



Seismic Test Results

Optima Seismic Cabinets are engineered to help your electronic equipment remain operational during severe seismic activity. Our knowledge and design experience has enabled us to manufacture over 5000 seismic hardened cabinets. These cabinets are installed in zone 4 areas worldwide.

Our experience can provide your company with proven seismic packaging system. Southwest Research Institute has tested three versions of Optima's seismic cabinets which all passed shaker table, zone 4, testing. The attached report and graphics were prepared by a certified independent structural engineer.

The recorded results were obtained by simulating zone 4 loading on a model with a 600 lb.. Weight, distributed so the center of gravity was 4 inches above center, to match the actual test conditions. This simulation verifies the actual shaker table test findings, and revealed that the stress level was less than 60% of the allowable maximum amount.

Optima EPS Hardened Cabinets consist of a welded aluminum extrusion frame, bolted to a steel base to provide a light weight and corrosion resistant system.



Cabinet Specifications:

Size: 31.5" wide X 22.2" deep X 71" High

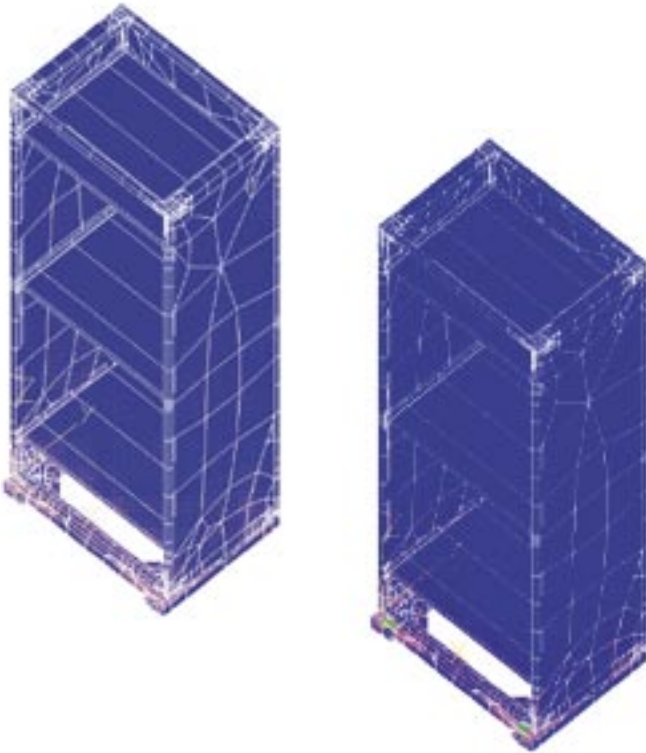
Weight: 190 lb.

Load Applied: 600 lb.

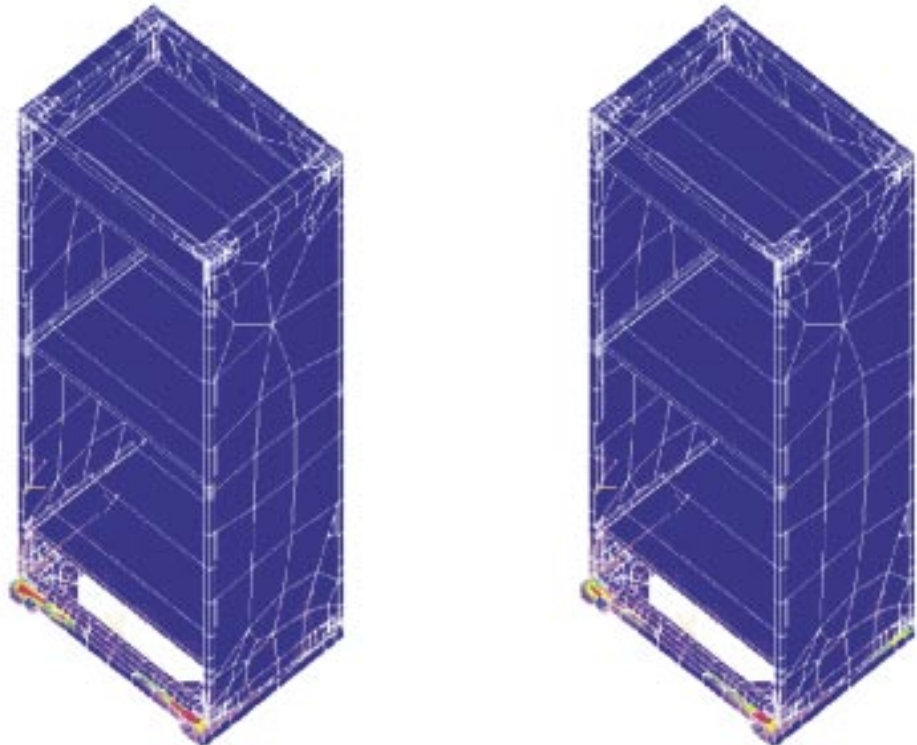
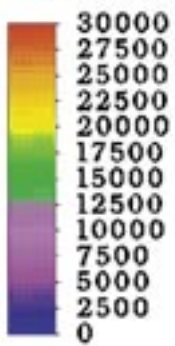
Center of Gravity: 4" above center

Seismic Zone 4 Vibration Loading

The Cabinet models shown above are being subjected to Seismic Zone 4 vibration loading in the "X" (side to side) and the "Y" (front to rear) directions. The colors, range from blue to red, and indicate increasing stress.* The cabinet is subjected to only 20% of the maximum allowable stress and resonant frequency above 7Hz. There are no Failures.



Von Mises



*Von Mises is measured in PSI.

Seismic Zone 4 Shock Loading

The Cabinet models shown above are being subjected to Seismic Zone 4 vibration loading in the "X" (side to side) and the "Y" (front to rear) directions. The colors, range from blue to red, and indicate increasing stress.* The cabinet is subjected to only 60% of the maximum allowable stress. There are no Failures.