

Specifications of corrugated plate on the side panels of energy storage containers

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Are corrugated steel plate sidewalls critical lateral load-resisting components in container-like modules? In particular, container-like modules frequently have corrugated steel plate sidewalls that serve as surface enclosures. Several previous numerical simulations revealed that the sidewalls are critical lateral load-resisting components in containers, and frames without wall components provided minimal lateral resistance.

Can corrugated steel plate be modeled as equivalent cross bracings?

The rigidity generated by the corrugated steel plate can be simplified and modeled as equivalent cross bracings. As in Fig. 12, the equivalent braces were modeled as link elements in the structural analysis, and the cross-sectional area A_b was calculated using Eq. (13) to produce the same rigidity as the replaced corrugated plate sidewall.

Does corrugated steel plate sidewall strengthen lateral stiffness?

Simplified model of corrugated steel plate sidewalls. The aforementioned calculations and simulations validated the significant strengthening effect of corrugated steel sidewall to the lateral stiffness of the module.

Does a corrugated plate have a distortion twist?

The corrugated plate presents certain distortion twist when shear load is applied to the modular sidewall (Fig. 7 (a)). In container-like modules, the floor and ceiling beams generally use steel tubes, which would present certain restraining effect to the free distortion twist.

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energy applications can reduce energy costs, minimize carbon footprint, and ...

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