### Chapter 15—Roof Assemblies and Rooftop Structures

#### 1502.1 1502.1 General

This section provides reference to Chapter 11 of International Plumbing Code.

<table>
<thead>
<tr>
<th>Reviewers Comments</th>
<th>Cost (Y/N)</th>
<th>Amend Needed (Y/N)</th>
<th>TAG Comments / Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Y</td>
<td></td>
<td>Change the reference with a reference to Uniform Plumbing Code</td>
</tr>
</tbody>
</table>

#### 1502.2 1502.2 Emergency (emergency overflow) drains or scuppers.

This section provides reference to Chapter 11 of International Plumbing Code.

<table>
<thead>
<tr>
<th>Reviewers Comments</th>
<th>Cost (Y/N)</th>
<th>Amend Needed (Y/N)</th>
<th>TAG Comments / Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Y</td>
<td></td>
<td>Change the reference with a reference to Uniform Plumbing Code</td>
</tr>
</tbody>
</table>

#### 1503.3.1 & 1503.3.2 Parapet Walls

Requirements added to clarify coping not to impact rating of fire wall and to provide drainage.

<table>
<thead>
<tr>
<th>Reviewers Comments</th>
<th>Cost (Y/N)</th>
<th>Amend Needed (Y/N)</th>
<th>TAG Comments / Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
</tbody>
</table>

#### 1504.3.1.3 None Air permeability testing

Gives default coefficient for tile roofs

<table>
<thead>
<tr>
<th>Reviewers Comments</th>
<th>Cost (Y/N)</th>
<th>Amend Needed (Y/N)</th>
<th>TAG Comments / Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
</tbody>
</table>

#### 1504.4 Ballasted low-slope single-ply roof systems

All requirements applicable to the design and construction of ballasted low-slope roofs are now contained in the ANSI/SPRI RP-4 standard.

<table>
<thead>
<tr>
<th>Reviewers Comments</th>
<th>Cost (Y/N)</th>
<th>Amend Needed (Y/N)</th>
<th>TAG Comments / Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
</tbody>
</table>

#### 1504.9 None Wind resistance of aggregate-surfaced roofs

Requirement for parapet to keep aggregate from blowing around. Unclear how common this roof type is.

<table>
<thead>
<tr>
<th>Reviewers Comments</th>
<th>Cost (Y/N)</th>
<th>Amend Needed (Y/N)</th>
<th>TAG Comments / Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Y</td>
<td>N</td>
<td>Past provisions regulating aggregate blow-off from aggregate-surfaced roofs were not based on a quantitative analysis of observed roofing system performances in real wind events. Rather, the requirements were based on variations in surface pressure with building height. Fully revised Section 1504.9 is now based on wind speeds for blowoff and only deals with smaller aggregate used for the surfacing of built-up roofs (BUR) and sprayed polyurethane foam (SPUF) roofs, both of which are different systems than ballasted roofs. Table 1504.9 considers aggregate size, roof height and wind speed to determine the minimum required parapet height.</td>
</tr>
</tbody>
</table>

#### 1507.3.1 1507.3.1 Clay and concrete tile New exception to solid sheathing requirement in seismic design A-C

<table>
<thead>
<tr>
<th>Reviewers Comments</th>
<th>Cost (Y/N)</th>
<th>Amend Needed (Y/N)</th>
<th>TAG Comments / Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Reduced</td>
<td>N</td>
<td></td>
</tr>
</tbody>
</table>

#### 1509 None Roof Coatings New section to list appropriate ASTM standards for various coatings

<table>
<thead>
<tr>
<th>Reviewers Comments</th>
<th>Cost (Y/N)</th>
<th>Amend Needed (Y/N)</th>
<th>TAG Comments / Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
</tbody>
</table>

#### 1511.2.2 1510.2.2 Use Limitations Clarification that penthouses may include spaces used to access elevators

<table>
<thead>
<tr>
<th>Reviewers Comments</th>
<th>Cost (Y/N)</th>
<th>Amend Needed (Y/N)</th>
<th>TAG Comments / Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>N</td>
<td>Don't need the existing amendments in this table.</td>
</tr>
</tbody>
</table>

### Chapter 16—Structural Design

#### Table 1604.5 Table 1604.5 — Risk Category of Buildings and Other Structures

Mixed occupancy buildings with assembly spaces are now designated as Risk Category III when the total public assembly occupant load is greater than 2,500 people.

