



HOSPITAL PRODUCTS LOOKBOOK

Shaping Tomorrow's Spaces, Today

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Who are Architectural Wallsz?

Architectural Wallsz is a family-run business dedicated to transforming the construction industry's outdated and unreliable practices. By harnessing modern methods of construction (MMC), we design innovative solutions that prioritise sustainability, adaptability, and efficiency. Our innovative techniques, including prefabrication and cutting-edge design software, streamline the process from concept to completion, shortening project timelines and reducing costs. At Architectural Wallsz, we create structures that champion growth, health, well-being, and environmental consciousness, paving the way for a brighter future in construction.



ICE Design

- High-quality visuals and precise 3D renders that bring designs to life.
- Virtual Reality (VR) allows clients to fully experience their design before construction starts.
- Removes the risk of misunderstandings with clear visual representations.
- Ensures decisions are made early, streamlining the overall process.
- Provides transparent pricing with no hidden or unexpected costs.
- Guarantees predictable outcomes - what you see in the design is precisely what you get in the final product.



Offsite Manufacturing

- Constructed in a controlled factory environment for optimal precision and quality.
- Significantly reduces onsite labour costs and disruptions.
- Utilises recycled denim for insulation, promoting sustainable practices.
- Ensures consistent, superior quality across all builds.
- Precision-built in 21 days or less.
- Delivered preassembled with integrated technology, plumbing, and other essential systems.
- Factories powered by 100% renewable energy for environmentally conscious manufacturing.



Onsite Installation

- Swift installation process ensures projects are completed rapidly.
- Reduces disruption to surrounding environments.
- Eliminates waste by avoiding offcuts during construction.
- Requires fewer site deliveries, minimising logistical challenges.
- Significantly lowers labour demands on-site for enhanced efficiency.
- Utilises reusable and recyclable packaging to promote sustainability.
- Eliminates the need for specialised onsite labour, as systems like plumbing and technology are fully integrated during preassembly.



Reuse and Reconfigure

- Designed for reusability and adaptability, our modular solutions can be easily reconfigured to suit changing needs.
- Actively reduce waste by enabling reconfiguration and reuse, reducing the demand for disposable components.
- Save costs by reducing the need for new materials and construction.
- Embraces circular economy principles by focusing on reusability and resource efficiency, reducing environmental impact and promoting sustainability.

Benefits of Prefabricated Interiors

Reduced Project Timelines

Prefabricated solutions streamline construction by enabling concurrent site preparation and offsite fabrication, ensuring faster healthcare facility availability.

Cost Saving

We offer accurate cost estimates and reduced onsite labour for better budget control. Our modular designs also allow for adaptability, enabling future cost savings.

Consistent High-Quality

Prefabricated components ensure superior quality, uniformity, reduced onsite variability, and enhanced patient safety through controlled manufacturing.

Design Certainty

Using our ICE software to deliver accurate visuals, that are then sent straight to the manufacturer, ensuring precise execution and eliminating traditional discrepancies.

Sustainable Approaches

Our solutions adapt for reconfiguration and expansions, enabling healthcare facilities to meet changing needs, reducing waste, and supporting sustainability.

Standardisation

Utilising standardised components, we streamline procurement, enhance the efficiency of installation and maintenance, leading to less downtime with predictable outcomes.

Enhanced Risk Management

Prefabricated solutions reduce risks related to installation errors, quality inconsistencies, and project delays, ensuring safer, more reliable, and efficient construction process.

Efficient Maintenance

Simplified maintenance with standardised components ensures long-term reliability and lowers lifecycle costs for easier, more manageable, cost-effective upkeep.

Streamlined Site Logistics

Efficient onsite assembly reduces disruptions, optimises coordination, leading to smoother execution with minimal impact on surrounding operations.

45%

Reduction in Carbon Dioxide

30%

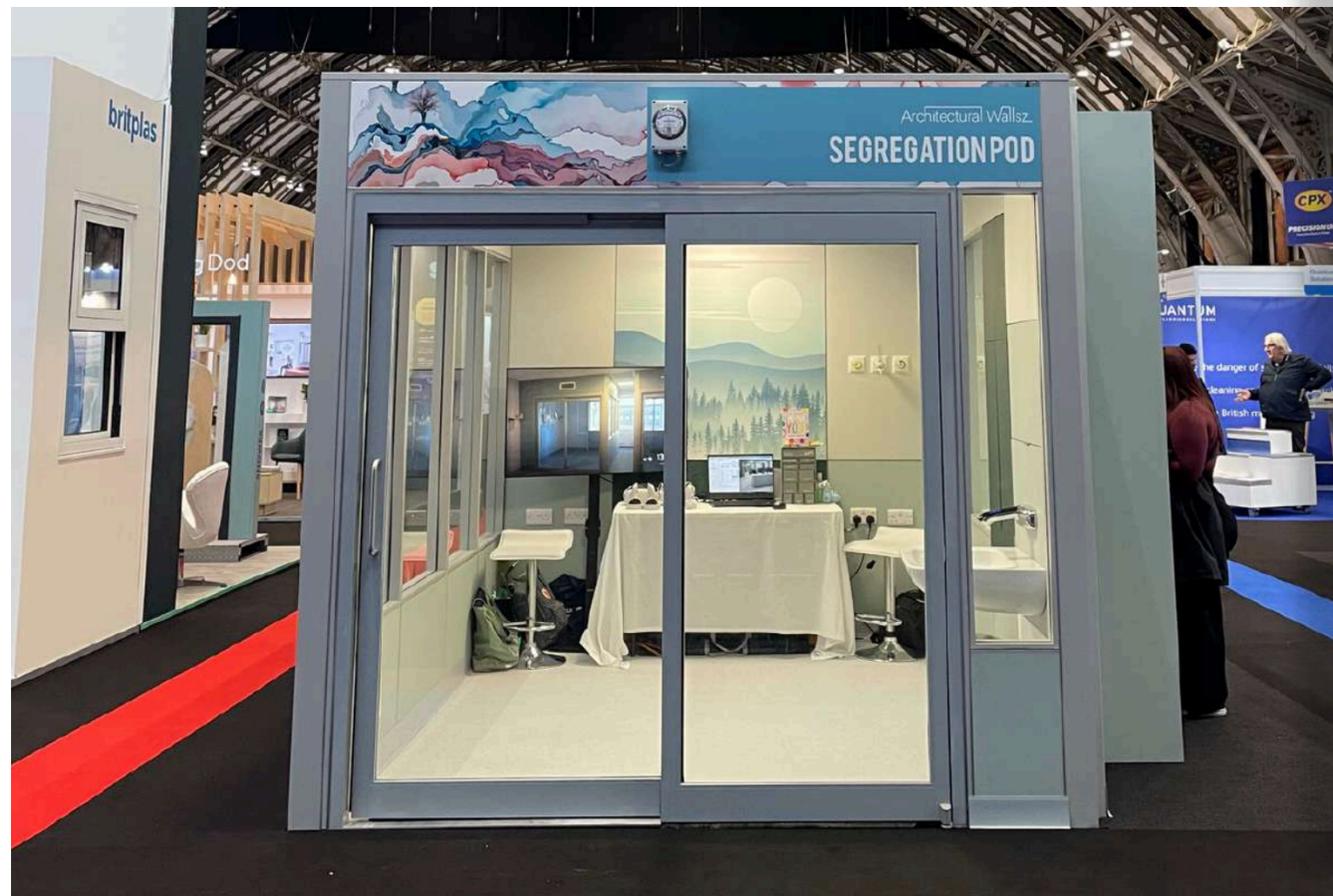
Reduction in Project Schedules

53%

Less CO2e with Recycled Denim Insulation



SEGREGATION PODS



The AWallsz Segregation Pod is a Negative Pressure room, designed to enhance patient and staff safety. Using HEPA 14 Filtration, with 99.997% purification efficiency, the pod minimises the risk of infection through airborne transmissions. This prefabricated, plug and play system has the ability to integrate plumbing, medical gases, electrics and technology, and is designed specifically to fit your space. With our range of antimicrobial finishes, whiteboards and custom graphics, this protective space can also be calming and interactive.

Features and Benefits

- Clinical-Grade Antimicrobial Finishes
- 1550mm Clear Opening Door
- Pressurised Ventilation
- Integrated HEPA 14 Filter
- Infection Prevention Gaskets
- Quick, Clean Installation
- Reconfigurable, Modular Build-Up

Optional

- Woodgrain Panel Finishes
- 2000mm Clear Opening Break-Out Door
- Bespoke Graphics
- Integrated Whiteboards
- Negative or Positive Pressure
- Integrated Plumbing and Medical Gases



Royal Shrewsbury Hospital

Project Type: Hospital

Installation: 12 Days

Challenge

Royal Shrewsbury Hospital needed to rapidly expand its healthcare infrastructure while maintaining high standards of infection control and minimising disruption to ongoing operations. The project also required a system that could be quickly installed without sacrificing patient and staff safety.

