

Code Review

2018 Changes to International Codes

IBC- GENERAL - ROOFING - ROOFING TAC

W A R N I N G

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W A R N I N G



TAC Action Accommodate Florida Specific Need: YES (Select Criteria) <input type="checkbox"/> NO: <input type="checkbox"/> a. <input type="checkbox"/> b. <input type="checkbox"/> c. <input type="checkbox"/> d. <input type="checkbox"/> e. <input type="checkbox"/> f. <input type="checkbox"/> Others (Explain): <input type="text"/>		Commission Action Accommodate Florida Specific Need: YES (Select Criteria) <input type="checkbox"/> NO: <input type="checkbox"/> a. <input type="checkbox"/> b. <input type="checkbox"/> c. <input type="checkbox"/> d. <input type="checkbox"/> e. <input type="checkbox"/> f. <input type="checkbox"/> Others (Explain): <input type="text"/>			TAC	Cmsn.
				<input type="checkbox"/> No Action Needed	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/> Overlapping provisions	<input type="checkbox"/>	<input type="checkbox"/>

G19-16 Part I	IBC: 202	Revises section 202 definition “[BS] Underlayment” to clarify and make corrections in the definition. The code change was further modified by the Committee. The modification removes some of the proposed wording that was not needed and clarifies that underlayment can be included in the roof assembly but it not a requirement of all roof assemblies. Cost Impact: Will not increase the cost of construction. This is a clarification of a definition and does not add any additional restrictions or requirements.	Same as change between 2015 IBC and 2018 IBC	
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				<input type="checkbox"/> No Action Needed	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/> Overlapping provisions	<input type="checkbox"/>	<input type="checkbox"/>

G22-15	304.2, 308.2, 310.2, 402.2, 406.2, 410.2, 411.2, 412.2, 423.2, 502.1, 702.1, 802.1, 902.1, 1002.1, 1102.1, 1202.1, 1402.1, 1502.1, 1602, 1602.1, 1609.2, 1612.2, 1613.2, 1615.2, 1702.1, 1802.1, 2102.1, 2202.1, 2402.1, 2502.1, 2602.1, 3102.2, 3105.2, 3110.2, 404.1.1, 408.1.1, 722.1.1, [F] 307.2, [F] 415.2, [F] 421.2	Revises sections 304.2, 308.2, 310.2, 402.2, 406.2, 410.2, 411.2, 412.2, 423.2, 502.1, 702.1, 802.1, 902.1, 1002.1, 1102.1, 1202.1, 1402.1, 1502.1, 1602, 1602.1, 1609.2, 1612.2, 1613.2, 1615.2, 1702.1, 1802.1, 2102.1, 2202.1, 2402.1, 2502.1, 2602.1, 3102.2, 3105.2, 3110.2, 404.1.1, 408.1.1, 722.1.1, [F] 307.2, [F] 415.2, [F] 421.2 “Definition” and revises section 2302.1 “General” to delete the definitions sections from all the chapters except Chapter 2. The code change was further modified by public comment to make sleeping accommodations a mandatory feature of a sleeping unit.	Same as change between 2015 IBC and 2018 IBC	
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Rule 61G20-2.002 2. Technical amendments needed to accommodate the specific needs of this state include but are not limited to amendments to the Florida Building Code that provide for the following: a. Establish minimum life safety construction requirements to protect buildings and their occupants from fire, wind, flood, and storm surge using the latest technical research and engineering standards for buildings and materials products. b. Provide for flood protection provisions that are consistent with the latest flood protection requirements of the National Flood Insurance Program. c. Maintain eligibility for federal funding and discounts from the National Flood Insurance Program, the Federal Emergency Management Agency, and the United States Department of Housing and Urban Development. d. Provide for energy efficiency standards for buildings that meet or exceed the national energy standards as mandated by Title III of the Energy Conservation and Protection Act. e. Maintain coordination with the Florida Fire Prevention Code. f. Provide for the latest industry standards and design

	<p>1202.1, 1402.1, 1502.1, 1602.1, 602.1, 1609.2, 1612.2, 1613.2, 1615.2, 1702.1, 1802.1, 2102.1, 2202.1, 2302.1, 2402.1, 2502.1, 2602.1, 3102.2, 3105.2, 3110.2, 404.1.1, 408.1.1, 722.1.1, [F] 307.2, [F] 415.2, [F] 421.2</p>	<p>Cost Impact: Will not increase the cost of construction. The proposal is purely editorial in nature and will have no impact on actual construction.</p>		
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		<p><input type="checkbox"/> No Action Needed</p>	<p><input type="checkbox"/></p>	<p><input type="checkbox"/></p>
		<p><input type="checkbox"/> Overlapping provisions</p>	<p><input type="checkbox"/></p>	<p><input type="checkbox"/></p>

