

# CDM Access Panel

## Inspection Hatches for Newton CDM Inspection Ports

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### INTRODUCTION

The [Newton CDM Access Panel](#) provides discreet and functional access for routine maintenance of the [CDM BaseDrain System](#) within the Type C, [Newton CDM System](#). It also comes in two finish options to match the chosen wall finishes.

The panel comes complete and assembled with a pivoting door tray and frame finished in powder-coated white which can be overpainted on site to blend with the surrounding surface.

The CDM Access Panel is available in both metal and plasterboard versions.

### METAL DOOR

The Metal Door variant has 2 frame types:

- **Beaded Frame:** With a perforated flange to provide a key where the surface has yet to be skimmed or tape and jointed.
- **Picture Frame:** With a solid surround that sits on the surface of the wall. This covers the cut edge of the aperture and is used when the surface has already been finished and decorated. For the most discreet solution, a seamless keyhole option is available.

### PLASTERBOARD DOOR

This panel consists of a plasterboard-faced pivoting door tray and frame with a push catch or square drive operated lock with a seamless keyhole. Finished in powder-coated white and can be overpainted on site with emulsion to blend with the surrounding service, after a skim coat of plaster.

**Metal Door - Beaded Frame**



Code: CDM-AP-300MB

**Metal Door - Picture Frame**



Code: CDM-AP-300MP

**Plasterboard Door - Beaded Frame**



Code: CDM-AP-300PB

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### COMPLIANCE WITH BS 8102:2022

It is a requirement of BS 8102 that Type C (drained) waterproofing systems are maintainable. As well as providing a high flow rate, drainage channels such as the BaseDrain System are commonplace because they allow for the Type C system to be fully maintainable and to be in full compliance with BS 8102:2022.

For the channel to be maintainable, it needs to be accessible and usable so that in the worst-case scenario, a blockage can be removed and the channel cleaned, regardless of where the blockage is within the drainage system.

The methods used to inspect and locate the blockage and to remove the blockage are by specialist camera and rodding equipment, which are flexible enough to be inserted into the drainage channel to identify and clear the blockage.

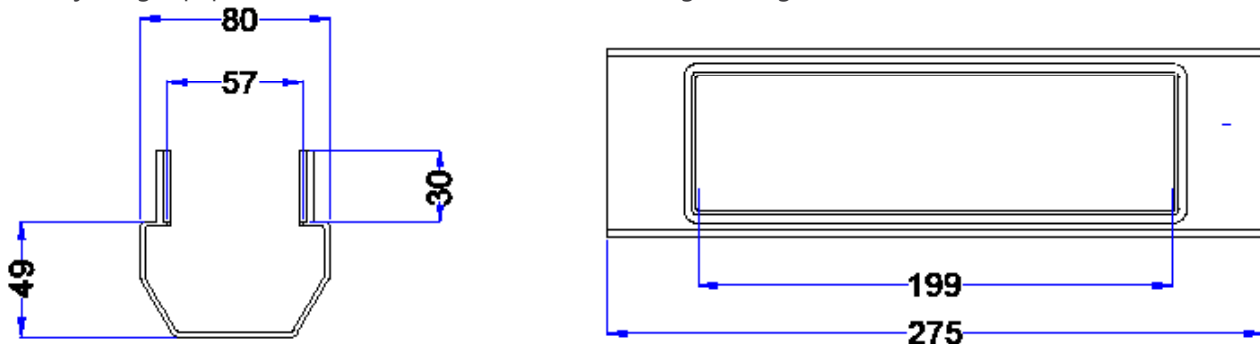
### SIZE OF INSPECTION PORTS

The inspection port should be fit-for-purpose as a means of ensuring that the system is maintainable and so must be large enough to allow the following maintenance tasks:

- Visual inspection of the drainage channel by the operative to check water levels, observe direction of flow and to identify potential issues such as silting and a build-up of lime scale
- Insertion of the camera and rodding equipment in the direction required by the operator of the maintenance equipment
- Physical removal of debris from the dislodged blockage that has been pulled by the jetting equipment to the inspection port using vacuum equipment

### NEWTON CDM INSPECTION PORT

The Newton CDM Inspection Port is designed to accommodate all the tasks required for successful removal of a blockage within the drainage system. With an opening of 199mm, it is easy to visually inspect the drainage channel and to insert camera and jetting equipment in the desired direction and is large enough for vacuum removal of the collected debris.



The Newton CDM Inspection Port comprises of a **Base**, **Riser** and **Cap**.

The Riser is supplied in 1000 mm lengths and is used to elevate the cap above the height of the floor finishing so that easy access can be achieved. **CAUTION: Do not** use more riser height than is necessary as this will make the attack angle of the camera and rodding equipment more acute which may result in difficulties in the insertion of the equipment in the desired location and may also inhibit the removal of the collected debris. **Do not** add bends to the Riser as this will prevent visual inspection and will make directional insertion of the specialist equipment extremely difficult.

The Cap fits into the Riser, not the Base, and so some Riser is required to be fitted within each Inspection Port Base.

