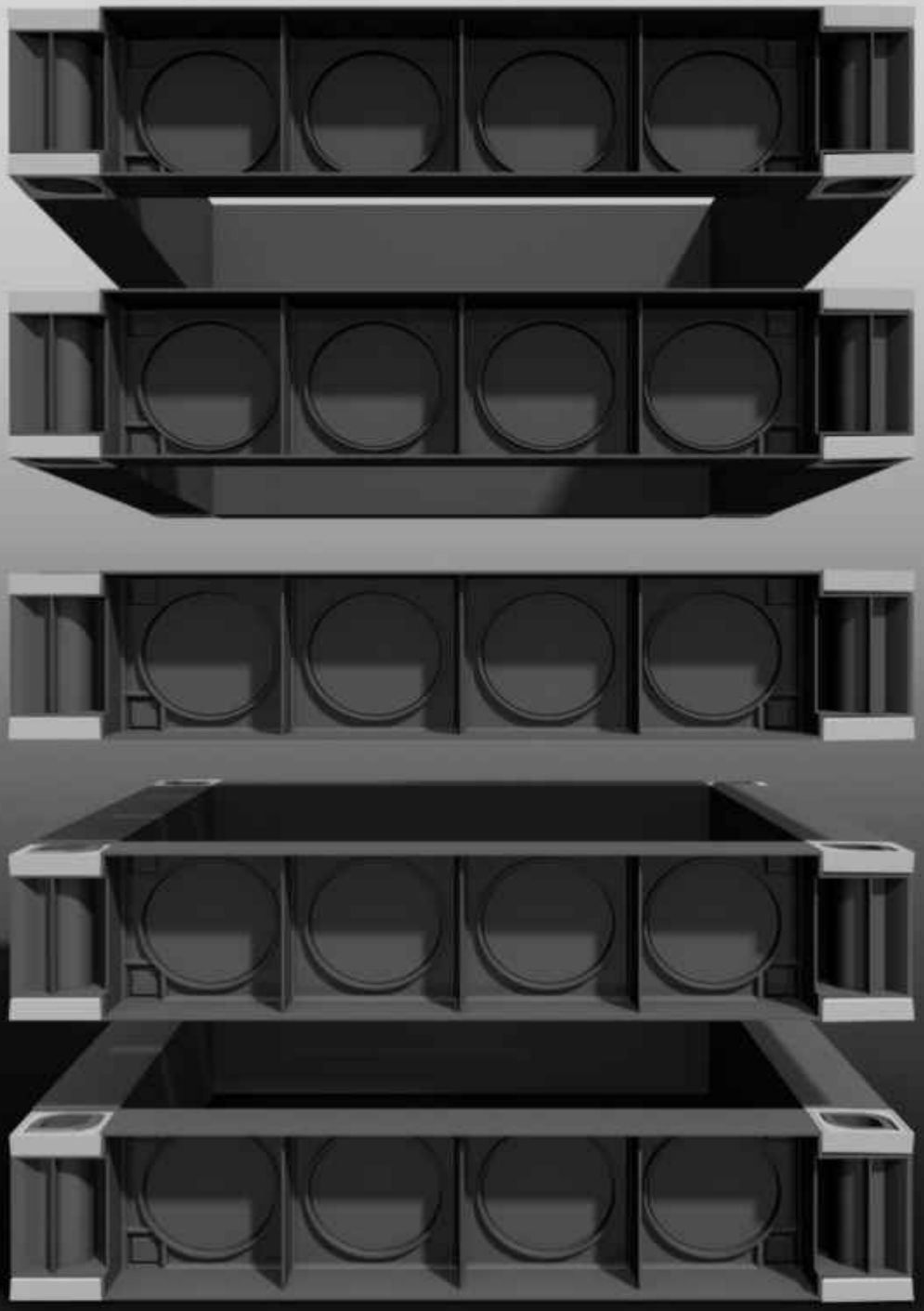
COMPASS ESTATE

Modular Chamber System



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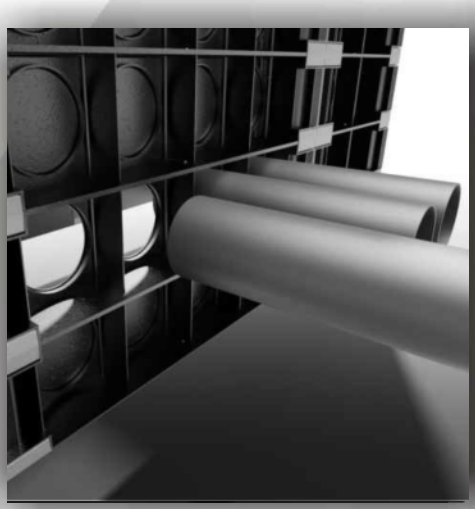
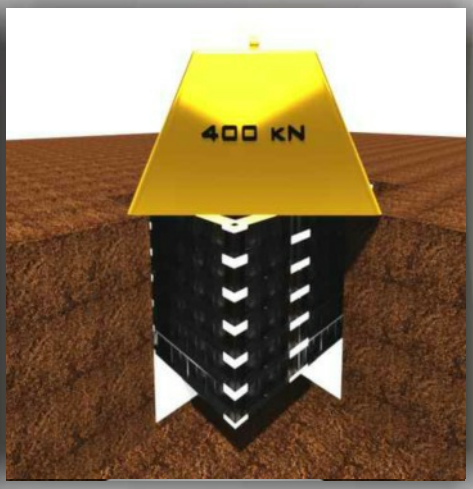


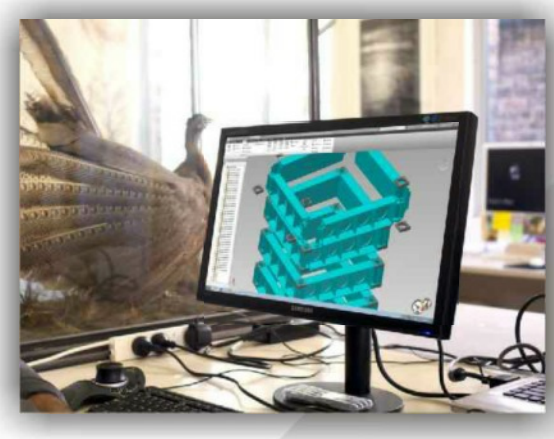


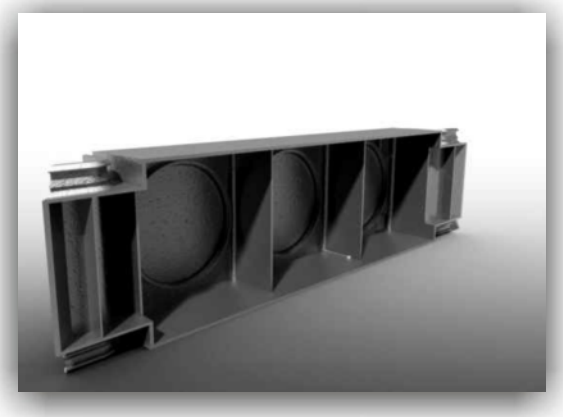
Introduction

What is Compass?

Compass is a range of innovative structural access chambers for underground installations. Ideal for all ducted network applications where access chambers are