Solution

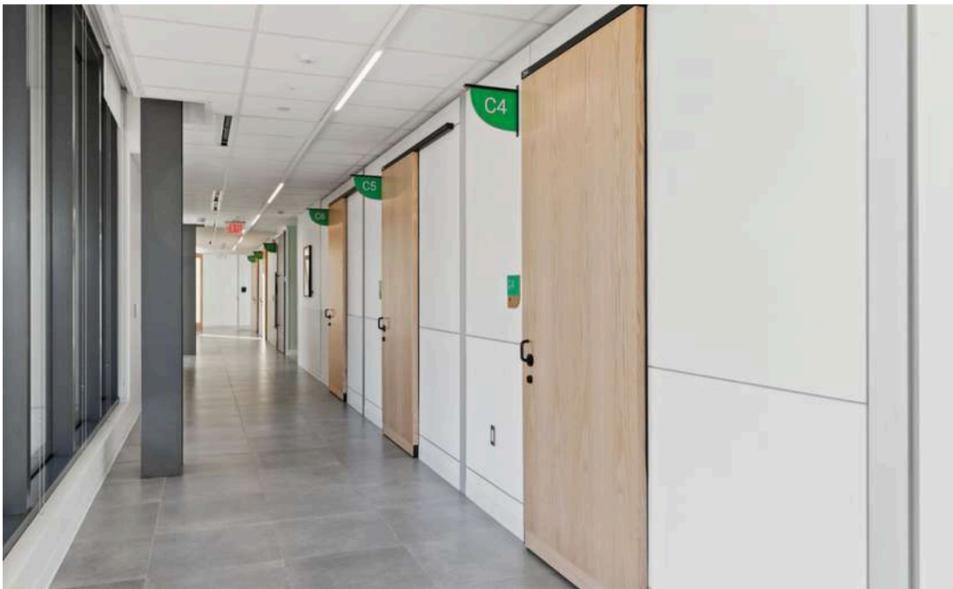
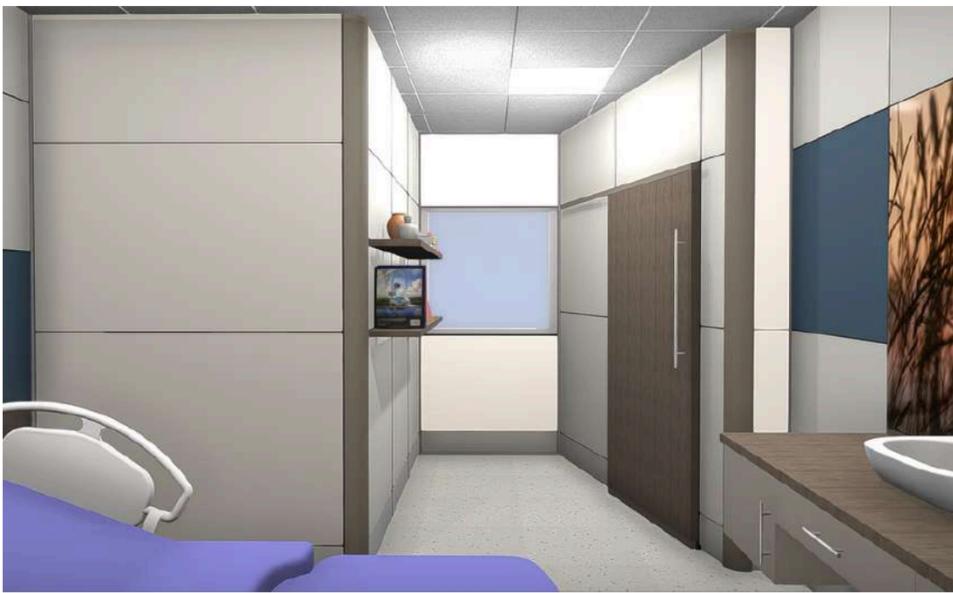
We provided modular, prefabricated wall systems designed to integrate medical services within a clean, adaptable framework. These walls allowed for quick assembly, flexible design options and enhanced infection control features such as easy-to-clean surfaces and integrated HEPA filtration to ensure safety and compliance with healthcare standards.

Outcome

The prefabricated wall system was installed swiftly and efficiently and minimised disruption to hospital operations. The final installation enhanced infection control measures while offering flexibility for future reconfigurations. The hospital staff praised the solution's adaptability and efficiency in addressing the immediate needs.



ISOLATION ROOMS



Brandon Stengel – www.farmkidstudios.com.



Isolation rooms play a crucial role in infection control, offering hospitals a reliable solution to provide a safe environment for vulnerable or immunocompromised patients. Equipped with advanced HVAC systems, they ensure optimal airflow management. Additionally, these rooms seamlessly integrate medical gases, technology, power, and data, creating an efficient workspace for staff while enhancing the patient experience. Their adaptable design allows for optimised use of surrounding areas, while minimising the risk of infection spread.

Features and Benefits

- Clinical-Grade Antimicrobial Finishes
- Sliding Door Mechanism
- Integrated Power and Data
- Integrated Ensuite Facilities
- Integrated HEPA 14 Filters
- Infection Prevention Gaskets
- Positive Pressure Lobby

Optional

- En-Suite
- Bespoke Graphics



Stoke Mandeville DSU

Project Type: Hospital

Installation: 4 Days

Challenge

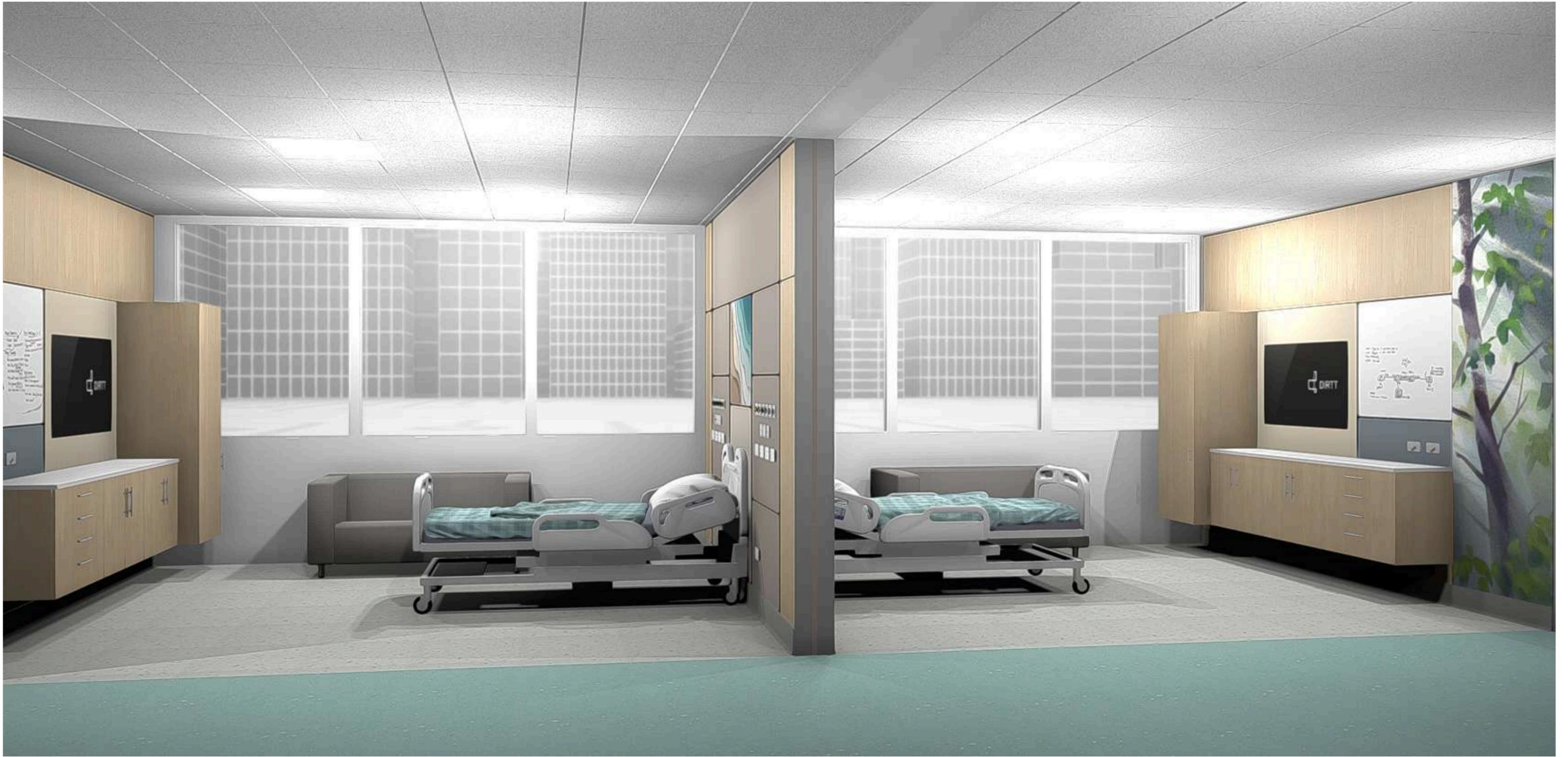
Stoke Mandeville Hospital approached Architectural Wallsz to install an isolation room to safeguard vulnerable or immunosuppressed patients in their Day Surgery Unit. The project required a solution that balanced effective infection control while maintaining space for numerous other beds in the DSU bay.

