

*PRODUCT SHEET*

# SYSTEMS ROOM MODULE

**Systems Room Modules (SRMs) are built off-site in a controlled environment, and house networked voice, video, and data communications as well as security, life safety, public address, radio enhancement, nurse call, building automation, industrial controls, and other technologies.**





# OVERVIEW

Modular Mission Critical is a product line designed and manufactured by M.C. Dean. Our Systems Room Modules are fully integrated, tested, and secure, and contain an array of networked and standalone equipment, structured cabling, racks, cabinets, overhead trays, wall mounted cabinets, termination, and splicing devices that expedite the delivery of on-site communications, Internet, and IT services.



## BENEFITS OF MODULAR CONSTRUCTION

**60-80%  
MORE EFFICIENT**

Fewer labor hours on-site improves safety, production, and cost efficiency

**30-50%  
FASTER**

Reduced installation time accelerates overall schedule

**40-50%  
BETTER**

Controlled fabrication environment delivers improved quality and performance

# BENEFITS TO SYSTEMS ROOM MODULES



## **COST**

Off-site manufacturing reduces labor, material, and scheduling costs compared to traditional stick-built construction.



## **SCHEDULE**

We build and test systems earlier in the lifecycle without waiting for other trades to complete work, optimizing construction sequencing and shifting left in the timeline.



## **DESIGN**

Prefabrication enables design flexibility, including design reviews, customer feedback, and adjustments to system interfaces earlier in the project lifecycle.



## **QUALITY**

Our off-site manufacturing environment delivers reliable quality assurance and manufacturing best practices, with quality control touchpoints embedded throughout the production lifecycle.



## **COMMISSIONING**

Off-site testing and commissioning at our Modular Mission Critical facility drives early identification and resolution of system integration conflicts, and ensures performance is baselined/validated before installation on-site.



## **SAFETY**

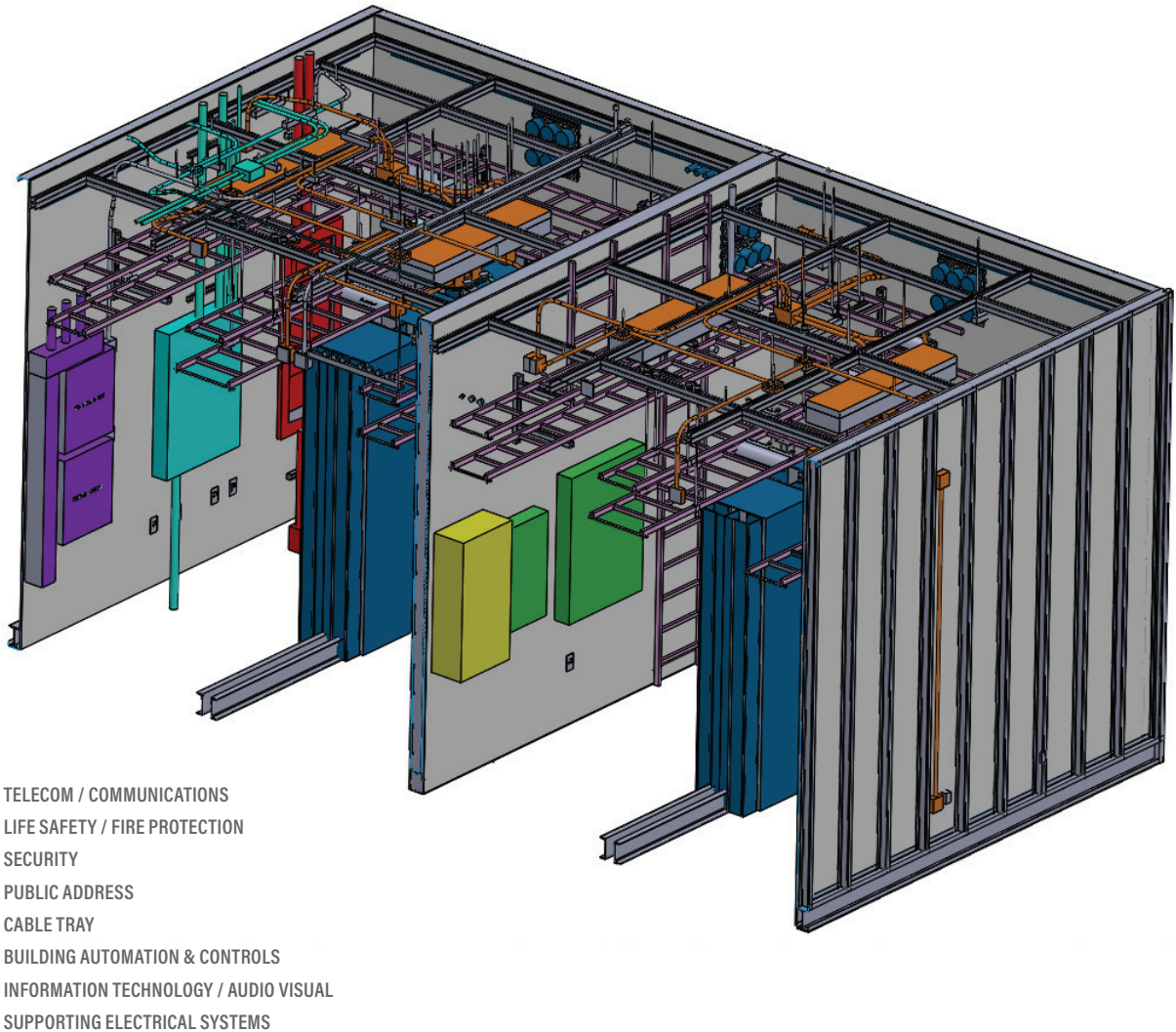
By shifting to modular prefabrication, we perform repetitive work in a controlled environment with fewer hazards and distractions and the right tools available for each task.



