

Can buckling-restrained brace be used in earthquake-resistant design?

Explore some innovative applications of BRBs in earthquake-resistant design of buildings. As an earthquake-resistant structural element, buckling-restrained brace (BRB) not only adds strength and stiffness but provides excellent energy absorption capability to a structure.

Who is Tianjin Hengxing solar energy technology?

Tianjin Hengxing Solar Energy Technology Co., Ltd. is a system integrator specializing in PV mounting system design, procurement, manufacturing, and installation.

What types of PV mounting systems are available?

Their product portfolio includes tracking PV mounting systems, adjustable PV mounting systems, ground-fixed PV mounting systems, building-attached PV mounting systems, photovoltaic building structures, flexible PV mounting systems, PV intelligent cleaning solutions, and building support and suspension systems.

Can a BRB withstand a small earthquake?

The core brace of a BRB is designed to yield under large earthquakes, but remain elastic for small earthquakes. Since energy dissipation is not effected until yielding occurs in the core brace, the use of viscous dampers (VD) to dissipate energy under small earthquake excitations may be beneficial.

What happened to BRB frames after the Northridge earthquake?

After the Northridge Earthquake in 1994, researchers in the U.S. began to re-examine existing steel frame designs and show an increased interest in exploring the potential and benefits of BRB frames. Research on BRBs was therefore accelerated.

Can a core brace be modeled in a severe earthquake?

However, when subjected to moderate to severe earthquakes, the core brace is expected to undergo significant inelastic deformation, and so the BRBs need to be modeled using elastic-plastic elements with the appropriate hysteretic characteristics.

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Jiangsu Guoqiang SingSun Energy Co., LTD. is located in Liyang City, Changzhou, Jiangsu Province, with more than 1,700 employees Guoqiang SingSun, as a service provider focusing ...

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