

Flagship Partner



taylor devices inc.

Taylor Devices, Inc.

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Web Site: www.taylordevices.com

Contact: Douglas P. Taylor, President

CEO: Douglas P. Taylor

Principal Business: Manufacturer

Year Founded: 1955 ■ Number of Employees: 105

Other Offices: Santa Monica, CA; London, England; Brussels, Belgium

Annual Sales: \$15 Million

Notable Seismic Projects:

Arrowhead Regional Medical Center (CA)

Los Angeles City Hall (CA)

Petronis Twin Towers (Malaysia)

Oakland Bay Bridge (CA)

SAFECO Stadium (WA)

Reasons for Association with MCEER:

To gain knowledge and share ideas.



- **SAFECO Field**, Seattle, WA, the first stadium to use Taylor Devices' products for seismic protection. Using the dampers in the movable roof structure saved over \$5 million.



- **Taylor Seismic Dampers** at SAFECO Field, Seattle. **Close-up** of damper at right.

Company Narrative:

Taylor Devices, Inc., incorporated in 1955, is a leading manufacturer of shock absorbers, seismic dampers, wind dampers, shock isolation systems, seismic isolators, vibration dampers, powerplant snubbers, and other types of hydro-mechanical energy management products. The company's products form the cutting edge of technology in the marketplace, and are backed by 45+ years of successful experience in the shock and vibration control field. Taylor Devices' products are used extensively by both commercial and aerospace markets.

In 1991, Taylor Devices introduced its fluid viscous dampers to the structural engineering community. These products were previously developed by the company for the U.S. Government during the

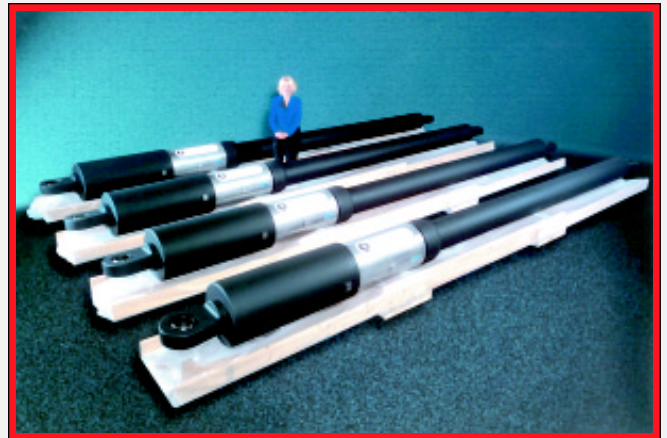
Cold War period to protect ballistic missiles and other large military platforms against nuclear attack. In 1990, Taylor Devices received permission from the government to commercialize this technology. Actual use in commercial structures began in 1992, after extensive testing at MCEER.



- **Taylor Seismic Dampers** at SAFECO Field, Seattle.

More than 100 major building and bridge structures worldwide are

using Taylor Devices' seismic dampers. Today, thousands of Taylor fluid viscous dampers are in service worldwide, protecting engineered structures against the damaging effects of earthquakes and wind storms.



- **SAFECO Field Dampers**—various sizes of **Taylor Fluid Dampers** are used throughout the stadium roof for seismic and windstorm protection. The large units shown above are from a total of 8 used in the roof trusses, and are rated at 1.1 million lbs. output force each. Each damper is 24 feet in length and weighs 4.5 tons. A total of 36 additional Taylor dampers were used between the three sections of the roof, rated at forces of 200,000 to 400,000 lbs. output. The overall seismic protection level is intended to fully protect the structure and its occupants during earthquakes measuring up to 8.5 on the Richter scale. Net cost savings using Taylor dampers vs. conventional design is \$5 million dollars.

