

EXECUTIVE SUMMARY

COLUMN STRUCTURE ANALYSIS OF BUILDING 10 FLOOR PROJECT SANTIKA HOTEL BATAM

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The column is a pole or stem that holds the press from the vertical direction, and carries the load of the beam above it. Columns play an important role in the structure of the building, as the column is an element that is able to withstand the collapse of the building.

The composition of a column is a combination of iron and concrete. Where these two materials have an advantage in holding the pull or pressure. Iron is a material that has the ability to withstand traction, while the concrete is a material that has the ability to withstand pressure. Thus the combination of these two materials can withstand the style of tensile or press that occurs on the beams and sloof.

The column used in the Hotel Santika is a reinforced concrete column that uses a D25 of 20 rods. While based on the authors ' calculations, there is a difference in the repatriation resulting in the calculations in Chapter V. This can also be caused by comparison of calculation methods used by authors with building designers.

Keywords: *column structure, calculation analysis*