

Materials for Wall-Mounted Network Racks



Overview

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Key Takeaways

Wall-mounted network racks are primarily made from steel or aluminum, often with powder-coated finishes for durability and corrosion resistance.

Common Materials

Steel: Most wall-mounted racks, including those from Legrand and D-Link, are fabricated from CRCA (Cold Rolled Close Annealed) steel. Steel provides high strength, rigidity, and the ability to support heavy network equipment, with load capacities ranging from 25 kg to over 300 lb depending on the design. Steel racks are often welded and reinforced to ensure stability, especially in swing-out or heavy-duty models.

Aluminum: Some manufacturers, such as Eaton, use aluminum uprights combined with steel extension brackets. Aluminum reduces overall weight while maintaining structural integrity, making it easier to mount racks on walls without compromising load capacity.

Finishes and Coatings



Powder Coating: Most racks feature flat black or telco gray powder-coated finishes, which protect against corrosion, scratches, and wear while providing a professional appearance . Powder coating is standard for both steel and aluminum components.

Glass and Vent Panels: Front doors may include tempered glass with lock-and-key mechanisms for visibility and security, while top and side panels are often vented to allow airflow and accommodate fan mounts .

Structural Considerations

- **Welded Frames:** Provide rigidity and support for heavier equipment .
- **CNC-Punched and Bent Panels:** Ensure precise alignment for mounting standard 19-inch equipment .
- **Swing-Out or Hinged Sections:** Reinforced steel hinges and latches allow access to rear equipment without compromising structural integrity .

Summary

For wall-mounted network racks, steel and aluminum are the primary materials, enhanced with powder-coated finishes for durability. Additional features like tempered glass doors, vented panels, and reinforced hinges improve usability and protection. Choosing the right material depends on load requirements, environmental conditions, and access needs for your network equipment .

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