required for inspection and maintenance, Compass is suitable for all footway and highway projects.

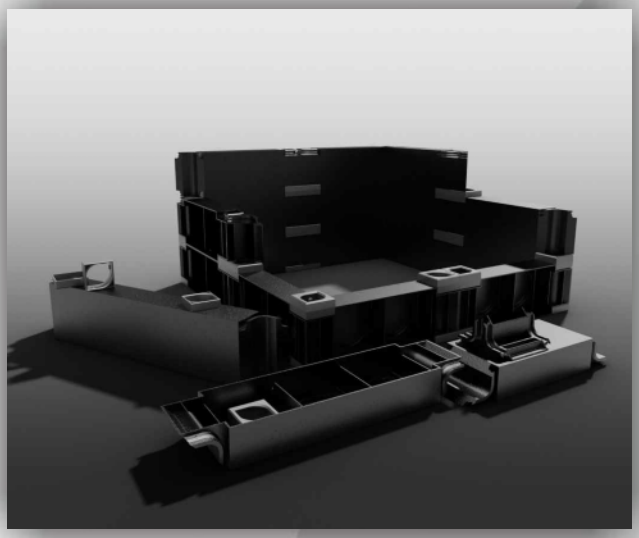
Compass chambers are formed by a interlocked rectangular ring. Available in sizes ranging from 300 x 300 to 1200 x 1200





Compass sections are a 150mm deep, with a single reinforced wall design. This makes them lightweight and easy to install. Compass is able to support both BSEN124 B125 and D400 loadings with added reinforcement and concrete surround.

