



Modular MED Solutions (Pvt) Ltd.

Pakistan first glass Operation Theatre Manufacturer

Contact Us

Sajjad Saeed (C.E.O) : +92 322 4498238

Abdul Razzaq (Managing Director) : +92 333 5173034

**LOCAL MODULAR
OPERATION THEATRE
MANUFACTURE.**



COMPANY PROFILE

Modular Med is a leading local modular theatre manufacturer based in Pakistan. We specialize in creating innovative and customizable theatre solutions that incorporate colored glass and GI powder coated wall panel. With our expertise and commitment to quality, we aim to revolutionize the way theatres are designed and constructed as international standards.



Our Products and Services:

Modular Theatre Systems: We offer a range of modular theatre systems that are designed to enhance the overall experience for both medical and health services. These systems are customizable and can be tailored to meet the specific requirements of our clients.

Colored Glass Panel:

Glass is a strong and durable material that can withstand high impact and is resistant to scratches. It provides better visibility and clarity, glass is non-porous and easy to clean, making it more hygienic in a hospital setting. It is less likely to harbor bacteria or other pathogens. Glass is a long-lasting material that is resistant to fading, discoloration, or degradation over time. It can withstand repeated cleaning and sterilization procedures. Our colored glass panels bring vibrancy and visual appeal to theatre spaces. We use high-quality UV Ceramic materials to create stunning and unique designs that add a touch of elegance to any theatre.

GI Powder Coating:

Our GI powder coated designs provide durability and protection against corrosion. This coating technique ensures that the theatre systems are long-lasting and able to withstand the rigors of daily use.

Customization:

We understand that each theatre project is unique, and we offer customization options to meet the specific needs of our clients. Our team of skilled professionals works closely with clients to create tailored solutions that align with their vision and requirements.

Why Choose Modular Meds?

Innovation: We strive to bring innovation to the medical industry by introducing modular systems and unique designs that enhance the overall experience.

Quality: At Modular Med, we prioritize quality in every aspect of our products and services. We use high-quality materials and employ rigorous quality control measures to ensure that our clients receive top-notch products.

Local Manufacturing: As a local manufacturer, we are committed to supporting the growth and development of the Pakistani economy. By choosing Modular Med, clients contribute to the promotion of local industries.

Expertise: With years of experience in the medical field, our team of skilled professionals possesses the knowledge and expertise to deliver exceptional results. We work closely with clients to understand their needs and provide tailored solutions.

Experience the difference that Modular Med can make in creating captivating and immersive theatrical spaces.

