



## **2014 Oregon Structural Specialty Code Significant Model Code Change Summary**

This document provides a brief summary of significant changes contained in the 2014 Oregon Structural Specialty Code (OSSC), based on the 2012 International Building Code (IBC). This list contains only significant 2012 IBC model code changes, and is not inclusive of all changes in the 2014 OSSC.

### **CHAPTER 1 ADMINISTRATION**

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### **CHAPTER 2 DEFINITIONS**

1. All definitions have been moved to Chapter 2.

### **CHAPTER 3 USE AND OCCUPANCY CLASSIFICATION**

2. 303.1.3 - A room or space associated with a Group E occupancy that is used for assembly purposes is not considered a separate occupancy.
3. 303.3, 306.2 - Addition of casinos and cafeterias under A-2 occupancy classification. Inclusion of commercial kitchens not associated with restaurants under F-1 occupancy classification.
4. Table 307.1(1) and Section 307.4 - In facilities where combustible dusts are anticipated, a technical report and opinion must now be provided to the building official in accordance with 414.1.3.

### **CHAPTER 4 SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY**

5. 403.6.1 - Minimum number of fire service access elevators required in applicable high-rise buildings increased from one to two, where multiple elevators are provided in the building. Each of which shall have a capacity of 3500 pounds.
6. 406.3.3.1 - New provisions for required natural ventilation openings below grade in open parking garages.
7. 406.4 - Provides new descriptions and criteria for parking garages.
8. 406.5.5 - Provides parking garage area calculation limits based on 7 ft. height.
9. 412.4.6 - Provides an exception to foam fire extinguishing systems in certain hangar applications.
10. 412.4.6.2 - Spaces ancillary to the aircraft servicing and storage areas of an aircraft hangar, and separated by fire barrier not less than one hour, are now excluded from fire area size when determining suppression requirements.
11. 419 - Means of egress and plumbing facilities for nonresidential portion of live/work unit are now regulated based upon the specific function of the nonresidential space, in accordance with Chapter 29, rather than those of a Group R-2 occupancy.



**CHAPTER 5**  
**GENERAL BUILDING HEIGHTS AND AREAS**

12. 502.1 - The fire code official can now require that address numbers be posted in multiple locations if necessary to facilitate emergency response.
13. 505.3 - The consideration of an elevated floor level as a mezzanine no longer provides special allowances for means of egress purposes, and refers to general applicability of Chapter 10.
14. 509.1 - Removes automatic fire-extinguishing systems as a means of permitted fire protection for incidental use rooms and areas.
15. 509.2 - Requires incidental uses to be included as part of the overall occupancy of the occupancy within which they are located.
16. 509.3 - Provides limitation of 10 percent of the main occupancy for incidental uses.
17. 509.4 - Requires incidental uses to be separated per Table 509.
18. Table 509 - Inclusion of waste/linen rooms located in Group B ambulatory care, and requires such rooms to be separated by min 1-hr fire barriers and/or horizontal assemblies.

**CHAPTER 6**  
**TYPES OF CONSTRUCTION**

19. Table 602, footnote h - Nonbearing exterior walls that are permitted to have unlimited area of unprotected openings by Table 705.8, are no longer required to have a fire-resistance rating due to fire separation distance.

**CHAPTER 7**  
**FIRE AND SMOKE PROTECTION FEATURES**

20. 703.4 - Language added to clarify that fire suppression is not permitted to be included as part of a tested building element/component/assembly to establish fire rating.
21. 705.2 & 705.2.3 - Revised Table 705.2 for Minimum Distance of Projection and Section 705.2.3 text modified, based on 2015 IBC.
22. 706.2 - Structural stability: a double fire wall complying with NFPA 221 is now permitted as an alternative to a single fire wall.
23. 706.6, 706.6.2 - Provisions added for sloped roof conditions on one or both sides of a fire wall parapet.

**CHAPTER 8**  
**INTERIOR FINISHES**

*No significant changes noted*

**CHAPTER 9**  
**FIRE PROTECTION SYSTEMS**

24. 901.8 - Provides minimum sizes and clearances for fire pump and riser rooms.
25. 903.2.2 - Requires the automatic fire sprinkler system protecting an Ambulatory Care Facility to extend for the entire floor of the building and not just the ACF.
26. 903.2.4 - Requires automatic fire sprinkler system for Group F-1 upholstered furniture manufacturing over 2,500 s.f.
27. 903.2.9 - Requires automatic fire sprinkler system for Group S-1 upholstered furniture storage over 2,500 s.f.
28. 903.2.11.2 - Requires automatic fire sprinkler system for various levels in rubbish or linen chutes.
29. 903.2.11.1.3 - Requires automatic fire sprinkler system for basements where walls, partitions or obstructions restrict water from hose streams.
30. 903.3.5.2 - Requires a secondary water supply for high-rise buildings in certain seismic categories.

