

**2007 Oregon Structural Specialty Code**  
**“Mid-Cycle Amendments”**  
*Effective Date: October 1, 2008*

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The following code sections have been amended by the State:

1. Delete definition of Group child care home in Section 202.
2. Amend Section 308.5 Group I-4, day care facilities.
3. Amend Section 310.1, adult foster homes and family child care homes.
4. Delete definition for Group Child Care Home and amend definition of Family Child Care Home in Section 310.2.
5. Delete 412.2.3 dealing with aircraft hangar floor drains.
6. Amend Sections 903.2.7.1 and 903.2.7.2, fire sprinkler requirements in substantially damaged or substantially altered existing nonsprinklered apartment buildings.
7. Amend the heading of Code Section 1019.2 and Table 1019.2, replace Table 1019.2 and footnotes.
8. Amend section 1109.9.8 to clarify door hardware requirements for accessible sliding doors.
9. Amend 1504.3 dealing with overflow drains and scuppers.
10. Add new Code Section 1613.6.3 - recognition of NFPA 13-2007 seismic provisions.
11. Amend section 1613.8 as follows to clarify when seismic recording instrumentation is required.
12. Amend Appendix SR, Sections SR107.3 and SR108.3.2, fire alarm provisions.
13. Update References:
  - NFPA 11, ~~2000~~ **2005**
  - NFPA 13, ~~2002~~ **2007**
  - NFPA 13R, ~~2002~~ **2007**
  - NFPA 13D, ~~2002~~ **2007**
  - NFPA 14, ~~2003~~ **2007**
  - NFPA 40, ~~2004~~ **2007**

- NFPA 72, ~~2002~~ 2007
- NFPA 101, ~~2003~~ 2006
- NFPA 409, ~~2001~~ 2004

14. The base shear **equation 12.8-5 of ASCE 7-05 is deleted and replaced with** the following base shear equation per ASCE 7-05, Supplement No. 2:  $C_s = 0.044S_{DS}I \geq 0.01$ .

Items 1 through 13 have been prepared as insert pages for the 2007 OSSC. Pages are formatted so that when inserted, the amendments will face the page containing the existing code language.

**GROUP CHILD CARE HOME (IN A PRIVATE RESIDENCE).** See Section 310.2

## USE AND OCCUPANCY CLASSIFICATION

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**308.5 Group I-4, day care facilities.** This group shall include buildings and structures occupied by persons of any age who receive custodial care for less than 24 hours by individuals other than parents or guardians, relatives by blood, marriage or adoption, and in a place other than the home of the person cared for. A facility such as the above with six or fewer persons, ~~or group child care homes~~ or family child care homes (located in a private residence) as defined in ~~ORS Chapter 657 A, Section 310.2~~, shall be classified as a Group R-3 or shall comply with the *Residential Code* in accordance with Section 101.2. Places of worship during religious functions are not included.

## USE AND OCCUPANCY CLASSIFICATION

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Adult foster homes as defined in ORS Chapter 443, or ~~group and~~ family child care homes (located in a private residence) as defined in ~~ORS Chapter 657 A.~~ **Section 310.2.**

Adult **foster homes** and **family** child care **homes** ~~facilities~~ that are within a single-family **dwelling home** are permitted to comply with the *Residential Code* in accordance with Section 101.2.

## **USE AND OCCUPANCY CLASSIFICATION**

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~~**GROUP CHILD CARE HOME (LOCATED IN HOMES LICENSED FOR 12 OR FEWER CHILDREN) AND FAMILY CHILD CARE HOME.**~~

~~See ORS Chapter 657A.~~

**FAMILY CHILD CARE HOME (Licensed by Oregon Child Care Division under ORS 657A); Includes Certified Family Child Care Homes (located in homes licensed for 16 or fewer children) and Registered Family Child Care Homes (located in homes licensed for 10 or fewer children).**

## SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY

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~~storage and disposal of fuel, the requirements of this section do not apply.~~

~~**412.2.3 Floor surface.** Floors shall be graded and drained to prevent water and fuel from remaining on the floor. Floor drains shall discharge through an oil separator to the sewer or to an outside vented sump.~~

**Exceptions:**

~~1. Aircraft hangars with individual lease spaces not exceeding 2,000 square feet (186 m<sup>2</sup>) each in which servicing, repairing or washing is not conducted and fuel is not dispensed shall have floors that are graded toward the door, but shall not require a separator.~~

