![Clipsal logo] **CLIPSAL**®
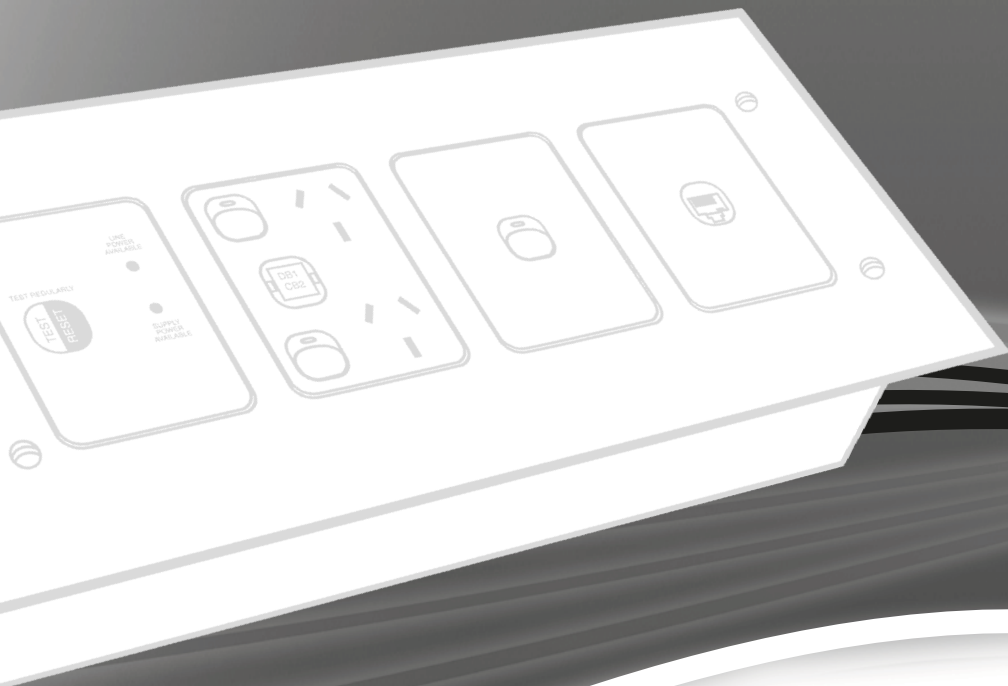
by **Schneider** Electric

**Medilec
Stud Mounted
Flush Solution**

## ML2164
Series

Installation Instructions

# CLIPSAL®

by **Schneider** Electric

**Medilec
Stud Mounted
Flush Solution**

## ML2164
Series

Installation Instructions

# Contents

## **1.0** Product Range

**ML2164**              Stud Mounted Flush Solution

## **2.0** Description

The Clipsal Medilec ML2164 Series is a modular, flush mount, metal plate range of medical service panels, which have been specifically designed for patient treatment areas of hospitals, and medical and dental practices. The system consists of a recessed wall box, grid, 2000 Series accessories and a fascia plate.
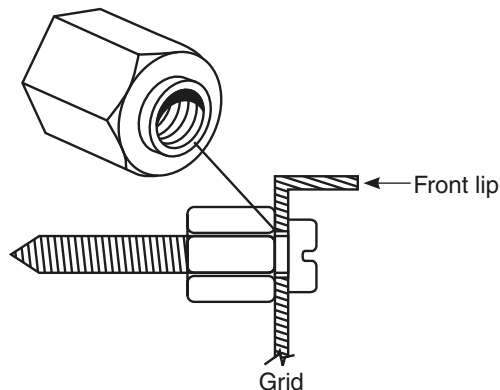
## **3.0** Wall Box Installation

The metal wall box must be mounted within the wall cavity, so that the front face of the wall box is recessed between 0mm to 30mm from the front face of the wall. If required, it is recommended that the Clipsal Medilec segregation barriers be installed prior to the wall box installation.

