

PAPER ID: 034

Pushover analysis of multi-storied plan irregular building having staggered openings in the shear wall

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Keywords:

- Shear wall;
- Plan irregularity;
- Vertical openings;
- Staggered openings;
- Stiffness;
- Re-entrant corners;
- Drifts.

Abstract: Structural damage is the cause of large displacement due to wind and earthquakes, especially in earthquake-prone areas. Shear walls are typically used in buildings to minimize the resulting damages. But there would be openings in the shear wall for functional purposes (doors, windows etc). There are two possible arrangements for the opening: vertical and staggered. In this research (G+15) stories buildings were investigated based on stiffness, displacement, and drift due to lateral loads. A regular model and two plan irregular models (plus shape and H-shape) were analyzed by using ETABS 2016. Firstly, the effective location of the shear wall was investigated using different shapes of shear wall at different locations. Then, the performance of the buildings was investigated by staggering the openings in the shear wall over vertical openings. For a critical load combination in a plus-shaped building, placing the shear wall at the outer grids than at re-entrant corners, showed a lower displacement of 53 % and 56 % in the X and Y direction respectively. The displacement was just about 13% less in the Y direction for H-shaped buildings. The reason was the development of torsion when the shear wall was placed at re-entrant corners but could be eliminated when placed at outer grids because of the higher moment of inertia of the shear wall. Using staggered openings instead of vertical openings, the displacement was reduced by 3.5% and 4% in X and Y directions respectively, in plus shape buildings. In the case of H shape buildings, the displacement was reduced by 1.2% in the X direction and 4.6 % in the Y direction respectively. It was concluded that buildings with shear walls placed at the outer grids with staggered openings, performed better than those with shear walls placed at the

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