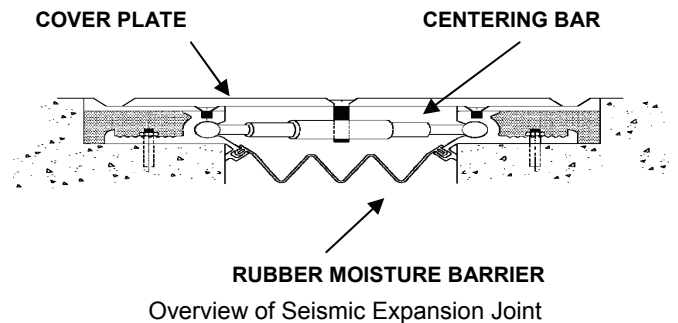


## Seismic Joint Systems

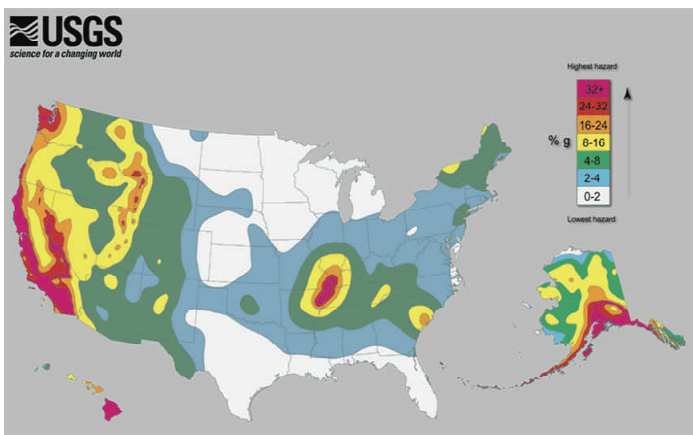
Seismic activity is defined as "the phenomenon of earth movements". Most people refer to seismic activity as an earthquake, tremor, or "the big one". In the U.S., seismic activity primarily occurs along the Pacific Rim, Alaska, and Hawaii. However, there are some areas of the Midwest, South, and Northeast that are also considered "seismic zones". Expansion joint systems play a significant role in the design and construction of buildings located in a seismic zone.



Seismic systems are available for interior or exterior locations, floor, wall, and ceiling applications. A brief list of the features of seismic expansion joints is given below:

- Continuous protection during irregular movement
- Recover back to original status after event has ended (when movement is within the specified design parameters for the joint system)
- Floor joint systems are all ADA compliant
- Covers available in aluminum, brass, or stainless steel
- Typically used with UL rated fire barriers for interior application

For additional information about our seismic expansion joint systems, visit our website ([www.eriemetal.com/seismic](http://www.eriemetal.com/seismic)) or call one of our technical specialists at 716-542-3991.



Map showing seismic regions in U.S.  
(courtesy of U.S. Geological Survey, [www.usgs.gov](http://www.usgs.gov))

The movement experienced during a tremor or quake is more severe than the thermal expansion and contraction that expansion joint systems are typically designed for. During a seismic event, the building (and the expansion joint) may experience multi-directional movements (expansion, contraction, longitudinal, and vertical). To allow for recovery from this dramatic movement, expansion joints are typically very large openings (6" or more). These joint openings must be covered to allow vehicle and foot traffic to safely cross the opening.

EMS has developed various seismic joint systems that provide multi-directional movement capability in response to seismic activities. The metal cover plate and the self centering support bar move in unison to keep the open joint covered during the seismic event, allowing safe passage across the joint opening for pedestrians and vehicles. The rubber apron attached to the lower portion of the joint provides waterproofing capability.

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## “The Most Tested Expansion Joints in The Industry”

- ◆ Seismic Joint Systems
- ◆ Meet the Reps

### Meet The Reps...

Periodically, *EMS NEWS* includes profiles on the people representing EMS, Inc. products in various areas throughout the world. These representatives are available to provide first-class customer service including, but not limited to: technical support for product selection, pricing information, on-site installation support, and post-installation service.



Tim Stiles has over 30 years of experience in the construction industry, both as an installation contractor of epoxy flooring and wall systems, and as a manufacturer's representative. He decided to become an independent

Technical Sales Representative to focus his expertise in the areas of waterproofing, repair and restoration, industrial and decorative coatings to the commercial and industrial construction industries. In addition to EMS expansion joint systems, he is also a manufacturer's representative for Kelmar (waterproofing systems), Thermal-Chem (architectural epoxy systems), and EMBE (industrial epoxy systems). Providing representation for EMS expansion joints and these related products allows Tim to provide a “total

solution” for his customer's waterproofing requirements. Tim's extensive experience as a contractor combined with his first-hand knowledge of the construction industry makes him highly qualified to provide technical assistance to architects, general contractors, and sub-contractors on a daily basis.

Tim graduated from Clarkson University with a Bachelor's degree in Management & Marketing. He has been married for 18 years to his wife Louise and has three kids ages 11, 14, and 17.

If you are in the Northeast or Mid-Atlantic states and need technical assistance or pricing for expansion joint systems or any of the other products represented by Tim Stiles, LLC contact:

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