

**2015 IBC SIGNIFICANT CODE  
CHANGES AND AMENDMENTS**  
COLUMBIA, MISSOURI



## **Our Vision**

Columbia is the best place for everyone to live, work, learn and play.

## **Our Mission**

To serve the public through democratic, transparent and efficient government

## **Our Core Values**

- **Service** - We exist to provide the best possible service to all.
- **Communication** - We listen and respond with clear, compassionate and timely communication.
- **Continuous Improvement** - We value excellence through planning, learning and innovative practices.
- **Integrity** - Our employees are ethical, fair, honest and responsible.
- **Teamwork** - We achieve results by valuing diversity and partnerships within our own organization and the community.
- **Stewardship** - We are responsible with the resources the community entrusts to us.

# THANK YOU BCCC!!!

It has been a long arduous process to review, suggest amendments, and to adopt the 2015 family of ICC Codes. The BCCC has, for years, done an incredible job of amending the codes to fit our community. Please join me in a round of applause for their painstaking efforts.

All but a handful of the BCCC recommendations were approved and adopted by Council and this board has thus successfully tailored the codes to meet City of Columbia needs.



# 2015 INTERNATIONAL BUILDING CODE (IBC)

Most of the IBC code changes in this cycle consist of clarifications and reformatting. These changes focus on ease of compliance and interpretation for the purpose of promoting life safety, public health, protection of property, and energy efficiency of buildings. There were also major code changes with substantial cost implications including required storm shelters for educational (K through 12 schools) and critical emergency operation use groups (911 call stations, fire, rescue, ambulance, and police stations), as well as increased energy efficiency requirements.

We will go through most of the more substantial changes to the 2015 IBC in this presentation and will also review local amendments.

# BUSINESS GROUP B

1. Food processing establishments and commercial kitchens not associated with restaurants, cafeterias and similar dining facilities not more than 2500 square feet in area.
2. Training and skill development not in a school or academic program—this shall include but not be limited to, tutoring centers, martial arts studios, gymnastics and similar uses regardless of the ages served, and where not classified as a Group A occupancy (50 or more occupants).

# BUSINESS GROUP B- FOOD PROCESSING ESTABLISHMENT



# BUSINESS GROUP B- TRAINING AND SKILL DEVELOPMENT



# GROUP I-2 CONDITIONS 1 & 2

## Group I-2 §308.4

- Condition 1 – nursing and medical care, **but not** emergency care, surgery, psychiatric care
- Condition 2 – nursing and medical care **and** emergency care, surgery, or in-patient psychiatric care



Nursing Home

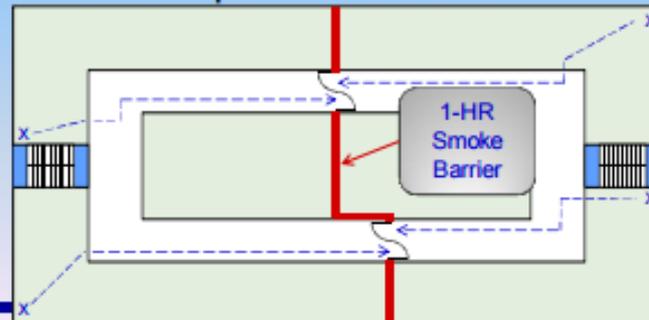


Hospital

# I-2 SMOKE COMPARTMENT SIZING

## Size of Group I-2 Smoke Compartments §407.5

- Smoke compartments required on every story used by  $\geq 50$  persons, or persons receiving care, treatment or sleeping
- Group I-2, Condition 1 – smoke compartments  $\leq 22,500$  ft<sup>2</sup>
- Group I-2, Condition 2 – smoke compartments  $\leq 40,000$  ft<sup>2</sup>
- Travel distance in a smoke compartment to a smoke barrier door  $\leq 200'$



# R-4 CONDITIONS 1 & 2—DETERMINES HEIGHT, # OF STORIES AND AREA

## Group R-4 §310.6

- Condition 1 – **all** persons receiving custodial care are capable of responding to an emergency situation to complete building evacuation without any assistance
- Condition 2 – **any** persons receiving custodial care who require limited verbal or physical assistance while responding to an emergency situation to complete building evacuation



Halfway House



Congregate Care



# STORM SHELTERS

Since 2009 the IBC has referenced ICC 500 to establish minimum requirements for structures and spaces designed as tornado shelters. In the 2009 and 2012 editions of the IBC there are no scoping provisions to enact these technical requirements .