<table>
<thead>
<tr>
<th>Reviewers Comments</th>
<th>Cost (Y/N)</th>
<th>Amend Needed (Y/N)</th>
<th>TAG Comments / Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Code</td>
<td>Section</td>
<td>Change</td>
</tr>
<tr>
<td>------</td>
<td>------</td>
<td>---------</td>
<td>--------</td>
</tr>
<tr>
<td>1605</td>
<td>1605</td>
<td>Load combinations</td>
<td>The strength design and allowable stress design load combinations have been deleted while direct reference to Chapter 2 of ASCE 7 has been added. (Sections 1605.1 and 1605.2)</td>
</tr>
<tr>
<td>1606.2</td>
<td>1606.2</td>
<td>Weight of materials of construction</td>
<td>Modifies the title and the text to specify that Section 1606.2 applies to weight of materials of construction and doesn’t include fixed service equipment.</td>
</tr>
<tr>
<td>1606.3</td>
<td>None</td>
<td>Weight of fixed service equipment</td>
<td>New section addressing weight of fixed service equipment.</td>
</tr>
<tr>
<td>1606.4</td>
<td>None</td>
<td>Photovoltaic panel systems</td>
<td>New section addressing photovoltaic panel systems.</td>
</tr>
<tr>
<td>1606.5</td>
<td>None</td>
<td>Vegetative and landscaped roofs</td>
<td>New section addressing vegetative and landscaped roofs.</td>
</tr>
<tr>
<td>1607.11.4</td>
<td>1607.10.4</td>
<td>Fall arrest, lifeline, and rope descent system anchorages.</td>
<td>Rope descent system anchorage has been added to the section on fall arrest and lifeline anchorages.</td>
</tr>
<tr>
<td>1607.17</td>
<td>None</td>
<td>Fixed ladders</td>
<td>Adds requirements for live loads for fixed and ship’s ladders.</td>
</tr>
<tr>
<td>1608.2</td>
<td>1608.2</td>
<td>Ground snow loads</td>
<td>The ground snow load map has been updated to provide consistency with ASCE 7-16 snow maps by adding a reference to ASCE 7 snow tables in states with large case study areas.</td>
</tr>
<tr>
<td>1610.2</td>
<td>None</td>
<td>Uplift loads on floor and foundations</td>
<td>New section. Concrete slabs on ground must now be designed for uplift due to soil expansion and water pressure in areas prone to soil movement or a shallow water table.</td>
</tr>
<tr>
<td>1611.1</td>
<td>1611.1</td>
<td>Design rain loads</td>
<td>Secondary drainage system rain loads have been updated to be consistent with ASCE 7.</td>
</tr>
<tr>
<td>1612.4</td>
<td>1612.4</td>
<td>Flood hazard documentation</td>
<td>The design of hydrostatic loads on breakaway walls is required when the walls do not meet the requirements of ASCE 24.</td>
</tr>
</tbody>
</table>

In 2017, the Occupational Safety and Health Administration (OSHA) adopted new regulations in Section 1910.27 that specifically require all anchorages of rope descent systems (such as boatswain’s chairs) to be able to support 5,000 pounds in any direction for each attached worker. Since OSHA has added specific language addressing rope descent systems, and because the systems and loads are basically identical to those for other fall arrest lines, Section 1607.11.4 has been updated to mirror OSHA’s requirements and includes minimum design loads for rope descent systems.

Live loads to be used in the design of ladders have not previously been specified in the IBC; however, Requirements for fixed ladders are now coordinated between the IBC and ASCE 7. Ladder live loads contained in ASCE 7 have been added to the IBC. The addition of live load values provides the necessary load values in the IBC but maintains the accompanying design information within ASCE 7.

Section 1610 has not previously addressed uplift loads from hydrostatic pressure or expansive soils. Requirements addressing uplift forces are now to be applied when appropriate and included in the design. The hydrostatic pressure provisions include a required determination of loads based on measuring to the underside of the construction per ASCE 7, Section 3.2.2.
### Chapter 17—Special Inspections and Tests