- 31. 904.3.2 - Provides actuation requirements for automatic fire sprinkler systems serving more than one hazard.
- 32. 905.4 - Provides new provisions for standpipes.
- 33. 907.2.1 - Revises manual fire alarm provisions for Group A occupancies.
- 34. 907.2.1.2 - Provides for new voice/alarm communication captioning for stadiums, arenas and grandstands.
- 35. 907.2.9 - Provides new fire alarm and smoke detection criteria for R-2 applications in college and university buildings.
- 36. 907.2.11.3 - Requires interconnection between hardwired and wireless alarms in R and I-1 occupancies.
- 37. 907.5.2.2.4 - Provides for new voice/alarm communication captioning for stadiums, arenas and grandstands.
- 38. 908.7.1 - Adds carbon monoxide detection provisions in Group I occupancies.

## **CHAPTER 10 MEANS OF EGRESS**

- 39. 1005 - The entire section has been rearranged and creates a more complete section for means of egress sizing.
- 40. 1009 & 202 - These sections create a new definition for interior exit stairways and gives provisions for their use. Provides for the ability to use open interior stairs as part of the means of egress system.
- 41. 1010.2 - This section creates a new definition for interior exit ramps and gives provisions for their use. This provides for the ability to use enclosed interior ramps as part of the means of egress system.
- 42. 1011.2 - The provisions require floor level exit signs to be installed in R-1 occupancies in addition to the normal exit signage.
- 43. 1013.1, 1013.8 - The fall protection height on upstairs windows has been moved from 24" above the floor to 36" above the floor.
- 44. 1021- Allows for the determination of quantities of exits from a mixed occupancy on multi-story structures.
- 45. 1021.2.3 & Table 1021.2(1) - Clarifies the intent of the 2009 provisions as it relates to single exits from stories for R-2 occupancies.
- 46. 1022.1 & 1022.2 - Revises construction provisions for Interior exit stairways and interior exit ramps.
- 47. 1022.5 - Allows for more lenient locations of protected penetrations in exit stairways and ramp enclosures. Ties in with 1009.1 & 1010.1 provisions.
- 48. 1028.1.1.1 - Requires useable space under bleachers to be fire rated.

## **CHAPTER 11 ACCESSIBILITY**

- 49. 1104.3.1 - The employee work area is increased from 300 sf to 1000 sf.
- 50. 1107.6.1.1.1 - Provides for some reduction in accessibility to dwelling/sleeping units.
- 51. 1108.2.9 - Exceptions 1 and 4 have been added and the term mezzanine removed from exception 2.
- 52. 1109.6 - Saunas and steam rooms will now need to meet specific accessibility requirements.

## **CHAPTER 12 INTERIOR ENVIRONMENT**

- 53. 1203.2 - Attic space ventilation; Minimum ventilation for attics clarified and exceptions added.
- 54. 1208.3 - Minimum floor area for kitchens removed.
- 55. 1210 - Toilet and bathroom requirements; renaming of section.

**CHAPTER 13**  
**ENERGY EFFICIENCY**  
*SEE OREGON ENERGY EFFICIENCY SPECIALTY CODE*

**CHAPTER 14**  
**EXTERIOR WALLS**

- 56. 1404.12; 1405.18, 202 - Polypropylene siding definition and requirements added as new sections.
- 57. 1409 - Provides a new section dealing with high-pressure decorative exterior-grade compact laminates (HPL).

**CHAPTER 15**  
**ROOF ASSEMBLIES AND ROOFTOP STRUCTURES**

- 58. 1502.1 - New definition for photovoltaic modules/shingles.
- 59. 1505.8 - Photovoltaic system fire classification.
- 60. 1507.2. through 1507. 9 - High wind area roof underlayment requirements.
- 61. 1507.16 - Roof gardens and landscaped roof fire resistance.
- 62. 1509 - Rooftop structures: clarification and reorganization.
- 63. 1509.17 - Wind resistance calculations for PV systems.
- 64. 1510.3 - Roof covering replacement exception for ice barrier membrane.