Solution

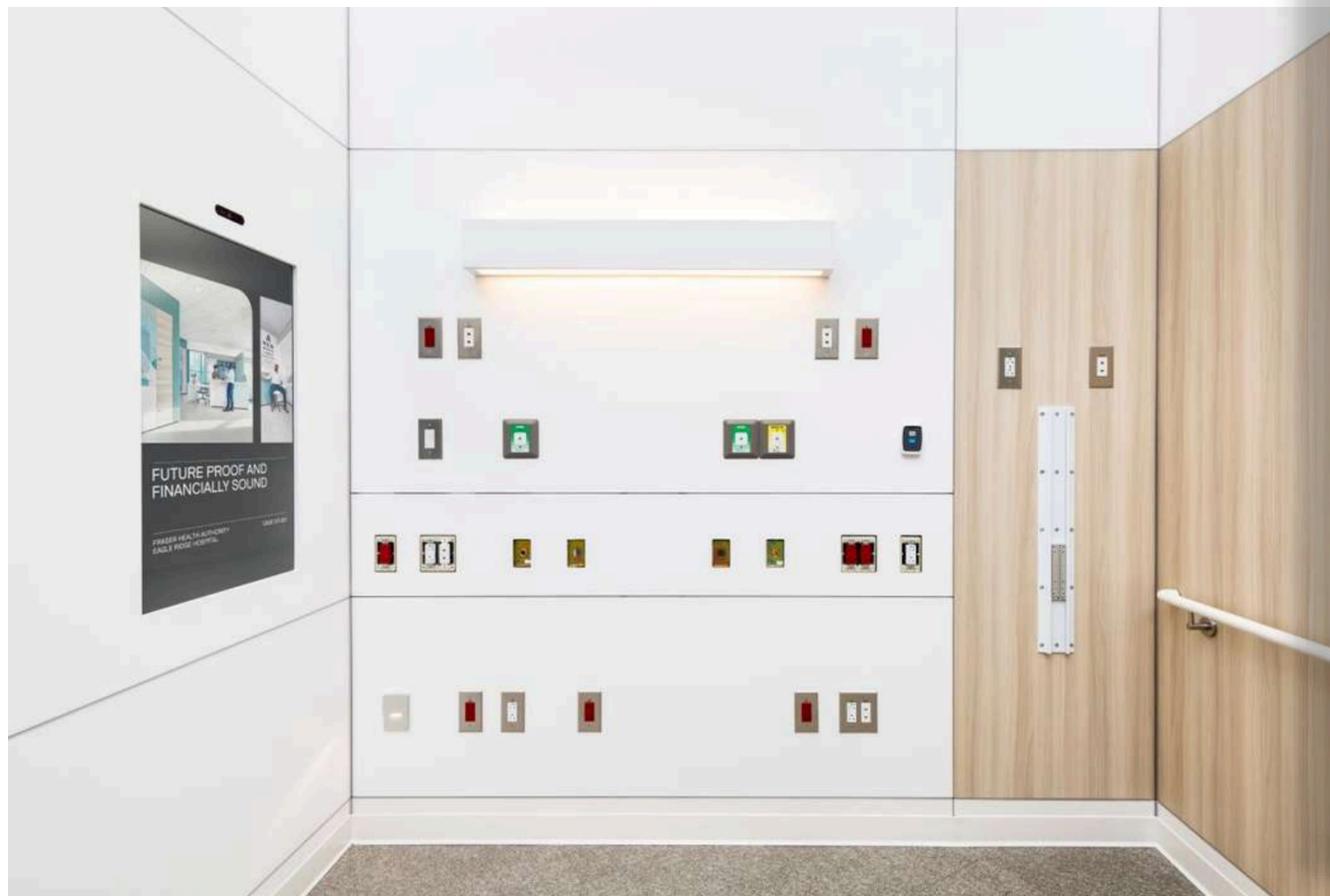
The pod was built with floor-to-ceiling prefabricated walls featuring an easy-to-clean, 3D laminated surface and infection prevention gaskets. Nurses access the patient room via a positive-pressure lobby equipped with a HEPA 14 filter and over 15 air changes per hour. Inside, a WriteAway tile facilitates seamless communication between patients and clinicians.

Outcome

The negative pressure isolation room with a positive pressure lobby, created a safe and controlled environment for vulnerable patients, enhancing infection control measures and preserving operational space. This solution effectively prioritised patient safety and care while maintaining efficiency in the unit.



FIRE RATED BACK-TO-BACK HEADWALL



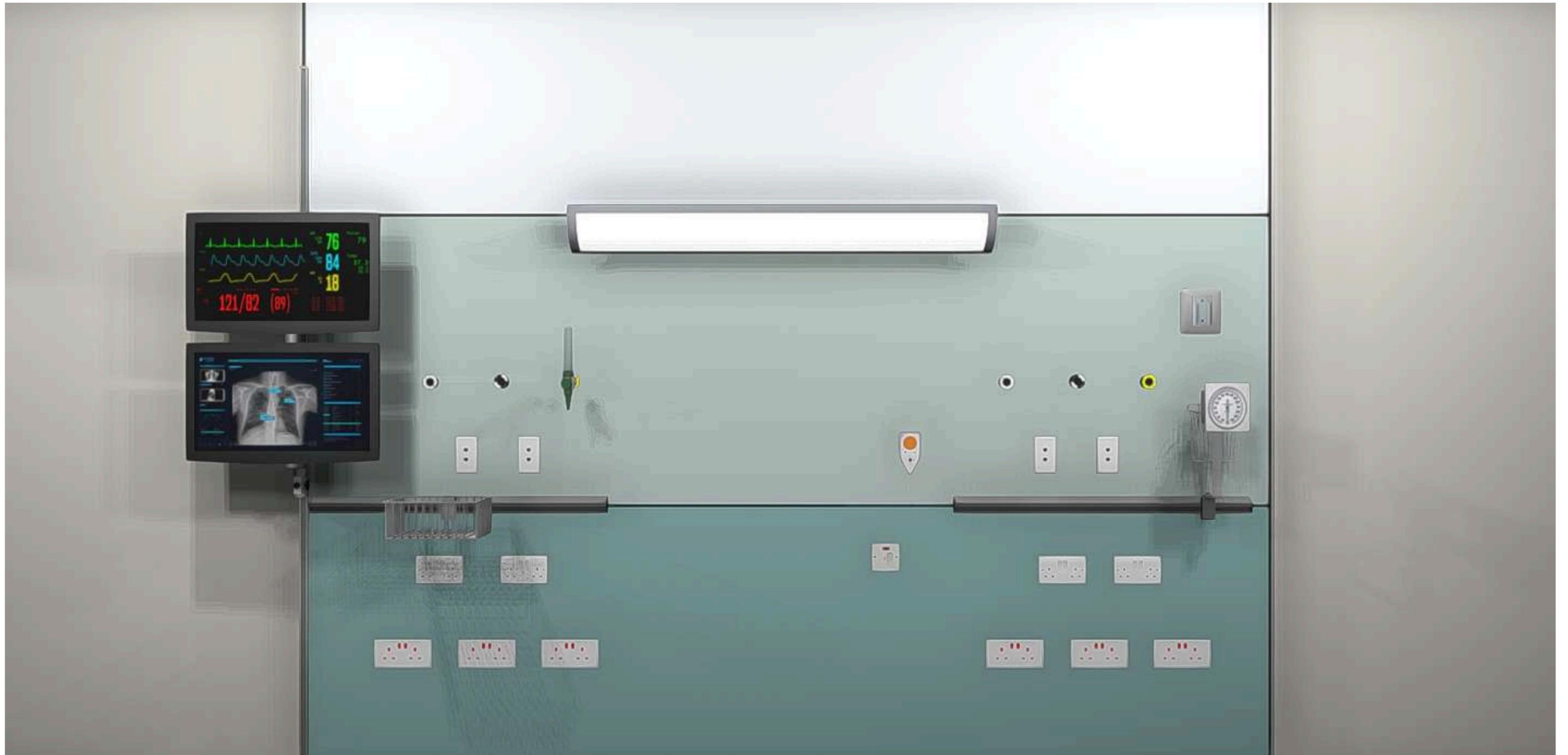
The Fire Rated Headwall combines the functionality of a standard medical headwall with a 60-minute fire rating (BS EN 1364-1 for resistance, BS EN 13501-1 for reaction). It supports custom aesthetics and functionality, integrating medical gases, power, and data with bespoke finishes, allowing for space optimisation and easy access to equipment. Additionally, infection control is enhanced with easy-to-clean finishes and fewer surface-mounted components. Available as a back-to-back style or curtain wall configuration.

