

**RUSUNAWA POLBENG BUILDING COLUMN STRUCTURE  
REPLANNING USING EARTHQUAKE LOAD BASED ON SNI 1726: 2012  
AND SNI CONCRETE 2847: 2013**

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**ABSTRACT**

Polbeng Rusunawa Building is a flat specially made for students which consists of 3 floors. In planning the structure of this building is designed to be strong against the loading that occurs so that the building meets the requirements for strength and structural rigidity.

The redesign of the Polbeng Rusunawa building for structural calculations refers to the Indonesian National Standard 2847: 2013 and the Indonesian National Standard 1727: 2013 and the structural modeling refers to the Indonesian National Standard 1726: 2012 analyzed using SAP2000 V.14. From the calculation results on the structure obtained reinforced concrete structure with column dimensions on K1 using dimensions of  $400 \times 400$  mm, but the reinforcement used is less 10D19 main reinforcement and stirrup reinforcement  $\text{Ø}10$ -150 mm. while for K2 still with the same dimensions  $300 \times 300$  mm by using the main reinforcement 8D16 and stirrup reinforcement  $\text{Ø}10$ -120 mm

**Keywords:** Planning, Upper Structure, SAP2000 Dimensions, Reinforcement