Builders Building a Passive House - Not so Difficult or Mysterious

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High-R Walls for the Pacific Northwest—A Hygrothermal Analysis of Various Exterior Wall Systems

Research Report - 1014
1 June 2010
Jonathan Sinegal and John Straube

Abstract:
This report considers a number of promising wall systems that can meet the requirement for better thermal control. Unlike previous studies, this one considers performance in a more realistic manner, including some two and three-dimensional heat flow and analysis of the relative risk of moisture damage.

Wall 8: 2x8 Advanced framing with exterior insulation
Wall 8 was constructed by adding 1" of exterior XPS insulation to Wall 7. This will improve the thermal and moisture performance from Wall 7 by reducing thermal bridging and condensation potential.

Figure 30: 2x8 advanced framing with blown fiberglass cavity insulation and exterior insulation
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QUESTIONS??

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Building Carbon Zero Marin
implementing energy efficiency in Marin’s building sector