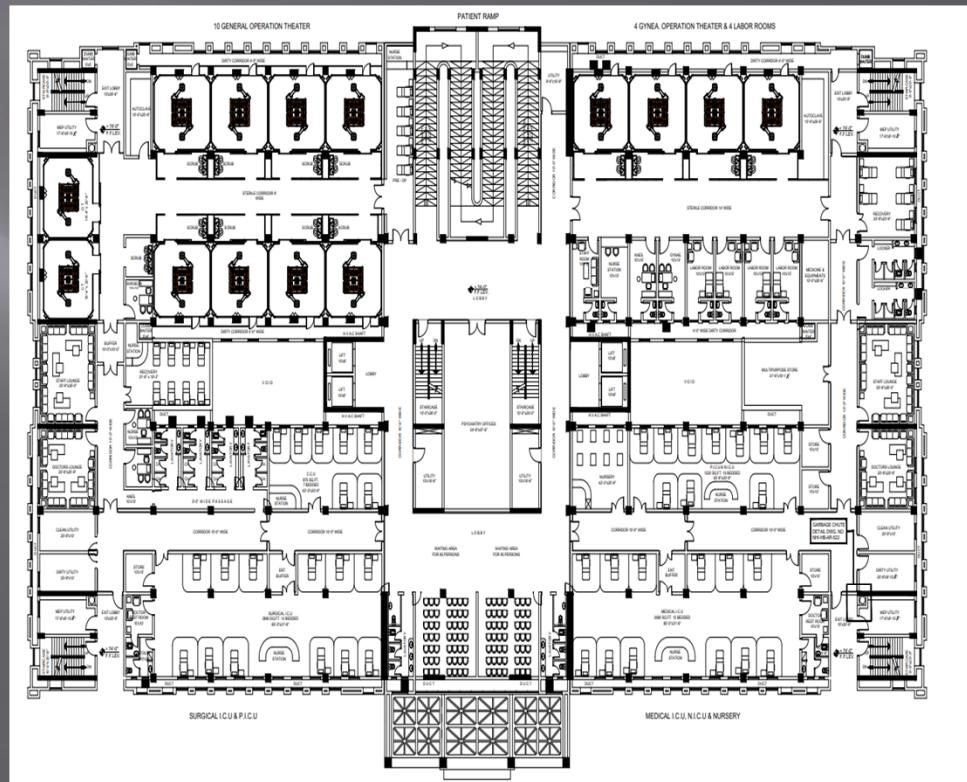
Important Design Parameters

- Planning (Design / Sizing)?
- 3D / Aesthetics?
- Modules Installation?
- Hygiene?
- Integration?

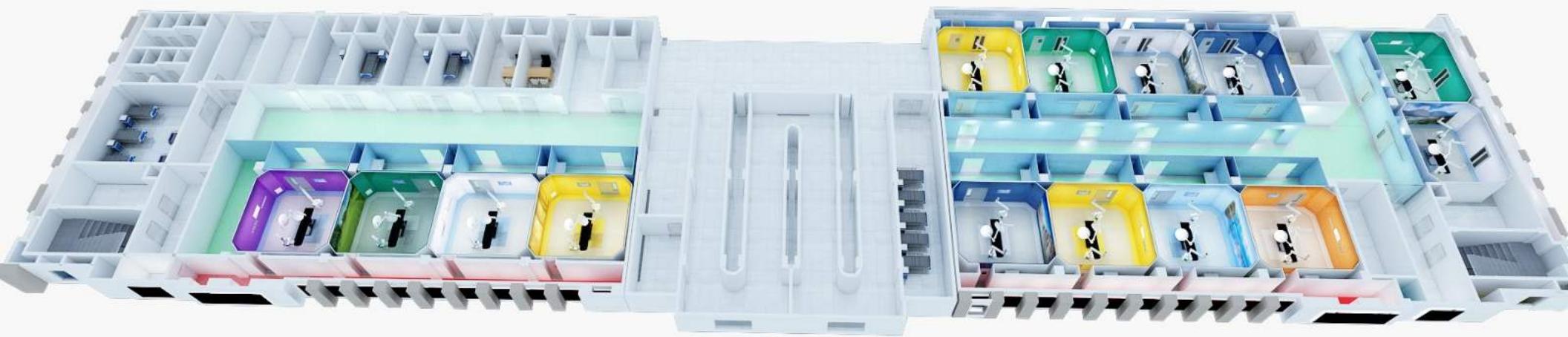
**Hygiene Standards
dictate and address
Function and
Integration**

