esco medicon

# MEDICAL SERVICE PANELS

SERVICE PANELS


# ALPHAMax

AlphaMax provides an elegant and simple flush mounted system for integrating a variety of services into one recessed mounted panel. Easy to install, use and maintain.

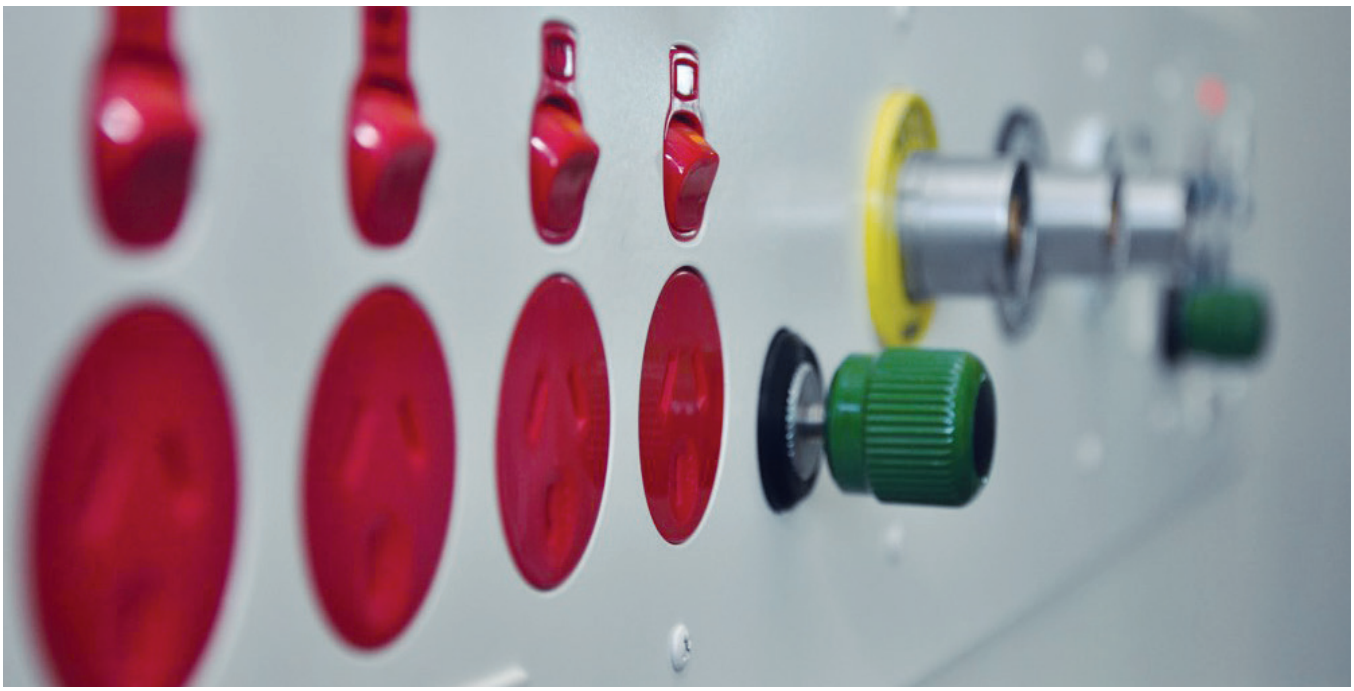
## Standard features:

- Installed after wall sheeting, not before.
- Can be either standalone panels or a continuous wall to wall system.
- Requires no adjustment of outlet height due to variations in wall board thickness.
- The system can be 'sealed' for use in pressurised isolation rooms.
- Requires only one readily removable face plate to cover a group of dissimilar outlets (e.g. Power, Data, Medical Gas). This face plate can be removed without compromising the physical segregation of services.
- The face plates can be supplied in either brushed stainless steel or powder coated in desired colour.
- The system has a minimum number of vertical face plate joints in a wall to wall system and a minimum number of face plate screws.
- The face plates are only 5mm deep with formed edges providing a tight seal against the plasterboard.

