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Steel vs. Wood Cost Comparison Beaufort Demonstration Homes

By -

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.Despite the availability of cold-formed steel framing, there are still basic barriers that impede its adoption in the residential market. Probably the primary barrier is that the building industry is generally reluctant to adopt alternative building methods and materials unless they exhibit clear cost or quality advantages. A second barrier is how the thermal conductivity of steel affects energy use in homes. The scope of this project was limited to constructing two identical side-by-side homes at three different locations in the U.S. Each location had unique labor rates, material costs, size, shape and style of construction. The sites include Indiana, South Carolina, and North Dakota. Each site has a house framed with conventional dimensional lumber and a second one framed with cold-formed steel. Blower door tests are to be conducted for all demonstration homes to determine the levels of air infiltration for each house. Co-heat tests are also to be conducted at two sites (Valparaiso, Indiana and Fargo, North Dakota) to determine the energy consumption of each tested house. This report is limited to the findings of the...



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