



STATE OF WASHINGTON
STATE BUILDING CODE COUNCIL

1. State Building Code to be Amended:

- | | |
|---|---|
| <input type="checkbox"/> International Building Code | <input type="checkbox"/> State Energy Code |
| <input type="checkbox"/> ICC ANSI A117.1 Accessibility Code | <input type="checkbox"/> International Mechanical Code |
| <input type="checkbox"/> International Existing Building Code | <input type="checkbox"/> International Fuel Gas Code |
| X International Residential Code | <input type="checkbox"/> NFPA 54 National Fuel Gas Code |
| <input type="checkbox"/> International Fire Code | <input type="checkbox"/> NFPA 58 Liquefied Petroleum Gas Code |
| <input type="checkbox"/> Uniform Plumbing Code | <input type="checkbox"/> Wildland Urban Interface Code |

Section(s): 703.1.1,
New Section 703.3

Title: Water Resistance
New Section – Means of Drainage

2. Proponent Name (Specific local government, organization or individual):

Proponent: Theresa Weston, DuPont Building Innovations
Title: Technical Fellow
Date: February 23, 2015

3. Designated Contact Person:

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4. Proposed Code Amendment. Reproduce the section to be amended by underlining all added language, striking through all deleted language. Insert new sections in the appropriate place in the code in order to continue the established numbering system of the code. If more than one section is proposed for amendment or more than one page is needed for reproducing the affected section of the code additional pages may be attached. (Examples on the SBCC [website](#))

Code(s) IRC Section(s) R703.1.1 & New Section R703.3

Enforceable code language must be used; see an example [by clicking here](#).
Amend section to read as follows:

Revise Section R703.1.1

R703.1.1 Water resistance. The exterior wall envelope shall be designed and constructed in a manner that prevents the accumulation of water within the wall assembly by providing a water-resistant barrier behind the exterior veneer as required by Section R703.2 and a means of draining to the exterior water that ~~enters the assembly~~ intrudes past the exterior veneer to the exterior, as described in R703.3. Protection against condensation in the exterior wall assembly shall be provided in accordance with Section R702.7 of this code.

Add New Section R703.3:

R703.3 Means of drainage. Drainage media shall provide a minimum drainage efficiency of 75 percent when tested in accordance with ASTM E2273. Assemblies containing a minimum 1/8" (3mm) airspace between the water-resistive barrier and the exterior veneer shall be deemed to comply.

Renumber subsequent Sections

5. Briefly explain your proposed amendment, including the purpose, benefits and problems addressed. Specifically note any impacts or benefits to business, and specify construction types, industries and services that would be affected. Finally, please note any potential impact on enforcement such as special reporting requirements or additional inspections required.

This proposal is intended to provide clarity to the requirement for drainage in the code:

- (1) clarifying is Section R703.1.1 that the means of drainage is to manage water which intrudes past the exterior surface of the veneer (either through the veneer or at penetration interfaces) rather than all water that enters the assembly, which might be interpreted to include the need to drain an internal insulation cavity from condensation moisture or a burst pipe.
- (2) providing a performance metric for the drainage requirement.

Drainage is an important component of managing water, especially under high rainfall/ exposure conditions, such as those in the Pacific Northwest and other Marine climates. Additionally, it is becoming increasingly important to manage the moisture durability as the industry moves to more highly insulated walls. Providing a performance measure for the drainage will aid in the ability to enforce the drainage requirement already present in the code. The proposed drainage requirements are consistent with those adopted into the Oregon State Residential Code in 2010.

6. Specify what criteria this proposal meets. You may select more than one.

- The amendment is needed to address a critical life/safety need.
- The amendment is needed to address a specific state policy or statute.
- The amendment is needed for consistency with state or federal regulations.
- The amendment is needed to address a unique character of the state.
- The amendment corrects errors and omissions.

7. Is there an economic impact: Yes No

The proposal may increase the first cost of construction by a small materials cost associated with including drainage media within wall assemblies, but this cost is outweighed by the reduction in costs associated with construction water damage that can be caused trapped moisture. Many products and systems which have been demonstrated to provide this drainage capability are currently available.

Please send your completed proposal to: sbcc@ga.wa.gov

All questions must be answered to be considered complete. Incomplete proposals will not be accepted.