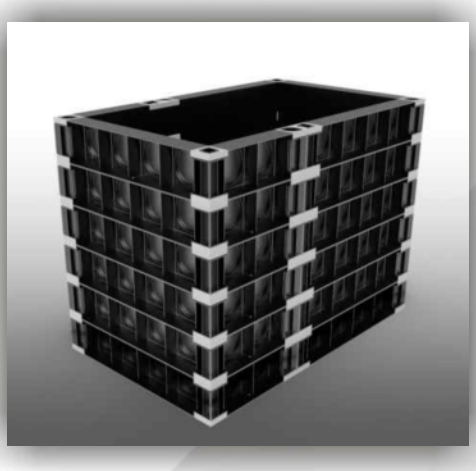
Compass parts are manufactured from 100% recycled polypropylene. All Compass parts are highly
resistant to attack from acids and alkalis and other forms of chemical erosion. They are able to withstand high loading forces which means that a concrete backfill is not required in many

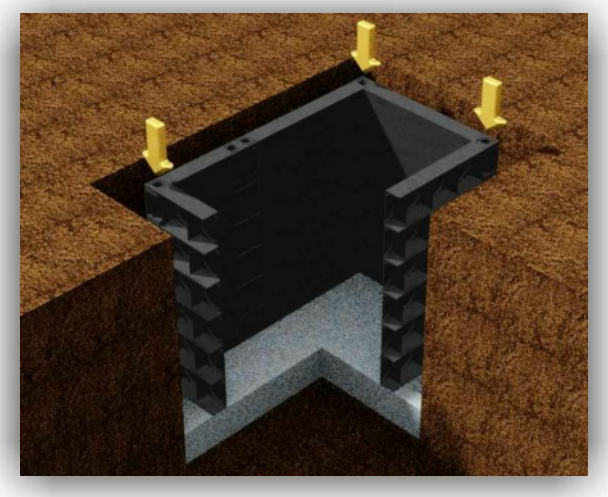


Applications And Features

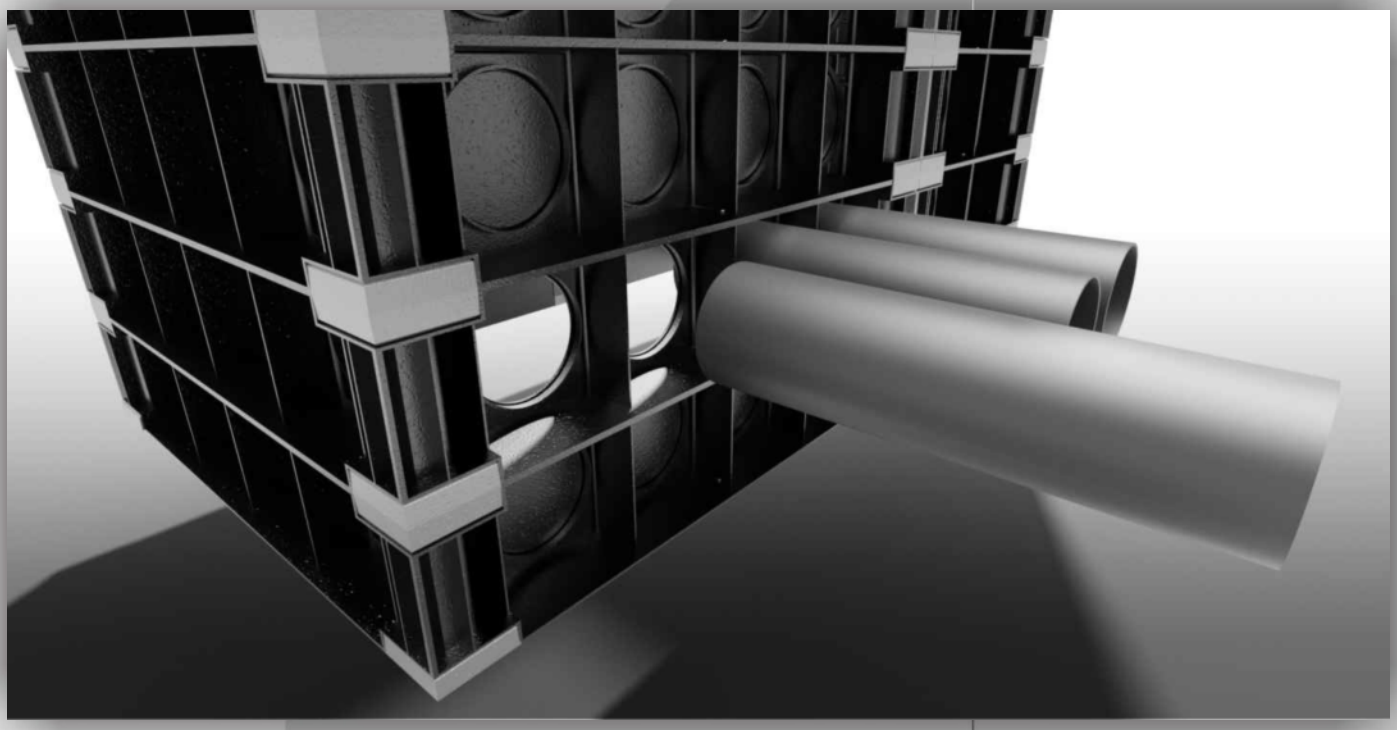
Applications

Compass can be used to create Duct Access Chambers, Drawpits, Catchpits, Valve & Meter Chambers, Highway MCX chambers