Planning & Design of Modular OT

Naval Proposed Drawing.dwg



3D / Aesthetics



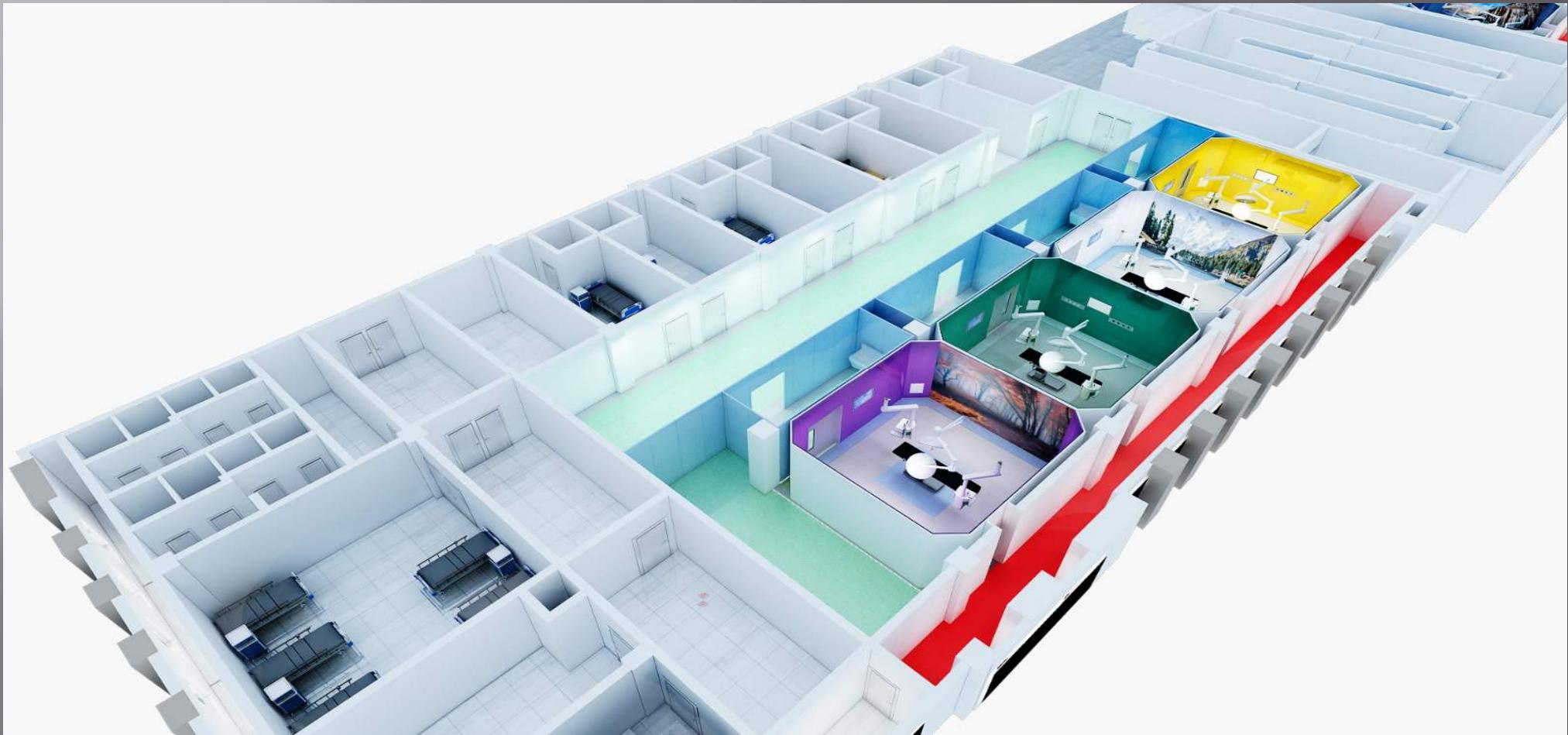
General Theaters



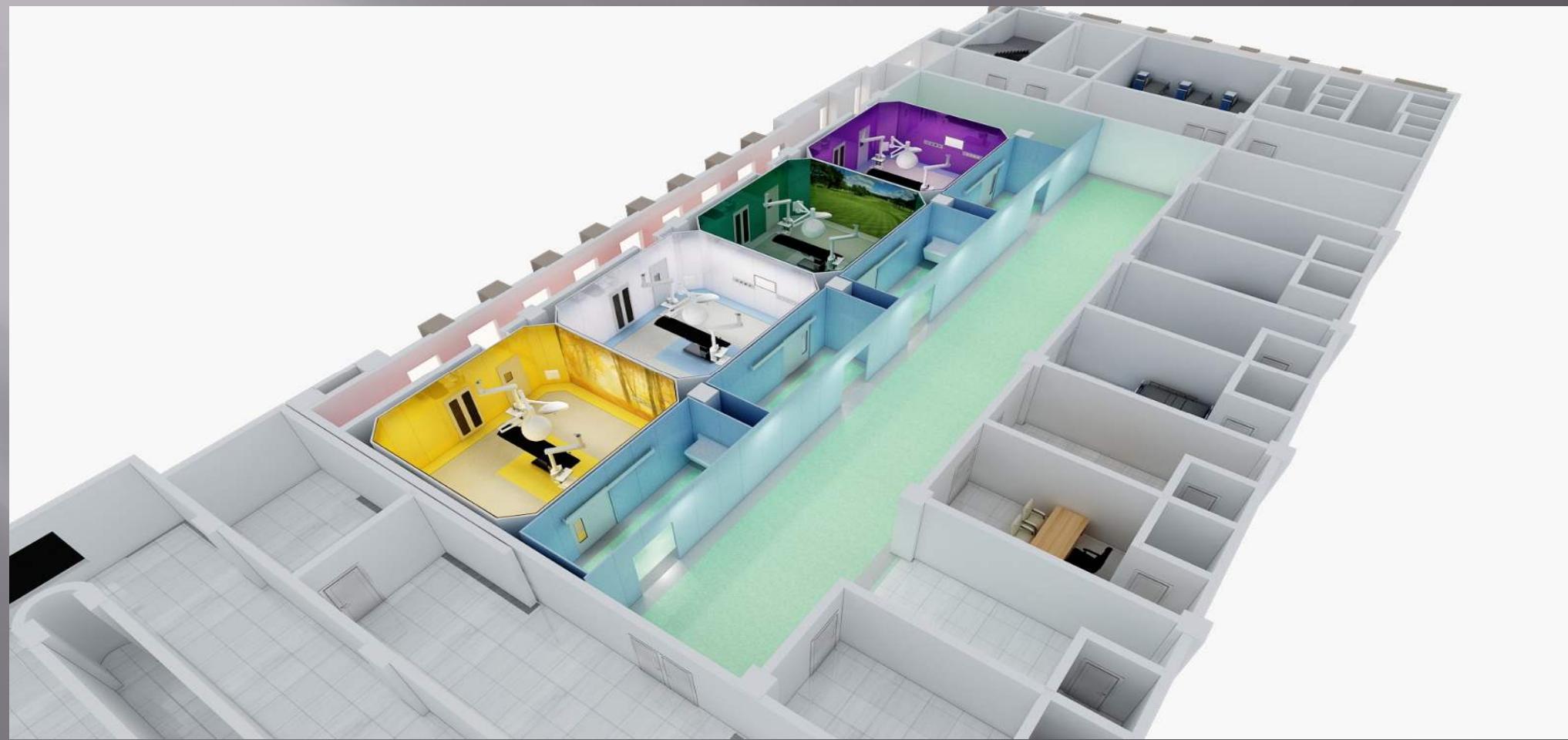
General Theaters



Gynae Theaters



Gynae Theaters



Theater Inside View



Theater Inside View



Modules

Laminar Flow System



Wall Panels

- Tempered Glass panels provide **good aesthetics**, and pleasant work environment. **Graphics are added** according to architects design/proposal. Glass is **resistant to Bacteria and Cleaning Chemicals**.
- S.S / M.S powder coated Panels has **high mechanical strength and corrosion resistance**. Its non-porous surface is **easy to clean** are highly recommended for scrub and clean corridor areas.





GLASS PANELS

Thanks to our very deep studies about the glass physical properties we have find two different solutions to answer to several customer requests.

The first solution panels are made by toughened back-painted glass panels 8 mm thick with aluminum perimeter frame dim. 40x10 mm and 2 mm thick, glued on the back of the glass with a specially formulated single component adhesive. This kind of glass panels are heat strengthened and thermally toughened.

The colored glass panel is obtained by the application of ceramic paint on a glass substrate. Through the toughening process the glass panels become very strong and resistant to shocks, chipping and scratches. The second solution panels are made by two materials:

Glass and corrugated aluminum back-panels glued together. Both the said solutions reach our strict high-specs resistance, stability and durability requirements. The glass, between all the specifically chosen materials for O.R. paneling, is one of the best material for the following reasons:

- Easier to clean;
- 99,99% (log 4) bacterial activity reduction through O.R. standard cleaning procedure;
- Green and 100% recyclable;
- Long lasting material;
- Bump and scratch free;
- No restoration or re-painting needed life-long;
- Non-combustible mineral.