<p>G24-16</p>	<p>202</p>	<p>Revises section 202 definition "Vegetative roof" revise the definition of "vegetative roof" so that it correlates with ASTM D1079.</p> <p>Cost Impact: Will not increase the cost of construction. The proposed change is a clarification and does not change the stringency of existing code requirements so the cost of construction will be unchanged.</p>	<p>Same as change between 2015 IBC and 2018 IBC</p>	
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Code Change No: **G22-15**

Original Proposal

Section(s): 304.2, 308.2, 310.2, 402.2, 406.2, 410.2, 411.2, 412.2, 423.2, 502.1, 702.1, 802.1, 902.1, 1002.1, 1102.1, 1202.1, 1402.1, 1502.1, 1602, 1602.1, 1609.2, 1612.2, 1613.2, 1615.2, 1702.1, 1802.1, 2102.1, 2202.1, 2302.1, 2402.1, 2502.1, 2602.1, 3102.2, 3105.2, 3110.2, 404.1.1, 408.1.1, 722.1.1, [F] 307.2, [F] 415.2, [F] 421.2

Proponent: Sarah Rice, Preview Group, representing Preview Group

Revise as follows:

304.2 Definitions. ~~The following terms—~~Terms are defined in Chapter 2:

**AMBULATORY CARE FACILITY.
CLINIC, OUTPATIENT.**

[F] 307.2 Definitions. ~~The following terms—~~Terms are defined in Chapter 2:
(The lists of terms in this and subsequent sections would be deleted.)

308.2 Definitions. ~~The following terms—~~Terms are defined in Chapter 2:

310.2 Definitions. ~~The following terms—~~Terms are defined in Chapter 2:

402.2 Definitions. ~~The following terms—~~Terms are defined in Chapter 2:

404.1.1 Definition. ~~The following term is—~~Terms are defined in Chapter 2:

406.2 Definitions. ~~The following terms—~~Terms are defined in Chapter 2:

408.1.1 Definitions. ~~The following terms—~~Terms are defined in Chapter 2:

410.2 Definitions. ~~The following terms—~~Terms are defined in Chapter 2:

411.2 Definition. ~~The following term is—~~Terms are defined in Chapter 2:

412.2 Definitions. ~~The following terms—~~Terms are defined in Chapter 2:

[F] 415.2 Definitions. ~~The following terms—~~Terms are defined in Chapter 2:

[F] 421.2 Definitions. ~~The following terms—~~Terms are defined in Chapter 2:

423.2 Definitions. ~~The following terms—~~Terms are defined in Chapter 2:

502.1 Definitions. ~~The following terms—~~Terms are defined in Chapter 2:

702.1 Definitions. ~~The following terms—~~Terms are defined in Chapter 2:

722.1.1 Definitions. ~~The following terms—~~Terms are defined in Chapter 2:

802.1 Definitions. ~~The following terms—~~Terms are defined in Chapter 2:

902.1 Definitions. ~~The following terms—~~Terms are defined in Chapter 2:

1002.1 Definitions. ~~The following terms~~ Terms are defined in Chapter 2:

1102.1 Definitions. ~~The following terms~~ Terms are defined in Chapter 2:

1202.1 General. ~~The following terms~~ Terms are defined in Chapter 2:

1402.1 Definitions. ~~The following terms~~ Terms are defined in Chapter 2:

1502.1 Definitions. ~~The following terms~~ Terms are defined in Chapter 2:

1602.1 Definitions, and notations ~~The following terms~~ Terms are defined in Chapter 2, The following notations are used in this chapter:

1609.2 Definitions. ~~For the purposes of Section 1609 and as used elsewhere in this code, the following terms~~ Terms are defined in Chapter 2-

1612.2 Definitions. ~~The following terms~~ Terms are defined in Chapter 2:

1613.2 Definitions. ~~The following terms~~ Terms are defined in Chapter 2:

1615.2 Definitions. ~~The following words and terms~~ Terms are defined in Chapter 2:

1702.1 Definitions. ~~The following terms~~ Terms are defined in Chapter 2:

1802.1 Definitions. ~~The following words and terms~~ Terms are defined in Chapter 2:

2102.1 General. ~~The following terms~~ Terms are defined in Chapter 2, The following notations are used in the chapter:

2302.1 Definitions. ~~The following terms~~ Terms are defined in Chapter 2:

2402.1 Definitions. ~~The following terms~~ Terms are defined in Chapter 2:

2502.1 Definitions. ~~The following terms~~ Terms are defined in Chapter 2:

2602.1 Definitions. ~~The following terms~~ Terms are defined in Chapter 2:

3102.2 Definitions. ~~The following terms~~ Terms are defined in Chapter 2:

3105.2 Definition. ~~The following term is~~ Terms are defined in Chapter 2:

3110.2 Definition. ~~The following term is~~ Terms are defined in Chapter 2:

Reason: The intent of this proposal is to remove the definition list sections scattered about the code and the lists of defined terms included within each such section. Starting with the 2012 edition of the IBC all of the definitions were consolidated into Chapter 2.

