

UNIVERSITAS INTERNASIONAL BATAM

Undergraduate Thesis
Faculty of Civil Engineering and Planning
Academic Year 2018/2019

**COMPARISON ANALYSIS OF ROOF NEEDS USING
LIGHT STEEL FRAME AND REINFORCED CONCRETE**

NPM : 1411055
ILHAM OCTAVIAN

Abstrak

One very important part of building construction. The results of this research are the characteristics of mild steel thinner and lighter compared to reinforced concrete, for the installation of lightweight steel faster than concrete which must use casting. In terms of nominal load not reinforced concrete is much heavier than mild steel $5 \times 4 \text{ m}^2 = 2,2584 \text{ Ton}$, while concrete is not $5 \times 4 \text{ m}^2 = 18,016 \text{ Ton}$.

efficient and efficient tip of mild steel need manual calculation and measurement of mounting installation. In addition, choosing lightweight pre-fabricated steel materials is also guaranteed to be neat and accurate, inexpensive and can be found everywhere. Compared to not concrete, it must make casting first and have a composite type future and become much heavier, but not concrete is more durable in the age of

Keywords: Analysis, Concrete, Light Steel Frame