and Rail Chambers. Thanks to their B125 and D400 loading capability. Compass chambers are suitable for a wide rage of applications.





Lightweight chamber construction allows manual handling for rapid on-site installation and eliminate the machine costs associated with traditional concrete chamber construction.

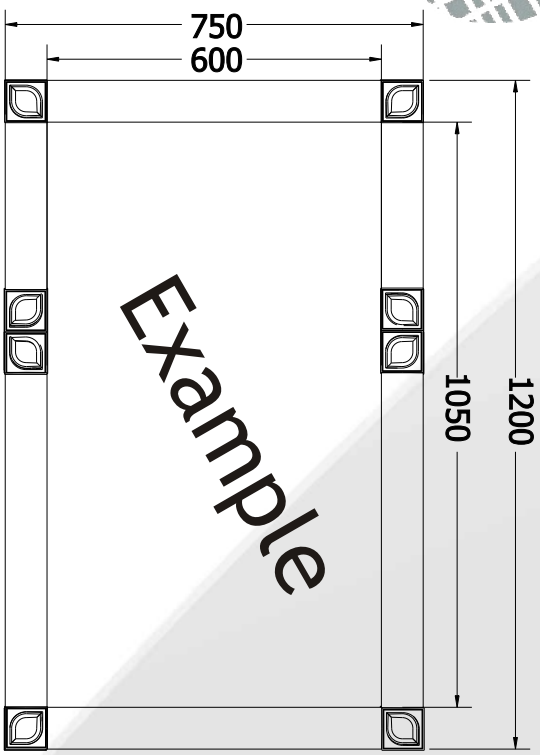


Duct entry options are available with 110mm entries pre-moulded into the wall blocks. Additional larger pre-drilled duct entries can be supplied prior to despatch and meet specific site requirements.

