

ABSTRACT

The house is a pillar of family growth that is good in term of welfare, health and social aspect. Home needs thatt continue to increase every year but are not matched by the availability of land in its implementation, so one of the solition is the government to build Flats in various regions to meet the needs of Indonesian poeple's dwelling. But in general, the Flats that have been built by the government still use convensional walls that use paint as facades, the authors want to use Aluminium Composite Panel (ACP) material to make it look more luxurious and have more resistance.

The purpose of this research is want to know the comparison of implementation time and costs incurred if the two types of facades are applied to Flats buildings. With project real data that has been worked on both conventional walls and ACP as a basis for analysis, the authors are looking for Flats structures to be modeled. Namely Flats PP Bidayatussalikin, Sleman (2016) with a wall area of 653,65 m² and Flats PP Tanbihul Ghofilin, Banjarnegara (2013) with a wall area of 352,13 m².

The results of the analysis for the implementation of PP Tanbihul Ghofilin in Banjarnegara Flats with a wall area of 352,13 m² on a conventional wall have 7 weeks and ACP wall have 2 weeks, where the ACP wall work time is 3.5x faster than conventional wall work time. Meanwhile, for PP Bidayatussalikin Flats in Sleman with a wall area of 653,65 m² on on a conventional wall have 12 weeks and ACP wall have 4 weeks, where the ACP wall work time is 3x faster than conventional wall work time.. Cost per square meters for conventional wall is Rp.219.000,00 and ACP wall is Rp.843.000,00 which has a diference in costs of Rp.624.000,00 with this the cost of ACP walls is 3,85x expensive when compared to conventional wall costs.

Keywords: Flat, Conventional Wall, ACP Wall, Time and Cost