



Heat Transfer

Seismic Analysis for Gasketed Plate & Frames

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Seismic Analysis or **Earthquake Engineering** is a type of structural analysis that approximates the response of a structure, such as a Heat Exchanger, to earthquakes. It is often a requested part of the structural design or structural assessment in regions where earthquakes are prevalent.

Several different methods/codes exist which define how the structural analysis should be performed. The acceptable method is either governed by local building codes or specified by the designing engineers. Specifying design engineers consider location and designated functions of the equipment to determine the seismic requirements, if any. For example, is the heat exchanger in a system critical to life safety?

ITT Bell & Gossett can supply Seismic Analysis for Gasketed Plate and Frame Heat Exchangers to the Uniform Building Code (UBC), International Building Code (IBC) and American Society of Civil Engineers 7 (ASCE 7) using a Finite Element Analysis (FEA).

Below is a map provided by the U.S. Geological Society that shows relative shaking hazards in the U.S.