Features and Benefits

- Integrated Medical Gases, Power, Technology and Lighting
- 60-Minute Fire Rated
- Slimline Aluminium Profile
- Antimicrobial Laminates
- Space Saving Solution

Optional

- Bespoke Graphics
- Wall-Mounted Lighting
- Curtain Wall Configuration
- Back-to-Back Style Configuration



MEDICAL HEADWALL

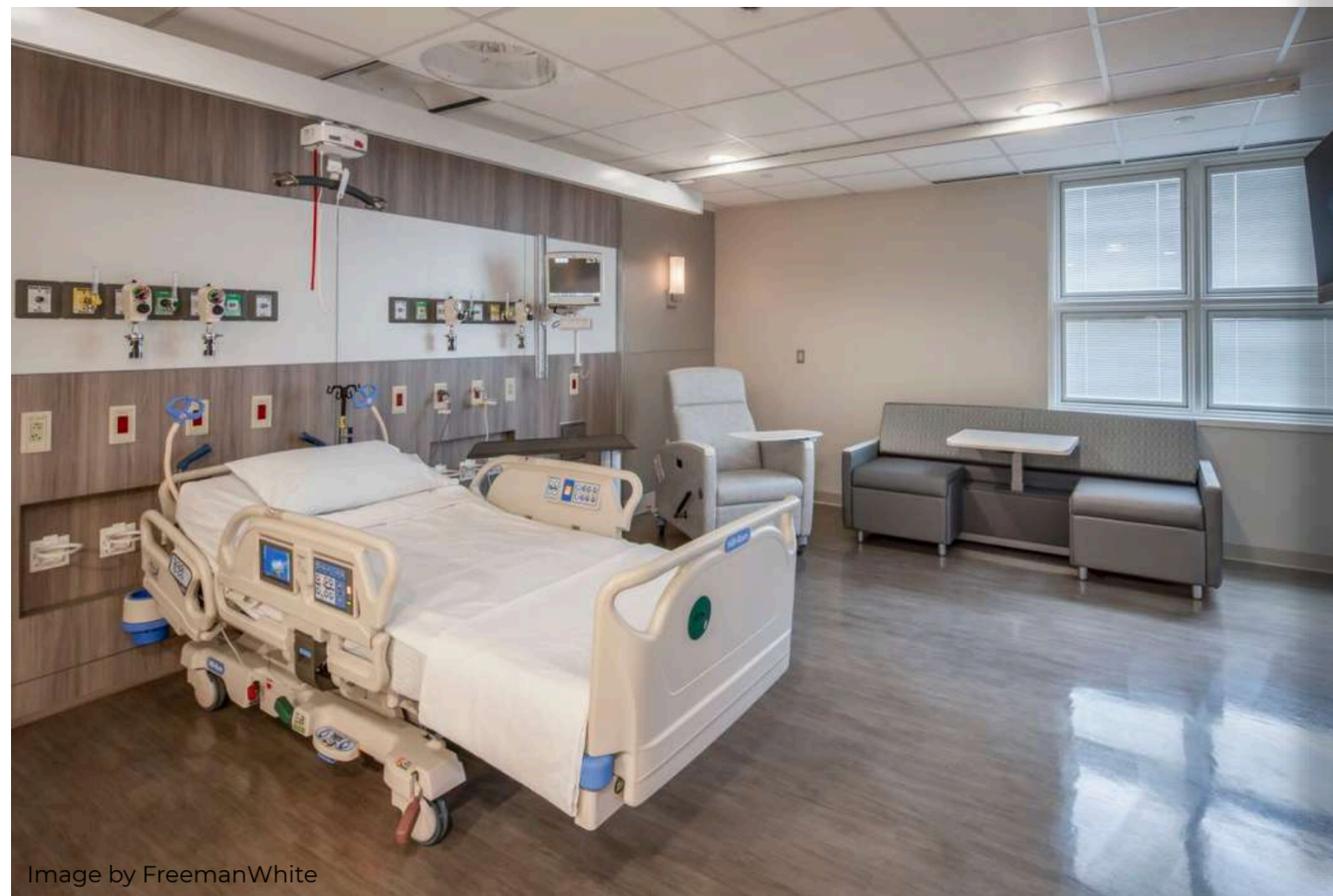


Image by FreemanWhite

Our pre-plumbed Medical Headwalls enable faster, cleaner, and more sustainable construction by reducing on-site trades through offsite methods. Designed for hassle-free maintenance, they feature removable panels, highly cleanable materials, and infection prevention gaskets. Their adaptable, reusable nature supports sustainability, and with no limits on integration, we'll tailor a solution to your specific bedhead service needs.

Features and Benefits

- Plug-and-Play Integrated Power and Data
- Flush-Mounted Medical Gases
- Antimicrobial Laminates
- Infection Prevention Gaskets
- Removable Pre-Finished Boards for Ease of Access into Wall Cavity

Optional

- Bespoke Graphics
- Wall Mounted Lighting
- Applied Headwall Configuration
- Back-to-Back Configuration
- Single Side Configuration
- Accessory Rails
- Integrated Technology and Media



Englewood Hospital Intensive Care Unit (ICU)

Project Type: Hospital

Challenge

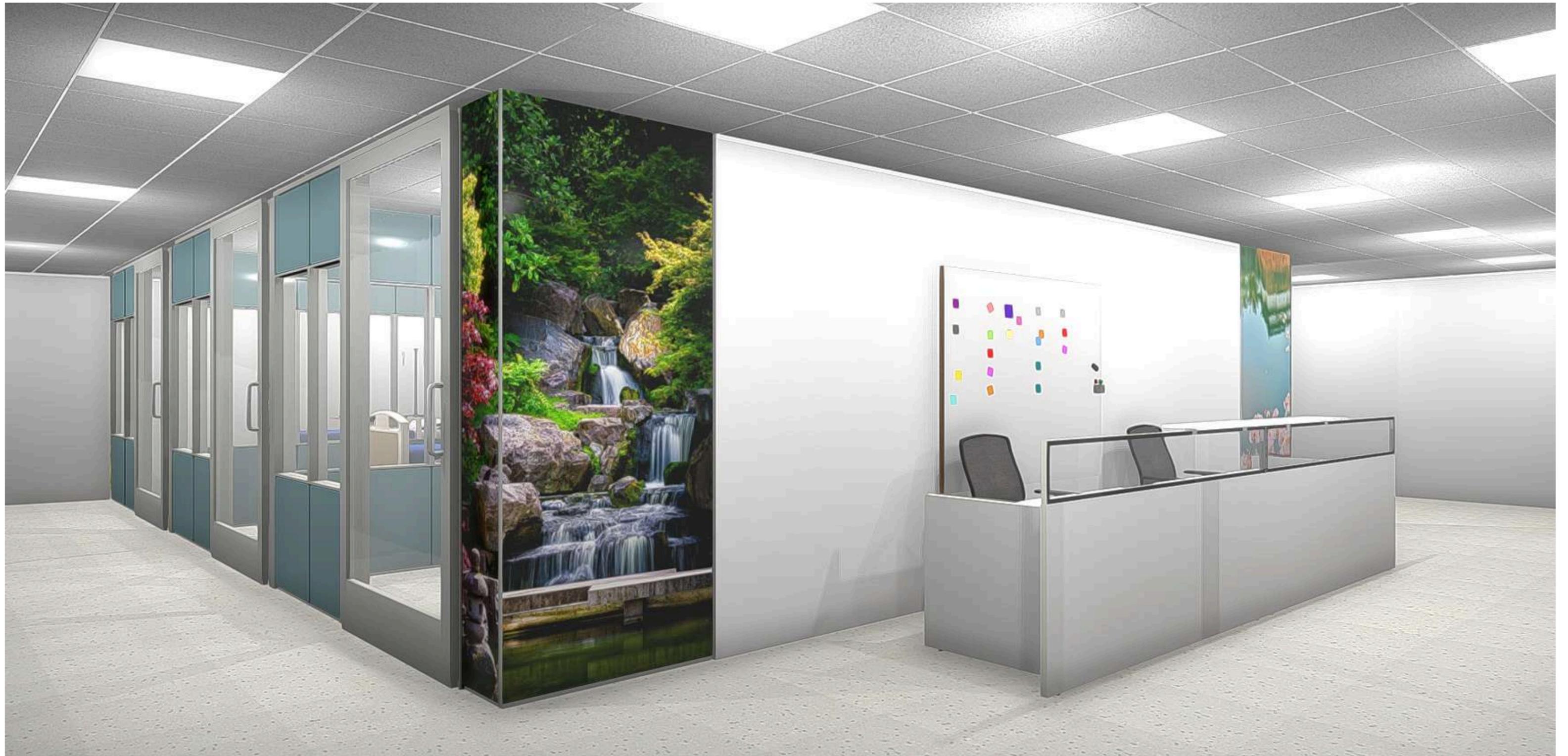
Englewood Hospital needed to create a temporary ICU that matched the existing wings of the hospital while addressing unique requirements like higher medical gas usage and the ability to convert the space back to standard medical-surgical rooms efficiently.