## **4.0** Grid Installation

The metal grid plate is mounted to the wall box via four height adjustable screws, which are fixed to each corner of the grid. The grid is placed onto the wall box and the height adjuster screws are screwed into the four brackets located in each corner of the wall box.

The grid height is then adjusted so that the front lip of the grid sits between 0mm to 0.5mm below the front face of the wall. Adjusting the height of the grid is carried out by rotating each of the mounting height adjuster screws.

If the screws are not already installed onto the grid, place each of the screws into the 4.5mm holes located in the corners of the grid. The brass nuts are then wound up hard against the head of the screw, making sure that the nuts have been assembled the correct way to allow the screws to freely rotate.

# **5.0** Accessories Installation

Each 2000 Series accessory is installed onto the grid with two screws.

When fixing a 2000 Series accessory to the grid, back the screws off slightly to allow the 2000 Series accessory to move from side to side.

It is recommended that for easier installation, the 2000 Series accessories are mounted to the grid prior to the grid being mounted to the wall box.

# **6.0** Fascia Installation

The fascia is installed to the grid with four countersunk screws. A slight adjustment of the positioning of the accessories may be necessary to align them up with the cut outs within the fascia.

# **7.0** Customising

The standard range of one to four gang components can be customised to extend the length of the medical service panel to suit the customer's requirements. Segregation can also be added within each wall box to allow different services to be mounted within the one wall box.

Customised medical service panels will typically be supplied fully assembled from Clipsal, but it is possible for the customer to purchase components, enabling them to configure it themselves.

## **7.1** Segregation Installation

The segregation is made of two metal plates. One segregation plate is riveted into the wall box and the other is riveted to the bottom of the grid. Pre-punched 3.3mm holes are in the segregation plates, wall boxes and grids, making it easy to locate and rivet these items together.

## **7.2** Wall Box Joining Tray Installation

Cut the wall box joining tray to the required length. Place the wall boxes onto the U-shape wall box joining tray and rivet both items together (after aligning the 4.1mm holes in the rear of the wall box with the 4.1mm holes on the joining tray).

It is critical that the positioning of each wall box is recorded, because this information is required to manufacture the custom fascia.

## **7.3** Fascia Mounting Bracket Installation

If long runs of blank panelling are required between two wall boxes, e.g. blank panelling located behind the patient's bed, the options are to:

• mount the blank panel directly to the wall surface, or

• mount the blank panel to the wall box joining tray using fascia mounting brackets.

If fascia mounting brackets are required, then rivet these items to the joining tray (after aligning the 4.1mm holes on the rear of the brackets with the 4.1mm holes on the joining tray).

It is recommended that the fascia mounting brackets be installed prior to the joining tray and wall boxes being installed, into the wall cavity.

It is critical that the positioning of each fascia mounting bracket is recorded, because this information is required to manufacture the custom fascia.

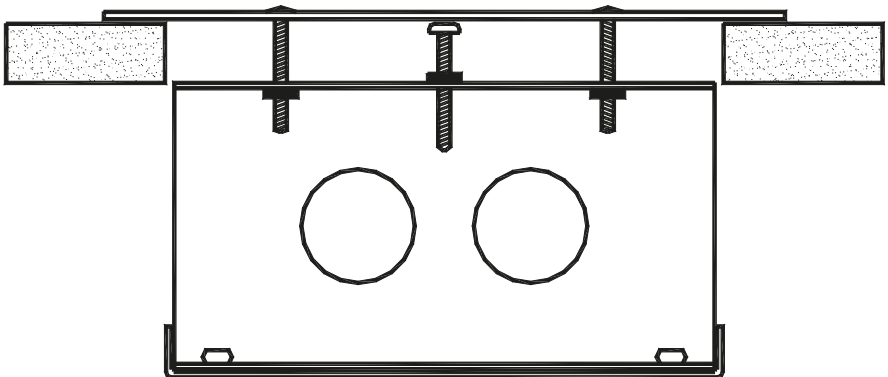# 8.0 Fascia Mounting Bracket

## 8.1 Description

The Clipsal Medilec ML2164FMB fascia mounting brackets are used to fasten lengths of blank fascia to the ML2164 flush mount medical service panel system. Long lengths of blank fascia are typically required above each patient's bed, with the electrical or gas medical service panels fixed to either side.

