

Code Review

2018 Changes to International Codes

IBC - GENERAL - MECHANICAL - MECHANICAL TAC

W A R N I N G

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W A R N I N G



2018 International Building Code (IBC – General) – Mechanical

Mechanical TAC

IBC-Mechanical Code Change No	IBC Section-Mechanical	Change Summary b/t 2015 IBC and 2018 IBC. Mechanical.	Change Summary b/t 2017 FBC and 2018 IBC. Mechanical.	Staff comments												
G192-15 Part II	[M] 2801.1	Revises section M 2801.1 to provide consistency in the scoping for the Electrical, Plumbing, and Mechanical chapters. Cost Impact: Will not increase the cost of construction. This proposal will not increase the cost of construction. This proposal may decrease the cost of construction , by providing clarity to the scoping of these chapters.	Same as change between 2015 IBC and 2018 IBC													
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"/>		<table border="1"> <thead> <tr> <th></th> <th>TAC</th> <th>Cmsn.</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> No Action Needed</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> Overlapping provisions</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>		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"/>			
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FS178-15	2603.7, 2603.7.1, 2603.7.2, 2603.7.3; IMC: 602.2.1.6, 602.2.1.6.1, 602.2.1.6.2, 602.2.1.6.3	Revises section 2603.7 “Foam plastic insulation used in plenums as interior finish or interior trim in plenums,” deletes without substitution section 2603.7.1 “Separation required,” deletes without substitution section 2603.7.2 “Approval,” deletes without substitution section 2603.7.3 “Covering,” revises section 602.2.1.6 IMC “Foam plastic insulation in plenums as interior finish or interior trim,” deletes without substitution section 602.2.1.6.1 “Separation required,” deletes without substitution 602.2.1.6.3 IMC “Covering,” and deletes without substitution section 602.2.1.6.2 IMC “Approval” to generate identical language in both the IBC and IMC code sections. The code change was further modified by the Committee. The modification keeps reference to compliance with Section 2603.9 as an alternative. Also, the code change was further modified by public comment. This public comment simply combines both proposals, as accepted by the	Same as change between 2015 IBC and 2018 IBC													

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>technical committees and generates identical language into both code sections</p> <p>Cost Impact: Will not increase the cost of construction. The proposal will potentially eliminate redundant testing to additional standards other than UL 723, ASTM E84, and NFPA 286.</p>		
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TAC Action	Commission Action		TAC	Cmsn.
<p>Accommodate Florida Specific Need:</p> <p>YES (Select Criteria) <input type="checkbox"/></p> <p>a. <input type="checkbox"/> b. <input type="checkbox"/> c. <input type="checkbox"/> d. <input type="checkbox"/> e. <input type="checkbox"/> f. <input type="checkbox"/></p> <p>Others (Explain):</p> <div style="border: 1px solid black; height: 40px; width: 100%;"></div>	<p>Accommodate Florida Specific Need:</p> <p>YES (Select Criteria) <input type="checkbox"/></p> <p>a. <input type="checkbox"/> b. <input type="checkbox"/> c. <input type="checkbox"/> d. <input type="checkbox"/> e. <input type="checkbox"/> f. <input type="checkbox"/></p> <p>Others (Explain):</p> <div style="border: 1px solid black; height: 40px; width: 100%;"></div>	<p><input type="checkbox"/> No Action Needed</p> <p><input type="checkbox"/> Overlapping provisions</p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p>

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Back

Code Change No: **G178-15**

Original Proposal

Section: 602.4

Proponent: Sam Francis, American Wood Council, representing American Wood Council (sfrancis@awc.org)

Revise as follows:

602.4 Type IV. Type IV construction (Heavy Timber, ~~HT~~) is that type of construction in which the exterior walls are of noncombustible materials and the interior building elements are of solid ~~or wood~~, laminated wood or structural composite lumber (SCL) without concealed spaces. The details of Type IV construction shall comply with the provisions of this section and Section 2304.11. Exterior walls complying with Section 602.4.1 or 602.4.2 shall be permitted. Minimum solid dimensions for building elements are as follows:

1. Solid sawn building elements shall be not less than the nominal dimensions ~~are required for structures built using Type IV construction (HT) in Sections 602.4.3 through 602.4.6.~~
2. For ~~glued laminated~~ Glued-laminated members and structural composite lumber (SCL) members, members shall be the equivalent net finished width and ~~depths~~ depth corresponding to the minimum nominal width and ~~depths~~ depth of solid sawn lumber ~~are required~~ as specified in Table 602.4. ~~Cross-laminated~~
3. Cross-laminated timber (CLT) dimensions ~~used in this section~~ are actual dimensions and shall be not less than the dimensions required in Sections 602.4.6.2, 602.4.7, and 602.4.6.8.2, as applicable.