These sections are vestigages of historic organization of the code. In general when new terms are added to Chapter 2, they rarely find themselves being added to one of these lists. Terms can be removed from Chapter 2, but don't always get removed from these lists. Most of the ICC codes simply have a Chapter 2 of definitions, there are no lists scattered about the code. It is time to remove these lists. I see this as an editorial action. The proposal was not accepted by the Code Correlation Committee because of a concern that the language in each section implied that all terms were defined. I have revised that language to provide a simple reference for defined terms.

This proposal simply amends the sections to remove the lists and send the code users directly to Chapter 2. An alternative the committee might consider is to delete all of these sections (except the two that list notations). Deletion would force renumber of the balance of the sections in these chapters.

In two sections, these lists also contain a list of scientific notations used in the chapter. Those notations are not found in Chapter 2.

Thus the current text is incorrect and needs to be addressed. The proposal retains Section 1602 and 2102, but only for the listed notations.

Cost Impact: Will not increase the cost of construction
The proposal is purely editorial in nature and will have no impact on actual construction.

Report of Committee Action Hearings

Committee Action:

Approved as Submitted

Committee Reason: The proposal reduces redundancy in the code and simplifies the search for information. With each defined term italicized, the code user will go directly to Chapter 2 where the full definitions are found. The listings in front of the chapter provided no information for the code user. The intent of the committee was to change to the lists to a simple reference to Chapter 2 with the exception of those locations where the lists also included scientific notations. The notations would remain in the Chapters.

Assembly Action:

Public Comments

None

Public Comment 1:

Maureen Traxler, representing Seattle Dept of Planning & Development (maureen.traxler@seattle.gov) requests Approve as Modified by this Public Comment.

Modify as follows:

~~304.2 Definitions. Terms are defined in Chapter 2.~~

~~[F] 307.2 Definitions. Terms are defined in Chapter 2~~

~~308.2 Definitions. Terms are defined in Chapter 2~~

~~310.2 Definitions. Terms are defined in Chapter 2~~

~~402.2 Definitions. Terms are defined in Chapter 2~~

~~404.1.1 Definition. Terms are defined in Chapter 2:~~

~~406.2 Definitions. Terms are defined in Chapter 2~~

~~408.1.1 Definitions. Terms are defined in Chapter 2~~

~~410.2 Definitions. Terms are defined in Chapter 2~~

~~411.2 Definition. Terms are defined in Chapter 2~~

~~412.2 Definitions. Terms are defined in Chapter 2~~

~~[F] 415.2 Definitions. Terms are defined in Chapter 2~~

~~[F] 421.2 Definitions. Terms are defined in Chapter 2~~

~~423.2 Definitions. Terms are defined in Chapter 2~~

**SECTION 502
DEFINITIONS**

~~502.1 Definitions. Terms are defined in Chapter 2~~

**SECTION 702
DEFINITIONS**

~~702.1 Definitions. Terms are defined in Chapter 2~~

~~722.1.1 Definitions. Terms are defined in Chapter 2:~~

SECTION 802

DEFINITIONS**802.1 Definitions. Terms are defined in Chapter 2****SECTION 902
DEFINITIONS****902.1 Definitions. Terms are defined in Chapter 2****SECTION 1002
DEFINITIONS****1002.1 Definitions. Terms are defined in Chapter 2****SECTION 1102
DEFINITIONS****1102.1 Definitions. Terms are defined in Chapter 2:****SECTION 1202
DEFINITIONS****1202.1 General. Terms are defined in Chapter 2****SECTION 1402
DEFINITIONS****1402.1 Definitions. Terms are defined in Chapter 2****SECTION 1502
DEFINITIONS****1502.1 Definitions. Terms are defined in Chapter 2****SECTION 1602
DEFINITIONS AND NOTATIONS****1609.2 Definitions. Terms are defined in Chapter 2****1612.2 Definitions. Terms are defined in Chapter 2****1615.2 Definitions. Terms are defined in Chapter 2****1613.2 Definitions. Terms are defined in Chapter 2****SECTION 1702
-DEFINITIONS****1702.1 Definitions. Terms are defined in Chapter 2****SECTION 1802
DEFINITIONS****1802.1 Definitions. Terms are defined in Chapter 2****SECTION 2102
DEFINITIONS AND NOTATIONS****2102.1 General. Notations Terms are defined in Chapter 2. The following notations are used in the chapter:****SECTION 2202
DEFINITIONS****2202.1 Definitions. The following terms are defined in Chapter 2:****SECTION 2302
DEFINITIONS****2302.1 Definitions. Terms are defined in Chapter 2**