Product Range

Part requirements for different side lengths:

Side Dimension	Collar Connector	150 Joiner	300 Block	450 Block	600 Block
300	2	0	1	0	0
450	2	0	0	1	0
600	2	0	0	0	1
750	4	1	2	0	0
900	4	1	1	1	0
1050	4	1	1	0	1
1200	4	1	0	1	1
1350	4	1	0	0	2
1500	6	2	2	0	1
1650	6	2	1	1	1
1800	6	2	0	2	1

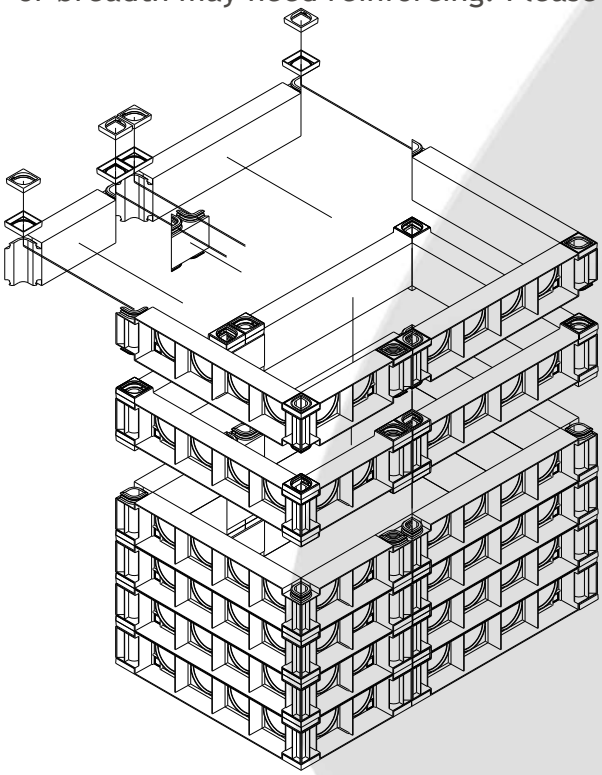


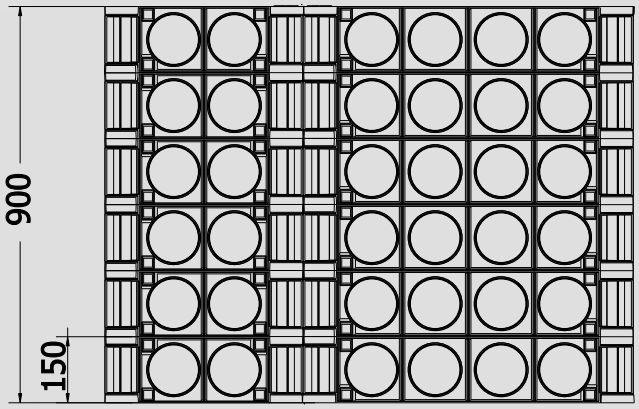
There is a large range of sizes of Atlas chambers available at 150mm increments with a base if required.

R&B can deliver Compass chambers either pre-accembled or flat packed.

The sizes are given for the internal length or width of the chambers. The unit of measurement is millimetres.

Any depth is available, although reinforcement may be necessary for chambers with a large width or breadth may need reinforcing. Please contact us for further details.



