



**Mid-cycle amendments to the Oregon
Residential Specialty Code**

Purpose of the rule:

This rule adopts two mid-cycle amendments to the 2008 Oregon Residential Specialty Code. The first amendment clarifies the performance expectation of the new code requirement for Section R703.1 that requires a means of draining water that enters the exterior wall assembly. The second amendment establishes the performance requirements on drain covers for private pools and spas in residential dwellings, Sections AG106 Entrapment Protection for Swimming Pool and Spa Suction Outlets, AG107 Abbreviations, and AG108 Standards.

This rule becomes effective October 1, 2009, however the amendments to R703.1 become effective January 1, 2010 with a grace period ending March 31, 2010.

Citation:

Amend: OAR 918-480-0010

Effect of the rule:

Section R703.1, as amended, requires a building envelope to consist of the following: an exterior veneer, a water resistive barrier, a minimum 1/8 inch gap, and integrated flashings, which when properly assembled together, provide a means of draining water that enters the assembly to the exterior. Several exceptions have been provided to address the varying types of materials and building applications. A space is not required where an enhanced weather barrier is used or penetrations incorporate pan flashings, which drain to the exterior surface of the cladding in a through wall fashion. This exception addresses one of the most commonly cited areas of failure.

Appendix G (AG) covers swimming pools, spas and hot tubes. Based upon statistics of drowning deaths and emergency room visits involving children younger than age 5 in pools and spas associated with suction entrapment, a new federal law was passed. In December 2008 the new federal law, the Virginia Graeme Baker Pool and Spa Safety Act, went into effect. The act requires all swimming pool and spa drain covers available for purchase to meet specific performance expectations.

In Oregon, public pools are regulated by the Department of Human Services, Health Division. However, private pools and spas at residential dwellings are regulated by the Oregon Residential Specialty Code (ORSC). Adoption of this amendment aligns the ORSC with the 2009 International Residential Code (IRC), which is the base model code for the next code adoption cycle.

Contact:

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918-480-0010

Amendments to the Oregon Residential Specialty Code

(1) The **Oregon Residential Specialty Code** is adopted and amended pursuant to OAR chapter 918, division 8. Amendments adopted for inclusion into the **Oregon Residential Specialty Code** are placed in this rule, showing the section reference and a descriptive caption.

(2) Effective April 1, 2008:

(a) The 2006 Edition of the Uniform Plumbing Code, as published by the International Association of Plumbing and Mechanical Officials and amended by the division, is adopted to provide the plumbing provisions of the **Oregon Residential Specialty Code**; and

(b) The 2008 Edition of the NFPA 70, National Electrical Code as amended by the division is adopted to provide the electrical provisions of the **Oregon Residential Specialty Code**. See OAR chapter 918, division 305 for Oregon amendments to NFPA 70, National Electrical Code.

(3) Effective April 1, 2007 Appendix N, Low-Rise Multiple-Family Dwelling Construction is moved from the **2005 Oregon Residential Specialty Code** to the **2007 Oregon Structural Specialty Code**.

(4) During the phase-in period established in OAR 918-480-0005(3), plans designed to the **2005 Oregon Residential Specialty Code** must use the plumbing and electrical provisions included in that 2005 code. Plans that are designed to the **2008 Oregon Residential Specialty Code** must use the plumbing and electrical provisions adopted in this rule.

(5) Effective October 1, 2008, the following sections of the **2008 Oregon Residential Specialty Code** are amended:

(a) Section R 109.1.4.1 Moisture content.

(b) Section R318.2 Moisture content.

(6) Effective February 1, 2009, following sections of the **2008 Oregon Residential Specialty Code** are amended:

(a) Section R602.10.9 Interior braced wall support.

(b) Section R613.2 Window sills is added

(c) Section R.613.2.1 Operation for emergency escape is added

(d) Chapter 43 Referenced Standards.

(7) Effective October 1, 2009, the following sections of the **2008 Oregon Residential Specialty Code** are amended:

(a) Section AG106 Entrapment Protection For Swimming Pool And Spa Suction Outlets is added.