**SECTION 2402
DEFINITIONS**

~~2402.1 Definitions. Terms are defined in Chapter 2~~

**SECTION 2502
DEFINITIONS**

~~2502.1 Definitions. Terms are defined in Chapter 2~~

**SECTION 2602
DEFINITIONS**

~~2602.1 Definitions. Terms are defined in Chapter 2~~

~~3102.2 Definitions. Terms are defined in Chapter 2~~

~~3105.2 Definition. Terms are defined in Chapter 2~~

~~3110.2 Definition. Terms are defined in Chapter 2~~

Commenter's Reason: This comment deletes the definitions sections from all the chapters except Chapter 2. The original proposal deletes the lists of defined terms but leaves the statement "Terms are defined in Chapter 2." While we agree wholeheartedly with the spirit of the original proposal, we would like to take it to its logical conclusion and delete the entire sections. The text added in the original proposal doesn't add anything to the code; it's only purpose is to avoid renumbering the chapters. Everyone who has basic knowledge about the organization of the IBC, or who understands why terms are italicized knows that terms are defined in Chapter 2. For Sections 1602.1 and 2102.1, this comment lists the definitions that should be deleted in order to be very clear that the notations must remain in those sections.

Commenter's Reason: The essence of a sleeping unit is that it's a place where people sleep. In the original proposal, provisions for sleeping are optional--this comment makes sleeping accommodations a mandatory feature of a sleeping unit.

Final Hearing Results

G22-15

AMPC1

Code Change No: **G180-15**

Original Proposal

Section: 406.7.2, TABLE 601, 603.1, 705.2.3, 803.3, 803.13.3, 1406.3, [BG] 1510.2.5, [BG] 1510.3, 3105.3, D102.2.8, 803.1

Proponent: Dennis Richardson, American Wood Council, representing American Wood Council (drichardson@awc.org)

Revise as follows:

406.7.2 Canopies. Canopies under which fuels are dispensed shall have a clear, unobstructed height of not less than 13 feet 6 inches (4115 mm) to the lowest projecting element in the vehicle drive-through area. Canopies and their supports over pumps shall be of noncombustible materials, *fire-retardant-treated wood* complying with Chapter 23, ~~wood of Type IV sizes heavy timber complying with Section 2304.11~~ or of construction providing 1-hour *fire resistance*. Combustible materials used in or on a *canopy* shall comply with one of the following:

1. Shielded from the pumps by a noncombustible element of the *canopy*, or ~~wood of Type IV sizes heavy timber complying with Section 2304.11~~;
2. Plastics covered by aluminum facing having a thickness of not less than 0.010 inch (0.30 mm) or corrosion-resistant steel having a base metal thickness of not less than 0.016 inch (0.41 mm). The plastic shall have a *flame spread index* of 25 or less and a smoke developed index of 450 or less when tested in the form intended for use in accordance with ASTM E 84 or UL 723 and a self-ignition temperature of 650°F (343°C) or greater when tested in accordance with ASTM D 1929; or
3. Panels constructed of light-transmitting plastic materials shall be permitted to be installed in *canopies* erected over motor vehicle fuel-dispensing station fuel dispensers, provided the panels are located not less than 10 feet (3048 mm) from any building on the same *lot* and face *yards* or streets not less than 40 feet (12 192 mm) in width on the other sides. The aggregate areas of plastics shall be not greater than 1,000 square feet (93 m²). The maximum area of any individual panel shall be not greater than 100 square feet (9.3 m²).