Glass panels are available with decorative motifs to guarantee highly aesthetic results.



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Modular Med takes pride in being a local manufacturer, supporting the growth and development of the Pakistani economy. By choosing our modular theatre solutions, you not only receive exceptional quality but also contribute to the promotion of local industries.

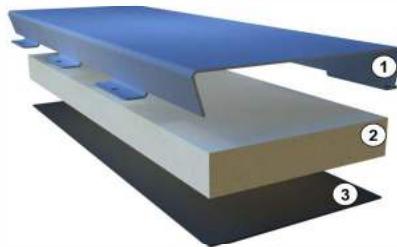


WALL PANELS METAL

1. Stainless steel / Galvanized steel

2. Plaster board

3. Lead sheets (optional)



Characteristics

Microscopic flat and free of pores, resistant against living organism and chemical

Technical data

Material (surface)	stainless steel (material no. 1.4301)	galvanized steel
Material (core)	12 mm plaster board	12 mm plaster board
Surface	ground to grain size 2	prepainted white
Color (powder-coated)	powder-coated white RAL 9010	powder-coated white RAL 9010
Color (standard)	to color chart	to color chart
Radiation protection (without lead)	0.29 mm Pb at 100 KV and 150 KV	0.29 mm Pb at 100 KV and 150 KV

Dimensions

Panel width	max. 1190 mm
Panel height	according to ceiling height
Panel thickness	approx 18 mm

Properties

Wall panel	approx 18 mm, consisting of 1 mm stainless steel / galvanized steel and 12 mm plaster board
X-ray protection	1 - 2 mm lead sheets; glued onto the back side of plaster board
Loading capacity	600Nm (60kg/m ²) - without additional crossbeams

Metal wall panels are a popular choice for hospitals due to their durability, ease of installation, and low maintenance requirements. They offer a clean and modern aesthetic while also providing a hygienic and sterile environment.

Here are some key details to consider when using metal wall panels in hospital settings:

Material:

Stainless steel is the most common material used for metal wall panels in hospitals. It is corrosion-resistant, easy to clean, and has antimicrobial properties.

Finish:

The panels should have a smooth and non-porous finish to prevent the accumulation of dirt, bacteria, or other contaminants. A brushed or satin finish is often preferred as it reduces glare and fingerprints.

Thickness:

The thickness of the metal panels will depend on the specific requirements of the hospital. Thicker panels offer better impact resistance and durability.

Fire resistance:

Metal wall panels should meet fire resistance codes and regulations. They should have a fire rating that complies with the local building codes.

Sound insulation:

Hospitals require a quiet environment, and metal wall panels can help with sound insulation. Consider panels with sound-absorbing properties or install additional acoustic insulation behind the panels.



OR/CRITICAL CARE PENDANTS

About OR/Critical Care Pendants: Modular Med is a reputable manufacturer and supplier of high-quality medical equipment, specializing in critical care pendant systems. Our pendant systems are designed to provide efficient and convenient solutions for healthcare facilities, particularly in critical care units and operating rooms.

Our Products and Services:

Modular Med offer a comprehensive range of critical care pendant systems that are designed to optimize patient care and support medical professionals in their daily tasks. Our pendant systems are equipped with various features such as gas outlets, electrical sockets, medical equipment shelves, providing a centralized and organized solution for medical equipment management.

Customization:

We understand that every healthcare facility has unique requirements, and we offer customization options to tailor our pendant systems to the specific needs of our clients. Our team works closely with healthcare professionals to design and install pendant systems that optimize workflow, enhance patient safety, and improve overall efficiency.



OPERATION THEATRE CABINETS

Smooth, Ultra-Clean Surfaces Eliminate Germ Traps, Simplify Cleaning and Disinfection;

Seamless design eliminates cracks for easy cleaning, sterilization; No-lip design simplifies material transfer by eliminating clearance restrictions;

Electropolished stainless steel chamber and hardware (SS aisi 304 or 316) won't shed particles, resists disinfectants and other chemicals.