The 2015 IBC now provides scoping provisions that mandate the construction of complying storm shelters in critical emergency operations facilities and most Group E occupancies.



# REQUIRED STORM SHELTERS

**423.3 Critical emergency operations. 911 call stations, emergency operations centers and fire, rescue, ambulance and police stations.**

**Exception: Buildings meeting the requirements for shelter design in ICC 500.**

**423.4 Group E occupancies. All group E occupancies with an occ. load of 50 or more.**

**Exceptions:**

**Group E daycare facilities.**

**Group E occupancies accessory to places of religious worship.**

**Buildings meeting the requirements for shelter design in ICC 500.**

## STORM SHELTER REQUIREMENTS FOR ADDITIONS & ALTERATIONS

The code is not clear about when the requirement for a storm shelter will be triggered for additions and alterations. For instance would we require a storm shelter sized for the occupant load of the whole school if adding a kitchen? On the other hand if a new classroom wing is added to the building the code clearly states (See section 1101 of the International Existing Building Code) the new wing would be required to meet the IBC.

After speaking with an ICC representative it became clear that the authority having Jurisdiction would determine the requirement for constructing a storm shelter for an addition on a case by case basis. An administrative policy has been established to clarify the issue.

## STORM SHELTER REQUIREMENTS FOR ADDITIONS & ALTERATIONS

Our policy will require a storm shelter if an addition adds 25% of existing floor area. The 25% trigger is based upon the ratio of the occupant density of a classroom (20 s.f. /person) vs. the occupant density of a community tornado shelter (5 s.f./person). If the new building increases the floor area of the school by that much, there should be enough square footage to accommodate a storm shelter big enough to house the entire school population.



# ICC 500 REQUIREMENTS

Without getting into too much detail there will be many additional structural, engineering, and procedural requirements for shelters designed in compliance with ICC 500. In addition to the very rigorous structural design criteria there are other extraordinary requirements including, but not limited to the following.

1. Peer review by an independent registered design professional including a signed and sealed report. Section 106.
2. The building owner shall employ a registered design professional to conduct visual observations of the construction of the structural system-provide final report.
3. A quality assurance plan must be prepared and submitted. Section 107.
4. Contractors must submit a written statement of responsibility.
5. Ventilation, sanitation and emergency power including sanitation support systems. (e.g., bladders, storage tanks or vessels, etc.) Section 702
6. The debris impact test missile for all components of the shelter envelope shall be a 15 lb. sawn lumber 2X4 traveling at 100 mph for vertical surfaces and 67 mph for horizontal surfaces



# IFC 3105 TEMPORARY STAGE CANOPIES





# REQUIRED DOCUMENTS STAGE CANOPIES

Temporary stage canopies in excess of 400 square feet shall not be erected, operated or maintained for any purpose without first obtaining approval and a permit from the fire code official and the building code official.

1. Detailed design documents must be prepared by a registered design professional
2. Must include a designation of responsible party.
3. Must have an “operations plan”.
4. The owner must employ a qualified third party agency to inspect the installation.
5. The inspection report must be furnished to the fire code official.



# CHAPTER 5 BUILDING HEIGHT AND AREA

The 2015 IBC now has user friendly tables to determine allowable building height, number of stories and building area.

