

The NAL Combined Cabinet Base is a patented system designed to simplify the installation, cabling, and maintenance of all ICEE Combined Communication Cabinets. The system is available for single or multiple cabinet sites. Combined Cabinet Bases are secured to the STAKKAbOX™ Access Chamber which offers multiple underground duct connections with unrestricted cable access between cabinets. All Cabinet Bases are fully ventilated eliminating the requirement for hazardous base seal or pea gravel. Cables are installed through a recessed gland tray via IP68 Glands.

The system removes many of the installation hazards and problems associated with the traditional plinths simplifying the cabling of the Combined Cabinet whilst also allowing for future change. A single Combined Cabinet can provide the equivalent equipment space of up to three 600 type and one 609 type cabinets. This offers a large reduction in the required cabinet footprint making it ideal for sites with verge restrictions.

### Advantages

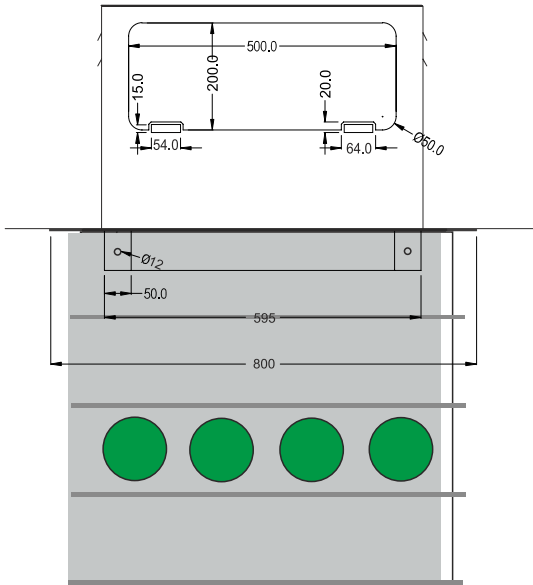
- ◆ Lightweight - two person lift, eliminating all mechanical lifting requirements
- ◆ No requirement for hazardous base seal and pea gravel
- ◆ Enables 24nr 110mm duct entries for each single base
- ◆ Straight duct connections eliminates risk of cable snagging
- ◆ No requirement for duct bungs
- ◆ Simple and unrestricted movement of cables between cabinets
- ◆ IP68 glands to all incoming cables
- ◆ No requirement to position or bend ducts in line with equipment at the base of cabinet
- ◆ 50% reduction in cabinet and equipment installation time



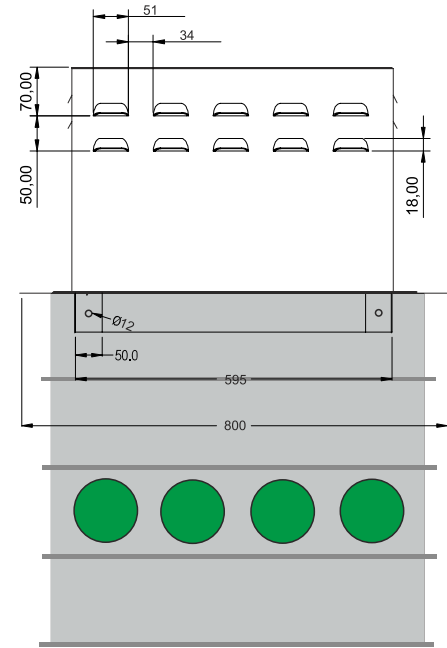
## Advantages

- ◆ Improved working height for installation and maintenance engineers
- ◆ Allows future cables to be added simply, without the need to disconnect the cabinet, or remove base seal
- ◆ Reduces cabinet footprint by 60%
- ◆ Allows simple upgrade to 'Plug and Play' system

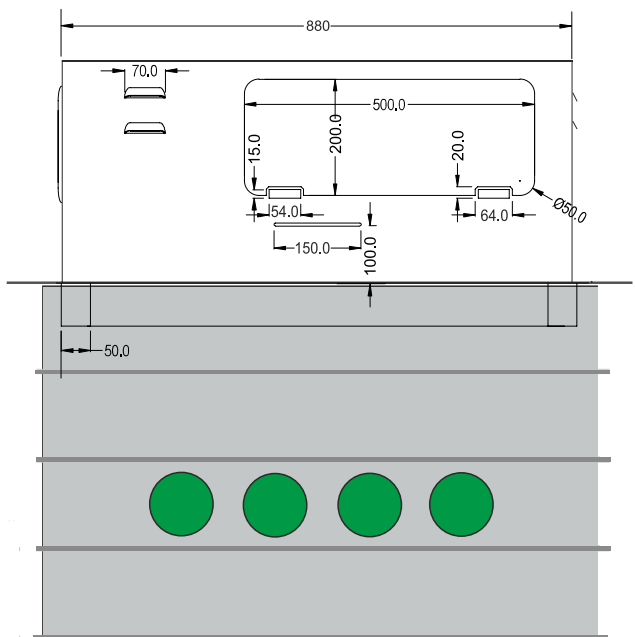
## Side elevation (door to access power cables)



