

**EXECUTIVE SUMMARY**  
**THE ANALYSIS OF STEEL REINFORCMENT BAR**  
**APPLICATION ON BEAM USING SNI IN ORCHID**  
**PARK BUSINESS CENTRE SHOP HOUSE**  
**DEVELOPMENT PROJECT**

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This internship aims to test student's knowledge regarding the implementation of building construction and analyzing the beam structure in orchid park business centre development. The internship lasts for three months starting from March 6, 2019 to May 6, 2019, using observation methods, interview and data collection.

This internship allows the author gains real works experience on building structure construction method gradually and structure quality control in practically based on SNI 2847-2013.

The information required from the results of analysis and structural design done by the author during the internship prove that the beam structure output is based of SNI 2847-2013. The specification on main reinforcement beam using 5D16 for upper part, 3D16 for lower part, 2D16 for middle part with  $\phi 8-100$  mm for rebar and the deflection point is 0.002444 m which has met the requirement below  $\frac{L}{360}$ . So the beam structure that works on the Orchid Park Business Centre Shop House has met the requirements of SNI 2847-2013 and it stated safe.

*Keywords : analysis, beam, SNI 2847-2013*