# TABLE 504.3

**TABLE 504.3<sup>a-d</sup>**  
**ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE PLANE**

| OCCUPANCY CLASSIFICATION | TYPE OF CONSTRUCTION |        |     |         |    |          |    |         |        |    |
|--------------------------|----------------------|--------|-----|---------|----|----------|----|---------|--------|----|
|                          | SEE FOOTNOTES        | TYPE I |     | TYPE II |    | TYPE III |    | TYPE IV | TYPE V |    |
|                          |                      | A      | B   | A       | B  | A        | B  | HT      | A      | B  |
| A, B, E, F, M, S, U      | NS <sup>b</sup>      | UL     | 160 | 65      | 55 | 65       | 55 | 65      | 50     | 40 |
|                          | S                    | UL     | 180 | 85      | 75 | 85       | 75 | 85      | 70     | 60 |
| H-1, H-2, H-3, H-5       | NS <sup>c,d</sup>    | UL     | 160 | 65      | 55 | 65       | 55 | 65      | 50     | 40 |
|                          | S                    |        |     |         |    |          |    |         |        |    |
| H-4                      | NS <sup>c,d</sup>    | UL     | 160 | 65      | 55 | 65       | 55 | 65      | 50     | 40 |
|                          | S                    | UL     | 180 | 85      | 75 | 85       | 75 | 85      | 70     | 60 |
| I-1 Condition 1, I-3     | NS <sup>d,e</sup>    | UL     | 160 | 65      | 55 | 65       | 55 | 65      | 50     | 40 |
|                          | S                    | UL     | 180 | 85      | 75 | 85       | 75 | 85      | 70     | 60 |
| I-1 Condition 2, I-2     | NS <sup>d,f,g</sup>  | UL     | 160 | 65      | 55 | 65       | 55 | 65      | 50     | 40 |
|                          | S                    | UL     | 180 | 85      |    |          |    |         |        |    |
| I-4                      | NS <sup>d,g</sup>    | UL     | 160 | 65      | 55 | 65       | 55 | 65      | 50     | 40 |
|                          | S                    | UL     | 180 | 85      | 75 | 85       | 75 | 85      | 70     | 60 |
| R                        | NS <sup>d,h</sup>    | UL     | 160 | 65      | 55 | 65       | 55 | 65      | 50     | 40 |
|                          | S13R                 | 60     | 60  | 60      | 60 | 60       | 60 | 60      | 60     | 60 |
|                          | S                    | UL     | 180 | 85      | 75 | 85       | 75 | 85      | 70     | 60 |

For SI: 1 foot = 304.8 mm.

**Note:** UL = Unlimited; NS = Buildings not equipped throughout with an automatic sprinkler system; S = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1; S13R = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.2.

**NS = buildings not sprinklered**  
**S = NFPA 13 sprinklered buildings**  
**S13R = NFPA 13R sprinklered buildings**

# TABLE 504.4

TABLE 504.4<sup>a, b</sup>—continued  
ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE

| OCCUPANCY CLASSIFICATION | TYPE OF CONSTRUCTION |        |    |         |   |          |   |         |        |   |   |
|--------------------------|----------------------|--------|----|---------|---|----------|---|---------|--------|---|---|
|                          | SEE FOOTNOTES        | TYPE I |    | TYPE II |   | TYPE III |   | TYPE IV | TYPE V |   |   |
|                          |                      | A      | B  | A       | B | A        | B | HT      | A      | B |   |
| R-1                      | NS <sup>d, h</sup>   | UL     | 11 | 4       | 4 | 4        | 4 | 4       | 4      | 3 | 2 |
|                          | S13R                 | 4      | 4  |         |   |          |   |         |        | 4 | 3 |
|                          | S                    | UL     | 12 | 5       | 5 | 5        | 5 | 5       | 4      | 3 |   |
| R-2                      | NS <sup>d, h</sup>   | UL     | 11 | 4       | 4 | 4        | 4 | 4       | 4      | 3 | 2 |
|                          | S13R                 | 4      | 4  | 4       |   |          |   |         |        | 4 | 3 |
|                          | S                    | UL     | 12 | 5       | 5 | 5        | 5 | 5       | 4      | 3 |   |
| R-3                      | NS <sup>d, h</sup>   | UL     | 11 | 4       | 4 | 4        | 4 | 4       | 4      | 3 | 3 |
|                          | S13R                 | 4      | 4  |         |   |          |   |         |        | 4 | 4 |
|                          | S                    | UL     | 12 | 5       | 5 | 5        | 5 | 5       | 4      | 4 |   |
| R-4                      | NS <sup>d, h</sup>   | UL     | 11 | 4       | 4 | 4        | 4 | 4       | 4      | 3 | 2 |
|                          | S13R                 | 4      | 4  |         |   |          |   |         |        | 4 | 3 |
|                          | S                    | UL     | 12 | 5       | 5 | 5        | 5 | 5       | 4      | 3 |   |
| S-1                      | NS                   | UL     | 11 | 4       | 2 | 3        | 2 | 4       | 3      | 1 |   |
|                          | S                    | UL     | 12 | 5       | 3 | 4        | 3 | 5       | 4      | 2 |   |
| S-2                      | NS                   | UL     | 11 | 5       | 3 | 4        | 3 | 4       | 4      | 2 |   |
|                          | S                    | UL     | 12 | 6       | 4 | 5        | 4 | 5       | 5      | 3 |   |
| U                        | NS                   | UL     | 5  | 4       | 2 | 3        | 2 | 4       | 2      | 1 |   |
|                          | S                    | UL     | 6  | 5       | 3 | 4        | 3 | 5       | 3      | 2 |   |

**Note:** UL = Unlimited; NP = Not Permitted; NS = Buildings not equipped throughout with an automatic sprinkler system; S = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1; S13R = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.2.