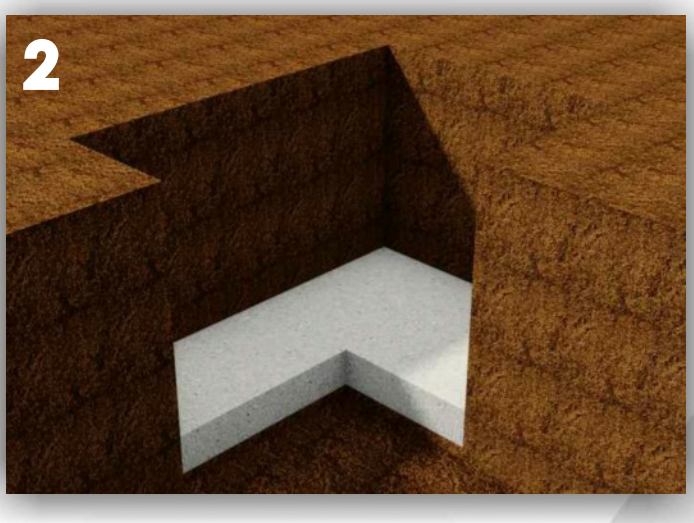


Installation Method

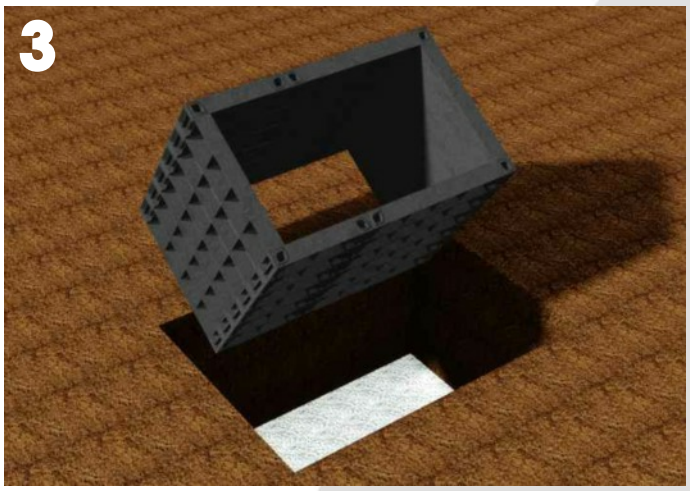
First excavate a hole in the ground.

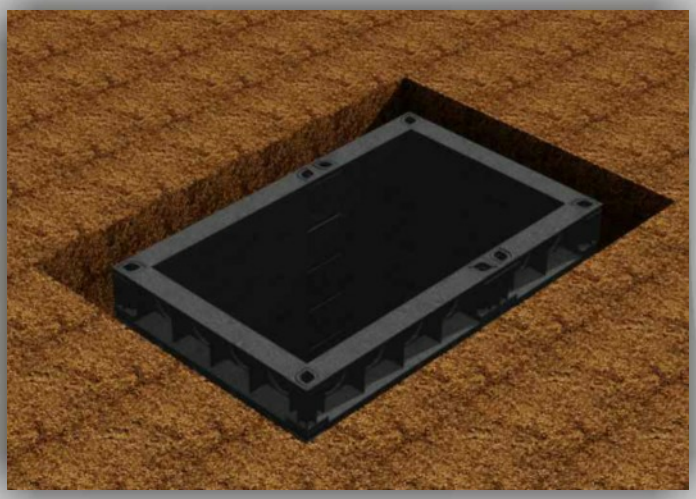
Dimensions of hole :

Length x Width x Depth. Allow 150-200 mm for the chamber wall thickness and additional depth for cover and frame required for the mortar bed.



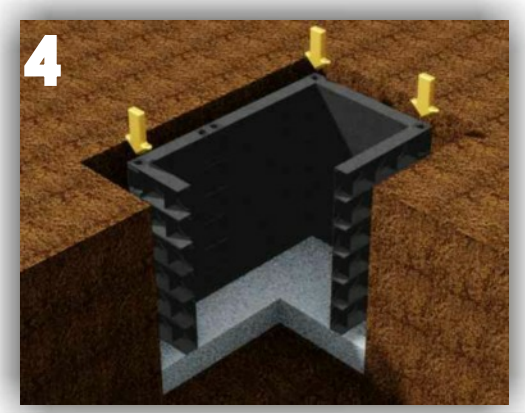
Once the hole is excavated, pour a concrete base to act as the foundation for the chamber. The onsite engineer will decide the base thickness . A 150mm base is sufficient in most cases.





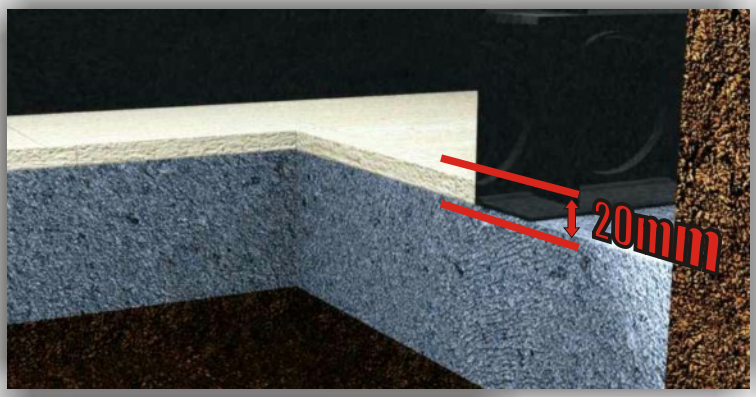
Lower the chamber into the excavation making sure that it is centered.