TABLE 601 (601)
FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)

BUILDING ELEMENT	TYPE I		TYPE II		TYPE III		TYPE IV	TYPE V	
	A	B	A	B	A	B		HT	A
Primary structural frame ^f (see Section 202)	3 ^a	2 ^a	1	0	1	0	HT	1	0
Bearing walls	3	2	1	0	2	2	2	1	0
Exterior ^{e, f}	3 ^a	2 ^a	1	0	1	0	1/HT	1	0
Interior									
Nonbearing walls and partitions Exterior	See Table 602								
Nonbearing walls and partitions Interior ^d	0	0	0	0	0	0	See Section 602.4.6 2304.11.2	0	0
Floor construction and associated secondary members (see Section 202)	2	2	1	0	1	0	HT	1	0
Roof construction and associated secondary members (see Section 202)	1 ¹ / 2 ^b	1 ^{b,c}	1 ^{b,c}	0 ^c	1 ^{b,c}	0	HT	1 ^{b,c}	0

For SI: 1 foot = 304.8 mm.

- a. Roof supports: Fire-resistance ratings of primary structural frame and bearing walls are permitted to be reduced by 1 hour where supporting a roof only.
- b. Except in Group F-1, H, M and S-1 occupancies, fire protection of structural members shall not be required, including protection of roof framing and decking where every part of the roof construction is 20 feet or more above any floor immediately below. Fire-retardant-treated wood members shall be allowed to be used for such unprotected members.
- c. In all occupancies, heavy timber complying with Section 2304.11 shall be allowed where a 1-hour or less fire-resistance rating is required.
- d. Not less than the fire-resistance rating required by other sections of this code.
- e. Not less than the fire-resistance rating based on fire separation distance (see Table 602).
- f. Not less than the fire-resistance rating as referenced in Section 704.10.

603.1 Allowable materials. Combustible materials shall be permitted in buildings of Type I or II construction in the following applications and in accordance with Sections 603.1.1 through 603.1.3:

1. *Fire-retardant-treated wood* shall be permitted in:
 - 1.1 Nonbearing partitions where the required *fire-resistance rating* is 2 hours or less.
 - 1.2 Nonbearing *exterior walls* where fire-resistance-rated construction is not required.
 - 1.3 Roof construction, including girders, trusses, framing and decking.

Exception: In buildings of Type IA construction exceeding two *stories above grade plane*, *fire-retardant-treated wood* is not permitted in roof construction where the vertical distance from the upper floor to the roof is less than 20 feet (6096 mm).

2. Thermal and acoustical insulation, other than foam plastics, having a *flame spread index* of not more than 25.

Exceptions:

- 1 Insulation placed between two layers of noncombustible materials without an intervening airspace shall be allowed to have a *flame spread index* of not more than 100.
 - 2 Insulation installed between a finished floor and solid decking without intervening airspace shall be allowed to have a *flame spread index* of not more than 200.
3. Foam plastics in accordance with Chapter 26.
 4. Roof coverings that have an A, B or C classification.
 5. *Interior floor finish* and floor covering materials installed in accordance with Section 804.
 6. Millwork such as doors, door frames, window sashes and frames.
 7. *Interior wall and ceiling finishes* installed in accordance with Sections 801 and 803.
 8. *Trim* installed in accordance with Section 806.
 9. Where not installed greater than 15 feet (4572 mm) above grade, show windows, nailing or furring strips and wooden bulkheads below show windows, including their frames, aprons and show cases.
 10. Finish flooring installed in accordance with Section 805.
 11. Partitions dividing portions of stores, offices or similar places occupied by one tenant only and that do not establish a *corridor* serving an *occupant load* of 30 or more shall be permitted to be constructed of *fire-retardant-treated wood*, 1-hour fire-resistance-rated construction or of wood panels or similar light construction up to 6 feet (1829 mm) in height.
 12. Stages and platforms constructed in accordance with Sections 410.3 and 410.4, respectively.
 13. Combustible *exterior wallcoverings*, balconies and similar projections and bay or oriel windows in accordance with Chapter 14.
 14. Blocking such as for handrails, millwork, cabinets and window and door frames.
 15. Light-transmitting plastics as permitted by Chapter 26.
 16. Mastics and caulking materials applied to provide flexible seals between components of *exterior wall* construction.

17. Exterior plastic veneer installed in accordance with Section 2605.2.
18. Nailing or furring strips as permitted by Section 803.11.
19. Heavy timber as permitted by Note c to Table 601 and Sections ~~602.4.7~~602.4.3 and 1406.3.
20. Aggregates, component materials and admixtures as permitted by Section 703.2.2.
21. Sprayed fire-resistant materials and intumescent and mastic fire-resistant coatings, determined on the basis of *fire resistance* tests in accordance with Section 703.2 and installed in accordance with Sections 1705.14 and 1705.15, respectively.
22. Materials used to protect penetrations in fire-resistance-rated assemblies in accordance with Section 714.
23. Materials used to protect joints in fire-resistance-rated assemblies in accordance with Section 715.
24. Materials allowed in the concealed spaces of buildings of Types I and II construction in accordance with Section 718.5.
25. Materials exposed within plenums complying with Section 602 of the *International Mechanical Code*.
26. Wall construction of freezers and coolers of less than 1,000 square feet (92.9 m²), in size, lined on both sides with noncombustible materials and the building is protected throughout with an *automatic sprinkler system* in accordance with Section 903.3.1.1.