## Medical Service Panels complete with ESCO accessories

All ESCO Medical Service Panels come completely loaded and pre-wired with the ESCO range of electrical components (including but not limited to residual current devices, audible visual alarm monitors, switched socket outlets, light switches, power available neons) as well as provision to mount our market leading range of ESCO medical gas terminal units as well as data, nurse call and other products. ESCO components comply to all relevant standards including ASNZS3000, ASNZS3003 and AS2896.

ESCO understands that 'standard' solutions aren't always suitable for patient treatment areas, so our in-house and local team of experts work closely with our clients to customise designs to suit all applications and requirements.



SERVICE PANELS

## Quick & easy to install

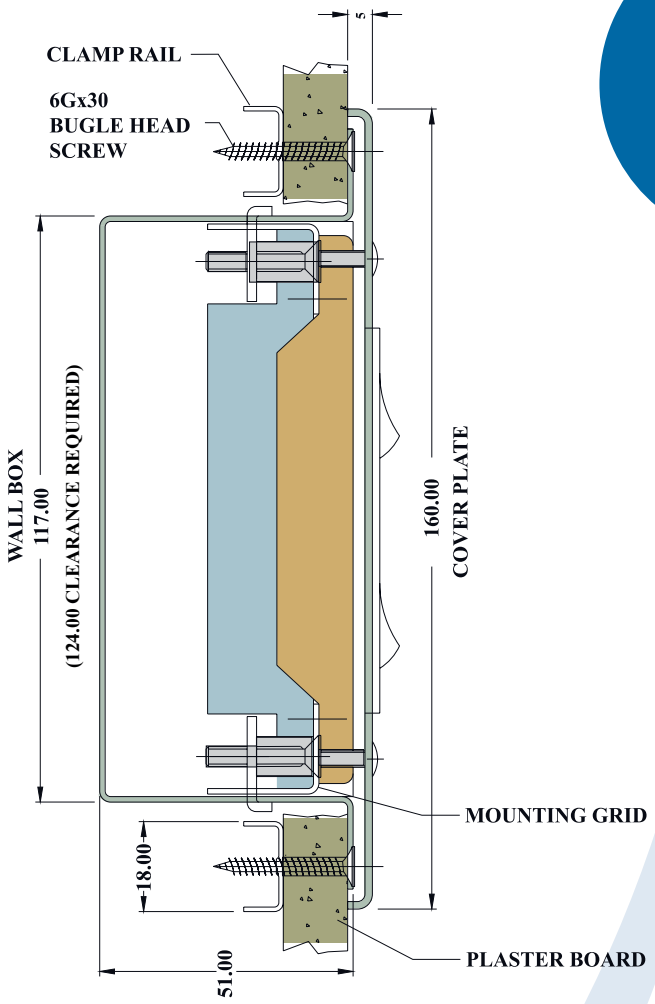
AlphaMax boxes are installed after the walls have been sheeted and are held firmly in position by sandwiching the top and bottom edges of the plasterboard cut out between the wall box flanges and two continuous clamp rails on the back side of the plasterboard.

All of the service outlets are fixed to metal grids (mounting grid) which in turn is fastened within the wall box. The AlphaMax system is completed by fitting the very shallow edge face plate over the service outlets and the box flanges providing a neat, tidy and uniform finish.

## Planning and preparation

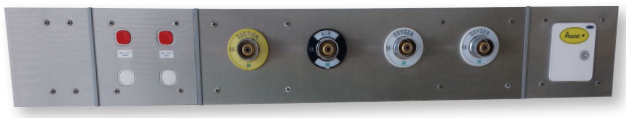
The layout and hole cutting is simple and requires a horizontal centreline to be marked firstly on the wall surface. Using the metal template (available upon request), the wall box cut outs are marked and holes drilled to secure the wall box.