(b) Section AG107 Abbreviations.

(c) Section AG108 Standards.

(8)(a) Effective January 1, 2010, the following sections of the **2008 Oregon Residential Specialty Code** are amended:

(A) Section R703.1 General

(B) Section R703.1.1 Exterior Wall Envelope

(b) Changes to the **2008 Oregon Residential Specialty Code** made by subsection (a) of this section are

subject to a grace period ending March 31, 2010. During the grace period, the building official must approve installations that meet either the standard adopted under Section R703.1 prior to this amendment or the standard established by this amendment.

[NOTE: The amendments are published in their entirety in Table 2-R.]

[Publications: Publications referenced are available for review at the division. See division web site for information on where to purchase publications.]

Stat. Auth.: ORS 455.020, 455.110, 455.525 & 455.610

Stats. Implemented: ORS 455.610

Hist.: BCA 18-1993, f. 8-24-93, cert. ef. 8-29-93; BCA 28-1993, f. 10-22-93, cert. ef. 1-1-94; BCA 29-1993, f. 11-24-93, cert. ef. 12-1-93; BCD 6-1995, f. 3-31-95, cert. ef. 4-1-95; BCD 3-1996, f. 2-2-96, cert. ef. 4-1-96; BCD 22-1996(Temp), f. 10-1-96, cert. ef. 10-4-96; BCD 5-1997, f. 3-21-97, cert. ef. 4-1-97; Administrative Reformatting 1-19-98; BCD 3-1998, f. 1-29-98, cert. ef. 4-1-98; BCD 19-1998, f. 9-30-98, cert. ef. 10-1-98; BCD 3-2000, f. 1-14-00 cert. ef. 4-1-00; BCD 19-2000(Temp), f.& cert. ef. 8-15-00 thru 2-10-01; BCD 32-2000, f. 12-27-00, cert. ef. 1-1-01; BCD 3-2001, f. 2-9-01, cert. ef. 3-1-01; BCD 2-2002, f. 3-5-02, cert. ef. 4-1-02; BCD 22-2002(Temp), f. 9-13-02 cert. ef. 10-1-02 thru 3-29-03; BCD 30-2002, f. 12-6-02, cert. ef. 1-1-03; BCD 1-2003(Temp), f. & cert. ef. 1-10-03 thru 3-31-03; BCD 33-2002, f. 12-20-02 cert. ef. 4-1-03; BCD 15-2004, f. 9-10-04, cert. ef. 10-1-04; BCD 5-2005, f. & cert. ef. 3-28-05; BCD 9-2006, f. 6-30-06, cert. ef. 7-1-06; BCD 1-2007, f. 2-15-07, cert. ef. 4-1-07; BCD 5-2008, f. 2-22-08, cert. ef. 4-1-08; BCD 13-2008(Temp), f. & cert. ef. 7-3-08 thru 12-30-08; BCD 21-2008, f. 9-30-08, cert. ef. 10-1-08; BCD 24-2008(Temp), f. & cert. ef. 10-6-08 thru 4-1-09; BCD 1-2009, f. 1-30-09, cert. ef. 2-1-09; BCD 8-2009, f. 9-30-09, cert. ef. 10-1-09