Reason: In the last code cycle, the Heavy Timber section saw 5 code change proposals. The correlation of these changes was very difficult. We are submitting several changes which are intended to make this chapter more understandable. One of the issues to be clarified is the "minimum dimensions of the exterior walls. Another item is to make it absolutely clear that Structural Composite Lumber of the minimum dimensions for this chapter is, in fact, considered heavy timber. So this proposal will point the user to the proper sections to accomplish these tasks.

For a complete list of AWC code change proposals and additional information please go to <http://www.awc.org/Code-Officials/2015-IBC-Code-Changes>.

Cost Impact: Will not increase the cost of construction

This is an editorial rewrite and will have no cost impact other than to lower costs by making the minimum requirements more clear.

Report of Committee Action Hearings

Committee Action:

Approved as Submitted

Committee Reason: The proposal clarity for the use and application the various engineered wood products for both the designers and local building officials.

Assembly Action

None

Final Hearing Results

G178-15

AS

Code Change No: **G192-15 Part II**

Original Proposal

Section: [M] 2801.1

Proponent: Edward Kulik, representing Building Code Action Committee (bcac@iccsafe.org)

THIS IS A 3 PART CODE CHANGE PROPOSAL. PART I WAS HEARD BY THE IBC GENERAL COMMITTEE, PART II WAS HEARD BY THE IMC COMMITTEE AND PART III WAS HEARD BY THE IPC/IPSDC COMMITTEE.

Revise as follows:

The provisions of this chapter and the *International Mechanical Code* and the *International Fuel Gas Code* shall govern the design, construction, erection and installation of mechanical appliances, equipment and systems ~~shall be constructed, installed used in buildings and maintained in accordance with the *International Mechanical Code* and the *International Fuel Gas Code* structures covered by this code.~~ Masonry chimneys, fireplaces and barbecues shall comply with the *International Mechanical Code* and Chapter 21 of this code. ~~The *International Fire Code*, the *International Property Maintenance Code*, the *International Mechanical Code* and the *International Fuel Gas Code* shall govern the use and maintenance of mechanical components, appliances, equipment and systems. The *International Existing Building Code*, the *International Mechanical Code* and the *International Fuel Gas Code* shall govern the alteration, repair, relocation, replacement, and addition of mechanical components, appliances, equipment and systems.~~

Reason: This proposal provides consistency in the scoping for the Electrical, Plumbing, and Mechanical chapters. Direction is provided as to what codes govern use and maintenance, and alteration, repair, relocation, replacement and additions for existing electrical, plumbing, and mechanical systems.

This public proposal is submitted by the ICC Building Code Action Committee (BCAC). The BCAC was established by the ICC Board of Directors to pursue opportunities to improve and enhance an assigned International Code or portion thereof. This includes both the technical aspects of the codes as well as the code content in terms of scope and application of referenced standards. Since its inception in July, 2011, the BCAC has held 13 open meetings and numerous workgroup calls which included members of the BCAC as well as any interested party to discuss and debate the proposed changes and the public comments. Related documentation and reports are posted on the BCAC website at: <http://www.iccsafe.org/cs/BCAC/Pages/default.aspx>.

Cost Impact: Will not increase the cost of construction

This proposal will not increase the cost of construction. This proposal may decrease the cost of construction, by providing clarity to the scoping of these chapters.

Public Hearing Results

Committee Action:

Approved as Submitted

Committee Reason: Approval was based on the proponent's published reason statements. It provides a clear connection between the IBC and the IMC and IFGC.

Assembly Action

None

Report of Committee Action Hearings

G192-15 Part II

AS