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Seismic Product Line

SEISMIC

Overview

Emcor offers electronic enclosures capable of withstanding the seismic stress of earthquakes. These enclosures have been tested and qualified to the rigid requirements of Telcordia GR-63-CORE, Zone 4 Criteria, meaning, they withstood tests for the harshest of seismic activity. Contact the factory for more information.

Features & Benefits

- Modular
- Fully welded construction
- Clean, seamless corner design
- Static Load capacity of 3500 pounds
- 14 gauge and 16 gauge material
- Vertical frame styles
- Available in 19" and 24" panel widths
- Locking hardware
- Floor tie-down brackets
- Overall depth options of 26 5/16", 31 9/16", 36 7/8", and 42"
- Adjustable multi-formed mounting angles with rack unit markings

Seismic Enclosures

The Importance of Seismic Protection

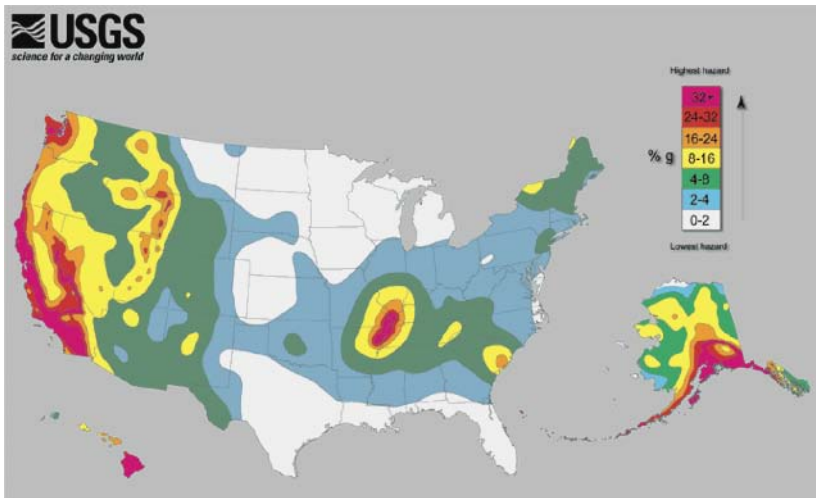
The use of seismic rated enclosures is called for in areas where earthquake activity is possible. Adequate frame strength and rigidity should be part of your plans when choosing an enclosure to be used in these conditions.

Emcor Seismic Qualified Enclosures

Emcor seismic qualified enclosures are designed specifically to protect your equipment during seismic events. To be seismically qualified, an enclosure must meet or exceed the Bellcore NEBS Zone 4 testing objectives and requirements. Emcor has qualified three styles of enclosures to Telcordia GR-63 CORE Physical Protection.

Note

For more information, or to obtain a copy of our seismic report (1.3 MB, PDF) please visit our website.



Map Courtesy of U.S. Geological Survey

Seismic Zones in the US

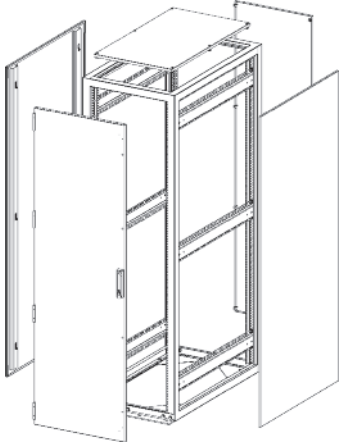
Earthquakes pose one of the most significant threats to companies operating in regions with seismic activity.

Emcor Seismic Design Features

- Fully welded frame structure
- Multi-formed vertical corner posts
- Multi-point latching system
- Robust door hinges
- Locking hardware components such as lock washers and lock nuts
- Floor tie-down brackets

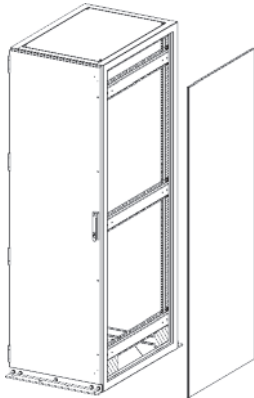
Seismic Enclosures

Emcor Seismic Qualified Enclosure Styles



Light Duty

400 lb. Load Rating with center of gravity at approximately 30".



Medium Duty

630 lb. Load Rating with center of gravity at approximately 30".