~~2. Where a written containment plan is provided that has been approved by both the fire official and the building official and addresses the containment,~~

**FIRE PROTECTION SYSTEMS**  
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~~903.2.7.1 Alternate fire sprinkler system requirements.~~  
~~The requirements of Section 903.2.7.2 are adopted by the State of Oregon for optional use in municipalities.~~

**903.2.7.2 1 Requirements.** Where substantial alterations are made or substantial damage occurs to an existing non-sprinkled Group ~~R~~ **R2 apartment house building**, designed and constructed under the provisions of this code, an approved automatic ~~multipurpose~~ sprinkler system complying with NFPA ~~13D~~ **13R** shall be installed only in the substantially altered or damaged dwelling units. When more than 50 percent of the dwelling units within a building are substantially altered or damaged, the entire ~~Group R apartment house~~ occupancy shall be provided with an NFPA ~~13D~~ **13R** sprinkler system or equivalent.

**For the purposes of this section, when an NFPA 13R sprinkler system is installed, a fire department connection shall not be required.**

**SUBSTANTIAL ALTERATION.** Any alteration where the total cost of all alterations (including but not limited to electrical, mechanical, plumbing or structural changes) for a building or facility within any 12-month period amounts to ~~40~~ **25** percent or more of the assessed value of the structure before the building alteration occurred. For the purposes of this chapter, standard building maintenance, rewiring, residing or reproofing is not considered an alteration.

**SUBSTANTIAL DAMAGE.** Any damage of any origin to a structure, whereby the cost of restoring the structure to its original condition would be equal to or exceed ~~40~~ **25** percent of the assessed value of the structure before the alteration occurred.

**MEANS OF EGRESS**  
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**1019.2 Buildings Stories with one exit.** Only one exit shall be required ~~in buildings~~ **from stories** as specified below:

1. ~~Buildings described in Table 1019.2, provided that the building has not more than one level below the first story above grade plane.~~ **Stories meeting the limitations of Table 1019.2.**
2. Buildings of Group R-3 occupancy.
3. ~~Single level buildings with the occupied space at the level of exit discharge provided that the story or space complies with Section 1015.1 as a space with one means of egress.~~

**TABLE 1019.2**  
**BUILDINGS STORIES WITH ONE EXIT**

<u>STORY ABOVE GRADE PLANE</u>	<u>OCCUPANCY</u>	<u>MAXIMUM OCCUPANTS (OR DWELLING UNITS) PER FLOOR AND TRAVEL DISTANCE TO EXIT</u>
<u>FIRST STORY OR BASEMENT</u>	<u>A, B<sup>d</sup>, E<sup>e</sup>, F<sup>d</sup>, M, U, S<sup>d</sup></u>	<u>49 occupants and 75 feet travel distance</u>
	<u>H-2, H-3</u>	<u>3 occupants and 25 feet travel distance</u>
	<u>H-4, H-5, I, R</u>	<u>10 occupants and 75 feet travel distance</u>
	<u>S<sup>a</sup></u>	<u>29 occupants and 100 feet travel distance</u>
<u>SECOND STORY</u>	<u>B<sup>b</sup>, F, M, S<sup>a</sup></u>	<u>29 occupants and 75 feet travel distance</u>
	<u>R-2</u>	<u>4 dwelling units and 50 feet travel distance</u>
<u>THIRD STORY</u>	<u>R-2<sup>c</sup></u>	<u>4 dwelling units and 50 feet travel distance</u>

For SI: 1 foot = 3048. mm

- a. For the required number of exits for parking structures, see Section 1019.1.1.
- b. For the required number of exits for air traffic control towers, see Section 412.1
- c. Buildings classified as Group R-2 equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2 and provided with emergency escape and rescue openings in accordance with Section 1026.
- d. Group B, F and S occupancies in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 shall have a maximum travel distance of 100 feet.
- e. Day care occupancies shall have a maximum occupant load of 10.

## **ACCESSIBILITY**

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**1109.9.8 Hardware.** Door operating hardware shall comply with Sections 1008.1.8 and 1109.3. Door hardware shall be mounted not more than 48 inches (1219 mm) above the finished floor [see ADAAG Figure 5 (a)].

