



# Approval Procedure for Superior Walls Xi

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In accordance with the Virginia Uniform Statewide Building Code 2006 Edition:

## **USBC 109.3 Engineering details**

The building official may require adequate details of structural...work to be filed, including computations, stress diagrams and other essential technical data. All engineering plans and computations shall include the signature and seal of the professional engineer or architect responsible for the design...

## **USBC 112.2 Performance**

Where practical, under § 36-99 of the Code of Virginia, provisions of the USBC have been stated in terms of required level of performance to facilitate the prompt acceptance of new building materials and methods. The provisions of the USBC are not intended to prohibit the use of any material or method of construction not specifically prescribed by the USBC, provided any such alternative has been approved. An alternate material or method of construction shall be approved when the building official finds that the proposed design is satisfactory and complies with the intent of the provisions of the USBC, and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed by the USBC in quality, strength, effectiveness, fire resistance, durability, and safety.

## **USBC 112.3 Basis and approval of materials**

The building official shall require that sufficient technical data be submitted to substantiate the proposed use of any material, equipment, device, or assembly. If it determined that the evidence submitted is satisfactory proof of performance for the use intended, the building official may approve its use subject to the requirements of the USBC. In determining whether any material, equipment, device, or assembly complies with the USBC, the building official shall approve items listed by nationally recognized independent testing laboratories or may consider the recommendations of architects and engineers licensed in this Commonwealth.

Provide the following:

1. A letter with original signature requesting that the building official approve the proposed Superior Wall Installation in accordance with USBC Section 112.
2. Design calculations and details for Superior Walls Xi panels verifying compliance with Section R301 of the *2006 International Residential Code*. These documents shall be prepared by an architect or professional engineer licensed in this Commonwealth. Please note that Reimer Associates "Supplemental Calculations - Structural" for Xi panels may only be used with Superior Walls' expressed written permission. Please contact Jim Avery at Superior Walls of Virginia for further information.
3. A structural analysis of the proposed building including uniform and concentrated loads. This information, along with the location(s) of double or triple studs and precast column pads, must be annotated on the foundation plan by an individual identified on the construction documents who is competent and qualified in the application of the structural design principles involved.

4. A soil report in accordance with *James City County Soil Testing Policy*. If low shrink-swell soils are indicated in the report, compliance with the *Superior Walls Builder's Guideline Booklet*, dated January 2007, second edition, is required. If other than low shrink-swell soils are present on the site a foundation design which complies with the applicable provisions of Chapter 18 of the *2006 International Building Code* is required. The design must be specifically prepared for the proposed Superior Walls foundation.
5. Superior Walls isometric and placement plans.
6. A copy of the *Xi Fire Test UL 1715* for Superior Walls (not required if the interior side of the panels will be covered with 1/2-inch gypsum wallboard in accordance with IRC Section R314.1.2). A copy of this report is available at the Plans Examiner's desk.

Approval of Superior Walls Xi foundations will be contingent upon:

1. Conformance to the Approved Plans, including the *Superior Walls Builder's Guideline Booklet*, dated January 2007, second edition, and *Superior Walls Code Inspector's Checklist* as verified by James City County Code Compliance Inspectors. Approved construction documents must be kept on the building site. [USBC 109.5]
2. The "Conditions of use" noted in ICC/ES Legacy Report ESR-1553 are applicable even though the remainder of this report is not valid for Superior Walls Xi panels. This report is available at: [http://www.icc-es.org/reports/pdf\\_files/BOCAI-ES/21-72.pdf](http://www.icc-es.org/reports/pdf_files/BOCAI-ES/21-72.pdf)
3. Special conditions requiring additional information as noted at plan review.

For additional information, please contact Ernie Gabler at (757) 253-6826.