## 8.2 Installation

If the ML2164FMB mounting brackets are required to be fixed to the ML2164JT joining tray, then rivet these items (after aligning the 4.1mm holes on both the bracket and joining tray). Make sure the bracket is mounted in the correct position, with the upright face of the bracket position next to the adjacent wall box. The maximum spacing between the brackets should be less than 300mm.

Place a screw into the central nut insert of the ML2164FMB bracket and adjust the height of the screw, so that it is level with the finished wall surface which the fascia will sit on. This screw will stop the fascia from bowing inwards if the fascia mounting screws are over tightened.

Screw the fascia to the ML2164FMB with two countersunk mounting screws.

# **9.0** Gas Fascia Mounting Bracket
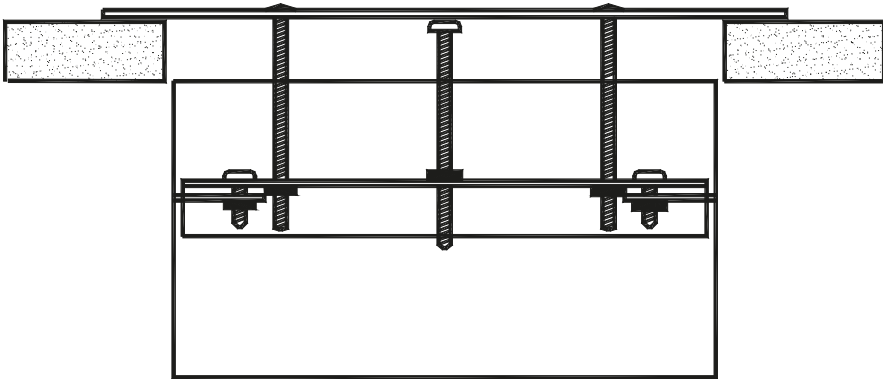
## **9.1** Description

The Clipsal Medilec ML2164GMB gas fascia mounting brackets are used as an adaptor to fix gas fascias to the ML2164 Series wall boxes, or ML2144 Series mounting brackets.

## **9.2** Installation

Fix the ML2164GMB bracket to each end of the ML2164 wall box, or ML2144 mounting bracket, with two screws. Make sure the ML2164GMB brackets are facing the correct way, which is with the central bracket nut insert body facing outwards towards the fascia.

Place a screw into the central nut insert of the ML2164GMB bracket and adjust the height of the screw so that it is level with the finished wall surface, which the fascia will sit on. This screw will stop the fascia from bowing inwards if the fascia mounting screws are over tightened.

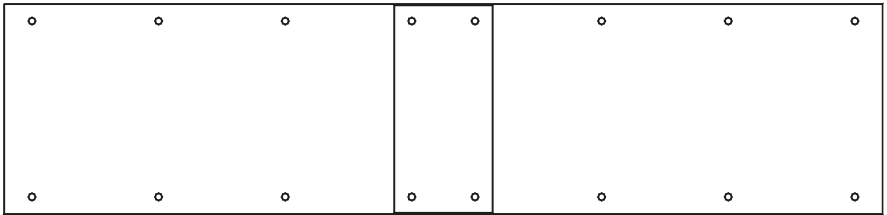Screw fascia to ML2164GMB with four countersunk mounting screws.

