Alternative proprietary recycled polypropylene "thin wall" access chambers may be proposed. Written approval must be obtained from the Project Manager prior to construction.

### Standard Access Chamber

<table>
<thead>
<tr>
<th>Internal Dims (mm)</th>
<th>Top opening/Per Side</th>
<th>Section Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 x 300</td>
<td>2</td>
<td>150</td>
</tr>
<tr>
<td>450 x 450</td>
<td>3</td>
<td>150</td>
</tr>
<tr>
<td>600 x 600</td>
<td>4</td>
<td>150</td>
</tr>
</tbody>
</table>

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Notes:

1. The duct inspection chamber shall be constructed from 33mm thick polypropylene and black incolour. The chamber shall consist of separate inter lokais: 155mm deep square or rectangular in section. These shall be made up to the required depth.
2. The Duct Inspection Chamber Lid shall be made from High Strength Polypropylene Composite material and shall conform to BS EN 124:1994 Grade B 12.5 Tonnes. The required colour shall be black.
3. The Lid shall locate into 25mm thick Galvanised Adjustable Steel Frame allowing for height and lift adjustment.
4. Bedding requirement - The access chamber should be bedded on a base of 100mm thick C20 dry mix concrete and the base be chamfered to allow a slope away outward.
5. Bedding requirement - The access chamber units to be designed not to be reliant on a structural concrete surround for their strength and can therefore be installed using the following bedding details:
   - As dug (material). In order to use as dug material for bedding purposes, the Contractor must be satisfied that the material can be compacted properly and must be free from sharp stones.
   - If the native subsoil is suitable for use then imported granular material should be placed around the chamber instead and compacted, i.e. self-compacting pea gravel.
6. Use of a 150mm concrete surround is also acceptable, but not necessary in most cases, a concrete surround should be used in areas of heavy traffic loading (i.e. within the carriageway).
7. All cladding shall be smooth internally and externally and shall conform dimensionally to the requirements of BS 4660 and BS 1359:1991 (7th edition). The ducts shall be manufactured from UPVC 110mm OD with wall thickness of 3.2mm and marked with the legend "Traffic Signals" or "Street Lighting" in 50mm high white lettering. All ducts shall be finished flush with the internal face of the chamber units.
8. All dimensions are in millimetres unless otherwise stated.
9. 50mm duct used as a drain pipe in external and shall conform dimensionally to the requirements of BS 4660 and BS 1359:1991 (7th edition). The ducts shall be manufactured from UPVC 110mm OD with wall thickness of 3.2mm and marked with the legend "Traffic Signals" or "Street Lighting" in 50mm high white lettering. All ducts shall be finished flush with the internal face of the chamber units.
10. Details can be varied subject to approval by the Project Manager.
11. Duct boxes with soft covers to have 200x500x500mm concrete block surround - colour to match existing nearby or to be confirmed by the Project Manager, an 100mm of ST4, refer to Standard Detail Sheet HW11.53 for paving details.
12. Upon completion of the construction of a signal duct access chamber box, no cabling to be installed until the chamber has been offered to the Project Manager for inspection and the relevant Quality Management paperwork completed and signed off by the Supervisor.