705.2.3 Combustible projections. Combustible projections extending to within 5 feet (1524 mm) of the line used to determine the *fire separation distance* shall be of not less than 1-hour fire-resistance-rated construction, ~~Type IV heavy timber~~ construction complying with Section 2304.11, fire-retardant-treated wood or as required by Section 1406.3.

Exception: Type VB construction shall be allowed for combustible projections in Group R-3 and U occupancies with a fire separation distance greater than or equal to 5 feet (1524 mm).

803.3 Heavy timber exemption. Exposed portions of building elements complying with the requirements for buildings of ~~Type IV heavy timber~~ construction in Section 602.4 or Section 2304.11 shall not be subject to *interior finish* requirements.

803.13.3 Heavy timber construction. Wall and ceiling finishes of all classes as permitted in this chapter that are installed directly against the wood decking or planking of ~~Type IV heavy timber~~ construction in Sections 602.4.2 or 2304.11 or to wood furring strips applied directly to the wood decking or planking shall be fireblocked as specified in Section 803.13.1.1.

1406.3 Balconies and similar projections. Balconies and similar projections of combustible construction other than fire-retardant-treated wood shall be fire-resistance rated where required by Table 601 for floor construction or shall be of ~~Type IV heavy timber~~ construction in accordance with Section ~~602.4-2304.11~~. The aggregate length of the projections shall not exceed 50 percent of the building's perimeter on each floor.

Exceptions:

1. On buildings of Type I and II construction, three stories or less above *grade plane*, *fire-retardant-treated wood* shall be permitted for balconies, porches, decks and exterior stairways not used as required exits.
2. Untreated wood is permitted for pickets and rails or similar guardrail devices that are limited to 42 inches (1067 mm) in height.
3. Balconies and similar projections on buildings of Type III, IV and V construction shall be permitted to be of Type V construction, and shall not be required to have a *fire-resistance rating* where sprinkler protection is extended to these areas.
4. Where sprinkler protection is extended to the balcony areas, the aggregate length of the balcony on each floor shall not be limited.

[BG] 1510.2.5 Type of construction. Penthouses shall be constructed with walls, floors and roofs as required for the type of construction of the building on which such penthouses are built.

Exceptions:

1. On buildings of Type I construction, the exterior walls and roofs of penthouses with a *fire separation distance* greater than 5 feet (1524 mm) and less than 20 feet (6096 mm) shall be permitted to have not less than a 1-hour fire-resistance rating. The exterior walls and roofs of penthouses with a fire separation distance of 20 feet (6096 mm) or greater shall not be required to have a fire-resistance rating.
2. On buildings of Type I construction two stories or less in height above grade plane or of Type II construction, the exterior walls and roofs of penthouses with a *fire separation distance* greater than 5 feet (1524 mm) and less than 20 feet (6096 mm) shall be permitted to have not less than a 1-hour fire-resistance rating or a lesser fire-resistance rating as required by Table 602 and be constructed of fire-retardant-treated wood. The exterior walls and roofs of penthouses with a *fire separation distance* of 20 feet (6096 mm) or greater shall be permitted to be constructed of fire-retardant-treated wood and shall not be required to have a fire-resistance rating. Interior framing and walls shall be permitted to be constructed of fire-retardant-treated wood.
3. On buildings of Type III, IV or V construction, the exterior walls of penthouses with a fire separation distance greater than 5 feet (1524 mm) and less than 20 feet (6096 mm) shall be permitted to have not less than a 1-hour fire-resistance rating or a lesser fire-resistance rating as required by Table 602. On buildings of Type III, IV or VA construction, the exterior walls of penthouses with a fire separation distance of 20 feet (6096 mm) or greater shall be permitted to be of Type IV heavy timber construction complying with Sections 602.4 and 2304.11 or noncombustible construction or fire-retardant-treated wood and shall not be required to have a fire-resistance rating.

[BG] 1510.3 Tanks. Tanks having a capacity of more than 500 gallons (1893 L) located on the roof deck of a building shall be supported on masonry, reinforced concrete, steel or Type IV heavy timber construction complying with Section 2304.11 provided that, where such supports are located in the building above the lowest story, the support shall be fire-resistance rated as required for Type IA construction.