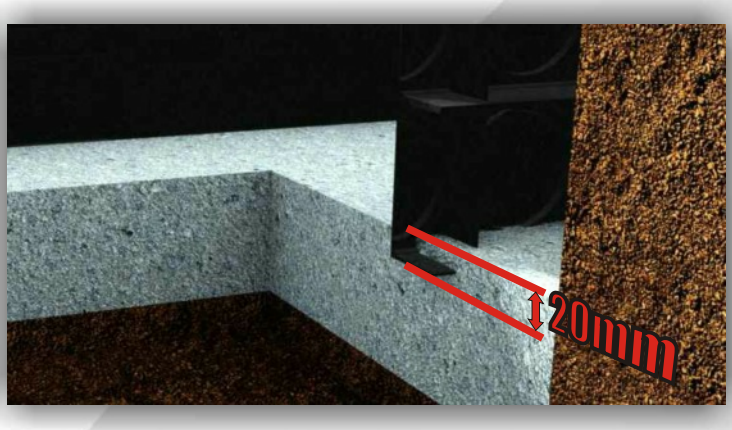
Installation Method

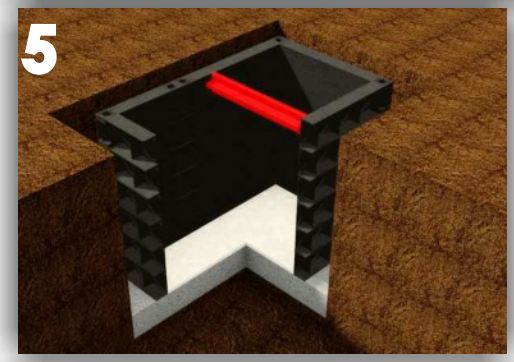


Important: To prevent the walls bowing inwards.
If the access chamber is being installed onto wet concrete, ensure that it sinks in to this concrete to a minimum depth of 20mm. The weight of the structure itself may accomplish this sinkage but, if not, the weight of a man standing at various points on the rim will suffice.

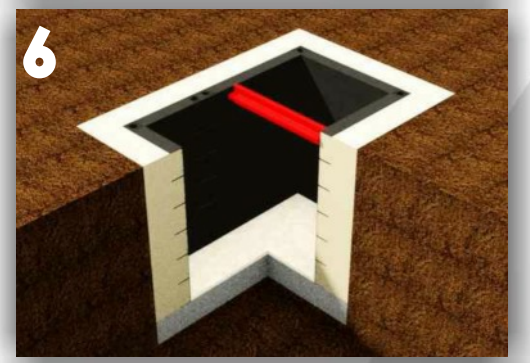
If it is being installed onto set concrete then a layer of concrete must be poured inside the inspection chamber, to fill its base to a depth of 20mm minimum.



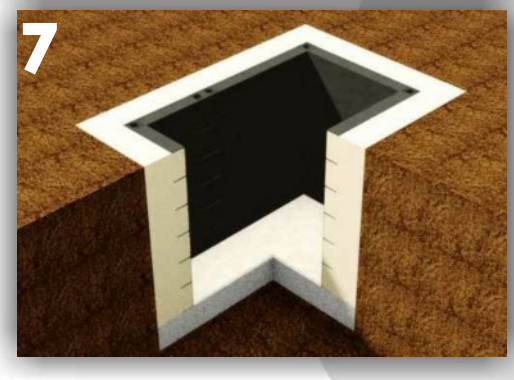




We recommend the Frame is in situ during Backfill



Once the chamber is braced, fill the cavity around the chamber with excavate or similar material for B125 loading. When a D400 or stronger loading is required concrete backfill in successive 300mm layers.



A cover frame can be fixed to chamber, once the concrete has hardened the bracing can be removed and the cover can be installed in the frame.

For D400 we recommend the use of resin mortar between chamber and frame.