



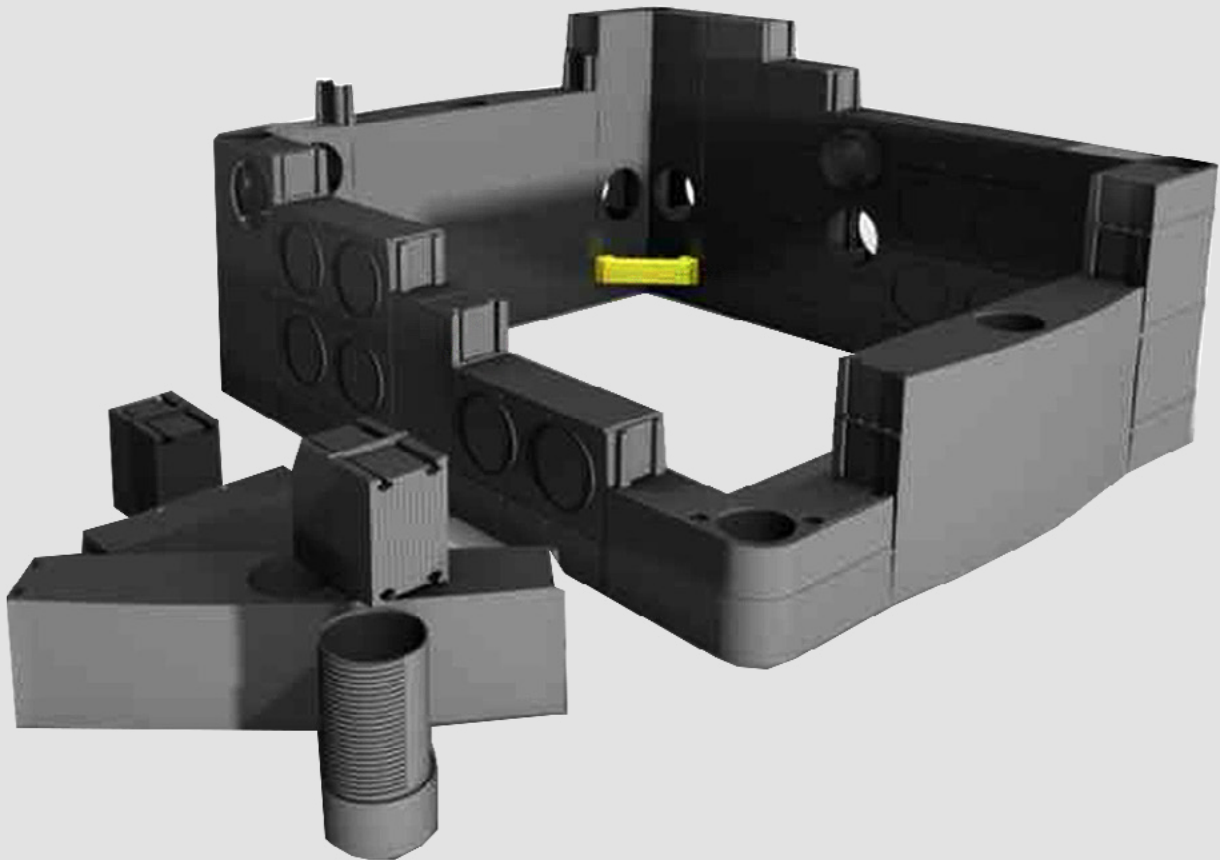
“The Mark of Quality”



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COMPASS HIGHWAY DUCT ACCESS CHAMBER SYSTEM

WHAT IS COMPASS HIGHWAY?



**COMPASS HIGHWAY IS A HIGHLY ADAPTABLE
MODULAR TWIN-WALL DUCT ACCESS CHAMBER
SYSTEM**

Compass Highway is a heavy duty duct access chamber system.

Compass Highway is a twin-wall duct access chamber system designed to be highly adaptable to suit a wide range of applications. The system is a fast build, high strength and stress free alternative to traditional concrete and brick built chambers.

Compass Highway Sections are 150mm Deep making them lightweight and very easy to install

ADVANTAGES

1 Product Range

The system is available in load classifications C250 to F900 and can be manufactured from as little as 300 x 300 to 4000 x 4000- larger sizes are available

2 Availability

Our standard lead time for bespoke duct access chambers is between 3-4 days with larger and more complex chambers manufactured and delivered within 7 days

3 Access Covers

R&B have a full range of bespoke access covers available in Ductile iron, Composite and steel with a vast range of options to suit customer requirements

Environmental Impact



Compass Highway chambers are made from fully recycled material and are 100% recyclable and at the end their life cycle can easily be recycled and remanufactured for use once again.