3105.3 Design and construction. *Awnings* and *canopies* shall be designed and constructed to withstand wind or other lateral loads and live loads as required by Chapter 16 with due allowance for shape, open construction and similar features that relieve the pressures or loads. Structural members shall be protected to prevent deterioration. *Awnings* shall have frames of noncombustible material, *fire-retardant-treated wood*, ~~wood of Type IV size heavy timber complying with Section 2304.11~~, or 1-hour construction with combustible or noncombustible covers and shall be either fixed, retractable, folding or collapsible.

D102.2.8 Permanent canopies. Permanent canopies are permitted to extend over adjacent open spaces provided all of the following are met:

1. The canopy and its supports shall be of noncombustible material, *fire-retardant-treated wood*, ~~Type IV construction heavy timber complying with Section 2304.11~~ or of 1-hour fire-resistance-rated construction.

Exception: Any textile covering for the canopy shall be flame resistant as determined by tests conducted in accordance with NFPA 701 after both accelerated water leaching and accelerated weathering.

2. Any canopy covering, other than textiles, shall have a *flame spread index* not greater than 25 when tested in accordance with ASTM E 84 or UL 723 in the form intended for use.
3. The canopy shall have at least one long side open.
4. The maximum horizontal width of the canopy shall not exceed 15 feet (4572 mm).

5. The *fire resistance of exterior walls* shall not be reduced.

2015 International Fire Code

Revise as follows:

803.1 General. The provisions of this section shall limit the allowable fire performance and smoke development of interior wall and ceiling finishes and interior wall and ceiling trim in existing buildings based on location and occupancy classification. Interior wall and ceiling finishes shall be classified in accordance with Section 803 of the *International Building Code*. Such materials shall be grouped in accordance with ASTM E 84, as indicated in Section 803.1.1, or in accordance with NFPA 286, as indicated in Section 803.1.2.

Exceptions:

1. Materials having a thickness less than 0.036 inch (0.9 mm) applied directly to the surface of walls and ceilings.
2. Exposed portions of structural members complying with the requirements of ~~buildings of Type IV construction~~ heavy timber in accordance with the *International Building Code* shall not be subject to interior finish requirements.

Reason: This code change is part 2 of a proposal to reorganize Type IV Section 602.4 and heavy timber section 2304.11. This part of the change includes references found throughout the IBC to either: Type IV construction, Section 602.4, Section 2304.11, or "heavy timber". This change should follow directly after the 602.4 change and the reason for the change is included in that reason statement.

The references found in this part are generally changed to Type IV or Section 602.4 when the section of the code is referring to the type of construction associated with a structure. The references are generally changed to "heavy timber complying with Section 2304.11" when the code is referring to a heavy timber element found in a building of another type of construction. This change is a reorganization of two sections and is not intended to change the intent of the code.

Cost Impact: Will not increase the cost of construction

Since this is a reorganization of existing requirements, not the creation of new requirements, this code change will not increase the cost of construction.

Report of Committee Action Hearings
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Committee Action:

Approved as Submitted

Committee Reason: This is a companion piece to G179-15. G179 reorganizes the heavy timber provisions. This change provides corrections to the various new section numbers resulting from G179-15.

Assembly Action

None

Final Hearing Results

G180-15

AS

Back

Code Change No: **G14-16 Part I**

Original Proposal

Section: IBC: 202

Proponent: Theresa Weston, representing DuPont Building Innovations
(theresa.a.weston@dupont.com)

THIS IS A 4 PART CODE CHANGE. PART I WILL BE HEARD BY THE IBC-STRUCTURAL CODE COMMITTEE. PART II WILL BE HEARD BY THE IECC-COMMERCIAL CODE COMMITTEE. PART III WILL BE HEARD BY THE IECC-RESIDENTIAL CODE COMMITTEE. PART IV WILL BE HEARD BY THE IRC-BUILDING CODE COMMITTEE. SEE THE TENTATIVE HEARING ORDER FOR THESE COMMITTEES.

Revise as follows:

[BS] ROOF ASSEMBLY (For application to Chapter 15 only). A system designed to provide weather protection and resistance to design ~~loads.~~loads. The system consists of a ~~roof covering~~roof covering and roof deck or a single component serving as both the roof covering and the ~~roof deck~~roof deck. A roof assembly includes the ~~roof deck~~roof deck, vapor retarder, ~~underlayment, substrate~~er and roof covering and can also include a thermal barrier, insulation or a vapor retarder, ~~vapor retarder and roof covering~~based on design specifications.

