

DIRTT®

Noncombustible MgO Solid Wall

Brochure

Walls

Product Enhancements

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Noncombustible MgO Solid Wall

A Code-Ready Solution for Noncombustible Partitions

When interior spaces require a noncombustible wall substrate, material options become limited. DIRTT MgO Solid Wall panels are specified when MDF is not permitted and fire-retardant alternatives do not meet the conditions required for a noncombustible partition. Assessed for combustibility in accordance with ASTM E136, these assemblies are designed to meet code requirements while delivering a finished, architectural-grade solution.



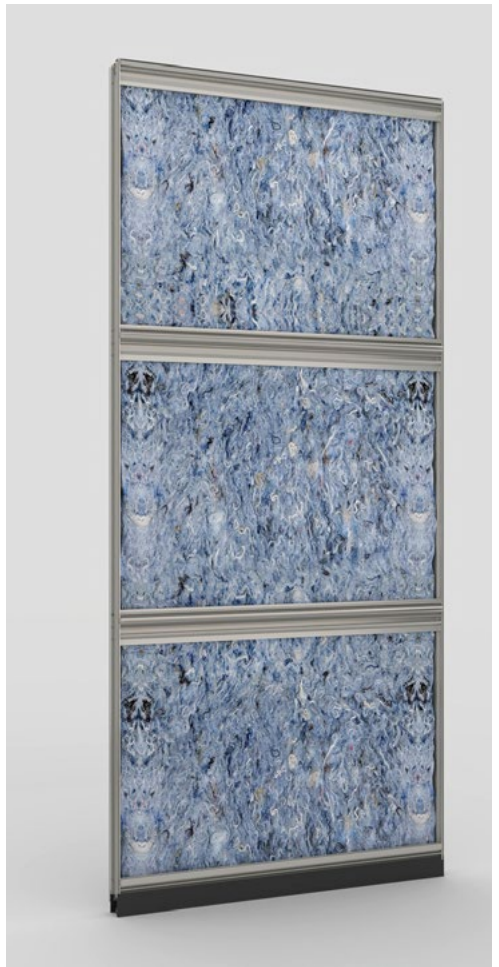


Rethinking What a Noncombustible Wall Can Be

The foundation of the system is magnesium oxide (MgO), a durable material traditionally used in core and shell construction, engineered here as a finished interior wall panel. The result is a noncombustible wall assembly that provides a clean, refined appearance without relying on field-applied finishes, offering advantages over traditional drywall in both performance and constructability.

Built for Durability and Long-Term Value

DIRTT MgO Solid Wall panels are precision-manufactured off-site with device cutouts completed in advance, helping reduce installation time, minimize waste, and streamline construction schedules. As part of the DIRT Construction System, these modular assemblies also allow easier access for maintenance and future modifications when needed, delivering long-term value that conventional wall systems are unable to provide.



Performance + Configuration

SYSTEM FEATURES
MgO panels have been tested in accordance with ASTM E136 for assessing combustibility of materials.
Both sides of the wall behave independently, allowing multiple panel configurations and finish options
Wall assemblies tip into place for quick installation
Standard header uses ceiling track or metal stud kickers
Factory-installed insulation provides improved acoustic performance
Precision manufactured for base building accommodation
Modular design supports quick installation and easy reconfiguration
Frame-to-frame inline connections offer nondestructive adaptability
Wall panels are easily removable for reducing the time and cost of maintenance
Leverage space in the wall cavity to integrate and protect technology

SYSTEM OPTIONS
Available for 2" Furring Walls, 4" Solid Walls, 6" Solid Walls, and Combination Walls
Options with noncombustible fiber glass insulation or recycled class A denim
Header can utilize DIRT integral ceiling perimeter edge angle with pressure-fit gaskets
Support your brand with customized finishes and graphics
Seismic compatible



Technical Overview

DESIGN CONFIGURATIONS

Wall Module Configurations	Configure for seismic compliance when needed
	Select gaskets to support healthcare applications, acoustics, and limiting the transfer of smoke
	Customize ceiling and base trim shape and color
Wall Connections	Standard header uses ceiling track (when ceiling “by others” is constructed to limit the transfer of smoke), or metal stud kickers (when under bulkhead)
	Base track secures to the base building with carpet grippers, double-sided tape, or seismic anchoring
	Wall modules connect with frame-to-frame inline connections
	Wall modules connect to door modules with frame-to-frame inline connections
	Post options: Inline, 90-degree, 120-degree, 135-degree, three-way, four-way, adjustable and drywall

DOOR TYPES

Pivot Doors
Sliding Doors
Swing Doors

DOOR OPTIONS

Frameless Glass Doors
Aluminum-Framed Glass Doors
Solid Core Wood Doors

DIRTT SYSTEM INTEGRATIONS

DIRTT Electrical
DIRTT Casework
DIRTT Networks
Third-party provided hardware and technology



Build dynamic spaces.

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