## **SUSTAINABILITY**

Our SRM prefabrication process creates less waste on-site and enhances opportunities to reuse and recycle parts at our manufacturing facility.

# TECHNICAL COMPONENTS



AVAILABLE SYSTEMS	SAMPLE EQUIPMENT
Telecom/Communications	Telecom and Network Equipment & Racks (Communications, Public Address, Radio Enhancement Transmission, Relay, Data) Structured Cabling (Copper, Fiber Optic, Coaxial, LV Control) Termination (Copper Patch Panels, Fiber Patch Panels, IDC Distribution Blocks, Screw Terminal Boxes, Splice) Distributed Antenna Systems (Cellular, First Responder, Passive, Active)
IT/AV	Servers and Racks for LAN, WLAN, WAN, SAN, Audio/Visual Systems & Controls
Building Automation & Controls	SCADA, Building Management System (BMS), Electrical Power Monitoring System (EPMS), Data Center Management System/ Infrastructure Management (DCMS/DCIM), Protective Relay Network, Train/Traction
Life Safety, Fire Protection	Fire Detection, Fire Suppression, VESDA
Security	Electronic Access Control, CCTV, Intrusion Detection, Perimeter Security

Technical components are engineered to ensure that both customer specifications and building codes are met for each SRM. The modules are customizable and include all supporting electrical and lighting systems and infrastructure. All components, including government- or owner-furnished equipment, are tracked and managed in a preferred CMMS solution.

