

# Energylight 150V

Vertical Electrical Trunking For Patient Rooms

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## CUSTOMISABLE VERTICAL TRUNKING FOR THE HEALTHCARE INDUSTRY

Electrical outlets in hospitals are critical to functionality in patient rooms. Developed locally in New Zealand through collaboration with Canterbury District Health Board and health engineering consultants, Energylight 150V has arrived.

The specified aluminium extrusion product uses vertical mounting to ensure effective use of space and safety in accordance with legislation. It is important to check AS/NZS 3003, "Electrical installations - patient treatment areas of hospitals, medical and dental practices" and AS/NZS 3190, "Approval and test specifications for residual current devices".

*Energylight 150V trunking installed in Christchurch Hospital's Child Hematology Oncology Centre*



# Energylight 150V

Vertical Electrical Trunking For Patient Rooms

## BENEFITS & FEATURES:



Customisable height for vertical trunking in line with needs of hospital



Meets electrical and test standards respectively: AS/NZS 3190 and AS/NZS 3003



Ease of use for doctors, nurses and patients



\*Antimicrobial powder coated, making it easy to clean and maintain a clinically germ-free environment



Light-weight design (3.3kg per metre)



Supplied with earth wires for quick installation onsite



Built using locally sourced aluminium



10-year warranty



Utilises unoccupied space between ceiling and floor



Keeps different outlet services separate and well-located for the patient and the nursing staff



Cost effective installation and ease of future modification



Flexibility for further changes given scope of product platform to work with.

\*Antimicrobial powder coat available and quoted per requirement.





## PLACEMENT ADVANTAGES:

Different bedhead services panels have been trialled over the years across New Zealand including some horizontal systems. The 150V vertical trunking system offers the advantage of being able to be mounted at any distance from the edge of the patient bed allowing for easy access by staff for all services needed.



Image: Example of horizontal trunking in hospital.

## CUSTOMISABLE HEIGHT OPTIONS ALLOWING FOR MINIMUM HEIGHT REQUIREMENTS:

There are several official functional standards around the minimum height of accessories above the floor. Therefore the ability to scope the Energylight 150V by height means the length of the trunking can meet safety requirements for ports at a certain height from the floor. This allows for restriction on any accessories being mounted too low (ie 500mm above floor level) which can be a hazard for patients and personnel.



Image: Low electrical port placement in hospital. Ideally points should be 500mm above floor level.

## MULTI-ACCESSORY USE:

When compared to horizontal mounted systems, the vertical system allows for a higher density of accessories be it electrical power sockets, data outlets or medical gas outlets. The advantage of the Energylight 150V product is that all accessories are within easy reach of the clinical staff when placed vertically.



DATA PORTS



MEDICAL GAS



ELECTRICAL POWER SOCKETS

## COORDINATED SAFETY CABLING:

It is important to note that some services (such as data cabling) should not be installed parallel to electrical wiring for any great distance. This includes Cat6 ethernet cables and above. The unique trunking is made from metal and earthed, which means each service is effectively shielded from the other in different trunking sections.





## INFECTION PREVENTION AND CONTROL:

As the surface of the 150V trunking is power coated smooth with clean lines and no-gaps, it is ideal from a hygiene and antimicrobial perspective in hospitals. The surface is engineered to withstand medical-grade cleaning products used to deep clean patient rooms, with no adverse effects to the system.

*Optional antimicrobial powder coat for projects with higher clinical requirement.*



## UNIFORM TRUNKING ROUTINE AND AESTHETICS:

The Energylight 150V trunking system not only provides a uniform look which can incorporate clinical colour coding (ie: to ports needed for patients and staff use), but also gives confidence to the clinical staff that each service they need is in the same location at each bedhead. This reduces the clinical risk and delay of essential services being connected to in an emergency.

*Image: Shows Energylight 150V vertical trunking providing uniform outlet for patient rooms.*



## FLEXIBILITY IN ADDITIONS AND DELETIONS:

Due to the modular nature of the face plate on the 150V vertical trunking, there is flexibility for the addition or deletion to the quantity of services on the bedhead trunking system.

*Image: Trunking can be extended to the top of the wall just prior to ceiling to allow for any future additions.*

## INSTALLATION PROJECT BENEFITS:

As the Energylight 150V trunking system is mounted on the surface of the wall it is inherently a second fix construction item. This means that the walls can be completed and painted at an earlier stage of the project before the trunking is mounted and therefore reducing the chance of the trunking being damaged during the final commissioning stage.

Accordingly, the services pipework and cabling can be left in the ceiling space, avoiding damage, until the second fix stage.