**When sliding doors are fully open, operating hardware shall be exposed and usable from both sides.**

## ROOF ASSEMBLIES AND ROOFTOP STRUCTURES

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**1504.3 Overflow drains and scuppers.** Where roof drains are required, overflow drains shall be installed per Section 1101.11 of the Oregon Plumbing Specialty Code, having the same size as the roof drains shall be installed with the inlet flow line located 2 inches (51 mm) above the low point of the roof, or overflow scuppers having three times the size of the roof drains and having a minimum opening height of 4 inches (102 mm) may be installed in the adjacent parapet walls with the inlet flow line located 2 inches (51 mm) above the low point of the adjacent roof.

~~—Overflow drains shall discharge to an approved location and shall not be connected to roof drain lines.~~

## **STRUCTURAL DESIGN**

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### **1613.6.3 Automatic fire sprinkler systems.**

**Automatic fire sprinkler systems designed and installed in accordance with NFPA 13 shall be deemed to meet the requirements of Section 13.6.8 of ASCE 7.**

**1613.8 Earthquake recording instrumentation.** In seismic Design Category D, every new building over six stories **above grade** in height with an aggregate floor area of 60,000 square feet (5574 m<sup>2</sup>) or more, and every new building over 10 stories in height regardless of the floor area, shall be provided with an approved system with not less than three approved recording accelerographs. The accelerographs shall be interconnected for common start and common timing.

## APPENDIX SR

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constantly attended staff locations provided such locations are visible and continually accessible and that travel distances required in Section 907.3.1 are not exceeded.

2. Approved household fire alarm systems with automatic and manual provisions are permitted in Group SR-3 occupancies when installed in accordance with NFPA 72.

**SR107.3 Fire alarm systems.** An approved manual and automatic, supervised fire alarm system shall be installed ~~throughout~~ **in** all Group SR occupancies. **Detection shall be required only in the areas specified in Section SR107.3.1 when an automatic sprinkler system is installed throughout the building, in accordance with 903.3.1 and connected to the building fire alarm system.**

#### Exceptions:

1. Manual fire alarm boxes located in resident sleeping areas shall not be required at exits if located at all

1. A door to a kitchen.
2. A door to a bathroom containing a bathtub or shower compartment.
3. The ~~supply~~ registers of a forced air HVAC system.

**SR108.3.2 Controlled egress fire alarm requirements.** An approved automatic fire alarm system shall be provided **for partial coverage** in accordance with ~~Section 907~~, NFPA 72 and this appendix.

The fire alarm system shall include smoke detectors in all sleeping areas and common living spaces of the facility.

**Exception:** Smoke detectors shall not be installed within three feet of any of the following:

## **NFPA**

11-02 <b><u>05</u></b>	Low expansion foam.....	904.7
13 – 02 <b><u>07</u></b>	Installation of Fire Sprinkler Systems.....	707.2, 903.3.1.1, 903.3.2, 903.3.5.1.1, 903.3.5.2, 904.11, 905.3.4, 907.8, 3104.5, 3104.9
13D – 02 <b><u>07</u></b>	Installation of Sprinkler Systems in One- and Two- Family Dwellings and Manufactured Homes.....	903.1.3, 903.3.5.1.1
13R – 02 <b><u>07</u></b>	Installation of Sprinkler Systems in Residential Occupancies Up to and Including Four Stories in Height.....	903.3.1.2, 903.3.5.1.1, 903.3.5.1.2, 903.4
14 – 03 <b><u>07</u></b>	Installation of Standpipe and Hose System.....	905.2, 905.3.4, 905.4.2, 905.8
40 – 04 <b><u>07</u></b>	Storage and Handling of Cellulose Nitrate Film.....	409.1

REFERENCED STANDARDS  
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72 – ~~02~~ 07 National Fire Alarm Code.....901.6, 903.4.1, 904.3.5, 907.2, 907.2.1.1, 907.2.10,  
907.2.10.4, 907.2.11.2, 907.2.11.3, 907.2.12.2.3, 907.2.12.3, 907.4,  
907.5, 907.9.2, 907.10, 907.14, 907.16, 907.17, 911.1, 3006.5

101 – ~~03~~ 06 Life Safety Code.....1025.6.2

409 – ~~04~~ 04 Aircraft Hangars.....412.2.6, 412.4.5