**NS = buildings not sprinklered**  
**S = NFPA 13 sprinklered buildings**  
**S13R = NFPA 13R sprinklered buildings**

# TABLE 506.2

**TABLE 506.2<sup>a,b</sup>**  
**ALLOWABLE AREA FACTOR (A, = NS, S1, S13R, or SM, as applicable) IN SQUARE FEET**

| OCCUPANCY CLASSIFICATION | SEE FOOTNOTES   | TYPE OF CONSTRUCTION |        |         |        |          |        |         |        |        |
|--------------------------|-----------------|----------------------|--------|---------|--------|----------|--------|---------|--------|--------|
|                          |                 | TYPE I               |        | TYPE II |        | TYPE III |        | TYPE IV | TYPE V |        |
|                          |                 | A                    | B      | A       | B      | A        | B      | HT      | A      | B      |
| A-1                      | NS              | UL                   | UL     | 15,500  | 8,500  | 14,000   | 8,500  | 15,000  | 11,500 | 5,500  |
|                          | S1              | UL                   | UL     | 62,000  | 34,000 | 56,000   | 34,000 | 60,000  | 46,000 | 22,000 |
|                          | SM              | UL                   | UL     | 46,500  | 25,500 | 42,000   | 25,500 | 45,000  | 34,500 | 16,500 |
| A-2                      | NS              | UL                   | UL     | 15,500  | 9,500  | 14,000   | 9,500  | 15,000  | 11,500 | 6,000  |
|                          | S1              | UL                   | UL     | 62,000  | 38,000 | 56,000   | 38,000 | 60,000  | 46,000 | 24,000 |
|                          | SM              | UL                   | UL     | 46,500  | 28,500 | 42,000   | 28,500 | 45,000  | 34,500 | 18,000 |
| A-3                      | NS              | UL                   | UL     | 15,500  | 9,500  | 14,000   | 9,500  | 15,000  | 11,500 | 6,000  |
|                          | S1              | UL                   | UL     | 62,000  | 38,000 | 56,000   | 38,000 | 60,000  | 46,000 | 24,000 |
|                          | SM              | UL                   | UL     | 46,500  | 28,500 | 42,000   | 28,500 | 45,000  | 34,500 | 18,000 |
| A-4                      | NS              | UL                   | UL     | 15,500  | 9,500  | 14,000   | 9,500  | 15,000  | 11,500 | 6,000  |
|                          | S1              | UL                   | UL     | 62,000  | 38,000 | 56,000   | 38,000 | 60,000  | 46,000 | 24,000 |
|                          | SM              | UL                   | UL     | 46,500  | 28,500 | 42,000   | 28,500 | 45,000  | 34,500 | 18,000 |
| A-5                      | NS              |                      |        |         |        |          |        |         |        |        |
|                          | S1              |                      |        |         |        |          |        |         |        |        |
|                          | SM              | UL                   | UL     | UL      | UL     | UL       | UL     | UL      | UL     | UL     |
| B                        | NS              | UL                   | UL     | 37,500  | 23,000 | 28,500   | 19,000 | 36,000  | 18,000 | 9,000  |
|                          | S1              | UL                   | UL     | 150,000 | 92,000 | 114,000  | 76,000 | 144,000 | 72,000 | 36,000 |
|                          | SM              | UL                   | UL     | 112,500 | 69,000 | 85,500   | 57,000 | 108,000 | 54,000 | 27,000 |
| E                        | NS              | UL                   | UL     | 26,500  | 14,500 | 23,500   | 14,500 | 25,500  | 18,500 | 9,500  |
|                          | S1              | UL                   | UL     | 106,000 | 58,000 | 94,000   | 58,000 | 102,000 | 74,000 | 38,000 |
|                          | SM              | UL                   | UL     | 79,500  | 43,500 | 70,500   | 43,500 | 76,500  | 55,500 | 28,500 |
| F-1                      | NS              | UL                   | UL     | 25,000  | 15,500 | 19,000   | 12,000 | 33,500  | 14,000 | 8,500  |
|                          | S1              | UL                   | UL     | 100,000 | 62,000 | 76,000   | 48,000 | 134,000 | 56,000 | 34,000 |
|                          | SM              | UL                   | UL     | 75,000  | 46,500 | 57,000   | 36,000 | 100,500 | 42,000 | 25,500 |
| F-2                      | NS              | UL                   | UL     | 37,500  | 23,000 | 28,500   | 18,000 | 50,500  | 21,000 | 13,000 |
|                          | S1              | UL                   | UL     | 150,000 | 92,000 | 114,000  | 72,000 | 202,000 | 84,000 | 52,000 |
|                          | SM              | UL                   | UL     | 112,500 | 69,000 | 85,500   | 54,000 | 151,500 | 63,000 | 39,000 |
| H-1                      | NS <sup>c</sup> | 21,000               | 16,500 | 11,000  | 7,000  | 9,500    | 7,000  | 10,500  | 7,500  | NP     |
|                          | S1              |                      |        |         |        |          |        |         |        |        |

NS = buildings not sprinklered  
 S1 = sprinklered 1-story buildings  
 SM = sprinklered multiple-story buildings

# TABLE 601

## 1 HOUR SUBSTITUTION DELETED

### Sprinklers for 1-HR Substitution Table 601, Footnote d

- 2012 allowed fire sprinklers as substitute for 1-HR construction, but prohibited any modifications based on sprinklers
- Footnote deleted which allowed 1-HR substitution
- Sprinkler system is no longer allowed as a substitution for 1-HR construction

| Occupancy Classification | See Footnotes | Type Of Construction (PARTIAL) |    |         |        |          |        |         |        |        |  |
|--------------------------|---------------|--------------------------------|----|---------|--------|----------|--------|---------|--------|--------|--|
|                          |               | Type I                         |    | Type II |        | Type III |        | Type IV | Type V |        |  |
|                          |               | A                              | B  | A       | B      | A        | B      | H1      | A      | B      |  |
| A-2                      | NS            | UL                             | UL | 15,500  | 9,500  | 14,000   | 9,500  | 15,000  | 11,500 | 6,000  |  |
|                          | S1            | UL                             | UL | 62,000  | 38,000 | 56,000   | 38,000 | 60,000  | 46,000 | 24,000 |  |
|                          | SM            | UL                             | UL | 46,500  | 28,500 | 42,000   | 28,500 | 45,000  | 34,500 | 18,000 |  |

**CHANGE TYPE:** Addition

**CHANGE SUMMARY:** An automatic sprinkler system is now required to be installed in a building when the roof is used for a Group A-2 assembly occupancy with an occupant load exceeding 100, as well as for other Group A occupancies where the occupant load exceeds 300.