Solution

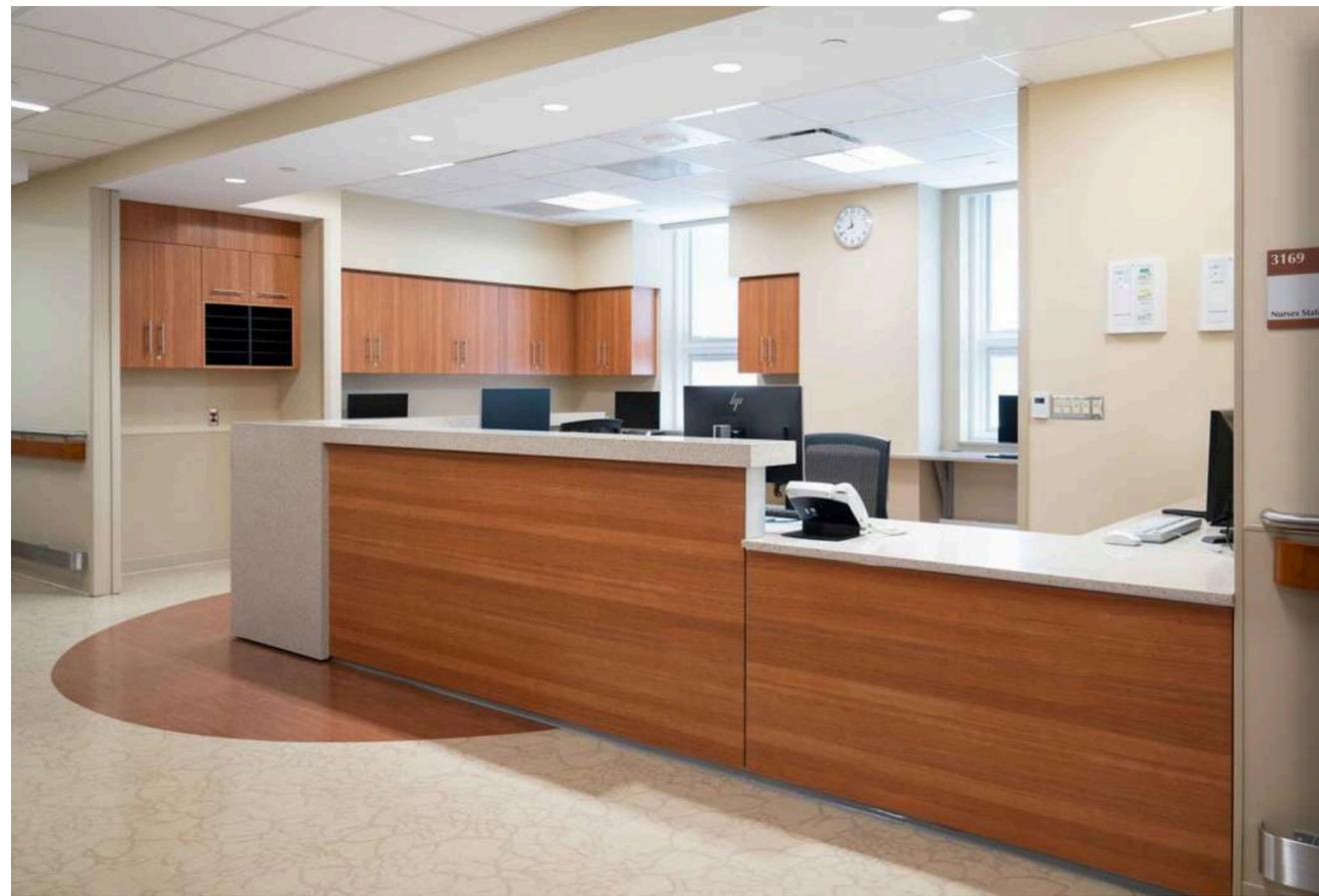
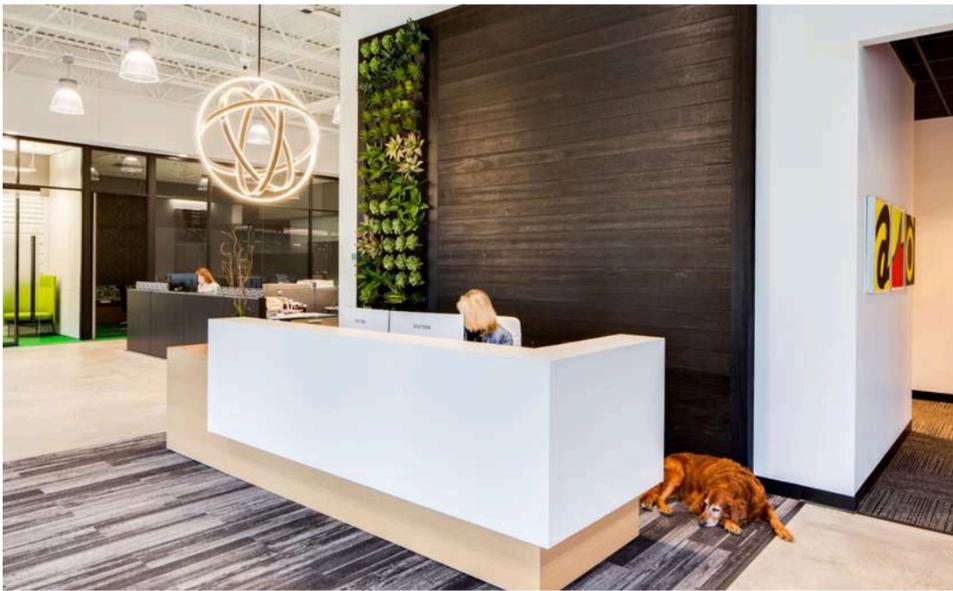
DIRTT's high-tech, factory-built pre-fab system ensured consistent design across hospital wings. The integrated medical gas, accommodated the increased need for medical gas, reduced labour costs, and accelerated the construction schedule.

Outcome

When the temporary ICU is converted back to regular medical-surgical rooms, the additional components can be efficiently removed and repurposed as needed. Durable wall panels can be updated quickly and cost-effectively, making room turnover a clean and swift process, taking days rather than weeks, without drywall dust or surprises, ensuring exceptional patient care.



NURSES' STATIONS



Our prefabricated Nurses Stations have been designed to meet today's needs whilst being adaptable for tomorrow's challenges. Effective design elements from 30 years of healthcare experience to the use of innovative materials - help lower the risk of Bioburden and improve storage and ergonomics for all, ensuring inclusivity and staff and patient wellbeing. Every element of these units is completely customisable in size, finish and storage capacity, ensuring optimal functionality for your space.

Features and Benefits

- 10-Year Warranty on All Materials
- Customisable Storage Capacity and Size
- Wide Range of Finishes
- Integrated Power and Data Sources
- Easy to Clean Surfaces
- Compatible with all healthcare cleaning procedures

Optional

- Combine with **Casework**



Anderson Dental

Project Type: Dental Practice

Installation: 7 Days

Challenge

Dr. Anderson envisioned a modern, clean workspace with warm wood accents and abundant natural light. His new office, a long rectangular space, required a strategic design to maximise brightness while maintaining an inviting atmosphere.

