International Journal on Advanced Science, Engineering and Information Technology

#2495 Summary

Submission

Authors	- Hanafiah, - Saloma, Yakni Idris, Julius Yahya
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Submission Metadata

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Title and Abstract

Title	The Behaviour Study of Shear Wall on Concrete Structure by Pushover Analysis

Abstract

Shear wall is applied to counter the effects of lateral load acting on a structure. Wind and seismic loads are the most common loads that shear walls are designed to carry in high rise building. This paper used four models of 10 floors building with three variations of shear wall position. The dimension of each floor is 18 m x 18 m. The building is located in Palembang with the soft soil condition, and has function as office buliding. The purpose of this study is to analyze building performance, curve capacity and plastic hinge distribution from pushover analysis. The result of the study was obtained that model 4 is most effective in terms of ductility and strength building. Model 4 is able to reduce deviation 61.43% and reduce drift ratio 69.50%. Model 4 is also reduced deflection at the point of pushover analysis performance 72.64%. Model 3 has smallest number of plastic hinges. The result of pushover analysis shows that the building performance of all model are immediate occupancy.

Indexing

Keywords shear wall; pushover analysis; drift ratio; base shear; plastic hinge

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References

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Editor/Author Correspondence

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Good Morning SALOMA HASYIM:

We have reached a decision regarding your submission to International Journal on Advanced Science, Engineering and Information Technology, "The Behaviour Study of Shear Wall on Concrete Structure by Pushover Analysis".

Authors are MUST present their articles in the section structure:
1. INTRODUCTION
2. MATERIAL AND METHOD
3. RESULTS AND DISCUSSION
4. CONCLUSION.

Please, citation two (2) papers published by IJASEIT in 2015 - 2017.

Editor

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#2495 Review

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Authors	- Hanafiah, - Saloma, Yakni Idris, Julius Yahya
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PeerReview

Round 1

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