### NUMBER OF & LOCATION OF INSPECTION PORTS

The location and number of the inspection ports is determined by the capability of the equipment used to inspect and clean the drainage channel and particular attention should be given to the capability of the equipment available for maintaining the drainage channel by the designer of the waterproofing system. As of the production date of this document, specialist camera and rodding equipment is available with limitations of use within the Newton BaseDrain System and so requires Inspection Ports to be placed as follows:

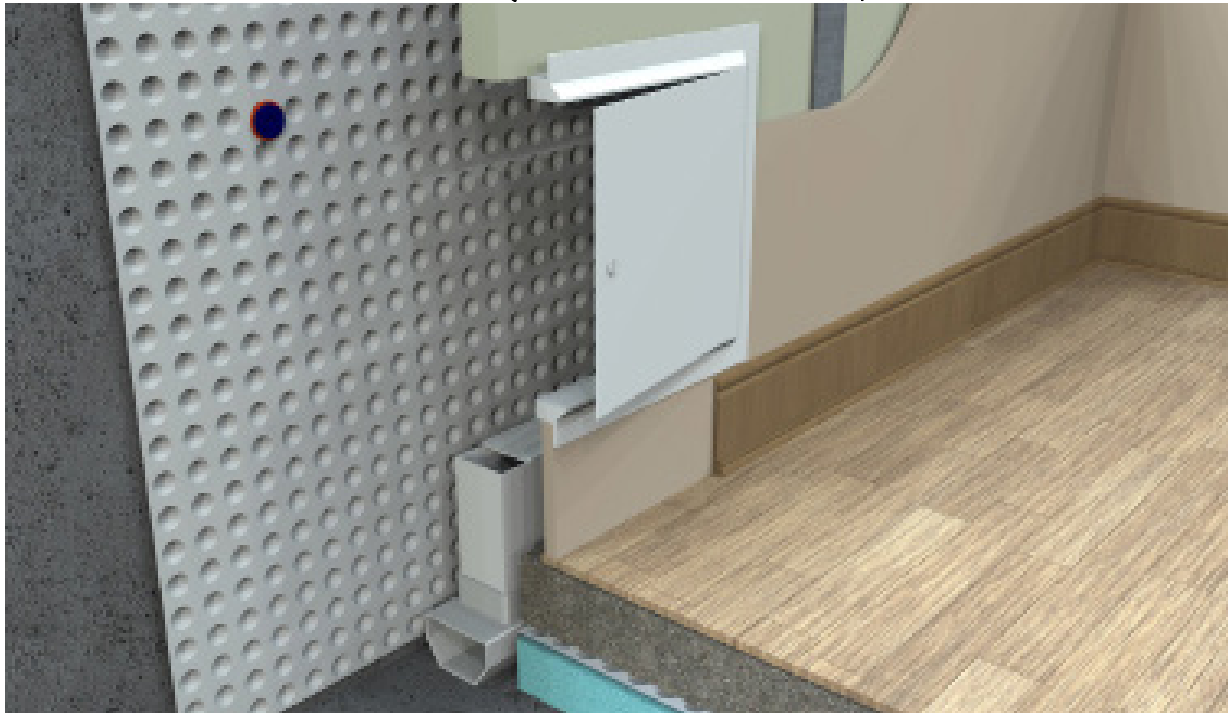
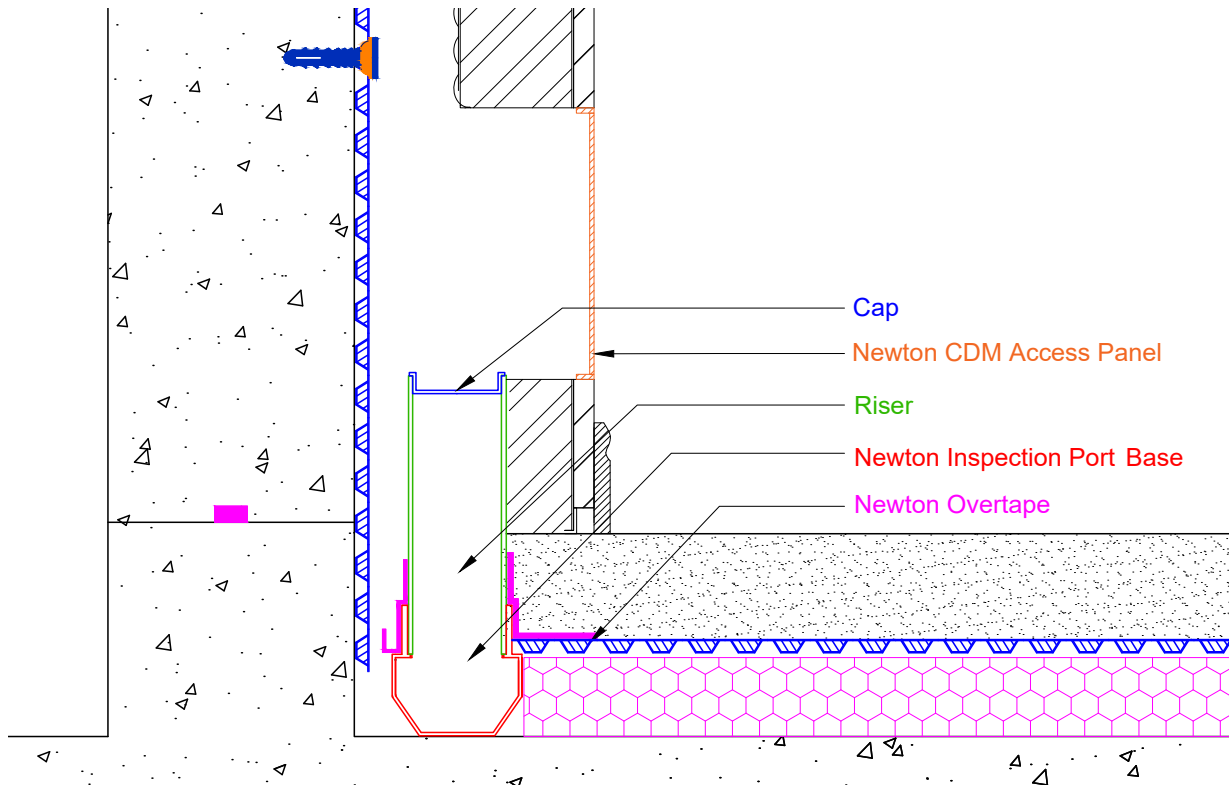
- No more than 13 m in each direction between ports
- No more than 3 swept bends in each direction between ports if the furthest bend is within 3m of the Inspection Port
- No more than 3 swept bends in each direction between ports if the furthest bend is over 3m from the Inspection Port