LED X-RAY VIEWER

High-quality film viewers with collimation and luminous density control represent indispensable tools for the radiologist in his efforts to reliably evaluate analogue radiographs.

The adjustable and easy to move shutters fitted between an external scratch-proof mineral clear glass pane and an internal flashed glass pane of high-grade acrylic ensures sharp-edge collimation even of small image areas.

The collimation is combined with accurate luminous density to achieve a marked improvement in detail recognition.

It is available in different sizes.

The standard viewing area sizes are:

- 50.4 * 47.2* 2.5cm Single Film
- 50.4 * 87.2* 2.5cm Two Film
- 50.4 * 127.2* 2.5cm Three Film
- 50.4 * 167.2* 2.5cm Four Film





PASS-THROUGH WINDOWS

Smooth, Ultra-Clean Surfaces Eliminate Germ Traps, Simplify Cleaning and Disinfection. Seamless design eliminates cracks for easy cleaning, sterilization. No-lip design simplifies material transfer by eliminating clearance restrictions. Electropolished stainless steel chamber and hardware (SS aisi 304 or 316) won't shed particles, resists disinfectants and other chemicals. OT integrated windows can be built with the 'smart-screen' feature which enables the user to get the glass 'blind' as needed.



Smart-screen OFF



Smart-screen ON

*Creat
Creative
Work To
Grow Your
Business*



OR/SURGICAL CONTROL PANEL

General Lighting Control

Ability to control and dim the four lighting groups separately.

Laminar Flow Lighting Control

Ability to control and dim the four laminar flow lighting separately.

Operation Lamp Control

Ability to control and dim the three operation lamp head control separately.

AGSS Control

Ability to control Anesthetic gas scavenging system.

Medical Gas System

Gas pressure level miniaturization for five different medical gases. Ability to set low/high limits for five different medical gas pressure alarms. Visual and audible alarms according to gas pressure level or five different medical gases. Ability to receive and to send data the central gas system.

Air Conditioning Control

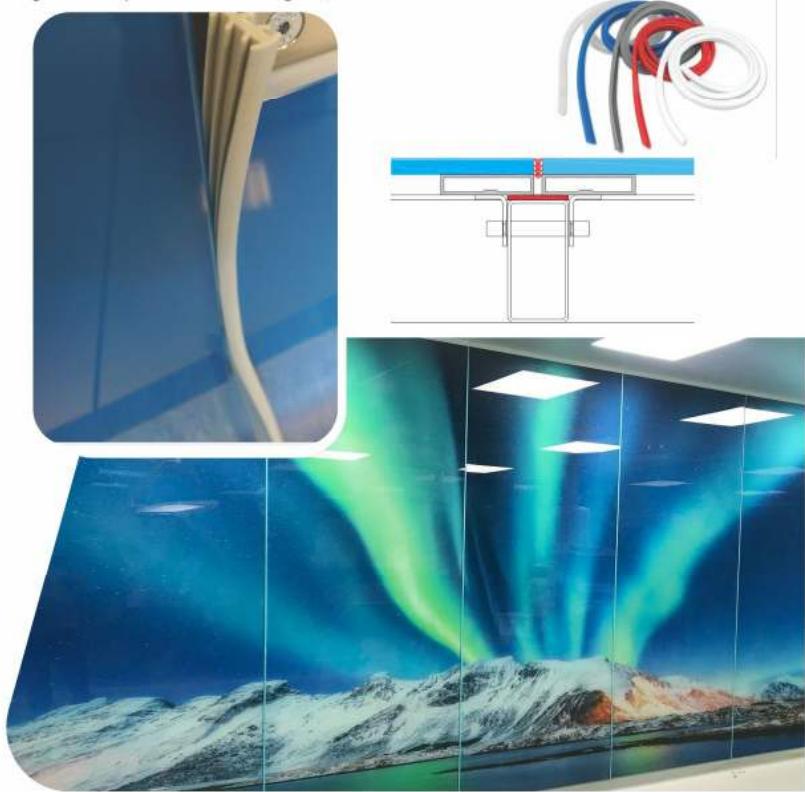
Ability to monitor ambient temperature, humidity, differential pressure and Hepa filter clean/dirty, get all climate data from automation and to send data to set the level of the temperature, humidity, differential pressure and Hepa filter, screen and this set levels transfer to hospital. visual and audio alarm for alarm situations alarm on / off for each climate control set lower limit / High limit level for each alarm. Heater, Fan, Damper, Full flow and Semi-flow control. Time and Date Indicator and control time information.



