

Seismic Base Isolation System Project Profile

Big box retail outlets are being required to address the growing dangers to the public in their stores during a seismic event. FEMA has established new guidelines for these facilities and Ridg-U-Rak responded by designing an innovative rack storage system capable of withstanding the most powerful anticipated earthquake.

Storage System Requirements:

- Maintain rack integrity during large seismic events
- Reduce the risk of personal injury during an earthquake
- Minimize product loss

Seismic Base Isolation System:

- Meets new performance guidelines developed by FEMA
- Passed rigorous testing at the Structural Engineering Earthquake Simulation Laboratory
- Can be utilized in a variety of rack configurations
- Can be retrofitted to existing rack
- Does not impede daily operations

“Our Seismic Isolators dissipated 85% of the earthquake’s ground forces... results were from months of testing”

Jim Courtwright
Chief Engineer,
Ridg-U-Rak

Award Winning!

*Excellence for Innovation
2008 National Earthquake Conference*



RIDG-U-RAK®

*Seismic Base
Isolation
System*





Seismic Base Isolation

Full Scale Earthquake Simulation

18 seconds

25 seconds

30 seconds



Fixed-Base Storage Rack (without Isolators)



Base Isolated Storage Rack



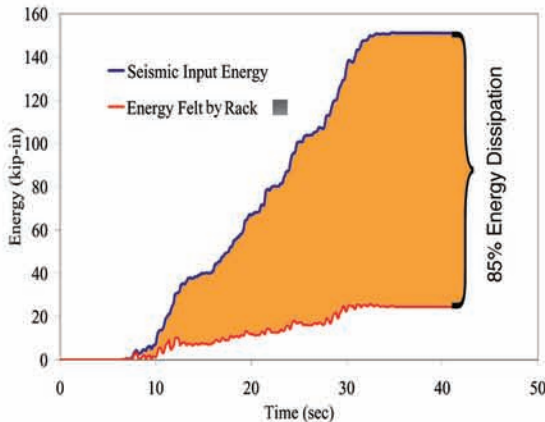
Ridg-U-Rak's Base Isolation Seismic Systems dissipate up to 85% of the seismic energy that can be exerted on a storage system during an earthquake. The base isolation unit is positioned between the columns of an upright frame and anchored to the floor, allowing the rack structure to move. The system is designed to withstand an earthquake 25% more intense than the Northridge or Loma Prieta earthquakes which reached magnitudes of 6.7 and 6.9 on the Richter moment magnitude scale.

Advantages

- Reduce the risk of personal injury
- Limit product loss
- Quicker return to day-to-day operations
- Insurance savings
- Can be installed on new or existing storage systems

Industries

- Big box retail outlets
- Warehousing industry
- Storage facilities
- High value products and commodities



Base Isolators dissipate 85% of the seismic energy.



Famous for integrity for over 60 years

For more information, visit www.ridgurak.com!

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