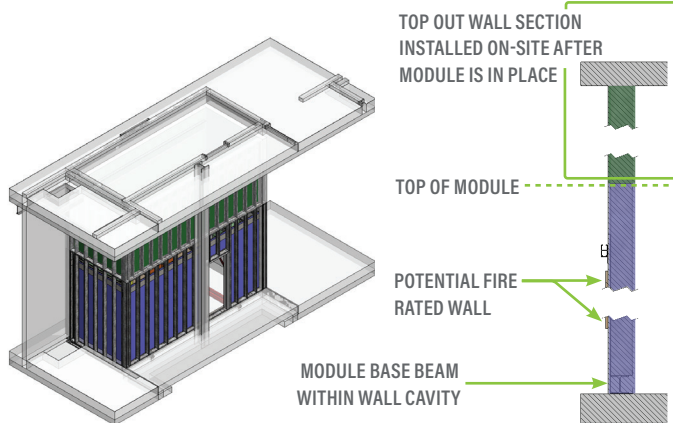


# STRUCTURAL & ARCHITECTURAL INTEGRATION

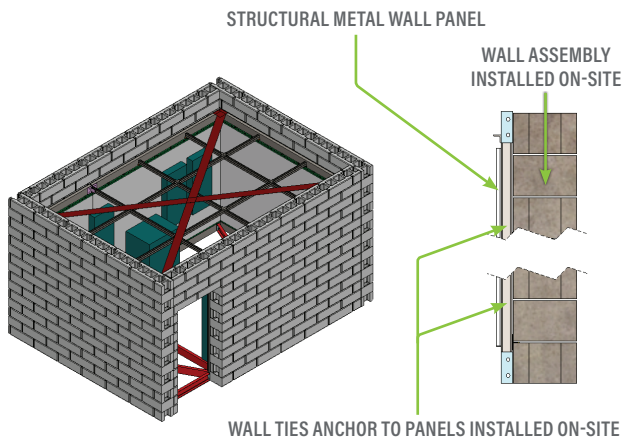
Each module includes the structural components and enclosure necessary to support the systems equipment, interconnecting pathways and circuits, and related components. SRMs can integrate into new or existing construction, including the following wall and floor types:

## WALL INTEGRATION

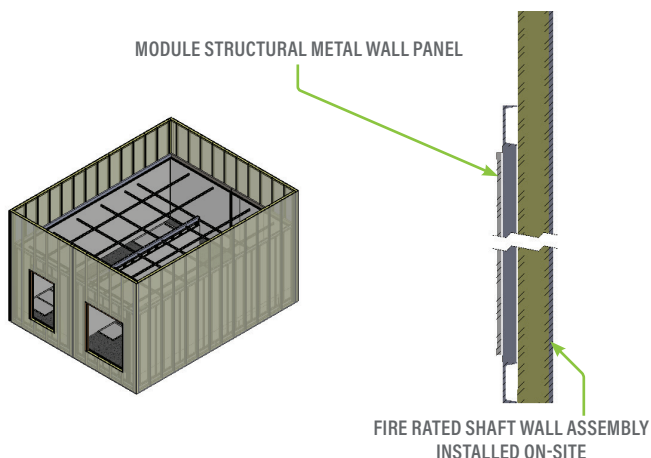
### DRYWALL PARTITIONS



### CONCRETE MASONRY UNIT (CMU)/CONCRETE WALLS

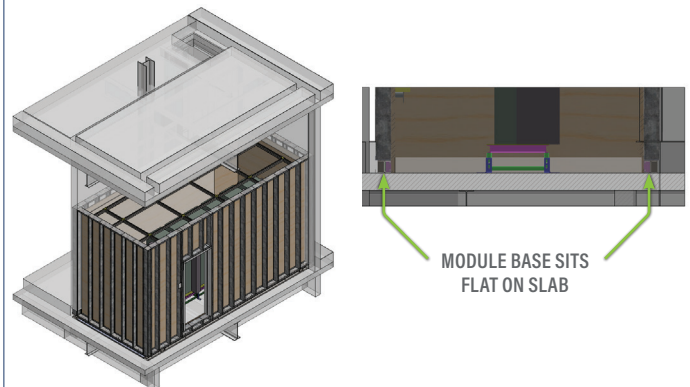


### SHAFT WALLS

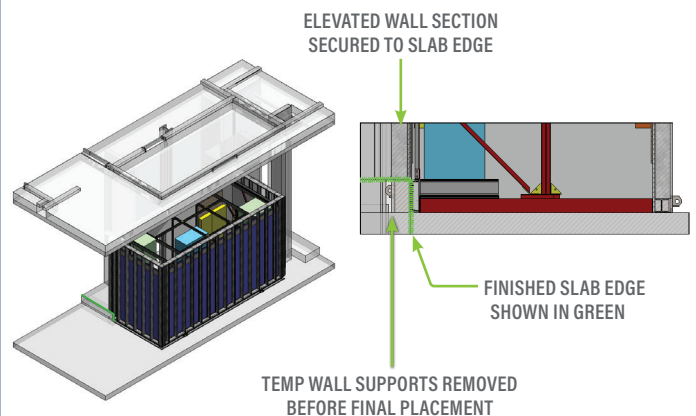


## FLOOR INTEGRATION

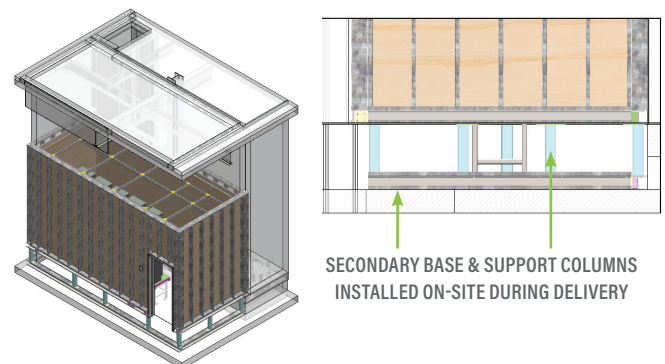
### FLOOR SLAB



### SLAB EDGE



### DEPRESSED SLAB



## LOGISTICS & INSTALLATION

Customers can visit our manufacturing facility during any phase of production and logistics preparation. The following plans ensure smooth modular deliveries.

**Transportation Plans:** Analysis of safety, site conditions, route selection, lifting and rigging, Department of Transportation coordination, and controls to protect the SRM from damage.

**Environmental Control Plans:** Outline of control standards to be maintained during delivery and installation to ensure safety and performance until the building is operational.

**Placement Plans:** Outline of the route, equipment, and schedule for moving an SRM to its final location during the least disruptive timeframe after the concrete slab and prior to interior wall construction.

**On-site Commissioning Plans:** List of systems performance validation and wireless LAN and DAS verifications to confirm the functionality of communications, intercommunications, public address, and nurse call systems after installation.

**Lifecycle Management Oversight:** Project data is saved in InfraLink®, our lifecycle management system, allowing real-time reviews of design models, inventory management, testing/commissioning data, quality checks, and transition planning.

## COMPLIANCE

Our module designs are constructed and tested in alignment with project functional, performance, and architectural specifications, as well as applicable codes and standards.

- |             |            |         |
|-------------|------------|---------|
| ■ ANSI/BOMA | ■ IBC      | ■ NFPA  |
| ■ ANSI/TIA  | ■ ISO 9001 | ■ NICET |
| ■ ASTM      | ■ NEC      | ■ UFC   |
| ■ BICSI     | ■ NETA     | ■ UL*   |

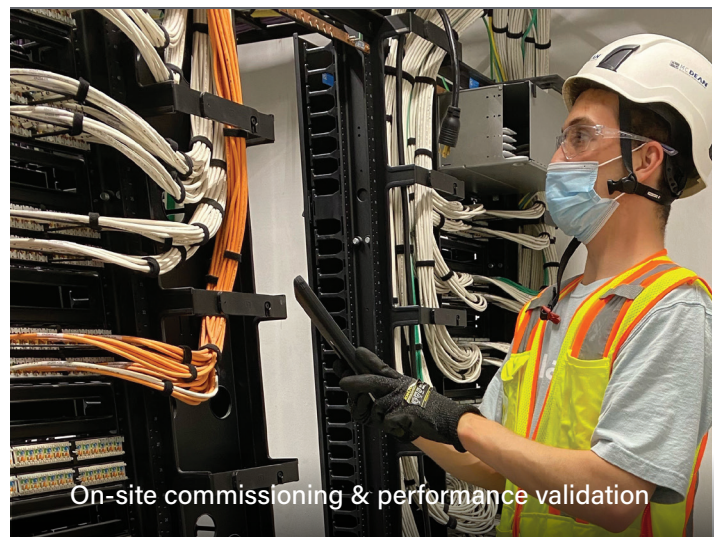
*\*UL ratings for standard components or a complete module per customer specifications.*



Specialized logistics delivery



Delivery and installation in progress



On-site commissioning & performance validation

POWERED BY



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