If the services outlet panels are positioned over wall studs, these studs will have to be partially cut away. However, pre-planning of the wall framing can avoid this situation and is a must if back-to-back mounting of the panels is required.



# Alpha

"Alpha" is a system developed by ESCO to quickly and easily mount a variety of electrical outlets and controls in attractive 120mm high modular Medical Service Panels. With this system, items such as ESCO's general purpose outlets (GPO's), residual current devices (RCD's), data/comms sockets, nurse call and medical gas outlets may be placed side by side in one enclosure while still maintaining segregation where required.

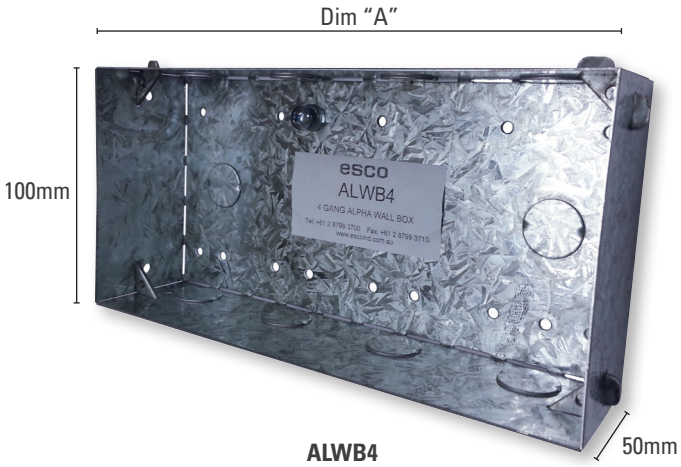


## Modular Wall Box

"Alpha" wall boxes are manufactured from galvanised steel and are fitted with adjustable depth component mounting grids to suit various thicknesses of wall cladding or render. Knockouts are provided in each module together with provision for fitting segregation plates between modules if required. In some health care facilities it may be desirable to group different services such as power, data, medical gases etc side by side but with individual face plates.

With both "Alpha" and "Beta" systems, this may be accomplished by strapping standard wall boxes together so that the related face plates abut one another with only the addition of a 5mm wide trim strip in between. Apart from the advantage of maintaining accurate spacing, the formed metal strips also hold the individual boxes in a straight line during wall installation.

| Cat No. | No. of modules | Dim "A" (mm) |
|---|---|---|
| ALWB1 | 1 | 50 |
| ALWB2 | 2 | 100 |
| ALWB3 | 3 | 150 |
| ALWB4 | 4 | 200 |
| ALWB5 | 5 | 250 |
| ALWB6 | 6 | 300 |
| ALWB7 | 7 | 350 |
| ALWB8 | 8 | 400 |
| ALWB9 | 9 | 450 |
| ALWB10 | 10 | 500 |




**ALWB4**

## Component Mounting

To facilitate the mounting of equipment in the wall box, unique adjustable depth grids are provided in the top and bottom of the box. This method of mounting equipment to the box and not the metal face plate provides not only safety for maintenance staff, but a simple and effective way of adjusting equipment depth relative to the finished wall surface for the initial installer. For dissimilar services, segregation plates can be readily fitted to the wall box between any modules.