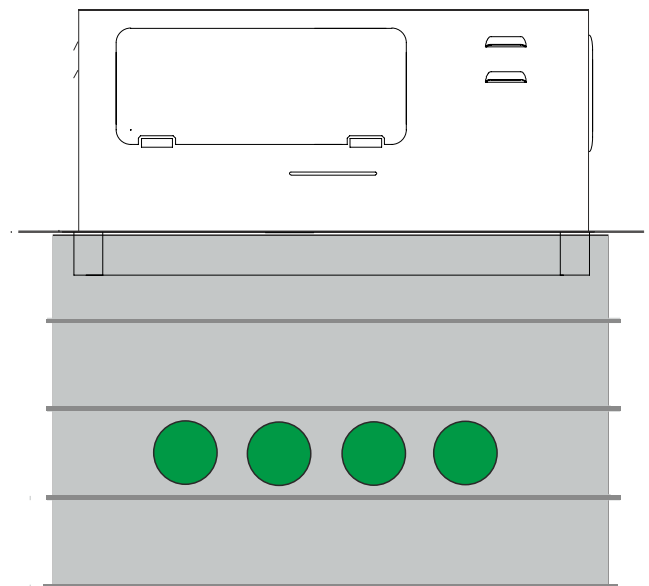
## Side elevation (no access door)



## Front elevation (door to access all MCX Cables)



## Back elevation (door to access all MCX cables)



A CRH COMPANY

Weir Lane, Worcester, WR2 4AY

Tel:01905 427100

Fax:01905 427030

Email:sales@nal.ltd.uk



# Cabinet Bases

## Combined Cabinet Base



### Combined Cabinet Base Specification

MCX Combined Cabinet Base must enable the installation of ICEE Combined Motorway Communications Cabinets without the need for base seal and pea gravel

MCX Combined Cabinet Plinth should be manufactured from 2mm utility grade 1.4003 stainless steel polyester powder coated to match Motorway Communication cabinets

MCX Combined Cabinet Bases must be supplied with cable gland trays with IP68 glands for all incoming cables. Any unused apertures within the gland tray must be supplied with a nylon blanking plug

MCX Combined Cabinet Bases must to be manufactured with a minimum of 16 louvre air vents with perforated steel mesh fixed internally to irradiate gas and condensation build up

All MCX Combined Cabinet Base components must be linked with 6mm earth cables

Both Plinth and Cable Gland Tray to be manufactured with pre-drilled fixing points for cabinet, castellation bars and earth points to suit ICEE Combined Motorway Communication Cabinets

MCX Combined Cabinet Bases must be supplied with two lockable cable access doors

Single Combined Cabinet sites will be supplied with a single Access Chamber beneath plinth which must be of twin wall construction which has been vertically load tested to EN124 D400 (40 tonnes) – STAKKAbOX™

Multi Combined Cabinet sites will be supplied with a single Access Chamber beneath plinth which must be of twin wall construction which has been vertically load tested to EN124 E600 (60 tonnes). Access chambers must have side walls capable of withstanding 100kn load with a max. Deflection of 38mm. – STAKKAbOX™ Ultima Connect

Access chamber external walls shall have an external rib of width no greater than 15mm, positioned at the bottom of each section, to allow full section depth compaction

Access chamber external walls shall be free from moulding voids that will negatively impact the effectiveness of compaction which should be in accordance with the New Roads and Street Works Act (1991)

Access chambers must have a minimum of 16 100mm duct entry points. These must be supplied with removable caps

Access chambers must not be jointed in the corner or require mechanical fixing to achieve strength

Access chamber sections must be capable of being cut laterally to allow for transitional gradient installations

MCX Combined Cabinet Bases are to be supplied to the above specification by NAL Ltd or any equally approved manufacturer