# **10.0** Wall Box Joining Plate

## **10.1** Description

The ML2164JP2 wall box joining plate is an economical system used to join a maximum of two ML2164 wall boxes together, to produce a wall box longer than the standard 4 gang box. To join more than two wall boxes together, the ML2164JT joining tray system must be used.
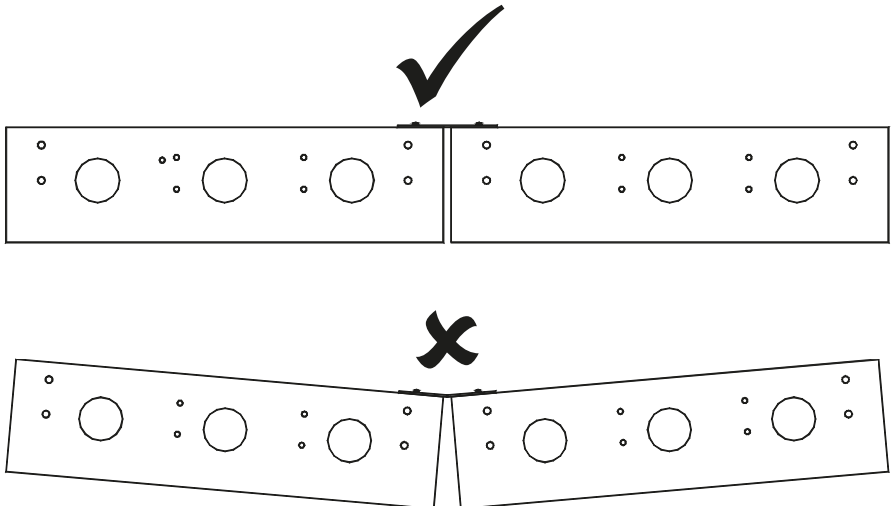
## **10.2** Installation

Lay the wall boxes face down and end to end. Position the joining plate over the join between the boxes, making sure to align the four holes in the plate with the corresponding two holes in each ends of the wall boxes. Place a rivet in each of the four holes.



## **10.3** Wall Box Installation

When installing the wall box assembly within the wall, make sure the two joined wall boxes are kept in line with each other. If they are not, then the gap between the boxes alters and this may effect the fitting of the fascia.

# 11.0 Warranty

The benefits conferred herein are in addition to, and in no way shall be deemed to derogate, either expressly or by implication, any or all other rights and remedies in respect to the Schneider Electric product, which the consumer has in the location where the product is sold.

The warrantor is Schneider Electric with offices worldwide. This Schneider Electric product is guaranteed against faulty workmanship and materials for a period of two (2) years from the date of installation.

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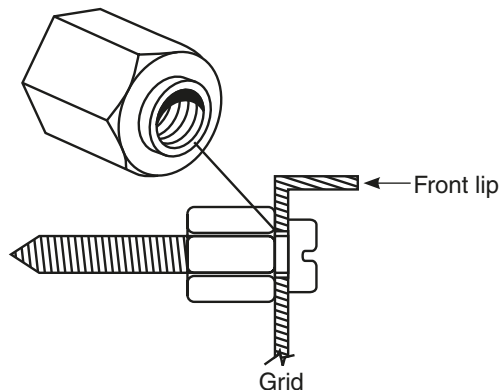
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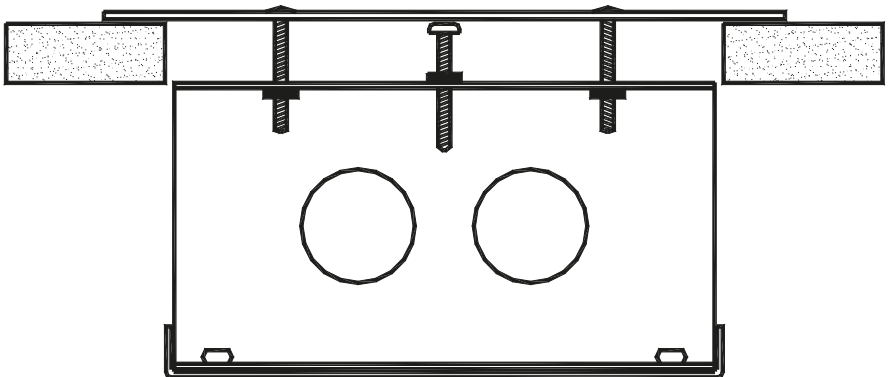## 8.0 Fascia Mounting Bracket

