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**GL0063P**  
**INSTALLATION GUIDELINES FOR**  
**SAMPLE CHAMBERS**



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**Enclosed Documents**

<b>DS1167P</b>	<b>450mm Dia Sample Chamber (Plastic)</b>
<b>800776P</b>	<b>550mm Dia Sample Chamber</b>

<b>Issue</b>	<b>Description</b>	<b>Date</b>
02	CC1012	April 2012

## **INTRODUCTION**

Kingspan Sample Chambers are manufactured in Glass Fibre Reinforced Polyester (GRP)/Plastic. The finished products are light in weight, easy to transport and install. GRP/Plastic 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**

**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.

**Installation Procedure**

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

**INSPECT:** Sample Chamber for damage before installation.

**DO NOT:** Subject the 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 Kingspan 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 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/Plastic.
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 Kingspan.

<b>GENERAL CONCRETE SPECIFICATION IN ACCORDANCE WITH BS EN 206-1 ( BS 8500-1)</b>		
TYPE OF MIX		(DC) DESIGN
PERMITTED TYPE OF CEMENT		BS 12 (OPC): BS 12 (RHPC): BS 4027 (SRPC)
PERMITTED TYPE OF AGGREGATE (coarse & fine)		BS 882
NOMINAL MAXIMUM SIZE OF AGGREGATE		20 mm
GRADES: C25 /30 C25 /30 C16 /20		REINFORCED & ABOVE GROUND WITH HOLDING DOWN BOLTS REINFORCED (EG. FOR HIGH WATER TABLE) UNREINFORCED (NORMAL CONDITIONS)
MINIMUM CEMENT CONTENT	C30 C20	270 - 280 Kg/M <sup>3</sup> 220 - 230 Kg/M <sup>3</sup>
SLUMP CLASS		S1 (25mm)
RATE OF SAMPLING		READY MIX CONCRETE SHOULD BE SUPPLIED COMPLETE WITH APPROPRIATE DELIVERY TICKET IN ACCORDANCE WITH BS EN 12350-1
<b>NOTE: STANDARD MIXES SHOULD NOT BE USED WHERE SULPHATES OR OTHER AGGRESSIVE CHEMICALS EXIST IN GROUND WATER</b>		