Heavy Duty

800 lb. Load Rating with center of gravity at approximately 30".

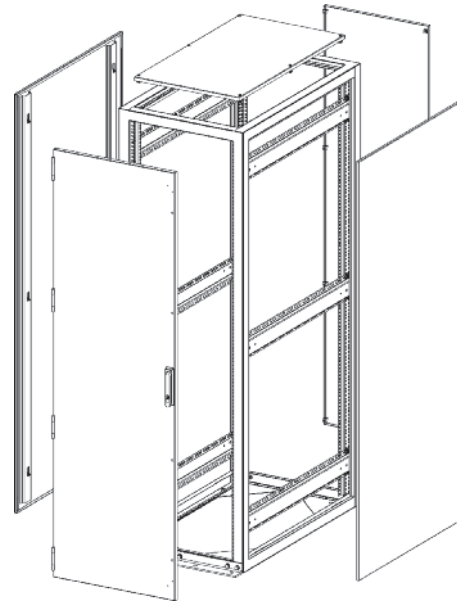
Light Duty - Seismic Enclosures

Light Duty Seismic Enclosures

The light duty system utilizes Emcor's standard 10 Series 14 and 16 gauge frame construction and side panels of a modified 16 gauge heavy duty design. Each frame requires two (2) 1/4" thick tie down brackets, one mounted front and one rear. The qualified assembly consisted of the frame, two (2) side panels, four (4) equipment shelves and a front door. This design is qualified to handle a load distribution of 400 pounds with the center of gravity at approximately 30".

Light Duty Frames are Available in the Following Sizes

	inches	U's
2 Panel Widths	19.000	
	24.000	
3 Overall Depths	26.313	
	31.563	
	36.875	
9 Nominal Vertical Panel Openings	26.250	15U
	33.250	19U
	35.000	20U
	40.250	23U
	49.000	28U
	52.500	30U
	61.250	35U
	70.000	40U
	78.750	45U



SEISMIC

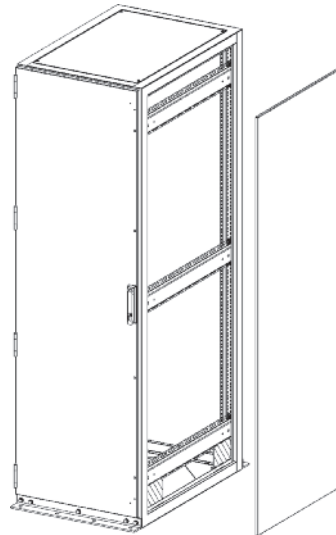
Medium Duty - Seismic Enclosures

Medium Duty Seismic Enclosures

The medium duty system utilizes the same frame as the light duty system with additional back-up welds and frame gussets. Each frame requires two (2) 1/4" thick tie down brackets. This test assembly was equipped the same as the light duty unit except for the front being open without a door. This design qualified at a 630 pound load distribution level with the center of gravity at approximately 30". For more information, please see the latest seismic qualification report on our website (1.3 MB, PDF).

Medium Duty Frames are Available in the Following Sizes

	inches	U's
2 Panel Widths	19.000	
	24.000	
3 Overall Depths	26.313	
	31.563	
	36.875	
9 Nominal Vertical Panel Openings	26.250	15U
	33.250	19U
	35.000	20U
	40.250	23U
	49.000	28U
	52.500	30U
	61.250	35U
	70.000	40U
	78.750	45U



SEISMIC

Heavy Duty - Seismic Enclosures

Heavy Duty Seismic Enclosures

The heavy duty system utilizes Emcor's Military/Tempest Style 12 and 16 gauge frame construction. Side panels are of a modified 16 gauge design. Each frame requires two (2) 1/4" (6.4) thick tie down brackets, one mounted front and one rear. Test assembly consisted of the frame, which has a solid non-removable top and bottom panel area, two side panels, a rear closure panel, eight equipment shelves and a custom flush lift-off front door with a 3 point T-handle latch system. This design has been qualified to handle a load distribution of 800 pounds with the center of gravity at approximately 30".

Heavy Duty Frames are Available in the Following Sizes

	inches	U's
2 Panel Widths	19.000	
	24.000	
3 Overall Depths	28.313	
	33.563	
	38.875	
4 Nominal Vertical Panel Openings	52.500	30U
	61.250	35U
	70.000	40U
	78.750	45U



SEISMIC