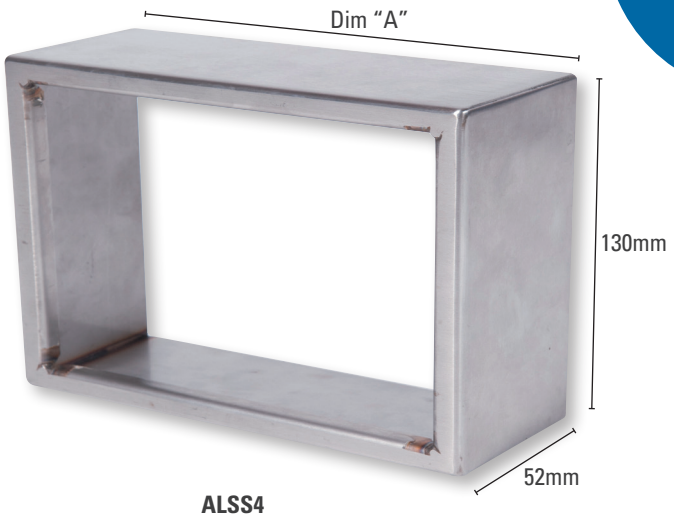

## Surface Mounting

While the majority of new installations are flush within the walls, many existing buildings may find it more practical to surface mount such equipment. For this purpose, a full range of stainless steel surface mounting surrounds are available from stock to suit "Alpha" wall boxes. These items fit over the surface mounted wall box and are held in place by the face plate. They are also available in powder coat finish.



### Surrounds

| Cat No. | Suits Wall Box | No. of modules | Dim "A" (mm) |
|---|---|---|---|
| ALSS1 | ALWB1 | 1 | 80 |
| ALSS2 | ALWB2 | 2 | 130 |
| ALSS3 | ALWB3 | 3 | 180 |
| ALSS4 | ALWB4 | 4 | 230 |
| ALSS5 | ALWB5 | 5 | 280 |
| ALSS6 | ALWB6 | 6 | 330 |
| ALSS7 | ALWB7 | 7 | 380 |
| ALSS8 | ALWB8 | 8 | 430 |
| ALSS9 | ALWB9 | 9 | 480 |
| ALSS10 | ALWB10 | 10 | 530 |



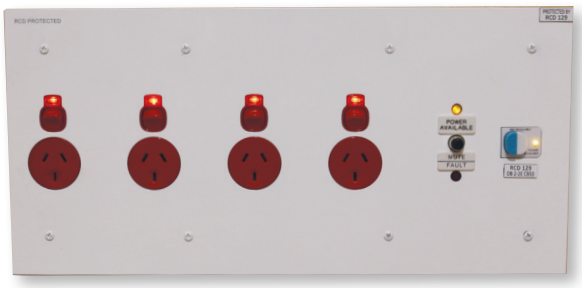

**ALSS4**

## Surface mounting service entry

To provide a convenient and neat method of service entry into these surface panels, a surface duct with clip-on cover is available in 2.4m lengths and varying widths to suit the amount of services feeding the panel. The duct is 25mm deep and is available in widths of 50, 75, 100, 125, 150 and 175mm.

# Beta

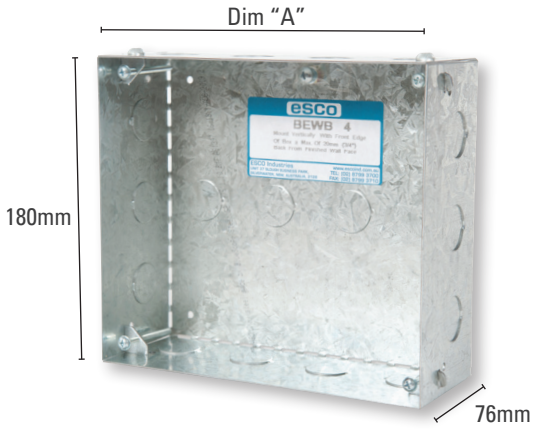
"Beta" is a system similar to "Alpha" but providing that extra space required in many situations by way of a 200mm high face plate and 76mm deep wall box. Electrical components are mounted on a one piece adjustable height metal grid plate. Medical gas outlets can also be catered for by being fixed directly to the face panel, which, in turn, is attached to the standard wall box via an adaptor plate.




