

Earthquake-resistant and high-temperature resistant cabinets in stock

Article Overview

Specialized cabinets are available that combine seismic resistance with high-temperature tolerance, protecting electrical and IT equipment in extreme conditions.

High-Temperature Resistant Cabinets

High-temperature cabinets are designed to protect electrical and electronic components in environments with extreme heat or cold. For example, stainless steel cabinets made from AISI 316L can withstand temperatures from -60°C to +250°C, and are suitable for high humidity or very dry corrosive environments . These cabinets often meet IP65 to IP68 protection ratings, ensuring dust and water resistance, and comply with standards such as IEC EN 62208 and EN 60529 . They may also pass horizontal flammability tests and FDA regulations for certain industrial applications . Typical applications include telecommunications, surveillance systems, fiber optics, and industrial automation.

Earthquake-Resistant Cabinets

Earthquake-resistant or seismic cabinets are engineered to maintain structural integrity and protect mounted equipment during seismic events. They are tested according to standards like GR-63-CORE NEBS and certified for Seismic Zone 4 . Key design features include:

- o Welded heavy-gauge steel frames for rigidity
 - o Independently adjustable front and rear mounting frames to accommodate equipment securely
 - o Seismic-certified anchoring and fixing elements to ensure proper attachment to the building structure
 - o Doors and panels designed to withstand vibration and shock without structural failure
- Seismic cabinets are critical because even if the cabinet itself is strong, improperly anchored equipment can fail during an earthquake .

Combined Considerations

While high-temperature and seismic resistance are often addressed separately, some projects require cabinets that meet both criteria. When selecting such cabinets:

- o Verify temperature tolerance and IP rating for environmental protection
- o Ensure seismic certification and proper anchoring according to manufacturer guidelines
- o Consider material choice, such as stainless steel, which provides both thermal stability and structural strength



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o Evaluate component mounting and internal layout to prevent damage during vibration or thermal expansion
Manufacturers often provide engineering support to customize cabinets for specific environmental and seismic requirements, ensuring reliable operation of critical systems over time .

Conclusion

For environments with both high seismic risk and extreme temperatures, specialized cabinets are available that combine thermal resistance, IP protection, and seismic certification. Proper selection, installation, and adherence to standards are essential to ensure the safety and longevity of electrical and IT equipment.

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If a product is to be certified for earthquake resistance to the high-est safety standards, it must be tested for compliance with the

Earthquake-resistant server cabinets are usually used in areas with high seismic activity, where earthquakes can damage equipment



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