

EXTERIOR WALL ENHANCED DRAINAGE



The Building Code requires the exterior walls of structures regulated by the Oregon Residential Specialty Code (with the exception of non-habitable accessory structures) be constructed in such a way that any water entering the wall assembly from the exterior can drain out. This form is intended to identify under which provision of the code your project will meet the requirements for enhanced drainage at the exterior walls. Applicants are asked to complete this form by selecting which provision of the code their project meets the providing the required submittal information associated with that requirement either on this form or as part of the construction documents.

The code section outlining exterior wall envelope requirements (R703.1.1) is included on the other side of this sheet, and the code in its entirety can be viewed on the BCD website at www.bcd.oregon.gov.

Choose One	Code Section	Code Requirement	Information Required as Part of Submittal
	R703.1.1	1/8" (3mm) space between water resistive barrier (as required in R703.2) and the exterior veneer along with integrated flashings (as required in R703.8). Required space to be formed by the use of any non-corrodible furring strip, drainage mat or drainage board.	Water Resistive Barrier (specify product(s)): Exterior Veneer(s): Furring Material (specify Product(s)):
	Exception 1	Exterior veneer installed over a water-resistive barrier complying with section R703.2 meeting the 75% drainage efficiency requirement of ASSTM E2273	Water Resistive Barrier (specify product(s)): Exterior Veneer(s):
	Exception 2	All window sills equipped with pan flashings which drain to the exterior surface of the veneer in a through wall fashion. Pan flashings shall be of either a self-adhering membrane complying with AAMA 711-07, a corrosion resistant material, or combination thereof.	Water Resistive Barrier (specify product(s)): Exterior Veneer(s):
	Exception 3	Exterior veneer manufactured in a manner to enhance drainage and meets the 75% drainage efficiency requirement of ASTM E2273 and is installed over a water resistive barrier complying with section R703.2	Water Resistive Barrier (specify product(s)): Exterior Veneer(s):
	Exception 4	Exterior veneer is matching an existing exterior finish as in additions, alterations or repairs.	If electing for this exception, new work must be in the same plane as existing. Illustrate this condition in the documents.
	Exception 5	Walls are of concrete or masonry construction designed in accordance with Chapter 6 and flashed according to section R703.7 or R703.8.	If electing for this option, complete construction details for exterior wall construction illustrating compliance with applicable code sections.
	Exception 6	Exterior wall envelope as designed has been demonstrated to resist wind-driven rain through testing exterior wall envelope, including joints, penetrations and intersections with dissimilar materials, in accordance with ASTM E 331.	See R703.1.1 Exception 6 for specific testing requirements. If electing for this exception, provide testing data and complete exterior envelope design details with construction documents.

The undersigned attests to the fact they are aware of the exterior wall envelope requirements of R703.1.1 Further, the undersigned hereby assures the project associated with this submittal document will be constructed in conformance with the code provision(s) selected above and all other associated code provisions applicable to wall construction. If the exterior wall envelope design approved as part of the permit documents is altered or amended during the course of construction, the undersigned will obtain approval of the Building Program prior to proceeding with work.

Signature: _____

Applicant or Owner Name: _____ Date: _____ Permit#: _____

Excerpt from 2008 Oregon Residential Specialty Code Section R703, Exterior Covering:

R703.1.1 Exterior Wall Envelope. To promote building durability, the exterior wall envelope shall be installed in a manner that water enters the assembly can drain to exterior. The envelope shall consist of an exterior veneer, a water-resistive barrier as required in R703.2, a minimum 1/8-inch space between the water resistive barrier and the exterior veneer, and integrated flashings as required in R703.8. The required space shall be formed by the use of any non-corrodible furring strip, drainage mat or drainage board. The envelope shall provide proper integration of flashings with the water resistive barrier, the space provided and the exterior veneer. The components, in conjunction, shall provide a means of draining water that enters the assembly to the exterior.

Exceptions:

1. A space is not required where the exterior veneer is installed over a water-resistive barrier complying with section R703.2 which is manufactured in a manner to enhance drainage and meets the 75% drainage efficiency requirement of ASTM E2273 or other recognized national standards.
2. A space is not required where the window sills are equipped with pan flashings which drain to the exterior surface of the veneer in a through all fashion. All pan flashings shall be detailed within the construction documents and shall be of either a self-adhering membrane complying with AAMA 711-07 of an approved corrosion-resistant material or a combination thereof. Self-adhering membranes extending to the exterior surface of the veneer shall be concealed with trims or other measures to protect from sunlight.
3. A space is not required where the exterior veneer is manufactured in a manner to enhance drainage and meets the 75% drainage efficiency requirements of ASTM E2273 or other recognized national standards and is installed over a water resistive barrier complying with section R703.2.
4. A space is not required where the exterior veneer is matching an existing exterior finish as in additions, alterations, or repairs.
5. A water-resistant exterior wall envelope shall not be required over concrete or masonry walls designed in accordance with Chapter 6 and flashing according to section R703.7 or R703.8.
6. Compliance with the requirements for a means of drainage, and the requirements of section R703.2 and Section R703.8, shall not be required for an exterior wall envelope that has been demonstrated to resist wind-driven rain through testing of the exterior wall envelope, including joint, penetrations and intersections with dissimilar materials, in accordance with ASTM E 331 under the following conditions:
 - 6.1 Exterior wall envelope test assemblies shall include at least one opening, one control joint, one wall/eave interface and one wall sill. All tested openings and penetrations shall be representative of the intended end-use configuration.
 - 6.2 Exterior wall envelope test assemblies shall be at least 4 feet by 8 feet in size.
 - 6.3 Exterior wall assemblies shall be tested at a minimum differential pressure of 6.24 pounds per square foot.
 - 6.4 Exterior wall envelope assemblies shall be subjected to a minimum test exposure duration of 2 hours.

The exterior wall envelope design shall be considered to resist wind-driven rain where the results of the testing indicate that water did not penetrate: control joints in the exterior wall envelope; joints at the perimeter of openings penetrations; or intersections of terminations with dissimilar materials.