## Modular Wall Box

"Beta" wall boxes are manufactured from galvanised steel and have a provision for fixing and adjusting a component grid or gas adaptor plate. An ample number of knockouts are provided which provide holes for conduits or cables. In some health care facilities it may be desirable to group different services such as power, data, medical gases etc side by side but with individual face plates. With both "Alpha" and "Beta" systems, this may be accomplished by strapping standard wall boxes together so that the related face plates abut one another with only the addition of a 5mm wide trim strip in between. Apart from the advantage of maintaining accurate spacing, the formed metal strips also hold the individual boxes in a straight line during wall installation

| Cat No. | No. of modules | Dim "A" (mm) |
|---|---|---|
| BEWB2 | 2 | 100 |
| BEWB3 | 3 | 150 |
| BEWB4 | 4 | 200 |
| BEWB5 | 5 | 250 |
| BEWB6 | 6 | 300 |
| BEWB7 | 7 | 350 |
| BEWB8 | 8 | 400 |
| BEWB9 | 9 | 450 |
| BEWB10 | 10 | 500 |
| BEWB11 | 11 | 550 |
| BEWB12 | 12 | 600 |
| BEWB13 | 13 | 650 |
| BEWB14 | 14 | 700 |




**BEWB4**

## Component Mounting

The "Beta" system has, for maintenance safety and convenience, an earthed metal grid plate to which all components are mounted. This grid plate, while being screw adjustable in height to suit varying plaster or render thicknesses, is readily removed from the wall box during installation or maintenance simply by releasing a retainer clip in each corner. This operation does not alter the adjusted height of the grid on replacement. Standard grid plates, suitable for the majority of applications, are stocked in sizes to suit the full range of "Beta" wall boxes.

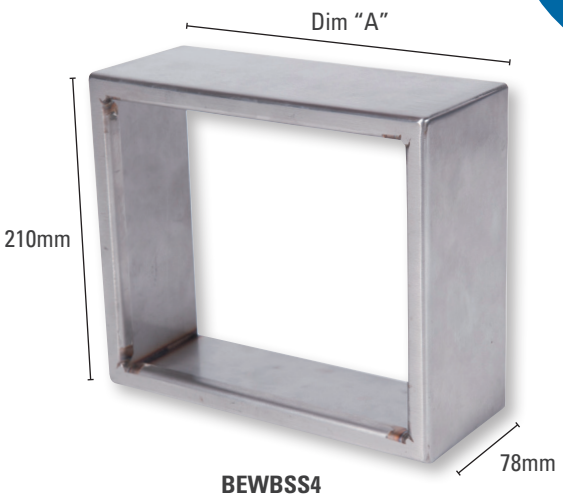

## Surface Mounting

While the majority of new installations are flush within the walls, many existing buildings may find it more practical to surface mount such equipment. For this purpose, a full range of stainless steel surface mounting surrounds are available from stock to suit "Beta" wall boxes. These items fit over the surface mounted wall box and are held in place by the face plate. They are also available in powder coat finish.



### Surrounds

| Cat No. | Suits Wall Box | No. of modules | Dim "A" (mm) |
|---|---|---|---|
| BEWBSS2 | BEWB2 | 2 | 130 |
| BEWBSS3 | BEWB3 | 3 | 180 |
| BEWBSS4 | BEWB4 | 4 | 230 |
| BEWBSS5 | BEWB5 | 5 | 280 |
| BEWBSS6 | BEWB6 | 6 | 330 |
| BEWBSS7 | BEWB7 | 7 | 380 |
| BEWBSS8 | BEWB8 | 8 | 430 |
| BEWBSS9 | BEWB9 | 9 | 480 |
| BEWBSS10 | BEWB10 | 10 | 530 |
| BEWBSS11 | BEWB11 | 11 | 580 |
| BEWBSS12 | BEWB12 | 12 | 630 |
| BEWBSS13 | BEWB13 | 13 | 680 |
| BEWBSS14 | BEWB14 | 14 | 730 |



BEWBSS4

## Surface mounting service entry

To provide a convenient and neat method of service entry into these surface panels, a surface duct with clip-on cover is available in 2.4m lengths and varying widths to suit the amount of services feeding the panel. The duct is 25mm deep and is available in widths of 50, 75, 100, 125, 150 and 175mm.