Table 2-R
Amendments to the 2008 Oregon Residential Specialty Code

918-480-0010(5)(a)	R109.1.4.1 Moisture content. The requirement in R318.2 that all moisture-sensitive wood framing members used in construction shall have a moisture content of not more than 19 percent of the weight of dry wood framing members is not subject to inspection by the authority having jurisdiction.
918-480-0010(5)(b)	R318.2 Moisture content. Prior to issuance of the insulation/vapor barrier approval required by R109.1.5.2 of this code: (A) All moisture-sensitive wood framing members used in construction shall have a moisture content of not more than 19 percent of the weight of dry wood framing members. (B) The general contractor or the owner who was issued the structural permit shall notify the building official, on a division-approved form, that the contractor or the owner who was issued the structural permit is aware of and has taken steps to meet the requirement in paragraph (A).
918-480-0010(6)(a)	R602.10.9 Interior braced wall support. In buildings located in Seismic Design Category D1 and one-story buildings located in Seismic Design Category D2, interior braced wall lines shall be supported on continuous foundations at intervals not exceeding 70 feet (21,336 mm). Braced wall panels located in interior braced wall lines at less than 70-foot (21,336 mm) intervals shall be supported by double floor joists or blocking between floor joists. Where floor joists are perpendicular to the braced wall line, blocking shall be provided for the length of braced panel and shall extend to the next available joist below for braced panels whose ends are not aligned with joists below. The length to width ratio of the horizontal diaphragm supporting interior braced wall lines shall not exceed 4 to 1. Use of alternate braced panels in interior braced wall lines is not permitted.
918-480-0010(6)(b)	R613.2 Window sills. In dwelling units, where the opening of an operable window is located more than 72 inches (1829 mm) above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches (610 mm) above the finished floor of the room in which the window is located. Operable sections of windows shall not permit openings that allow passage of a 4 inch diameter sphere where such openings are located within 24 inches of the finished floor. Exceptions. 1. Windows whose openings will not allow a 4-inch-diameter (102 mm) sphere to pass through the opening when the opening is in its largest opened position. 2. Openings that are provided with window fall prevention devices that comply with ASTM F 2090-08.
918-480-0010(6)(c)	R613.2.1 Operation for Emergency Escape. The window opening fall prevention device shall not reduce the minimum net clear opening area of the window unit below what is required by Section R310.1.1 of the code.
918-480-0010(6)(d)	Chapter 43 Referenced Standards. ASTM F 2090–08 (revised/updated 2008).

Table 2-R
Amendments to the 2008 Oregon Residential Specialty Code

918-480-0010(7)(a)

SECTION AG106
ENTRAPMENT PROTECTION FOR SWIMMING
POOL AND SPA SUCTION OUTLETS

AG106.1 General. Suction outlets shall be designed and installed in accordance with ANSI/APSP-7.

918-480-0010(7)(b)

SECTION AG+06-107
ABBREVIATIONS
AG107.1 General.

APSP—Association of Pool and Spa Professionals
NSPI—National Spa and Pool Institute
2111 Eisenhower Avenue
Alexandria, VA 22314

918-480-0010(7)(c)

SECTION AG+07-108
STANDARDS
AG108.1 General.

ANSI/APSP
ANSI/APSP-7-06 Standard for Suction Entrapment
avoidance in Swimming Pools, Wading Pools, Spas,
Hot Tubs and Catch Basins. AG106.1

918-480-0010(8)(a)(A)

R703.1 General. Exterior walls shall provide the building with a weather-resistant exterior wall envelope. ~~The exterior wall envelope shall include flashing as described in Section R703.8. 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 water that enters the assembly to the exterior. Protection against condensation in the exterior wall assembly shall be provided in accordance with Chapter 11 of this code.~~

918-480-0010(8)(a)(B)

R703.1.1 Exterior Wall Envelope. To promote building durability, the exterior wall envelope shall be installed in a manner that water that enters the assembly can drain to the exterior. The envelope shall consist of an exterior veneer, a water-resistive barrier (wrb) as required in R703.2, a minimum 1/8" (3mm) space between the wrb 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. These 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**

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918-480-0010(8)(a)(B)
cntd.

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 window sills are equipped with pan flashings which drain to the exterior surface of the veneer in a through wall 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 or of an approved corrosion-resistant material or a combination thereof.**
3. **A space is not required where the exterior veneer is manufactured in a manner to enhance drainage and meets the 75% drainage efficiency requirement 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 flashed 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 joints, 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 (1219 mm) by 8 feet (2438mm) in size
 - 6.3. Exterior wall assemblies shall be tested at a minimum differential pressure of 6.24 pounds per square foot (299 Pa).
 - 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 testing indicate that water did not penetrate: control joints in the exterior wall envelope; joints at the perimeter of openings penetration; or intersections of terminations with dissimilar materials.