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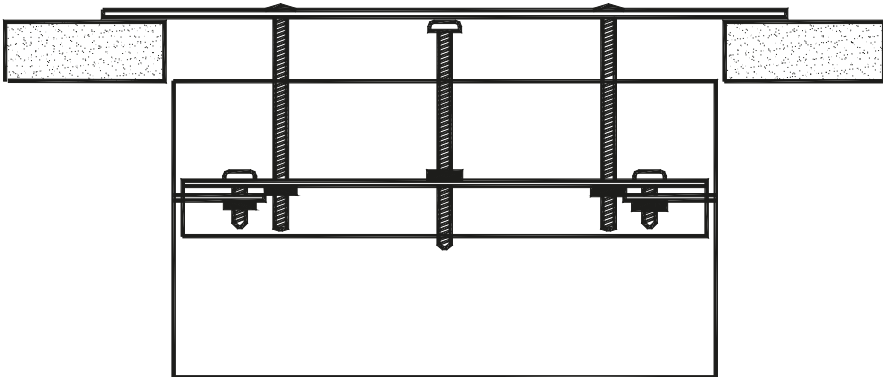
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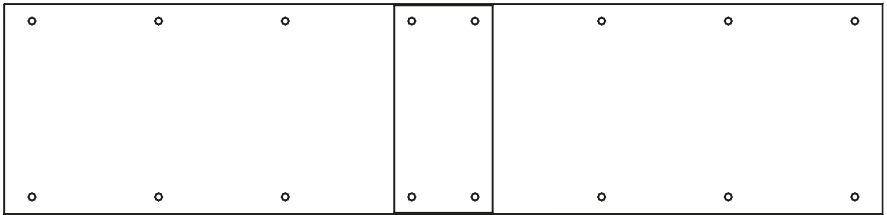Screw fascia to ML2164GMB with four countersunk mounting screws.

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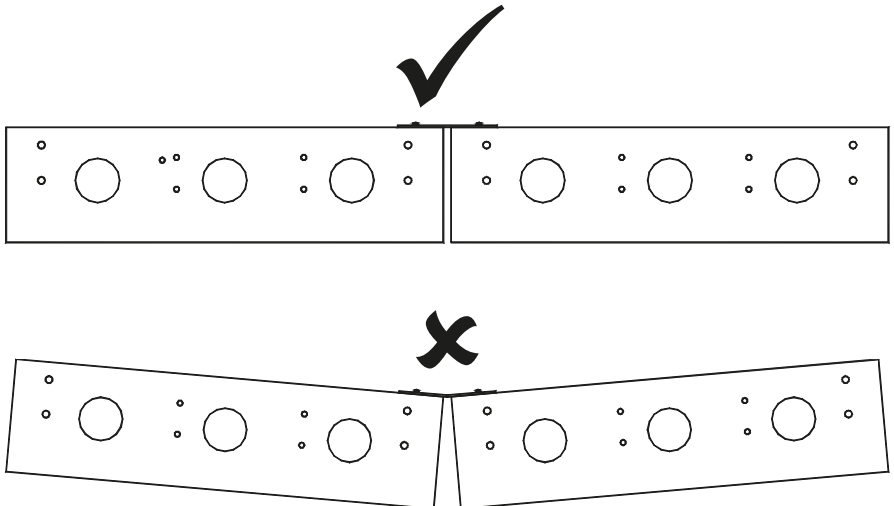
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Lay the wall boxes face down and end to end. Position the joining plate over the join between the boxes, making sure to align the four holes in the plate with the corresponding two holes in each ends of the wall boxes. Place a rivet in each of the four holes.

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