

Network rack door panel thickness



Overview

Server Rack Accessories Enhance your server rack setup with doors and panels from Server Racks Online. Our extensive selection includes vented, solid, and.

Key Takeaways

Network rack door and panel thickness typically ranges from 0.5 mm (25 gauge) to 1.5 mm (16 gauge) depending on the panel type and manufacturer. Standard Thicknesses

- Side Panels: Many server racks use 25 gauge (0.50 mm) solid sheet metal for side panels, providing adequate security and structural support while keeping weight manageable (Server Racks Online) .
- Front and Rear Doors: Rack doors, whether solid or perforated, are generally thicker than side panels, often ranging from 0.8 mm to 1.2 mm, depending on ventilation requirements and security features (Penn Elcom) .
- Top and Rear Panels: Similar to side panels, these are usually 0.5 mm to 0.8 mm, with perforated versions slightly thinner to allow airflow (Legrand) .

Material Considerations

- Gauge vs. Millimeter: Lower gauge numbers indicate thicker metal. For example, 16-18 gauge steel corresponds to approximately 1.5-1.2 mm, while 25 gauge is about 0.5 mm.
- Solid vs. Perforated Panels: Perforated panels may be slightly thinner to reduce weight and improve airflow, but manufacturers often reinforce edges or frames to maintain rigidity.

- **Security and Load:** Thicker panels provide better protection against tampering and can support heavier doors with locking mechanisms.

Practical Recommendations

- For standard 19-inch racks in data centers or network closets, 0.5 mm side panels and 0.8–1.0 mm front/rear doors are common and sufficient for most IT equipment.
- If the rack will house heavy servers or high-security environments, consider 16–18 gauge (1.2–1.5 mm) doors for added strength.
- Always check manufacturer specifications, as thickness can vary slightly between brands and models, especially for custom or high-density racks. By understanding these thickness ranges, you can ensure proper structural integrity, security, and airflow for your network or server rack installation.

Article Content

Server Rack Sizes & Dimensions Guide 2026

Total usable depth – Includes rear cable bend radius, door thickness, and airflow clearance. Always allow at least 3–6

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