# Max 50

The “Max 50” horizontal multi service outlet system has been developed by ESCO for low to medium dependency patient rooms. With its clean lines and small profile, it has been quickly accepted by architects and nursing staff alike in both small and large health care facilities. The duct body is 170mm high x 70mm deep with a 130mm face plate.


## Modular in design

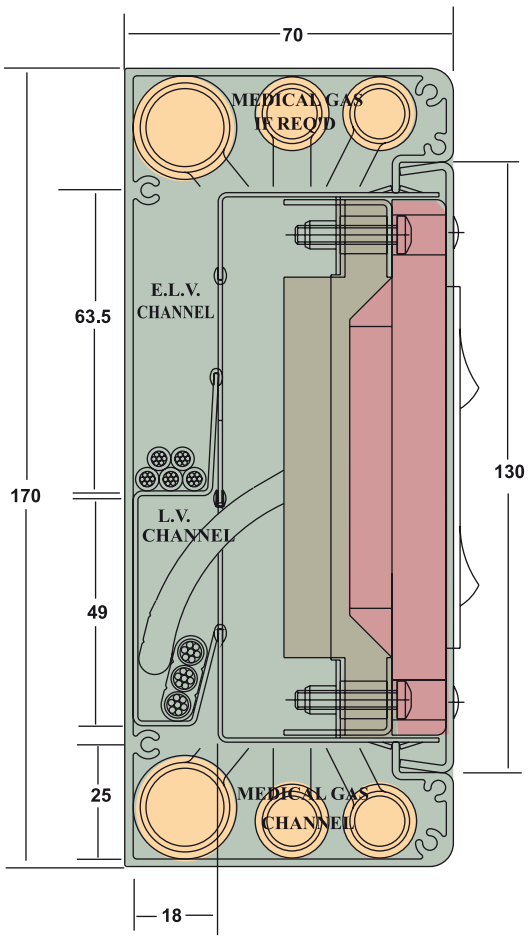
Due to the modular design, metal equipment boxes can be positioned anywhere along the length of the powder coated extruded aluminium duct body providing segregation between power, data and medical gas service outlets. The supply cable and pipes passing behind, above or below the equipment boxes.

To further facilitate site installation, all of the service outlets are, or can be, factory piped or wired to specified positions along the length of the ducting.

## Aesthetically pleasing

The covers which may be either brushed stainless steel or powder coated aluminium, are such that only one cover may be necessary for a whole group of mixed outlets reducing the number of cover joints and securing screws to a bare minimum.

The system is so designed that even when a mixed service outlet cover is removed, electrical safety is maintained for other trades working on the system.



# Med 100

The “Med 100” horizontal multi service outlet system offers the added capacity for the multitude of services in intensive care areas. Based on the popular 200mm high ESCO “Beta” series of outlet panels, the duct body is 210mm high x 110mm deep with a 200mm face plate.

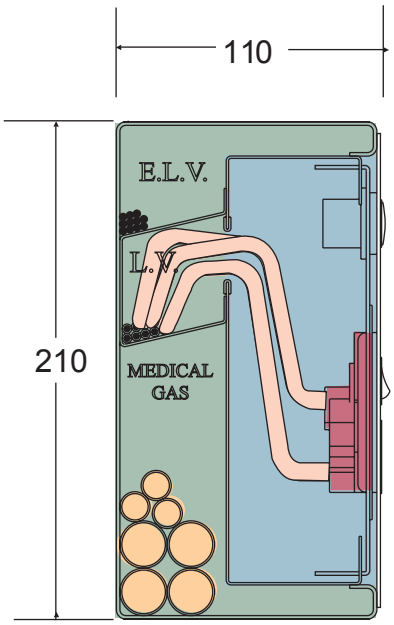


## Unique and simple to install

All electrical components are mounted on metal grid plates for safety and these in turn are fixed to segregated equipment boxes clipped into the body of the duct.

