

## Premier ICF No. 7006

**Subject: Concrete Consolidation in the Premier ICF System**

**Date: February 2011**

Concrete form applications that use rigid wood, steel or hard board require that concrete placed within the form be consolidated by vibration. The vibration requirement for these type of form materials is necessary to ensure that no voids or pockets are created in the concrete. Voids can be caused by the lack of flow around obstacles such as ties, rebar and blockouts within these rigid form types. Air also may be trapped during the pour.

Premier ICF does not require vibration when you follow Premier Building Systems recommended application procedures. The Premier ICF Tie is designed to allow 4" - 6" slump concrete, with 3/4" or smaller aggregate to readily flow around and through the tie. The Premier ICF Tie design, along with the natural vibration that takes place in the form system during the concrete placement, eliminates the need for additional vibration. The natural vibration caused by the concrete placement eliminates voids and honey-combing in the Premier ICF System wall.

Premier Building Systems has evaluated in-place Premier ICF walls to prove that consolidation does occur. Block-outs have been removed and the R-Shield® MPS with termite treatment stripped from the projects. Each of these applications showed excellent consolidation of the concrete.

To further demonstrate that complete consolidation occurs around the Premier ICF Ties, a concrete saw was used to cut through a typical 8" Premier ICF wall. The cut was made directly in line with a row of Premier ICF Ties. It was found that concrete had flowed through and completely around the Premier ICF Ties. Consolidation was so complete that the printing found on the web of the tie was embossed into the concrete and legible.

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