

Nominee: Belden

Nomination title: **Belden Racks and Enclosures - Seismic Range**

With Belden seismic range of enclosures, customers can be certain that the Zone 4 cabinets will perform and ensure the integrity of their equipment in earthquake zones.

Belden's broad portfolio of enclosures for hosting servers, switch and networking equipment in Enterprise, Data Centre and Broadcast applications is based on proven concepts and products. Each enclosure is built to meet specific application and customer needs. The modular approach and pre-configured capabilities of Belden enclosures enable fast installation of IT equipment with cable and connectivity management, while providing options for bandwidth scalability, secure features and power and air-flow management.

Belden's seismic enclosures feature a robust steel frame for hosting servers, switches and network components in earthquake zones. Certified to Seismic Zone 4 requirements, these enclosures have passed vibration and shock testing per GR- 063-CORE Network Equipment Building System (NEBS) Requirements with no structural damage in a certified lab.

Seismic Range: Key Distinguishing Features

- Unique Corner-free frame allows for optimal access to integrated front and rear managers
- Welded steel frame construction reinforced with a heavy gauge steel (16, 12 and 11 gauge welded steel) sub-frame for extra rigidity
- Improved curved door design and structure enable improved airflow and enhanced security while giving enclosures modern look and allowing for improved internal space for patch cord routing
- Belden enclosure doors are a combination of perforation pattern (hexagonal-78% opened) and greater perforated surface allow for 11% perforation increase when compared to legacy doors. Highly perforated doors with stiffener channels ensure sturdiness while reducing risk of equipment damage during seismic events. Belden's enclosure doors provide:
 - Weight reduction for easier installation

- Increased durability and rigidity of door frame
- Continuous gasketing on solid doors for improve air containment
- Compatibility with smart access handles – system

- Adjustable EIA mounting rails support a 2,000 lbs. static load under normal operating conditions. Static Load Capacity for Seismic is 1,000 lbs.
- Finger-style vertical managers with brushed cable pass through enable front-to-rear routing while maintaining supply-return air sealing properties
- Compatible with passive and active chimney-based containment solutions
- Pre-configured switch enclosures with cable management, air baffles, intake and exhaust duct (for side-to-side venting) and power distribution units (PDUs) to host CISCO Catalyst 6000 and Nexus 7000 Series switches
- No additional brackets on the floor are required to achieve the Seismic rating on the Belden enclosures to install floor anchors reducing the installation time.
- Seismic Certification: Seismic Zone 4 " Network Equipment-Building System (NEBS)" Requirements GR-063-CORE

Belden Data Centre Ready Solutions

The seismic enclosures are part of the DCRS – Data Centre Ready Solution which provides consultative approach for defining and designing the optimal support environment for selected active equipment. Belden Data Centre Ready Solutions provide:

- In-House Design, Prototyping and Manufacturing

Belden's in-house engineering and state of-the-art sheet-metal fabrication, powder coating and silk screening capabilities enables racks and enclosures production from raw materials to finished goods. This gives unequalled agility to quickly develop — and deliver — technically sound, cost competitive and compromise-free custom solutions to meet the challenges of your specific project.

- Cellular-Based Manufacturing for Fast, Flexible Service

- Customer communicates project needs, goals and challenges directly to Belden design team
- Customization available for quantities as low as ten enclosures
- Quick-turnaround service and streamlined logistics— only 4–6 weeks from concept to delivery

- Varying Levels of Customization to Meet Your Needs

- Custom paint colour matching and silk-screened logos
- Ability to modify standard enclosure frame sizes
- Complete design/build of project-specific enclosures in steel, aluminium or stainless steel

New hinge design (patent pending)

- Doors on end of row enclosures can open 270 degrees
- Allows for the addition or removal of doors for both empty and loaded enclosures
- Doors can easily be removed and oriented to swing in the opposite direction

Why nominee should win

- With a large range of Seismic enclosures, Belden able is to tailor the product to the needs of individual customers. Belden offers fully configured enclosures as a single part number to meet specific application needs.
- The seismic range offers a unique corner-free frame for optimal access to integrated front and rear managers facilitating the cable management and decreasing installation time.
- No additional brackets are required to achieve the Seismic rating on the Belden enclosures to install floor anchors.
- Welded steel frame construction reinforced with a heavy gauge steel sub-frame which provides customers with a very robust and safe enclosure.