

عنوان مقاله:

Behavior of steel shear walls subjected to fire

محل انتشار:

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خلاصه مقاله:

The steel shear walls are a new resistant system against lateral loads such as wind and earthquake loads. The steel shear wall has the lateral displacement smaller than the concentric bracing system. On the other hands, it reduces consumption of steel by up to 50% in comparison to the steel moment frame. Therefore, it is used extensively in high-rise steel buildings. Despite its great advantages, the steel has a low resistance to fire and the behavior of the steel shear wall against fire is very important. Therefore, the behavior of the steel shear wall subjected to fire is studied in this paper. The realistic fire event and ISO-834 standard fire curves are considered. According to the results, it has been observed that the amount of displacement and duration of resistance in the realistic fire is more than its amount .in the ISO-834 standard fire, and the beams have more resistance under fire

کلمات کلیدی:

Steel shear walls; earthquake; fire; displacement

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