



PUBLIC CODE CHANGE PROPOSAL FORM

FOR PUBLIC PROPOSALS TO THE INTERNATIONAL CODES

2012/2013 CODE DEVELOPMENT CYCLE

CLOSING DATES: Group B Codes: **January 3, 2013**

R 403.1.1 Footing size

1)

Name:	Chuck Bajnai	Date:	7/11/2011
Jurisdiction/Company:	Chesterfield County, VA		
Submitted on Behalf of:	VBCOA		
Address:	9800 Government Center Parkway		
City:	Midlothian	State:	VA
		Zip Code:	23832
Phone:	804-717-6428	Ext.	Fax:
E-mail address (see # 4 below):		bajnaic@chesterfield.gov	

Copyright Release: In accordance with Council Policy #28 Code Development, all Code Change Proposals, Floor Modifications and Public Comments are required to include a copyright release. A copy of the copyright release form is included at the end of this form. Please follow the directions on the form. This form as well as an alternative release form can also be downloaded from the ICC website at www.iccsafe.org. If you have previously executed the copyright release for this cycle, please check the below:

X 2012/2013 Cycle copyright release on file

3) **Code:** Indicate appropriate International Code(s) associated with this Public Proposal – Please use Acronym: **IRC**

If you have also submitted a separate coordination change to another I-Code, please indicate the code:

(See section below for list of names and acronyms for the International Codes).

NOTE: Sections of the International Codes that have a letter designation in brackets in front of them are the responsibility of a different committee than the committee normally responsible for that code. For instance, Section 301.1.4 of the IEBC has a [B] in front of it, meaning that this section is the responsibility of one of the IBC Code Development Committees (in this case, IBC-S). Any proposed changes to Section 301.1.4 will be heard by the IBC-Structural committee.

Therefore, some code change proposals to Group B code text may be due in order to be heard by Group A code development committees, and vice versa. Please go to www.iccsafe.org/responsibilities for detailed information on Group A and Group B Code Development Committee responsibilities.

4) **E-mail address:** Your email address will be published with your code change proposal unless you check here: _____

Please make the following changes to Section R403.1.1

R403.1.1 Minimum size. Minimum sizes for concrete and masonry footings shall be as set forth in Table R403.1 and Figure R403.1(1). The footing width, W, shall be based on the load-bearing value of the soil in accordance with Table R401.4.1. Spread footings shall be at least 6 inches (152 mm) in thickness, T. Footing projections, P, shall be at least 2 inches (51mm) and shall not exceed the thickness of the footing. The size of footings supporting piers and columns shall be based on the tributary load and allowable soil pressure in accordance with Table R401.4.1. footings for wood foundations shall be in accordance with the details set forth in Section R403.2, and Figures R403.1(2) and R403.1(3).

TABLE R403.1
MINIMUM WIDTH OF CONCRETE,
PRECAST OR MASONRY FOOTINGS
(inches)*

	LOAD-BEARING VALUE OF SOIL (psf)			
	1,500	2,000	3,000	≥ 4,000
Conventional light-frame construction				
1-story	12	12	12	12
2-story	15	12	12	12
3-story	23	17	12	12
4-Inch brick veneer over light frame or 8-Inch hollow concrete masonry				
1-story	12	12	12	12
2-story	21	16	12	12
3-story	32	24	16	12
8-Inch solid or fully grouted masonry				
1-story	16	12	12	12
2-story	29	21	14	12
3-story	42	32	21	16

For SI: 1 inch = 25.4 mm, 1 pound per square foot = 0.0479 kPa.

a. Where minimum footing width is 12 inches, use of a single wythe of solid or fully grouted 12-inch nominal concrete masonry units is permitted.

Insert the following table:

TABLE R403.1
MINIMUM WIDTH OF CONCRETE, PRECAST OR MASONRY FOOTINGS

[illegible]

1. Assumes basement wall of 8 inch poured concrete or 8 inches of solid grouted cmu at 8 feet tall. If the wall is 10 inches thick at the footing, increase the footing width by 2 inches. If the wall is 12 inches thick at the footing, increase the footing width by 4 inches. (For crawl spaces it assumes 36 inch foundation wall.)
2. Assumes the basement is story below grade.
3. Based on 32 foot wide house (i.e. 16 foot tributary roof load plus 1 foot of overhang). For every 2 feet of adjustment to the width of the house add or subtract 2 inches of footing width and 0.50 inches of footing thickness.
4. Interpolation allowed.

Reason statement:

The existing table is virtually worthless. It is based on a snow load of 70 psf. For other parts of the country, it does not help much.

This new table factors in the snow load and the soil bearing capacity along with the three different framing styles: light framing, light framing with veneer, and 8" grout filled cmu perimeter walls.

Cost Impact: There could be a cost reduction if the contractor lives outside the 70 psf snow belt because he/she will not have to hire an engineer to determine footing sizes.

Public Hearing:	Committee:	AS	AM	D	DF
Assembly:	ASF	AMF			