Reason: This proposal makes clarifies and makes corrections to the definition. Specifically, in the definition in the IBC and IRC it replaces one of the redundant "vapor retarder" listings with "underlayment". Additionally it separates the items that are only present in some roof assemblies, from those that are present in all roof assemblies.

Cost Impact: Will not increase the cost of construction
This is a clarification of a definition and does add any additional restrictions or requirements.

Report of Committee Action Hearings

Committee Action:

Approved as Modified

Modify as follows:

[BS] ROOF ASSEMBLY (For application to Chapter 15 only). A system designed to provide weather protection and resistance to design loads. The system consists of a roof covering and roof deck or a single component serving as both the roof covering and the roof deck. A roof assembly ~~includes the roof deck~~can also include, an underlayment, ~~and roof covering and can also include~~ a thermal barrier, insulation or a vapor retarder, ~~based on design specifications~~.

Committee Reason: The revision to the definition of "roof assembly" removes duplicative wording and clarifies which items are in all roof assemblies. The modification removes some of the proposed wording that was not needed and clarifies that underlayment can be included in the roof assembly but it not a requirement of all roof assemblies.

Assembly Action

None

Final Action Results

G14-16 Part I

AM

Back

Code Change No: **G19-16 Part I**

Original Proposal

Section: IBC: 202

Proponent: Theresa Weston, representing DuPont Building Innovations
(theresa.a.weston@dupont.com)

THIS IS A 2 PART CODE CHANGE. PART I WILL BE HEARD BY THE IBC-STRUCTURAL CODE COMMITTEE. PART II WILL BE HEARD BY THE IRC-BUILDING CODE COMMITTEE. SEE THE TENTATIVE HEARING ORDERS FOR THESE COMMITTEES.

Revise as follows:

STEEP SLOPE. A roof slope greater than two units vertical in 12 units horizontal (17-percent slope).

[BS] UNDERLAYMENT. One or more layers of a durable, water resistive material (e.g. felt, sheathing paper, nonbituminous saturated felt, or ~~other approved material self-adhered membrane~~) that provides a degree of protection against water intrusion based on the roof slope and anticipated environmental exposure, over which ~~steep slope a steep-slope roof covering roof covering~~ is applied.

Reason: This proposal expands the definition to describe an underlayment more generally, rather than describing it only by example materials.

Cost Impact: Will not increase the cost of construction
This proposal only updates a definition and does not include any additional restrictions or requirements.

Report of Committee Action Hearings

Committee Action:

Approved as Modified

Modify as follows:

[BS] UNDERLAYMENT. One or more layers of a durable, water resistive material (e.g. felt, sheathing paper, nonbituminous saturated felt, or self-adhered membrane) that provides applied to a degree of protection against water intrusion based on the roof slope and anticipated environmental exposure, over which steep slope a roof covering is applied ~~deck under the roof covering~~ that resists liquid water that penetrates the roof covering.

Committee Reason: The revision to the definition of "roof assembly" removes duplicative wording and clarifies which items are in all roof assemblies. The modification removes some of the proposed wording that was not needed and clarifies that underlayment can be included in the roof assembly but it not a requirement of all roof assemblies.

Assembly Action

None

Final Action Results

G19-16 Part I

AM

Code Change No: **G24-16**

Original Proposal

Section: 202

Proponent: Jason Wilen AIA CDT RRO, National Roofing Contractors Association (NRCA), representing National Roofing Contractors Association (NRCA) (jwilen@nrca.net)

THIS CODE CHANGE WILL BE HEARD BY THE IBC STRUCTURAL COMMITTEE. SEE THE TENTATIVE HEARING ORDER FOR THIS COMMITTEE.

Revise as follows:

VEGETATIVE ROOF. An assembly of interacting components designed to waterproof ~~and normally insulate~~ a building's top surface that includes, by design, vegetation and related landscape elements.

Reason: The purpose of this change is to address a concern raised during the IgCC code hearing last cycle. We have taken the change to ASTM and the updated definition for "Vegetative Roof" has been balloted with ASTM's D08 Committee and has received no negative votes. This change will therefore make the IBC definition consistent with the most up-to-date definition in ASTM D1079, "Standard Terminology Relating to Roofing and Waterproofing."

Cost Impact: Will not increase the cost of construction
The proposed change is a clarification and does not change the stringency of existing code requirements so the cost of construction will be unchanged.

Report of Committee Action Hearings

Committee Action:

Approved as Submitted

Committee Reason: This proposal revises the definition of "vegetative roof" so that it correlates with ASTM D1079.

Assembly Action

None

Final Action Results

G24-16

AS