



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

Standard Access Chamber.		
Internal Dim. (mm)	Openings Per Side	Section Depth
300 x 300	2	155
450 x 450	3	155
600 x 600	4	155

- Notes :-**
- The Duct Inspection Chamber shall be constructed from 33mm thick strength polypropylene and black in colour. The Chamber shall consist of separate inter lockable 155mm deep square or rectangular in section. These shall be made up to the required depth.
  - The Duct Inspection Chamber Lid shall be made from High Strength Polyester Composite material and shall conform to BS EN 124:1994 Grade B 12.5 Tonne. The required colour shall be black.
  - The Lid shall locate into 2.5mm thick Galvanised Adjustable Steel Frame allowing for height and tilt adjustment.
  - Bedding requirement - The access chamber should be bedded on a base of 100mm thick C20 dry mix concrete and the base be chamfered to obtain a soak away outlet.
  - Backfill 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 backfill designs:-
    - As Dug Material - In order to use as dug material for backfill 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 not suitable for use then imported granular material should be placed around the chamber instead and compacted, i.e self compacting pea gravel.
    - The 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).
  - All ducting shall be smooth internally and externally and shall conform dimensionally to the requirements of BS 4660 and BS EN 135981-1 (dft white book specification 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 9mm high white lettering. All ducts shall be finished flush with the internal face of the chamber units.
  - All dimensions in millimetres unless otherwise stated
  - 50mm duct used as a drain hole to soakaway required in all duct / chamber boxes. Refer to Standard Detail HW/12.55 for details.
  - The Contractor is to propose the type of access chamber for use, this is to be approved by the Project Manager prior to ordering.
  - Details can be varied subject to approval by the Project Manager.
  - Duct boxes within soft verges to have 200x100x50mm concrete block surround - colour to match existing nearby or to be confirmed by the Project Manager, on 100mm of ST4, refer to Standard Detail Sheet HW/11.53 for paving details.
  - Upon completion of the construction of a signal duct access chamber box, no cabling is 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.



SCHEME  
STANDARD DETAIL SHEETS



DRAWING  
TYPICAL DETAIL FOR  
SIGNAL DUCT CHAMBER /  
ACCESS BOX

2018	H	NOTE ADDED	DAM	TE
2017	G	NOTES AMENDED	DAM	TE
2016	F	DETAILS & FRAME AMENDED	DAM	TE
2013	E	DETAILS & FRAME AMENDED	DH	PP
2010	D	NOTES AMENDED	DH	TE
2007	C	DETAILS & NOTES AMENDED	PB	BP
2005	B	NOTES AMENDED	-	AJC
2002	A	DETAILS & NOTES AMENDED	-	AJC
2000	-	ORIGINAL DRAWING CREATED	SRE	AJC
DATE	REV.	REVISIONS	DRN	PM
DRAWN	DESIGNER	PM	REVISION	
DH	TE	PP	H	
DRAWING STATUS				SCALE
GENERAL				NTS
DWG. No				
HW/12.54				