pipe positions. Allowance must be made for timbering or trench sheeting. When setting out the levels carefully note any slopes present on the site. The unit must be installed in a level plane.
3. Excavate the hole to the correct size and depth. For wet installations it will be necessary to dewater the excavation using suitable pumping equipment. When setting out the levels carefully note any slopes present on the site. The unit must be installed in a level plane.
4. Lay a concrete (sulphate resisting, if required) of suitable thickness to suit site conditions in accordance with concrete specification SK296 below and level to the correct depth below drain invert.
5. Connect pipe work before backfilling up to final level as shown on relevant drawing. Ensure that the concrete is free of voids, it is important that any loads exerted on the access cover are transferred to the concrete and not the GRP
6. Carefully remove trench sheeting and strutting before the concrete fully sets and prevents their removal, ensuring that the unit's position is not moved during this operation.
7. In the event of any problems please contact Klargestor Environmental Limited.

| CONCRETE SPECIFICATION SK296 IN ACCORDANCE WITH BS 5328 PARTS 1,2,3 AND 4 | |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| TYPE OF MIX | DESIGN |
| PERMITTED TYPE OF CEMENT | BS 12 (OC): BS 12 (RHPC): BS 4027 (SRPC) |
| PERMITTED TYPE OF AGGREGATE (coarse & fine) | BS 882 |
| NOMINAL MAXIMUM SIZE OF AGGREGATE | 20 mm |
| GRADES: | |
| C30 (30 N/mm ²) | REINFORCED & ABOVE GROUND WITH HOLDING DOWN BOLTS |
| C30 (30 N/mm ²) | REINFORCED (EG. FOR HIGH WATER TABLE) |
| C20 (20 N/mm ²) | UNREINFORCED (NORMAL CONDITIONS) |
| MINIMUM CEMENT CONTENT | |
| C30 | 270 - 280 Kg/M ³ |
| C20 | 220 - 230 Kg/M ³ |
| SLUMP (NOT IN ACCORDANCE WITH BS 5328) | 25mm |
| RATE OF SAMPLING | READY MIX CONCRETE SHOULD BE SUPPLIED COMPLETE WITH APPROPRIATE DELIVERY TICKET IN ACCORDANCE WITH BS 5328 PART 3 |
| NOTE: STANDARD MIXES SHOULD NOT BE USED WHERE SULPHATES OR OTHER AGGRESSIVE CHEMICALS EXIST IN GROUND WATER | |