

# **MWS:** *the wall system by Medepha*

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**MWS** assures an integral support for walls, ceilings, doors and integrated accessories, in accordance with the current industry standard.

**MWS, Medepha Wall System**, is designed, built, commercialized and installed by Medepha.

Preassembled systems represent the optimal alternative to the traditional building technology: they effectively meet diversified needs and project requirements, using hospital solution with significant qualitative benefits and great saving of time.

**MWS** prefabricated systems are the most complete, flexible and effective response to growing specialization of medical disciplines and to staff and patient's needs.





## Different from everyone

**MWS** is a modern concept to guaranty functionality and comfort in hospitals: the variety and flexibility of its modules allow greater freedom in design, fast and accurate installation.

**MWS** prefabricated system is entirely designed and manufactured with a most up to date industrial technology. Each part is preventively sized during planning phase, so that it can be quickly assembled on site. Advanced

production processes and right material choice allow the application in all architectural contexts.

The extremely modular system can be quickly installed and disassembled for any change or maintenance.

The extensive use of **Wall Modular System** allows the renovation of entire hospital wards in a simple and fast way and limiting the investment costs.

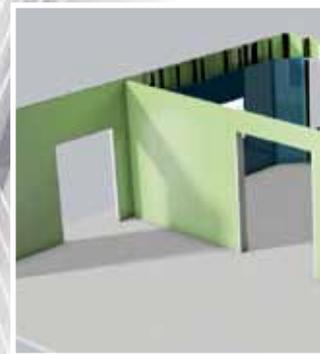


# **MWS:** *speed, flexible, functional.*

The modular system **MWS** is a wall system made up of panels of different materials supported by a modular structure that can be used for many different types in hospital environment.

Thanks to the different types of materials used, painted stainless steel, solid surface material, HPL or even glass panels, the **MWS** system is suitable for use in specialist departments as operating departments, intensive care units, angiography, but also in in-patient departments and in complex departments as laboratories, radiology, radiotherapy. The use of different materials on the same structure also allows using the **MWS** system to form an entire department just by using the most suitable material for each room.

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**MEDEPHA  
WALL SYSTEM**

# Cladding panels.

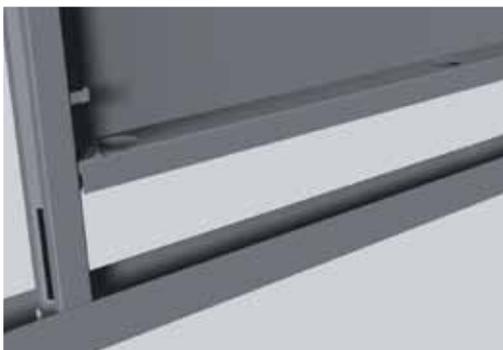
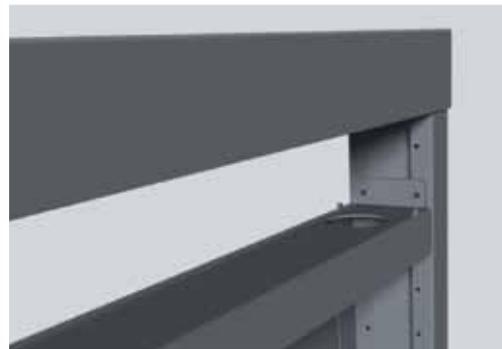
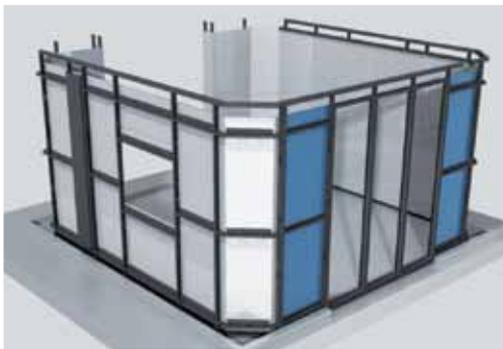
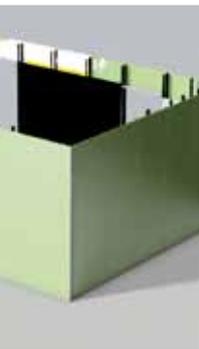
The load-bearing structure of the **MWS** system consists of a series of profiles suitably designed and constructed to allow a fast and precise installation and a strength security over time. The structure components are made of cold-worked galvanized steel sheet.

This characteristic ensures a good rigidity to the structure and a remarkable resistance to oxidizing agents that may be present in the interstices and in the small courtyards of the building structure, such as water, humidity, mould, etc.... The structure is the same for all types of materials available for finishing panels and this ensures, in addition to a rapid interchangeability of the panels also

the possibility of forming an entire department and then using the different panels according to the destination of the premises. For example, an operating room with SSM and HPL laminate in hallway.

The structure has a special geometry which ensures false ceiling support, skirting for the floor, door support, window, pass through, cabinets and any other kind of accessory.

The covering panels usually have a height of 3 metre from the floor and have a width which can vary from a minimum of 300 mm to a maximum of 1200 mm.



