

Title: Photovoltaic earthquake-resistant pipe gallery support

Generated on: 2026-05-13 09:21:17

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How do earthquakes affect pipelines?

Earthquakes generate seismic waves that propagate through the soil and cause temporary and sometimes permanent ground deformations (PGD). Generally there are three different seismic hazards to pipelines. Design for seismic events presents a challenging scenario, as it requires a multi-disciplinary approach to solve a multi-disciplinary problem.

Are ductile iron pipe joints seismic and subsidence resistant?

However it is common practice for seismic and subsidence design to ensure that the proper material is supplied. Ductile iron pipe joint performance can be specified using ISO 16134:2020 Earthquake and subsidence-resistance design of ductile iron pipelines. This specifications allows the pipe to be specified by three different classifications:

How does a pipeline work in seismic applications?

In seismic applications, a pipeline acts like a buried chain. It must expand/contract, deflect, and resist axial forces as a system. If you reduce the length of each link of chain, the more the chain can bend. The same is true with pipe.

How to provide thrust restraint for seismically resilient piping systems?

There are two general approaches to providing thrust restraint for seismically resilient piping systems. Restraint can be accomplished by installing the pipe joints in a fully expanded position which axially transfers the thrust forces. This method of thrust restraint is ideal for installations in liquefaction zones or with soft organic soils.

Earthquake Brace and Bolt (EBB) retrofit technique is a cost-effective and efficient way to improve the structural integrity of an existing building and make it more resistant to seismic activity.

Hebei Qierjie New Energy Technology Co., Ltd.: We're professional seismic bracing, photovoltaic support, aluminum accessory, standard clevis hanger, hexagon coupling nut manufacturers ...

The first and only domestic earthquake resistant ductile iron pipe that provides expansion/contraction and deflection within a single restrained bell joint connection.

Hebei Hekang Metal Products Co., Ltd. is a domestic manufacturing enterprise specializing in the production and wholesale of earthquake resistant brackets, photovoltaic brackets, punched C ...

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Source: <https://esafet.co.za/Sun-10-Dec-2023-27923.html>

Handu's main businesses include pipe gallery fire-fighting and anti-seismic supports and hangers, photovoltaic installation accessories, pipe corridor supports, etc. Handu is one of the largest ...

The company occupies an area of 24 acres and has a full set of production lines for anti-seismic support and hanger accessories, photovoltaic solar brackets, and more than 30 assembly lines of pressing ...

To protect elevated pipe in the event of an earthquake, the engineers came up with an ingenious plan. ... The shaking broke at least five above-ground cross beams that support the pipeline ...

This document specifies the design of earthquake-resistant and subsidence-resistant ductile iron pipelines suitable for use in areas where seismic activity and land subsidence can be ...

Website: <https://esafet.co.za>