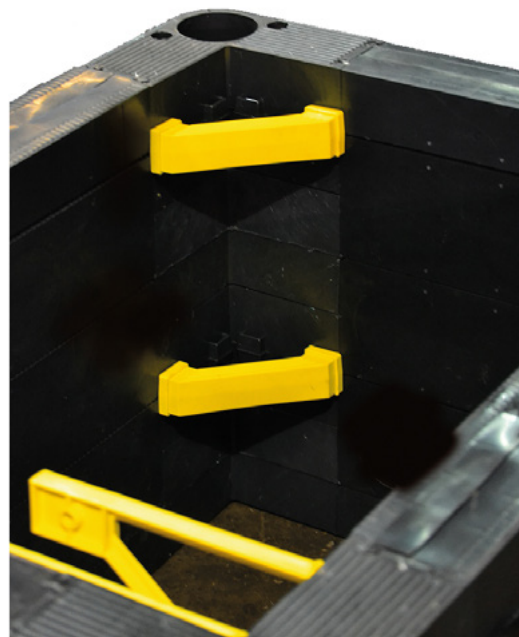
This product is one of the many new innovations helping companies across the UK to reach sustainability targets and remain environmentally friendly.

APPLICATIONS & ACCESSORIES

APPLICATIONS

Compass Highway is a highly versatile duct access chamber with a broad range of carriage-way and footway applications. Compass Highway chambers have been used for over 10 different applications as detailed below

- Street Lighting & Traffic signals Chambers
- Jointing/Splicing Chambers
- UTX (Under track crossing)
- Highway MCX Chambers
- Water main chambers
- Duct Access Chambers
- PRV/MPV Chambers
- Cable Drawpits
- Gas Valve Chambers
- High Security Chambers



**SIDE WALL PLUG**

Used to plug any unused pipe apertures in the chamber walls, to prevent ingress of debris and concrete.

**CORNER STEP**

A step attached at any/all corners within the chamber, at levels of your choosing. a cheaper and easier to install alternative to traditional step irons.

**CABLE BRACKET**

A bracket to sling cables on or mount shelves or any object within the chambers,

**PIPE CONNECTOR**

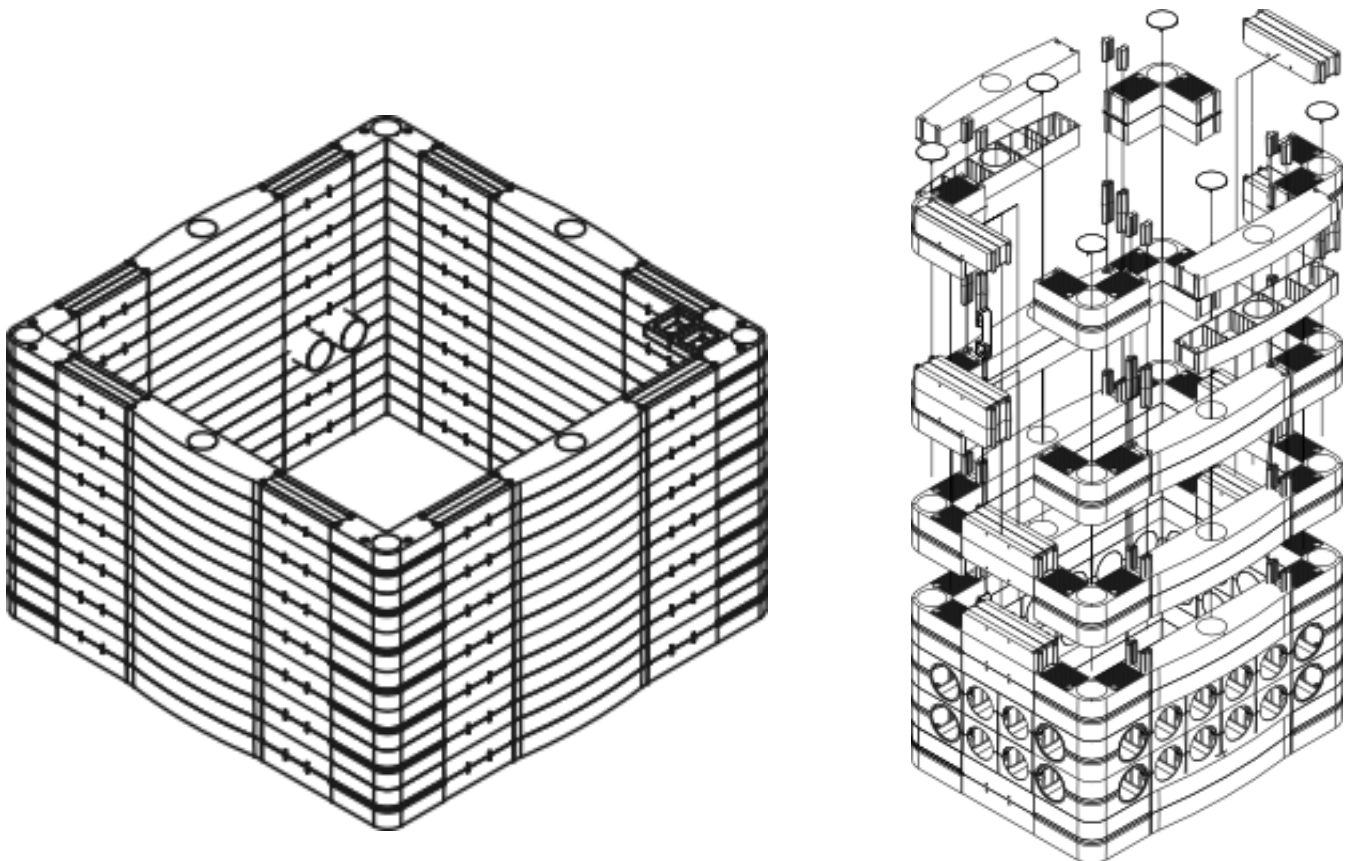
A sleeve which can be placed through our 110mm punchouts which are then secured with the threaded washer. This connector acts as a joining sleeve between incoming pipes.