- Millimetre perfection
- Solidity and resistance
- Versatility and flexibility
- Passive and active security

The different materials available are:

- Painted stainless steel/Painted Steel
- Solid Mineral Surface on aluminium sandwich
- Laminated glass
- HPL on fireproof MDF support
- Self sanitizing material on aluminium sandwich

# MWS: materials.

## Steel

Panels are available in two kind of steel. stainless AISI 304 or galvanized steel 0,8 mm, painted with bright epoxy polyester powder, having a minimum thickness of 0,08 mm. Panels are folded along the perimeter to create a boxed element and closed at the rear by a galvanized sheet of 0.7 mm. In this way, panel results a closed and perfectly balanced planar element. In order to increase mechanical strength and heat and acoustic insulation of the wall, the inner surface of the panel is provided with a foam polystyrene sheet with a density of 30 Kg/mc and thickness of 15,5 mm, or with a sintered anhydride plate.

## Solid mineral surface

Made by Solid Mineral Surface antibacterial plate with a thickness of 3 mm is a solid and compact material, it isn't porous and has an elevate impact, chemical and fungal and bacterial resistance. It is available in standard sizes and in a wide range of colours. The SMS sheet are glued on a rigid support made with a structural panel thick 15 mm consisting of a trapezoidal aluminium corrugated core glued between two flat of aluminium sheet.





## Laminated glass

Glass is commonly considered the most hygienic and antibacterial material. The glass used in this application is composed by temperate and layered panes, with interposition of a film of cellulose nitrate. Glass structure ensures resistance to breakage and, in case of big collision, fragments of tempered glass remain attached to the film and do not pollute the environment. **MWS** glass panels are usually either coloured in the substrate or left transparent. The coloured panel can be made with any colour or/and with personalized picture. Hook system is the same of the other panels and constitutes the best panels interchangeability system. **MWS** glass panels are safe, washable and sterilizable, antibacterial, anti-mould and respect the environment.

## HPL

It's a panel composed by HPL, High Pressure Laminate (2 mm glued on MDF fireproof panels (15 mm), and a PVC balancing laminate edged on back side. The total thickness is about 18 mm. HPL's hardness and resistance are known since long time and allow easy cleaning with many type of detergent and disinfectant solutions.

## Self sanitizing material

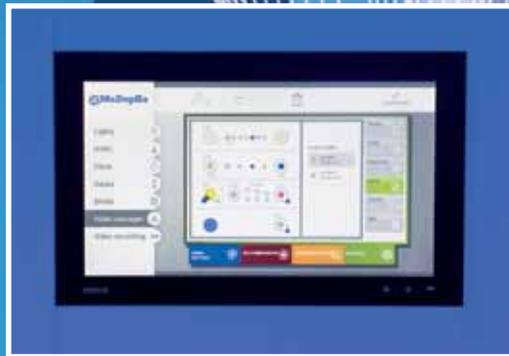
Made by rigid pvc with titanium dioxide in nano structural combination is able to kill and chemically reduce all virus, bacteria and molds. It is available in standard sizes and in a wide range of colours. The self sanitizing sheet are glued on a rigid support made with a structural panel thick 15 mm consisting of a trapezoidal aluminium corrugated core glued between two flat of aluminium sheet.



# *Integrated accessories. Essential complements.*

**MWS** means functionality and additional value for Operating Room and High Intensity Room accessories.

Many components are available to make easy, secure and ergonomic the life in all department for operators and patient.



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The most significant accessories are:

- Recess for electrical and medical gas socket with or without glazed door. Made with SMS material.
- Control panel embedded into the wall. With glazed door, ready for installation of all electrical control.
- Management system for control and setup of all electrical and mechanical function with alarms and speaking facilities.
- Air intake greed made with SMS material, same colour of wall and flat with wall.



- Bright line of multicolour LED to be used as floor or ceiling lighting, intensity and colour adjustable.
- Digital or analogic clock.
- Touch screen monitor, up to 60 inch, flat with wall with water proof keyboard and pad. Connected with hospital network.
- Customized accessories tailor made.



# MWS: open to innovation.

**MWS** doors provide security, reliability and a clear and functional design. Nothing better to get in the Hospital of Tomorrow. Sliding and swing doors and sliding hermetic doors are designed to work in a hospital setting where silence, security and hygiene are fundamental objectives. The system may be automatic or manual and it may be equipped with: vision panels, opening handle, accessories for automatic activation, radar, infrared sensors, proximity sensors, etc.).

The sliding leaf moves horizontally all along the passage opening and, when it is almost closed, it automatically operates a lowering and a translation movement at the same time in order to move closer to the floor and to the strikers on the wall intrados. The automatism is provided with a specific software to separately and independently manage the lowering and the translation phases when closing or opening as far as power and speed are concerned. Tightness is ensured by means of expanded EPDM sealing strips assembled on the aluminium profiles covering the whole perimeter of the leaf. The lowering and translation movement allow the sealing strips to compress on the strikers thus providing hermetic tightness. Panel door is available with the Same Operating room finishing.

## ACCESSORIES

*Coplanar vision window of different dimensions. Available with X-Ray shielding glass for X-Ray rooms. Embedded, external or leverage handles for manual opening. Proximity, active infrared, microwave, etc. sensors to be differently activated presence, hand, elbow, etc.. Safety sensors such as photocells, presence sensors, etc. Mechanical or digital control selectors with programming and event display functions. Keystroke badge readers to control accesses.*





## MWS ceilings. Top perfection.

The metal false ceiling is the top of the system. It is composed by metallic panels snap applied to a 600 mm grid of raw galvanized steel, triangular cross-section, elements. Panels are sealed to the structure on the lateral side with a PVC black adhesive gasket, which acts

as a barrier to dust. While on the perimeter of ceilings rooms profiles are used as gaskets. **MWS** ceiling allow to disassemble each panels, to permit the access in each part of the ceiling and a flexible positioning of recessed lighting structures.





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