All gas outlet and infill plates are retained by unique clamp rails which are fixed and tightened by captive stainless steel fastenings that require only several turns with a Phillips head screwdriver.

To further facilitate site installation, all of the service outlets are, or can be, factory piped or wired to specified positions along the length of the ducting.




Medicon 100

# Med 50

Based on the popular 120mm high single row ESCO “Alpha” series of outlet panels, the “Med 50” system offers the safety and advantages of independently mounted electrical accessories mounted alongside gas outlet panels. The duct body is 130mm high x 80mm deep with a 120mm face plate.


## Segregate with ease

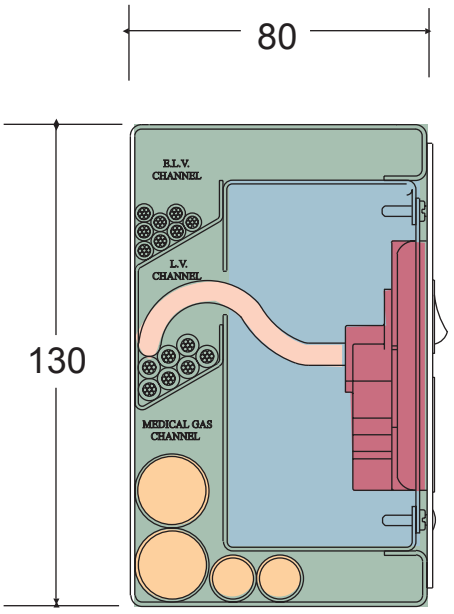
Services for both these type of outlet panels are channelled through the body of the duct in segregated compartments and terminate either in clip-in metal box for electrical services or directly in the common area of the duct in the case of gas services.

Segregation is maintained at all times between these services. In between adjacent outlet panels, aluminium tee bars are clipped in while removable infill plates are fitted in areas without outlets.

All of these components are readily mounted anywhere along the length of the duct body and are quickly removed for maintenance or future additions.

The duct body is of extruded aluminium and the clip in type outlet plates and infill panels are of sheet aluminium, both finished in polyester powder coat.

To further facilitate site installation, all of the service outlets are, or can be, factory piped or wired to specified positions along the length of the ducting.



# LM 50

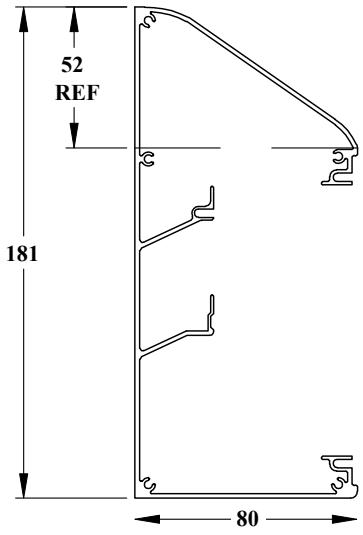
The LM50 solution is similar to the popular Med 50 duct profile, but with one difference, the architectural sloping top, making this profile very popular in education science rooms, physical containment laboratories (PC-3 & PC-4) and medical research / pathology laboratories.



## Installation and segregation has never been easier

The LM50 duct enjoys a range of standard products to assist with the installation including louvre plates for mounting directly to the top profile as well as louvre stop ends for decontamination cleaning, factory formed and assembled ninety (90) degree internal/external corners and low voltage (LV) and extra low voltage (ELV) electrical accessory kits which accept the ESCO range of electrical accessories. These accessory kits which are available in 'clip on' or 'screw fixed' finishes are supplied complete with clip-in metal boxes to terminate within and can be readily positioned along the length of the profile(s) offering and maintaining full segregation between services (LV, ELV, Gases).

Please note that some types of laboratory gases are required to be reticulated within their own enclosed duct profile. In these situations, the Med 50 duct profile fits perfectly under the LM50 profile and ESCO can crimp the two profiles together and supply as a complete assembly.



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