

**REPLENING THE COLUMN STRUCTURE OF THE STIE BENGKALIS
BUILDING USING SNI 03:2847:2013**

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Abstract

The high school of economics (STIE) Bengkalis is an education building which consists of 3 floors and is located on Jl poros Sungai Alam, Kec Bengkalis. In planning the structure of this building is designed to be strong against the loading that occurs so that the building meets the requirements of strength and rigidity of the structure.

This building is planned with reference to the structural concrete requirements for buildings (SNI 03-2847-2013) and the forces in the structure are analyzed using the SAP2000 V.14 application. based on the calculation obtained on the reinforced concrete structure, column dimensions (k1) use dimensions of 400 x 400 mm and for main reinforcement uses 8D16 with Ø10-100mm stirrup reinforcement. While for column (k3), (k4) use the same dimensions. Column (k5) using dimensions 8D13 with stirrup reinforcement Ø10-100. And the column (k8) uses dimensions of 250 x 300 mm and for the main reinforcement uses 8D13 with bending reinforcement Ø10-100.

Keyword : *Design, SNI 03:2847:2013, reinforcement, colum, programs SAP2000*