SEALING GASKETS

The hermetic sealing between the coating panels is realized through the use of a non-toxic silicone gasket. The seal can be removed to allow easy disassembling of each panel. There are different colors of the compound to reach the best aesthetic solution.

When the customer prefer a different solution, it is possible to seal the panels using a layer of silicone transparent glue or directly weld the surfaces all together, too.



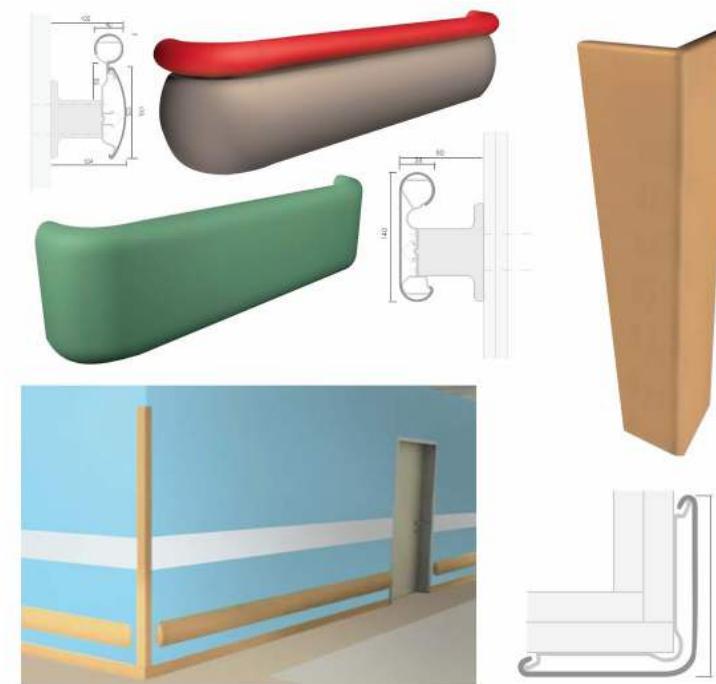
WALL PROTECTION

Corner guard protection

Supply and installation of edge protection for shock absorbing elastic, not-toxic, antibacterial with a wingspan of no less than 75mm