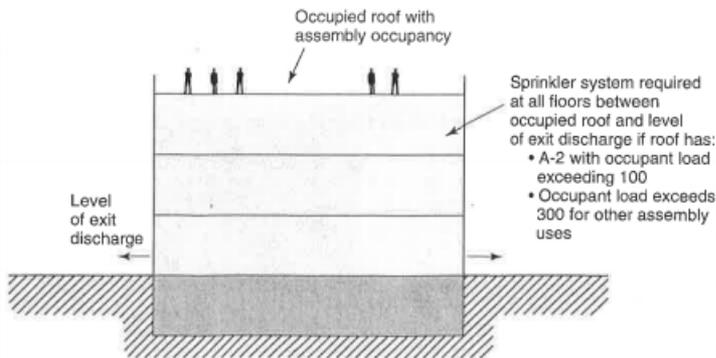
**2015 CODE: 903.2.1.6 Assembly Occupancies on Roofs.** Where an occupied roof has an assembly occupancy with an occupant load exceeding 100 for Group A-2 and 300 for other Group A occupancies, all floors between the occupied roof and the level of exit discharge shall be equipped with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2.

**Exception:** Open parking garages of Type I or Type II construction.

**CHANGE SIGNIFICANCE:** As a general provision, assembly occupancies require the installation of an automatic sprinkler system when the fire area containing the Group A use is “located on a floor other than a level of exit discharge.” Where the assembly use is located on the roof of the building, the stories of the building that the occupants must pass through are also now required to be sprinklered. The new sprinkler requirement applies to buildings where the Group A-2 roof-top occupancy exceeds 100 occupants. For the other Group A occupancy classifications, the provisions are applicable where the occupant load exceeds 300.

Because an occupied roof does not meet the definition for a fire area, the provisions are addressed separately from the other Group A requirements. By requiring the building beneath the assembly occupancy to be sprinklered, the requirement is consistent with other provisions of Section 903.2.1 and protects the occupants from hazards elsewhere in the building. Whether building occupants are located on an upper story or on the roof, they are exposed to a similar hazard as they travel down through the building prior to reaching the level of exit discharge. It should be noted that this provision does not require the roof to be sprinklered or provided with any alternative fire-extinguishing system. The sprinkler protection is mandated only on the floors between the occupied roof and the level of exit discharge.

*903.2.1.6 continues*



Assembly occupancy on roof

## 903.2.1.6

### Sprinkler Systems— Assembly Occupancies

# CHAPTER 17–SPECIAL INSPECTIONS

A new special inspection form details the code sections and whether the inspections are periodic or continuous. The special inspection agents must also be identified.

