

Abstract

At present, prefabricated truss is becoming very popular and replacing steel truss, the conventional technique. However, there is still no research that collects real data from sites to compare between both techniques in installation time, quality of works, and also cost of investment aspects. Hence, the researcher was interested to study the advantages of prefabricated truss, compared with steel truss in middle tier housing projects. The objective of this research was to compare the building time, quality, and cost of the both techniques of roofing construction. The study began with reviewing of components of the roofs and installation steps. The next step was collecting data about the quality, cost of investment, and the installation time used in four houses by observing, taking notes and taking photos. Then, the researcher analyzed all of the collected data to compare between steel truss and prefabricated truss. The results revealed that prefabricated truss use less time to install than steel truss 55.56% and higher cost of investment 27.19% with the higher roof quality than steel truss 37.14%. Finally, users can use the acquired information to select an appropriate construction technique in making a roof.