

Honduras Cabinet High Temperature Resistance Installation Solution



Article Overview

For high-temperature and high-humidity environments in Honduras, cabinets should combine heat-resistant materials, structural adaptations, and active ventilation or monitoring systems to ensure durability and performance.

Material Selection

Honduran Rosewood is an excellent choice for cabinets in hot climates due to its Janka hardness of 2200 lbf and Modulus of Elasticity of 2.38M psi, providing high surface resistance and minimal deflection under load, making it structurally stable for residential or commercial use . For electrical or industrial cabinets, materials like marine-grade stainless steel or powder-coated aluminum are recommended to resist corrosion and UV degradation in humid, tropical conditions .

Structural Adaptations

- Expansion joints: Allow wood or metal cabinets to expand and contract with temperature fluctuations, preventing warping or cracking .
- Floating panels: Cabinet doors with floating panels reduce stress from humidity changes.
- Support brackets: Reinforce corners and joins, especially in areas prone to thermal expansion or seismic activity .
- Gaps for airflow: Leave 1/4-inch gaps between cabinets and walls to promote natural ventilation

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Scientific Equipment & Furniture Association Recommended Practices

NFPA 30 - Fire resistance rating is a cabinet's ability to keep the inside temperature below 325°F (163°C) which is a conservative

Contact Us

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