PRODUCT RANGE

The Compass Highway range is highly versatile allowing the size of the chamber to be constructed to almost any required size to the nearest 50 - 100mm depending on the configuration. All standard sizes are available ex stock with bespoke product available in 3-5 days from order.

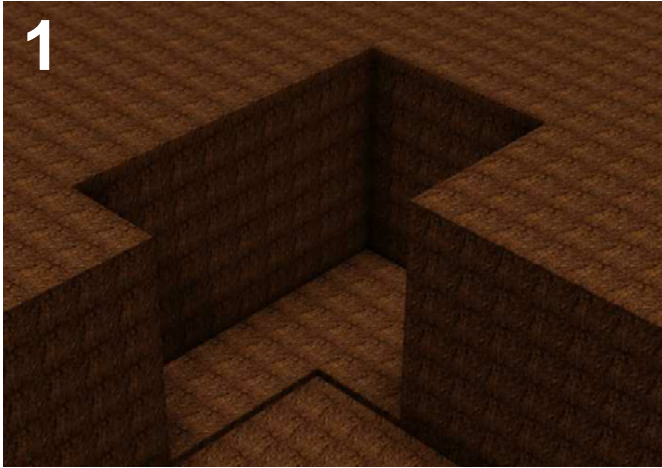
R&B can also offer to pre-drill duct entries to suit customer requirements this includes pre installing steps and cable bearers and also pre-strutting ready for backfilling. This allows the chamber to be installed without any modifications on site speeding up the installation process.

R&B design and manufacture both Ductile iron and Galvanised steel access covers to suit most sizes available in our range.



