

Alternative Housing Solutions in Southern California

Authors : Scott Kelting, Lucas Nozick

Abstract : The perpetually growing population and economy within the United States necessitates building construction of all types. Increased building generates environmental concerns, and rightfully so. This industry accounts for approximately 4% of the total GDP in the United States while creating around two-thirds of the material waste annually. The green building movement is certainly gaining popularity in both application and recognition through entities such as the United States Green Building Council (USGBC) and their LEED program; however, builders are also producing their ideas. Alternative housing solutions that include pre-fabricated building components and shipping container homes are making great strides in the residential construction industry, and will certainly play an important role in the future. This paper will compare the cost and schedule of modular, panelized and shipping container homes to traditional stick frame home construction in the Greater Los Angeles Metropolitan Area and recommend the best application for each option.

Keywords : cost, prefabricated, schedule, shipping container, stick framed

Conference Title : ICCEE 2017 : International Conference on Civil and Environmental Engineering

Conference Location : Bangkok, Thailand

Conference Dates : August 30-31, 2017