**CHAPTER 16**  
**STRUCTURAL DESIGN**

- 65. 1604.5 - This introduces new structural term for RISK CATEGORIES, replacing Occupancy Category, primarily used in seismic design. This is a parameter meant to facilitate the different load types based on the use of the structure.
- 66. 1609 - Major revisions have occurred in the wind provisions. The wind speed has increased using an ultimate wind speed design and the introduction of risk categories equalizes the occupancy factors from the seismic design criteria. The net result affects higher risk building design.
- 67. 1614 - A section on atmospheric ice loading has been added to cover issues with ice sensitive structures.

**CHAPTER 17**  
**STRUCTURAL TESTS AND SPECIAL INSPECTIONS**

- 68. 1705.4 - Special inspection criteria for masonry construction has been removed from the body of the code to reference the TMS 402 and 602 requirements.
- 69. 1705.16 - New special inspection provisions for fire-stopping in Risk Category III and IV buildings will assure fire protection at penetrations.

**CHAPTER 18**  
**SOILS AND FOUNDATIONS**

*No significant changes noted*

**CHAPTER 19**  
**CONCRETE**

*No significant changes noted*

## **CHAPTER 20**

### **ALUMINUM**

*No significant changes noted*

## **CHAPTER 21**

### **MASONRY**

70. 2101.2 - Additional provisions for use of the direct design method in masonry per TMS 403.

## **CHAPTER 22**

### **STEEL**

71. 2205.3.1 - Removes provisions regulating composite structures in Seismic Design Categories D, E & F.  
72. 2206 - Design parameters for structural steel composite with concrete.  
73. 2210.2 - Requires cold formed steel structures that exceed certain values to be designed and detailed to additional AISI provisions.

## **CHAPTER 23**

### **WOOD**

*No significant changes noted*

## **CHAPTER 24**

### **GLASS AND GLAZING**

74. 2406.1 & 2406.2 - Provides a new exception for impact on mirrors and glass panels and new testing criteria for glazing subject to impact loading.  
75. 2406.4 - Rewrites the entire section on safety glazing and hazardous locations to provide better consistency in application and implementation.

## **CHAPTER 25**

### **GYPSUM BOARD AND PLASTER**

76. 2510.6 - Revises the method of installing 2-layer water-resistive barriers.

## **CHAPTER 26**

### **PLASTIC**

77. 2603.4.1.14 - Added exception for foam plastic in floor assembly, for fire barrier on top of SIP or equivalent.  
78. 2603.7, 2603.8 - Revised compliance paths for foam plastic interior finish in plenums.  
79. 2610.3 - Skylight slope/height fix for maximum width.  
80. 2612 - Provides revised language on fiber-reinforced polymers (FRP) including foam plastic cores for interior use and architectural elements for exterior use.

## **CHAPTER 27**

### **ELECTRICAL**

*No significant changes noted*

## **CHAPTER 28**

### **MECHANICAL SYSTEMS**

*SEE OREGON MECHANICAL SPECIALTY CODE*

## **CHAPTER 29**

### **PLUMBING SYSTEMS**

*No significant changes noted*

**CHAPTER 30**  
**ELEVATORS AND CONVEYING SYSTEMS**

- 81. 3007 - Fire service access elevator: Provisions added to coordinate section to that of occupant evacuation elevators (3008) to ensure intended function during an emergency.
- 82. 3008 - Occupant evacuation elevators: provisions added to coordinate closely with fire service access elevators (3007).

**CHAPTER 31**  
**SPECIAL CONSTRUCTION**

- 83. 3108 - Exemptions of TIA-222 are no longer applicable to towers covered in Chapter 31.

**CHAPTER 32**  
**ENCROACHMENTS INTO THE PUBLIC RIGHT-OF-WAY**

*No significant changes noted*

**CHAPTER 33**  
**SAFEGUARDS DURING CONSTRUCTION**

- 84. 3302.3, 3303.7 and 3313 - Protection requirements of the Fire Code have been added. Fire safety during construction, demolition and when combustibles arrive on site.

**CHAPTER 34**  
**EXISTING STRUCTURES**

- 85. 3403.5 & 3404.6 - Additions or alterations to R or I-1 occupancies require smoke alarms in accordance with IFC for existing building.

**CHAPTER 35**  
**REFERENCED STANDARDS**

*No significant changes noted*

**APPENDICES**  
*No significant changes noted*