

Data Center Wall Panels



AI Overview

Data center wall panels are specialized building components designed for durability, fire resistance, energy efficiency, and modular installation to support secure and climate-controlled environments.

Types of Data Center Wall Panels

- 1. Insulated Metal Panels (IMPs)** IMPs, such as Kingspan panels with QuadCore® technology, combine thermal, air, water, and vapor barriers in a single system. They offer high R-values for energy efficiency, strong fire resistance, and airtight construction, which is critical for maintaining precise climate control in data centers. These panels also reduce construction time and labor costs while minimizing installation errors. Additionally, they are designed with low embodied carbon, making them environmentally sustainable compared to conventional concrete walls.
- 2. Aluminum Honeycomb Panels** Aluminum honeycomb panels provide exceptional strength and durability while remaining lightweight, which reduces structural load. They resist impact, moisture, and wear, and can be customized in size, thickness, and finish. These panels also support fire safety and can incorporate features like cable management or access doors, making them ideal for partitions and secure enclosures within data centers.
- 3. PVC Wall Panels** Duramax PVC panels are moisture-resistant, impact-resistant, and easy to clean, making them suitable for server rooms, equipment corridors, and cooling areas. Their smooth, non-porous surface prevents dust buildup and eliminates the need for painting or refinishing. PVC panels are ideal for maintaining controlled, hygienic environments and can withstand high-traffic areas without degradation.
- 4. Modular Wall Systems** Prefabricated modular panels allow for flexible configurations, including hot aisle/cold aisle containment and multi-tenant enclosures. These systems enhance physical security and energy efficiency by directing airflow and reducing energy consumption. Modular walls are easy to install and can be reconfigured as data center needs evolve.

Key Benefits

Energy Efficiency...

Article Content

Aisle Containment Wall

Clear data center aisle containment wall panels, full or partial, to isolate cold air or hot aisles by filling gaps between or above server rack enclosures.

Testrite Instrument Co., Inc. | Framed Modular Panel Walls

Framed panel walls for data center air containment (hot & cold aisle). Encases panels on all sides, supports multiple panel thicknesses, easy onsite reconfiguration. Made in USA.

Data Centres

Data Centres Single Source Integrated Building Solutions for Data Centres We provide data centre construction solutions to some of the world's biggest names

Data Center ChaseWall™

Engineered for rapid installation 8-10 times faster than drywall construction! ChaseWall™ can also be used where large fan units are deployed in the Data Hall. The Data Center Wall Partition is

AccelCore™

A Complete Prefabricated Data Center Solution Clark Pacific delivers structural precast systems and exterior wall panel solutions for

Data Centres

We provide data centre construction solutions to some of the world's biggest names with our well established product portfolio of high performance roof and wall

Acoustic Panels for Data Centers | Fabrix™ Fabric System

Fabric Wall System Fabrix™ Data Center Wall System enhances noise absorption with anti-static, dust-repellent fabric, protecting equipment while ensuring a quiet,

The Growing Role of Insulated Metal Panels in Data

As demand for data processing and storage soars, largely driven by the rise of cloud computing and AI technologies, data centers have become

Data Center Solutions Insulated Wall and Roof Panel Systems Guide

The modern data center environment needs to be a highly adaptable space that provides the ability to respond quickly and easily to tenant and technological changes – all while being cost-effective in

Data Center Black | CertainTeed

The Data Center Black fiberglass smooth panels are specifically designed for data centers, offering exceptional acoustic performance and aesthetic qualities. They are highly resistant to humidity and

Data Center Panels | Pacific Panels

Discover why aluminum honeycomb panels are the ideal solution for data center wall partitions and learn how they can enhance the security, efficiency, and

Data center

Data centers depend on advanced solutions like Troax mesh and perforated steel panels for secure server cages and efficient data hall partitioning, ensuring proper airflow and adaptability to existing

Data Centers | Kingspan US

Because of their all-in-one performance attributes combining air, water, vapor and thermal barriers, Kingspan panels not only reduce the construction timeline, but

Product Solutions for Data Center Walls & Ceilings

Support data center sustainability with drywall designed for fire safety, acoustics, and moisture control—enhancing performance and

Data Centre Mesh Security and Wire Wall Grid Panels at Graepels

Discover Graepels' high-quality data centre mesh solutions and Wire Wall grid panels for data centres. Precision engineering at Graepels.

Aluminium Panels & Ceilings | Data Centres Sound Control

Designed for architectural aluminum applications, Alüm™ offers aluminum mesh, planks, and clip-in panels with low VOC emissions. Whether you need aluminum

Data Centers | Kingspan US

Data Center Solutions Data Centers are the beating heart of today's digital economy. The rise of cloud computing and AI, along with the ever-growing need for more

Server Racks & Cabinets

RackSolutions has been manufacturing high quality server racks and cabinets for over 20 years. Whether you need a single rack at home or a thousand in a data

DATA CENTER

Gordon's Data Center products address security and containment challenges with superior solutions for data center ceilings, aisle containment walls, chase walls,

Data Center Rooms & Walls for Physical Security

Our pre-engineered modular components allow you to construct reliable multi-tenant housings within your data center for ultimate security, or to create hot aisle and

Insulated Panels for Data Centers | KPS Global

Insulated panels for data centers built for speed, thermal control and fire protection. Trusted for performance and reliability.

Data Center Sandwich Panel (2025)

Why High-Strength Wall Panels Are a Must for Modern Data Centers If you've been in the sandwich panel industry as long as I have—20 years to be exact—you know that data center sandwich panels

Aluminium Panels & Ceilings | Data Centres Sound Control

Wall System Alüm™ Data Center Wall System panels deliver a fire-rated aluminum solution, optimizing sound absorption and temperature stability to protect critical

Temporary Walls for Data Centers | SwiftWall® Solutions

Modular, reusable wall systems for data centers and telecom. Control dust, reduce downtime, and simplify containment during fit-outs and phased buildouts.

Ahstor Slatwall Panels, 4 ft x 2 ft Black Garage Wall Panels 24"H x 48 ...

Slatwall Panels, 4 ft x 2 ft Black Garage Wall Panels 24"H x 48"L (Set of 2 Panels), Heavy Duty Garage Wall Organizer Panels Display for Retail Store, Garage Wall, and Craft Storage Organization

Symphony® Data Center | CertainTeed

The Symphony® Data Center panels offer superior sound absorption (NRC 0.75-0.95) and sound attenuation (35-42 CAC), making them ideal for acoustic control. They are certified clean room

Data Center Wall Panels | Data Center Ceiling Panels

Upgrade your data center interiors with Duramax PVC wall panels designed to support clean, controlled environments where reliability matters. Unlike painted

Tate Partition Wall

Its modular system allows for quick installation using durable aluminum framing and pre-assembled components. With a choice of multiple panels, it offers flexibility

Precast Data Center Walls

Our innovative engineering customizes data center walls for high-security and fire resistance, integrating features like reinforced panels and access controls tailored to facility layouts for maximum protection.

Data Center Walls & Enclosures

Data Center Enclosures Data Center Enclosures Security Enclosures Secured enclosures can be created by combining PortaFab's pre-engineered modular wall panels with a variety of doors and

Contact Us

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