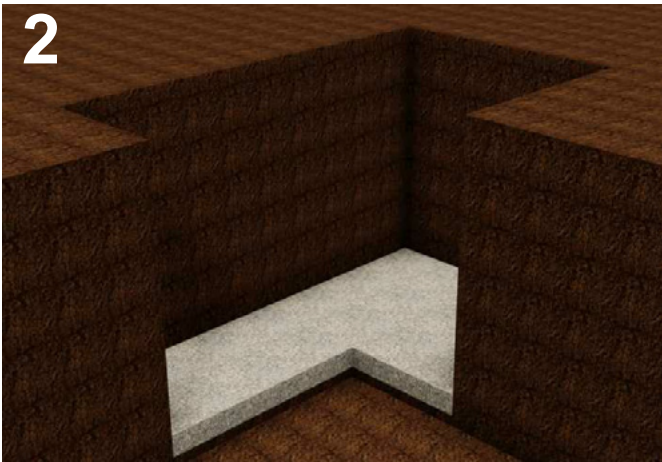
INSTALLATION INSTRUCTIONS

First a hole must be excavated from the ground

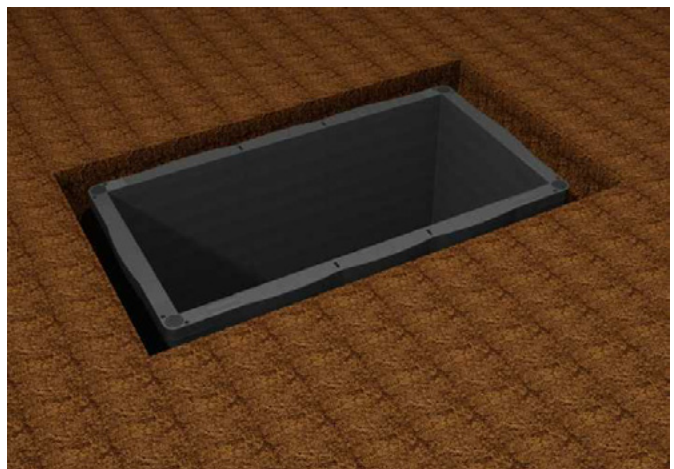
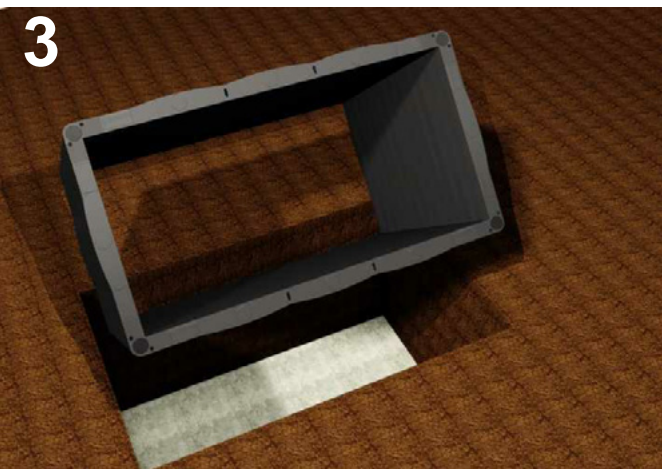


Dimensions of hole:

Length x width x height. Please allow 200-220mm for the chamber wall thickness and additional depth for cover and frame required for the mortar bed

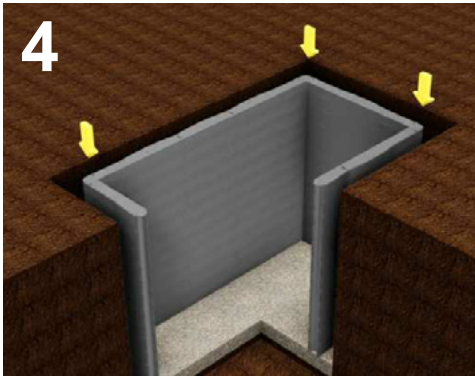


When the hole is excavated, a concrete base is poured to act as the foundation for the access chamber. Thickness of the concrete base is according to the preference of the onsite engineer. a 150mm deep base is sufficient in most cases



Lower the chamber into the excavation making sure that it is centred. you may use the steps to lift the chamber and position in excavation, if required.

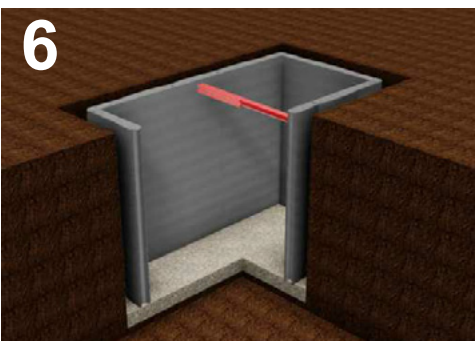
INSTALLATION INSTRUCTIONS



Important:

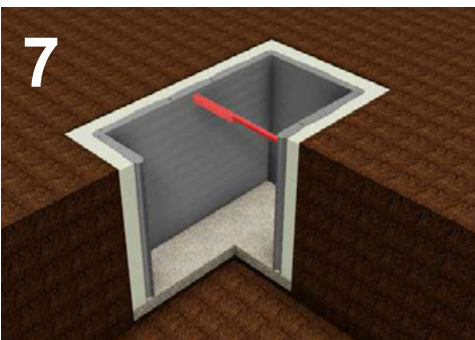
If the access chamber is being installed onto wet concrete then ensure that it sinks in to this concrete by a minimum of 20mm.

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.

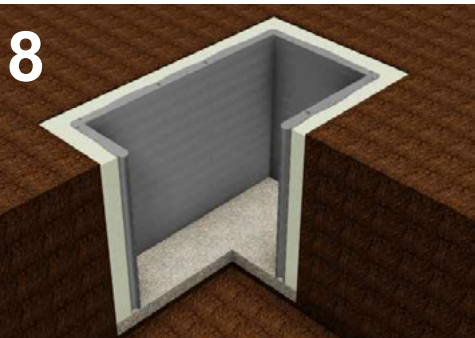


Once positioned and top caps are put in place, the chamber must be braced by a strut/struts to prevent the backfilling process to cause side wall deflection.

Please Note. Strutting is only required for chamber wall lengths of 1050mm and above. For larger chamber wall lengths of 1500mm and above 2/3 sets of struts may be required. When the chamber is braced, backfilling can take place at 300mm deep sections at a time.



Frame of cover can be fixed to chamber and after curing has taken place the central bracing can be removed and cover can be installed in frame.



We recommend resin mortar to be used between chamber and frame on D400 loadings.