



Clark County Department of Building & Fire Prevention

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Division:	Building Division - Engineering	Code Interpretation	BE-CI-004
Subject:	CONCRETE TILT-UP	Effective Date:	05/01/2007
Code:	2012 IBC & ACI 318-11, 7.6.5, 10.5.4 and 16.4.2	Revised Date:	07/13/2016

A. CODE REQUIREMENT

In a typical concrete tilt-up application there will be a cold joint between the footing and the tilt-up wall. Dowels are used to transfer the shear load from the tilt-up walls to the slab and/or foundation.

B. INTERPRETATION



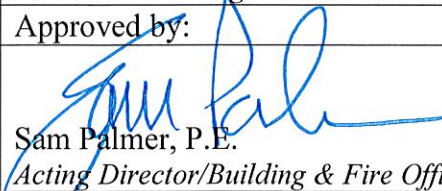
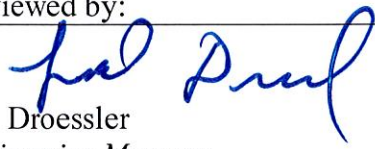
The spacing of these dowels shall be determined by calculation based on the required area of steel with a maximum spacing of 18 inches on center.

C. RATIONALE

Section 10.5.4 requires structural slabs and foundations to have a maximum reinforcement spacing of 18 inches. Section 16.4.2 requires exterior tilt-up walls to have a maximum reinforcement spacing of 18 inches. The ACI 318 is unclear on the maximum spacing of the dowels that transfer the shear load from the wall to the slab and/or foundation. The interpretation outlined above is based on an interpretation from ACI on this issue.

Revision History:

POLICY #	TITLE	Effective Date	Revised	Reviewed
AD-CI-IBC-014	Concrete Tilt-Up	05/01/2007		
BD-CI-004	Concrete Tilt-Up			08/15/2008
BD-CI-004	Concrete Tilt-Up		05/20/2011	06/30/2013
BD-CI-004	Concrete Tilt-Up		06/20/2014	
BE-CI-004	Concrete Tilt-Up		06/15/2015	
BE-CI-004	Concrete Tilt-Up			07/13/2016

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Reviewed by:  Ted Droessler <i>Engineering Manager</i>	