Solution

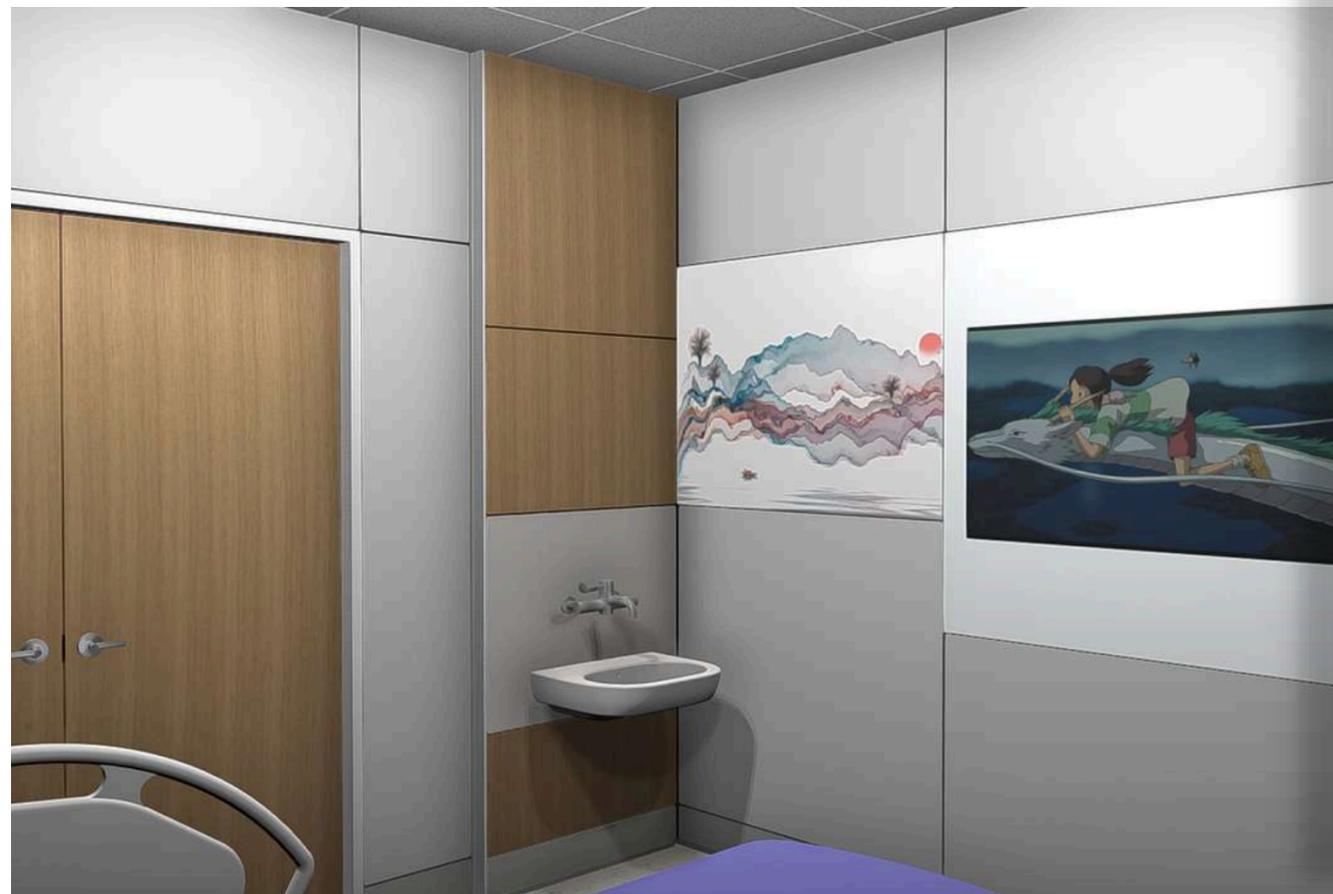
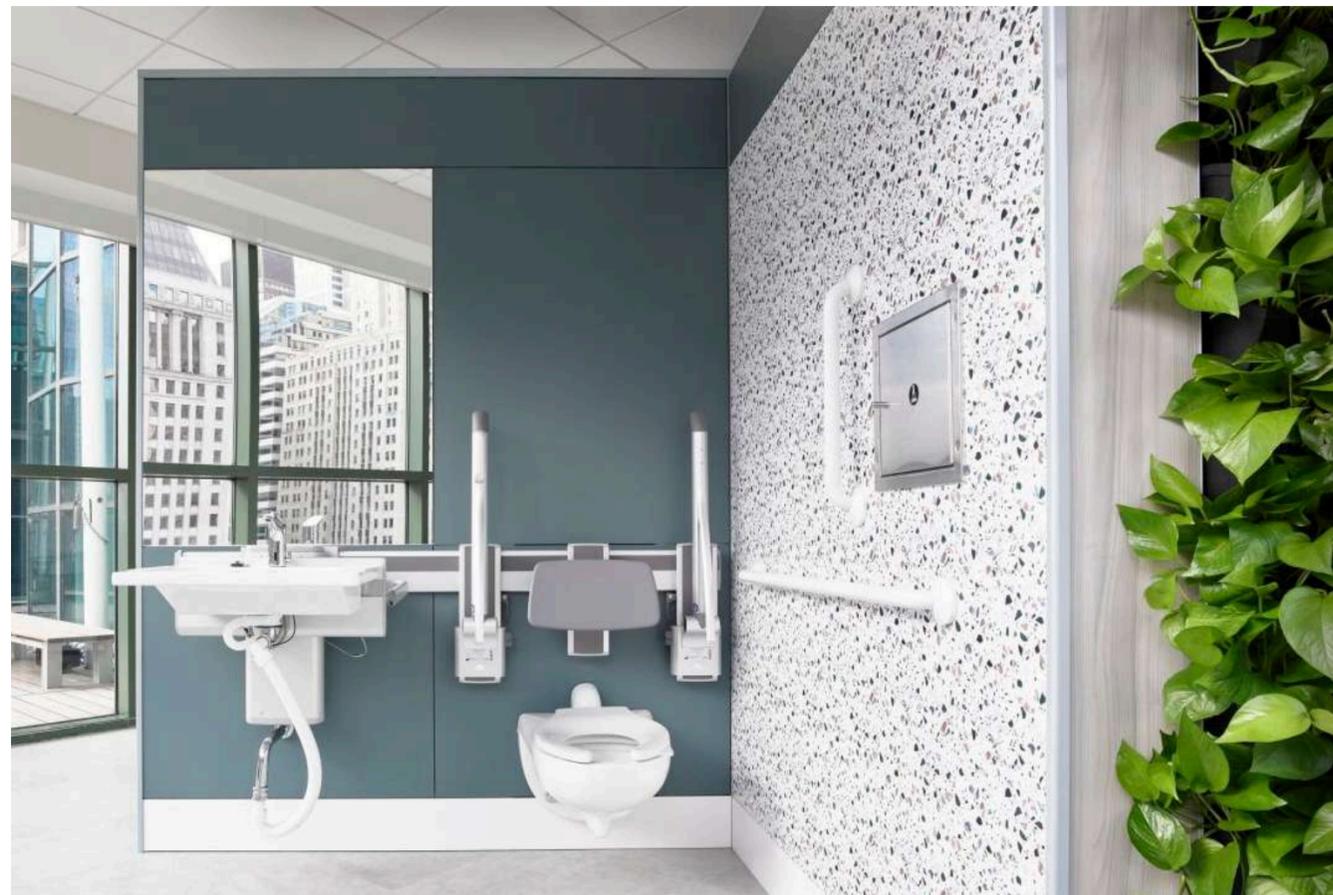
DIRTT provided a cost-effective solution by incorporating glass panels at the top of stacked modular walls, allowing light to flow seamlessly throughout the space. The wood veneer complemented the desired aesthetic, while durable, easy-to-clean finishes ensured practicality. Beyond aesthetics, DIRTT's modular system simplified maintenance and renovations, offering long-term flexibility to accommodate evolving dental technology.

Outcome

The redesigned office successfully blended style and function, creating a bright, adaptable environment. The DIRTT solution not only met Dr. Anderson's vision but also ensured effortless future upgrades, keeping his practice modern and efficient.