Bumper handrail

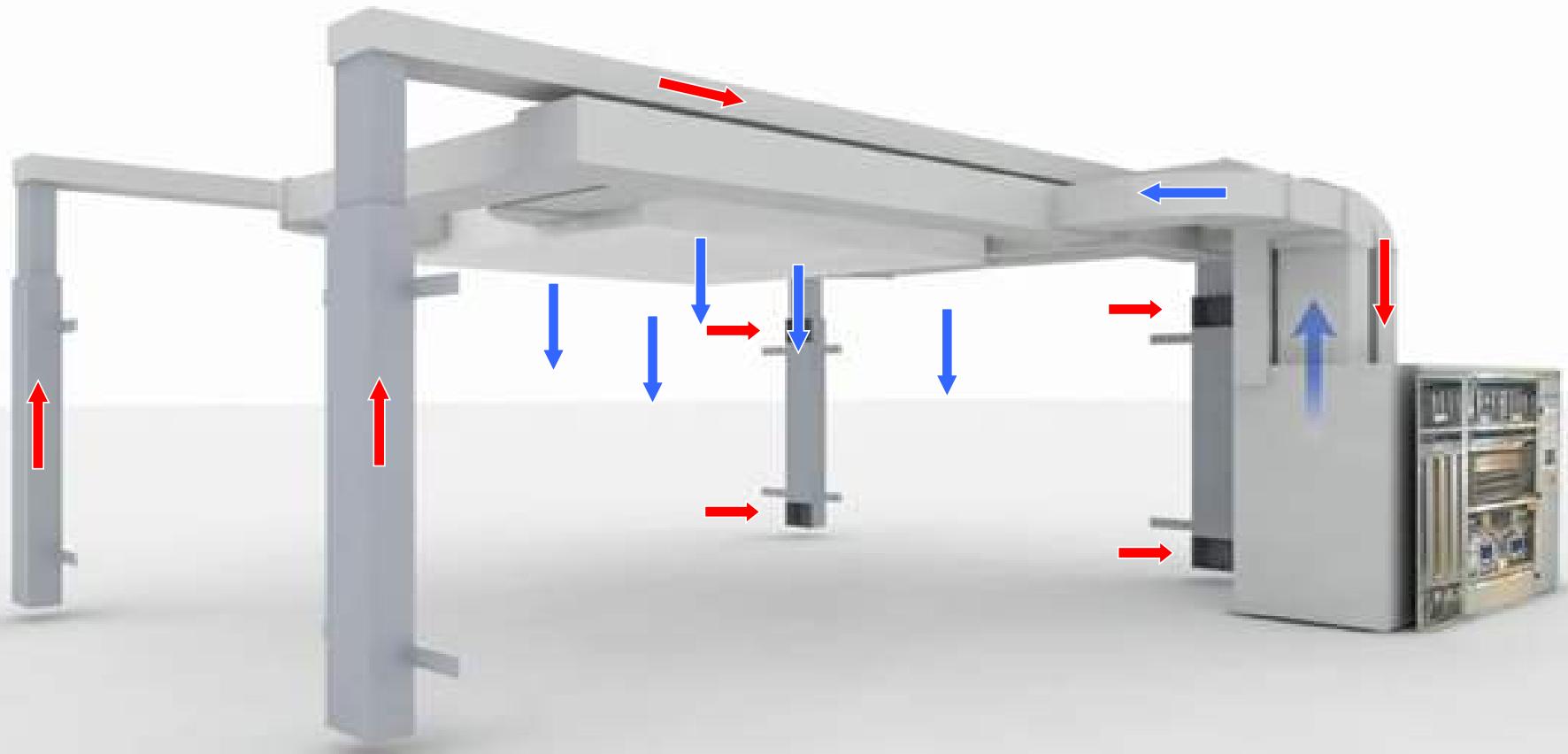
A bumper handrail in a hospital is a specialized type of handrail that is designed to provide additional protection and support for patients, staff, and visitors. It is typically installed along corridors, hallways, and staircases in healthcare facilities.



FULL PRODUCT'S RANGE OF
BUMPERS,
CORNER GUARDS,
HAND RAILS.

Hygiene

Sterilize Air Supply



Definitions

Clean

the absence of visible dust, soil, debris, blood, or other potentially infectious material

Disinfection

a process that kills most forms of microorganisms on inanimate surfaces

Terminal cleaning

thorough environmental cleaning that is performed at the end of each day when the area is being used

End of procedure cleaning

cleaning and disinfecting the operating or procedural room between patients throughout the day while used

Project References

- Integrated Medical Care (IMC) Hospital D.H.A Phase-5 Lahore (06 theaters).
- Premium Health International G-8 Islamabad (04 Theaters & ICU)
- Noor Al-Shifa Cardiac Hospital Lahore (02 Theaters).
- Children Hospital Multan (08 Theaters).
- Multan Institute of Cardiology (04 Theaters).
- Children Hospital Gujranwala (02 Theaters).
- Ch. Bashir Hospital G-13 Islamabad (02 Theaters).
- Retina Eye Care Hospital Gulberg-III Lahore (04 Theaters).
- POB Hospital Lahore (01 Theater).
- IBADAT International University Hospital Rawalpindi (04 Theaters).
- Haripur International Hospital Hybrid OR.

IMC Hospital DHA Phase-5 Lahore (6 Theaters)



Premium Health International Islamabad (4 Theaters)



THANK YOU