International Journal on Advanced Science, Engineering and Information Technology

#2291 Summary

Submission

Authors	Yakni Idris, - Saloma, - Hanafiah, - Federico
Title	Structural Behaviour of Steel Building with Modified X-Braced EBF (Eccentrically Braced Frames) by Pushover Analysis
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Submission Metadata

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Title and Abstract

Title	Structural Behaviour of Steel Building with Modified X-Braced EBF (Eccentrically Braced Frames) by Pushover Analysis
Abstract	In this paper, modified X-braced EBF steel frame is designed using pushover analysis. This study discussed five models of a steel building with 10 floors. The dimension of each model is 18 m width, 18 m length, and 4 m height. The building has a function as an office in Palembang. The building uses two types of EBF bracing, that is X with a vertical link and horizontal link. The result of the study shows that X bracing, with horizontal link model, has the best effectiveness to increase building stiffness and strength. Model 5 with X Bracing and horizontal link can reduce storey drift to 57.71 %, and drift ratio is 72.38%. By pushover analysis, this model gained the most effective performance point with base shear of 441.67 ton. The performance of the five building models is immediate occupancy (IO).

Indexing

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Supporting Agencies

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References

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please paraphrase this paragraph cause indication plagiarism:

As shown in Figure 1, five points labeled A, B, C, D, and E are used to define the force deflection behavior of the hinge. Point A is always the origin. Point B represents yielding. No deformation occurs in the hinge up to point B, regardless of the deformation value specified
for point B. The displacement at point B will be subtracted from the deformation at point C, D, and E.

Three points labeled IO, LS and CP are used to define the acceptance criteria for the hinge. (IO, LS and CP stand for Immediate Occupancy, Life Safety and Collapse Prevention respectively). The values assigned to each of these points vary depending on the type of member as well as many other parameters defined in the ATC-40 [3].

The earthquake ground motion induces internally generated inertial forces caused by vibration of the building's mass. The building's mass, size, and shape determine these forces and also determine how well they will be resisted.

Plastic hinge is used to describe the deformation of a section of a beam where plastic bending occurs.

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#2291 Review

Submission

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Editor	Balza Achmad

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