INSTALLATION OF STAKKAbox™ ACCESS CHAMBERS

**BASE**

100mm ST4 concrete or pre-fitted 6mm LDPE Base sat on self compacting shingle/sand or 150mm compacted MOT granular stone.

150mm ST4 concrete re-enforced with 1 layer A393 mesh.

A 50mm (min) drainage hole to be in floor.

**DUCT ENTRY**

Access sections are pre-drilled with 114mm O/D duct entry points. The STAKKAbox™ can be drilled with an appropriate hole saw to suit other duct O/D. Ideally 2-6mm larger than the duct O/D. Run the duct directly into the hole and use mortar to point up any gap between the duct and chamber.

**SURROUND**

MINIMUM Compactable as dug material or Type 1 MOT or any size self compacting pipe bedding/shingle.

MINIMUM 150mm ST4 Concrete.

**WALL FURNITURE**

For brackets and/or steps drill holes using an 11mm bit and fit brackets with M16 bolts supplied before the chamber is lowered into the excavation.

**COVER AND FRAME**

Frame to be coach bolted/screwed or 20mm mortar between under side of frame & top of chamber. Alternatively for grass or loose surfaces place a 100mm fillet around the frame x 150mm deep.

MINIMUM 25mm Resin Bedding mortar between under side of frame & top of chamber.
IMPORTANT READ THIS

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DON’T
Do not make duct entries into or cut parts from the top section in footway installations or top two sections in carriageway installations. With the exception of a horizontal cut to place a slope into the top of the chamber. The top section must however remain as a complete ring.

DON’T
Do not cut duct entries with a hand saw. Only use the correct size hole saws, these are available from NAL Ltd.

INSTALLING CHAMBERS OVER 600mm x 600mm

Cross brace the centre of the longest wall when compacting backfill around a Modula larger than 600mm x 600mm.

Braces must be placed at 450mm intervals.

When the length is greater than 1200mm a 150mm ST4 Concrete surround must be used.

NAL COMPOSITE EXTRA DEEP COVER AND FRAME

Frame to be coach bolted/screwed to STAKKAbox™ Access Chamber or 20mm mortar between under side of frame & top of chamber, alternatively for grass or loose surfaces place a 100mm fillet around the frame at 150mm deep.

INSTALLING ACCESS STEPS

Single Manhole Steps at 300mm c/c vertically to SHW sub-clause 507.6

If you are in any doubt or simply have a question.
Tel: 01905 427100
Email: sales@nal.ltd.uk
Cast 100mm concrete base with central drainage hole for soak away.

Using the appropriate hole cutter drill holes into a STAKKAbox section as required for incoming ducts OR Use factory pre-drilled duct access sections.

Place access section onto wet concrete and insert ducting.

Add sections by stacking them vertically, with external ribs positioned at the bottom.
5. Mark the top section in line with finished surface level, allowing for depth of cover & frame.

6. Remove the marked section and cut with hand saw along the pre-marked line and refit back onto the chamber.

7. Install and fix the frame directly onto the chamber.

8. Fit cover into the frame and reinstate surrounding surfacing.
1. Remove existing chamber. Excavate at least 175mm below the current ducts. Measure duct positions and mark on STAKKAbox.

2. Using the appropriate hole cutter, drill holes in the marked positions between 2 STAKKA riser sections.

3. Split the 2 sections. Insert the bottom section and pack it up to the correct level with spacers or bricks.

4. Cast 100mm concrete base with central drainage hole for soak away.
Place top drilled section onto bottom section.

Add additional sections, stacking them vertically with external ribs positioned at the bottom.

Mark the top section in line with finished surface level, allowing for depth of cover and frame.

Install and fix the frame directly onto the chamber.

Remove the marked section and cut with hand saw along the pre-marked line and refit back onto the chamber.

Fit cover into the frame and reinstate surrounding surfacing.
Remove existing chamber. Excavate at least 175mm below the current ducts. Measure duct positions and mark on STAKKAbox.

Cut existing ducts back and fit split duct connectors onto ends.

Using the appropriate hole cutter, drill holes in the marked duct positions and cut a cable slot in the top or bottom depending where cables are.

Position pre-cut chamber section into the base.

Pack up to correct level with spacers or bricks and insert split duct through drilled access section into duct connectors.
Cast 100mm concrete base with central drainage hole for soak away.

Add additional sections, stacking them vertically with external ribs positioned at the bottom.

Mark the top section in line with finished surface level, allowing for depth of cover and frame.

Install and fix the frame directly onto the chamber.

Remove the marked section and cut with hand saw along the pre-marked line and refit back onto the chamber.

Fit cover into the frame and reinstate surrounding surfacing.