It is also important to be sympathetic to the layout and aesthetics of the basement. Wall finishes and furnishings within bathrooms and kitchens may require particular thought as to the location of the Access Panels, which may impact on the number of Inspection Ports and Access Panel to be fitted to ensure full maintainability of the system.

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## Inspection Hatches for Newton CDM Inspection Ports

### TYPICAL DETAIL



### KEY BENEFITS

- Provides usable access through the wall to the Newton CDM Inspection Ports
- The Metal Door option can be painted to blend into the surrounding wall surface. Plasterboard Door option can be skimmed to match the surrounding plaster board
- Seamless keyhole locking and unique pivot hinge
- Beaded and picture frame options
- Fire-rated option

# Newton CDM Access Panel

## Inspection Hatches for Newton CDM Inspection Ports

### TECHNICAL DATA & PURCHASE CODES

	METAL DOOR		PLASTERBOARD DOOR
Frame surround type	Beaded frame	Picture frame	Beaded frame
Frame material	Zintec steel		
Frame finish & colour	Powder coated white - RAL 9010 - Gloss		
Door material	As frame		12.5 mm plasterboard
Door colour	As frame		Light lilac
External dimension of frame	300 mm x 300 mm		
Clear opening size (width x height)	274 mm x 257 mm		233 mm x 260 mm
To suit structural opening	305 mm x 305 mm		305mm x 305mm
Purchase code	CDM-AP-300MB	CDM-AP-300MP	CDM-AP-300PB
Hinge type	Removable pivot plate hinge with inserted steel pins		
Lock mechanism	Square drive operated lock - tongue locating over frame		
Keyhole concealment	Invisible keyhole system		
Fire rating	1 hour		1 hour

### FITTING

Prepare a clear trimmed and protected opening in the structure 5 mm larger than the ordered panel. Create cutouts for the pivot hinges approximately 10 x 6 mm so the pivot operation is clear.

#### METAL

Turn up the fixing tabs and screw fix using suitable screws through the pre-punched holes to all four sides of the frame. Use all fixing holes provided. Face fix through the flange fixing holes in the beaded frame type. Finish the beaded frame with scrim tape in the same way as any plaster stop bead. To maintain even gaps between door and frame complete the operation with door in frame where possible.

To remove the door from the frame remove the pivot hinge plate with a cross-head screwdriver. When refitting and after any installation ensure the pivot hinge plates are fully located and if fitted, the retaining chains are in place

#### PLASTERBOARD

Fit with door in the frame where possible. Screw fix using suitable screws through the pre-punched holes to all four sides of the frame. Using all fixing holes provided and the frame flange fixing holes. Finish the beaded frame in the same way as any plaster stop bead. Finish the skim coat to the keyhole as neat as possible.

To remove the door from the frame remove the pivot hinges with a 10 mm spanner. When refitting and after any installation, ensure the pivot hinge plates are located and flat to the inside edge of the door tray and that if fitted, the retaining chains are in place.

### OPERATION AND MAINTENANCE

Using the "T" key supplied, push the seamless keyhole system aside, engage the key into the locks then open and close while supporting the door. The seamless keyhole springs back automatically to conceal the keyhole.

Avoid abrasive cleaning materials. Annually or more frequently if used very regularly check the operation, especially the hinge points and lock. Tighten or oil as required.