SINK MODULES



Our prefabricated handwash stations can be designed to maximise the use of your space and provide you with efficient, compliant handwashing solutions. These modules can be pre plumbed directly into our smart wall system, combined within our bespoke casework solutions, or supplied separately to integrate into your existing facility. Through our invested partnership with innovative and sustainable hygiene companies, we are constantly taking steps to mitigate water, energy and material waste.

Features and Benefits

- Integrated Plumbing
- Product-Neutral - You Specify the Solutions Required, We Supply and Install
- Durable, High-Quality Wall Materials
- Frames, Gaskets and Wall Panels all have a 10-Year Material Warranty
- Relocatable System
- Slimline System

Optional

- Bespoke Graphics
- Combine with **Casework**



Exhibition Segregation Pod

Project Type: AWallsz Exhibition Pod

Installation: 8 Hours

Challenge

AWallsz required a fully functioning Negative Pressure Segregation Pod for an exhibition, with strict time constraints for installation and removal. The setup had to be completed within an 8-hour window, while dismantling needed to be equally efficient, limited to just 4 hours.

Solution

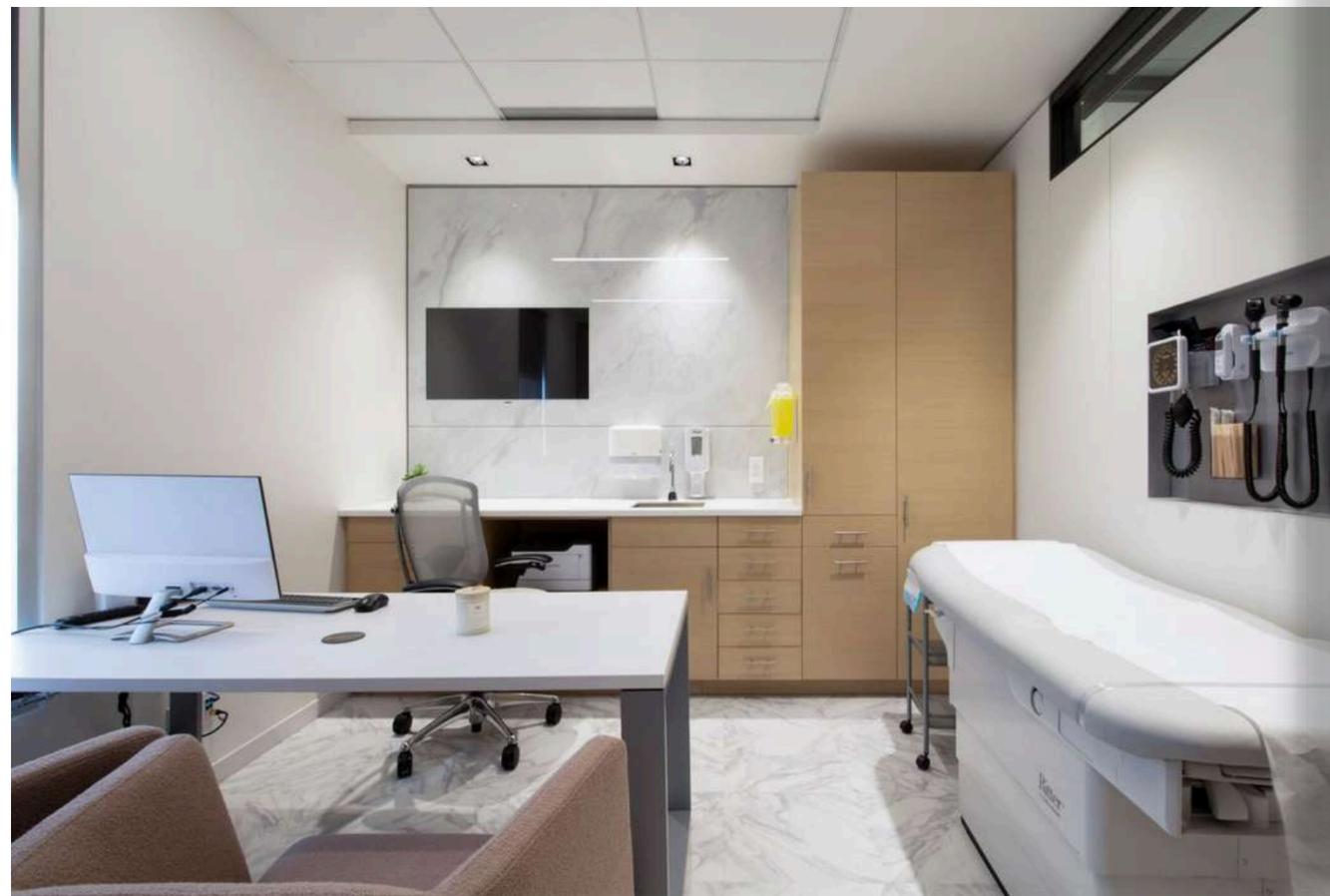
A pre-plumbed, plug-and-play system enabled minimal installers to swiftly deploy the Segregation Pod. The prefabricated design facilitated rapid assembly within the allotted timeframe, ensuring seamless functionality for demonstration purposes. It also allowed for quick and easy disassembly, aligning with the event's strict scheduling demands.

Outcome

The prefabricated Segregation Pod was successfully showcased at the exhibition, allowing attendees to explore its full functionality. The flexible design enabled multiple reassemblies and adaptations to fit various exhibition stand spaces. This solution not only demonstrated efficiency in temporary setups but also showcased a scalable approach for future applications requiring rapid deployment.



CONSULTATION ROOMS



Architectural Wallsz's Consultation Rooms are designed to create private, high acoustic spaces that enhance patient comfort and ensure privacy during medical consultations.

These prefabricated modular rooms are built to meet healthcare standards, with easy-to-clean surfaces and integrated technology options. The rooms can also be quickly reconfigured or expanded to accommodate changing healthcare needs, offering a flexible solution that minimises disruption and maximises efficiency within medical environments.

Features and Benefits

- High Acoustics, Tested to 51db
- Clinical-Grade Antimicrobial Finishes
- Optimise Available Space
- 10-Year Warranty on Materials

Optional

- Bespoke Graphics
- Writable Surfaces
- Integrated Technology
- Integrated **Sink Module**
- **Casework**



Eagle Ridge Hospital (Fraser Health Authority)

Project Type: Hospital

Challenge

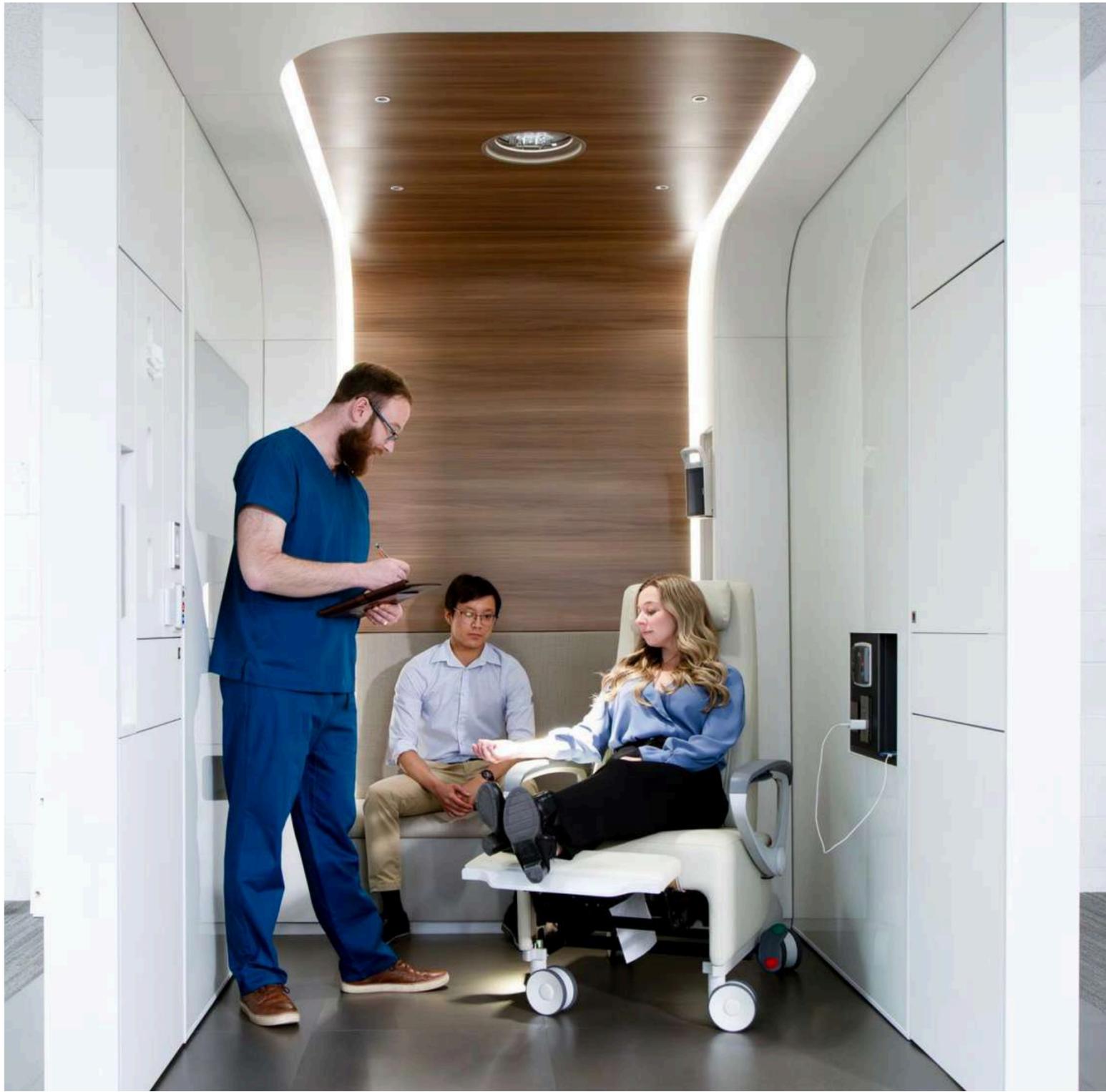
Eagle Ridge Hospital, part of Fraser Health Authority, needed to expand and renovate its emergency department with a future-proof design. They wanted a solution that not only addressed immediate needs but also provided long-term efficiency and adaptability.