#### TAG Member: Sue Coffman

<table>
<thead>
<tr>
<th>Code</th>
<th>Code</th>
<th>Description</th>
<th>Special inspection requirements added to list of general special inspections and tests.</th>
<th>N or Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>1704.6</td>
<td>1704.6</td>
<td>Structural observations</td>
<td>Provides clearer direction for the structural observer duties. The structural observer is expected to observe, in person, gravity and lateral force resisting systems, connection details and gravity and lateral load paths. The clarification is also intended to address a widespread perception of overlap between special inspections and structural observation.</td>
<td>N  N</td>
</tr>
<tr>
<td>1704.6.1</td>
<td>1704.6.1</td>
<td>Structural observations for structures</td>
<td></td>
<td>N  N</td>
</tr>
<tr>
<td>Table 1705.3</td>
<td>Table 1705.3</td>
<td>Required Special Inspections and Tests of Concrete Construction</td>
<td>Special inspection requirements for precast concrete diaphragm connections have been added to the list of general concrete special inspections and tests.</td>
<td>?  N</td>
</tr>
<tr>
<td>1705.4.1</td>
<td>1705.4.1</td>
<td>Glass unit masonry and masonry veneer in Risk Category IV.</td>
<td>Special inspection of empirically designed masonry in Risk Category IV buildings is no longer required because the masonry standard, TMS 402, Building Code Requirements and Specification for Masonry Structures, does not allow Risk Category IV buildings to be designed following the empirical design method.</td>
<td>N  N</td>
</tr>
<tr>
<td>1705.5.3</td>
<td>None</td>
<td>Mass timber construction</td>
<td>Special inspection requirements have been added to address the anchorage and connection of mass timber structural elements.</td>
<td>Y  N</td>
</tr>
<tr>
<td>1705.2</td>
<td>None</td>
<td>Sealing of mass timber</td>
<td></td>
<td>Y  N</td>
</tr>
<tr>
<td>1705.1</td>
<td>None</td>
<td>Structural Integrity of Deep Foundation Elements.</td>
<td>When installed deep foundation elements appear to be understrength due to quality, location or alignment, an engineering assessment must now be done.</td>
<td>Y  N</td>
</tr>
<tr>
<td>1705.13.7</td>
<td>1705.12.7</td>
<td>Storage racks</td>
<td>The installation of firestops, fire-resistant joint systems and perimeter fire barrier systems in residential-use buildings now requires special inspection in those Group R fire areas having an occupant load exceeding 250.</td>
<td>Y ? N</td>
</tr>
</tbody>
</table>

**Notes:**
- **N** indicates no special inspection requirements have been added.
- **Y** indicates special inspection requirements have been added.
- **?** indicates uncertain special inspection requirements have been added.
<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Clarification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1709.5</td>
<td>Exterior window and door assemblies</td>
<td>Testing standards and analysis procedures have been clarified for exterior door and window assemblies, including garage door assemblies.</td>
</tr>
<tr>
<td>1709.5.3</td>
<td>Windborne debris protection</td>
<td>Required windborne debris protection for glazing has been clarified through the addition of a design standard and a definition of impact protective systems.</td>
</tr>
<tr>
<td>1709.5.3.1</td>
<td>Impact protective systems testing and labeling</td>
<td></td>
</tr>
</tbody>
</table>

### Chapter 18—Soils and foundations

**TAG Member: Sue Coffman**

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Clarification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1807.2.2</td>
<td>Design lateral soil loads</td>
<td>Amendment clarifies backfill height is measured from bottom of footing.</td>
</tr>
<tr>
<td>1807.2.2</td>
<td>Design lateral soil loads</td>
<td></td>
</tr>
</tbody>
</table>

### Chapter 19—Concrete

**TAG Member: Sue Coffman**

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Chapter 20—Aluminum

**TAG Member: Sue Coffman**

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Chapter 21—Masonry

**TAG Member: Sue Coffman**

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Chapter 22—Steel

TAG Member: Sue Coffman

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### Chapter 23—Wood

TAG Member: Sue Coffman

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### Chapter 24—Glass and glazing

<table>
<thead>
<tr>
<th>Section</th>
<th>Section</th>
<th>Framing</th>
<th>Appendix</th>
<th>Status 1</th>
<th>Status 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>2403.3</td>
<td>2403.3</td>
<td>Changes to how to calculate if glass is firmly supported based on glass edge length</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>2405.2</td>
<td>2405.2</td>
<td>Slope Glazing – Allowable Materials</td>
<td>Clarification that laminated glass and plastic materials do not require screening and are not limited by height restrictions</td>
<td>N</td>
<td>N</td>
</tr>
</tbody>
</table>

### Chapter 25—Gypsum board

TAG Member: Chris

<table>
<thead>
<tr>
<th>Section</th>
<th>Section</th>
<th>Water-resistant barriers</th>
<th>Appendix</th>
<th>Status 1</th>
<th>Status 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>2510.6; 2510.6.1; 2510.6.2</td>
<td>2510.6</td>
<td>Water-resistant barrier requirements for stucco have been divided into two categories based on whether the building is in a dry or moist climate.</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
</tbody>
</table>

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Appendix F Rodentproofing

No changes

Appendix G Flood-Resistant Construction

No changes

Appendix H Signs

No changes
<table>
<thead>
<tr>
<th>Appendix</th>
<th>Description</th>
<th>Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Patio Covers</td>
<td>No</td>
</tr>
<tr>
<td>J</td>
<td>Grading</td>
<td>No</td>
</tr>
<tr>
<td>L</td>
<td>Earthquake Recording</td>
<td>No</td>
</tr>
<tr>
<td>M</td>
<td>Tsunami-Generated D Flood Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

No changes