Solution

DIRTT modular solutions offered Fraser Health more than just medical-grade finishes to enhance infection prevention and control. With easily accessible wall cavities, maintenance and adjustments could be done quickly and cleanly, avoiding lengthy department closures. Custom features like distraction graphics in the diagnostic cardiology lab and durable wall panels in infusion bays further enhanced functionality and patient care.

Outcome

The updates provided peace of mind and significantly improved efficiency. Eagle Ridge staff gained a space that could easily adapt to future changes, all while delivering a better patient experience in a safe and functional environment.



COVE



The Cove redefines efficiency and patient-centred care with its compact, scalable design, ideal for boosting facility throughput. Its revolutionary approach integrates advanced technology, featuring an embedded display, convenient mobile device storage and charging station, and a dedicated area for care partners. Patients are empowered to personalise their experience, with intuitive controls for lighting and nurse calls through a durable console. Combining innovative functionality and thoughtful comfort, the Cove sets a new benchmark in modern healthcare design.

Features and Benefits

- Integrated Technology, Power and Data
- Medical Gas and Suction Alcove
- Diagnostic Equipment Storage
- Integrated LED Lighting
- Sharps disposal with RFID Locks
- Oxygen Outlet and Regulator
- Accessible Infrastructure Compartment
- Room Lighting Control
- Patient Control Centre and Storage
- Adjustable Exam Light
- Physiological Monitor

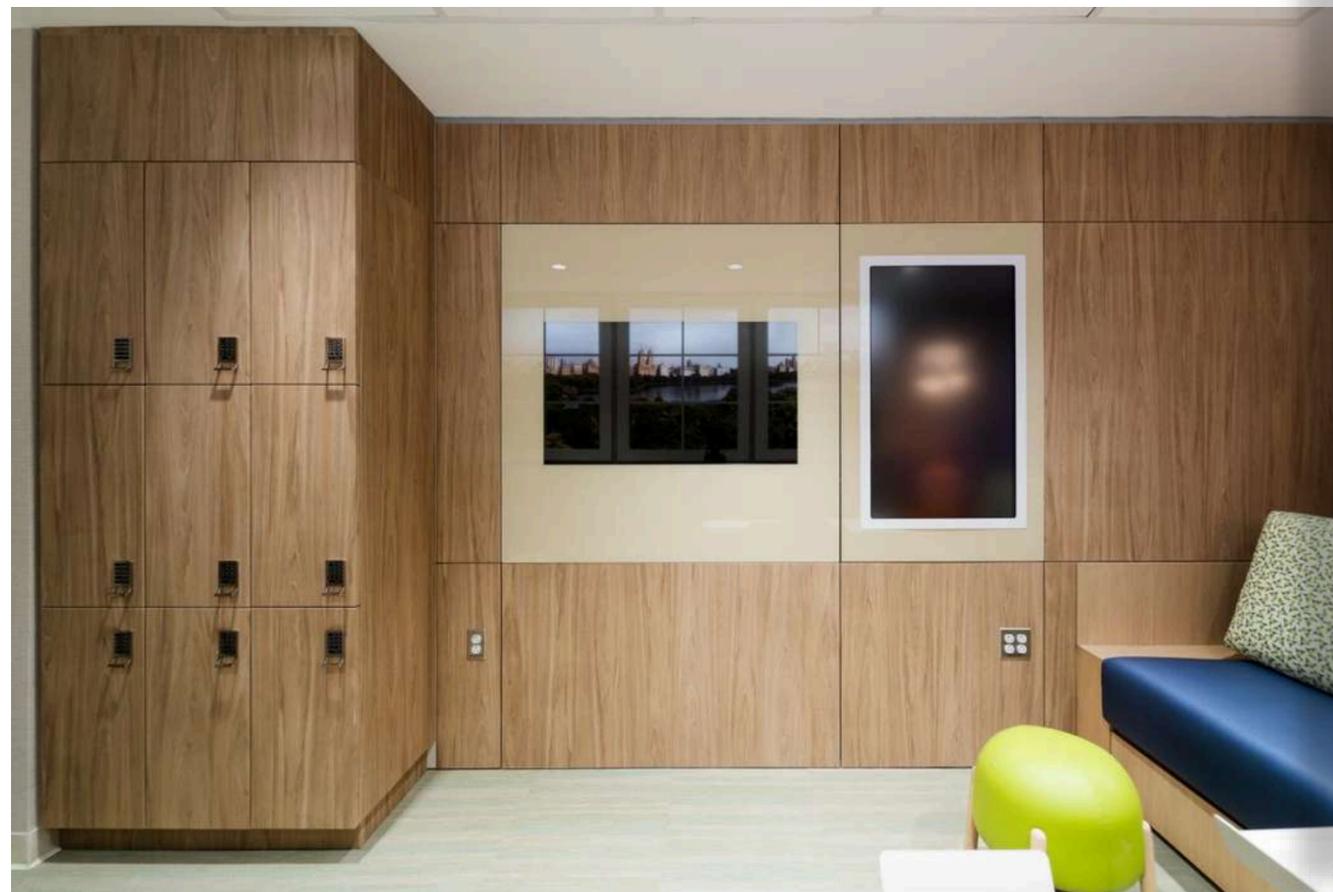
Optional

- Bespoke Graphics





CASEWORK



AWallsz brings precision-manufactured construction to casework, cabinets, and storage, offering tailored solutions through our design-integration platform, ICE. Whether you need plumbing, technology, passthroughs, medical equipment, or custom hardware, we seamlessly integrate it. With ICE software feeding directly to the factory floor, waste is minimised, and no standard sizes limit your design, narrow, angled, or uniquely shaped casework can be created effortlessly and cost-effectively.

Features and Benefits

- Constructed with Durable, Robust and High-Quality Pulls, Hinges, and Slide Options
- Innovative Toe-Kick Design with Built-In Adjustability
- Clinical-Grade Antimicrobial Finishes

Optional

- Bow, Rod or Tab Style Pulls
- Customisable Access Cut Outs for Sharps Containers, Gloves Boxes, Gown Dispensers, etc.
- Combine with **Sink Module**



Tokai Carbon

Project Type: Office

Challenge

Tokai Carbon, a Japanese manufacturing company, reached out to Architectural Wallsz to enhance the look and functionality of their office boardroom. The casework needed to match the aesthetic of the current boardroom, whilst enhancing the functionality of the space.

Solution

AWallsz provided Tokai Carbon with a bespoke prefabricated solution. This included bespoke casework designed for versatile functionality, adapting seamlessly to various uses. The integrated media and writable surface adds additional functionality, for enhanced boardroom meetings.

Outcome

The new casework embodies various compartments, allowing multiple use, whilst exuding the professional aesthetic of the boardroom. The integrated media and writable surfaces now facilitate more dynamic meetings, fostering seamless collaboration and efficient presentations.

Get In Touch

Interested in learning more about prefabricated healthcare solutions?

Get in touch with us at Architectural Wallsz today to see how we can help you transform your healthcare facility with flexible, future-proof solutions



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