| SCHEDULE OF SPECIAL INSPECTION SERVICES  |  |     |                                 |         |
|--|--|-----|---------------------------------|---------|
| Per IBC Section 1704 of the 2015 International Building Code the following items require Special Inspections. <b>Special inspectors must be employed by the Owner or registered design professional in responsible charge acting as the owner's agent.</b> |  |     |                                 |         |
| PROJECT ADDRESS  | 123 XYZ  |     | PERMIT NO.                      | XX-XXXX |
| MATERIAL / ACTIVITY  | SERVICE  | Y/N | APPLICABLE TO THIS PROJECT      |         |
|  |  |     | EXTENT                          | AGENT*  |
| <b>1704.2.5 Inspection of Fabricators</b>  |  |     |                                 |         |
| Verify fabrication/quality control procedures  | In-plant review (3)                                |     | Periodic                        |         |
| <b>1705.1.1 Special Cases</b> (work unusual in nature, including but not limited to alternative materials and systems, unusual design applications, materials and systems with special manufacturer's requirements)  | Submittal review, shop (3) and/or field inspection |     |                                 |         |
| <b>1705.2 Steel Construction</b>   |  |     |                                 |         |
| 1. Fabricator and erector documents (Verify reports and certificates as listed in AISC 360, chapter N, paragraph 3.2 for compliance with construction documents)   | Submittal Review                                   |     | Each submittal                  |         |
| 2. Material verification of structural steel   | Shop (3) and field inspection                      |     | Periodic                        |         |
| 3. Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for anchors)  | Field inspection                                   |     | Continuous                      |         |
| 4. Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents   | Field inspection                                   |     | Periodic                        |         |
| 5. Structural steel welding:   |  |     |                                 |         |
| a. Inspection tasks Prior to Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-1)  | Shop (3) and field inspection                      |     | Observe or Perform as noted (4) |         |
| b. Inspection tasks During Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-1)  | Shop (3) and field inspection                      |     | Observe (4)                     |         |
| c. Inspection tasks After Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table   | Shop (3) and field inspection                      |     | Observe or Perform as noted (4) |         |

# GEOTECHNICAL REQUIREMENTS PER AMENDMENT

1803.2 at the end of the first paragraph ADD; A geotechnical investigation is not required for one story buildings 2500 sf or less in risk categories 1 and 2.

1807.2.2 ADD–The geotechnical engineer must state either way if a global stability analysis is required.



# STANDARDS FOR CROSS LAMINATED TIMBER

## Structural Glued Cross-Laminated Timber §2303.1.4

- “A prefabricated engineered wood product consisting of at least three layers of solid-sawn lumber or structural composite lumber where the adjacent layers are cross-oriented and bonded with structural adhesive to form a solid wood element.”
- Referred to as CLT
- ANSI/APA PRG 320-2011



Photo courtesy of FP Innovations

# NEW DEFINITIONS/NAMES

## Engineered Wood Rim Board §2303.1.13

- “A full-depth structural composite lumber, wood structural panel, structural glued laminated timber, or prefabricated wood I-joist member designed to transfer horizontal (shear) and vertical (compression) loads, provide attachment for diaphragm sheathing, siding and exterior deck ledgers, and provide lateral support at the ends of floor or roof joists or rafters.”
- ANSI/APA PRR 410
- ASTM D 7672



Photo courtesy of APA –  
The Engineered Wood Association



2015 IBC Key Changes

33

## Gypsum Panel Products Chapter 25

- “The general name for a family of sheet products consisting essentially of gypsum.”
- Essentially gypsum sheet products that are manufactured unfaced or with a facing other than paper
  - Glass mat-faced
  - Unfaced gypsum sheet materials



Photo courtesy of Gypsum Association



# OTHER MINOR CHANGES

## Plastic Composites §2612

- **Plastic Composite** – A generic designation that refers to wood/plastic composites and plastic lumber.
- **Plastic Lumber** – A manufactured product made primarily of plastic materials (filled or unfilled) which is generally rectangular in cross-section.
- **Wood/Plastic Composite** – A composite material made primarily from wood or cellulose-based materials and plastic.
- Flame spread index  $\leq 200$



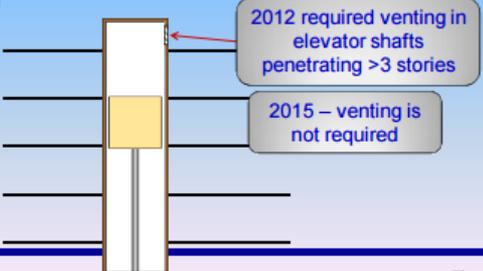
*Photo courtesy of Peter Kulczyk*

Allowed for exterior deck boards, stair treads, handrails and guards in Type VB buildings

2015 IBC Key Changes 35

## Elevator Hoistway Venting §3004

- Requirement for elevator hoistway venting in §3004 has been deleted
- Elevator hoistways are no longer required to be vented to the exterior



2012 required venting in elevator shafts penetrating >3 stories

2015 - venting is not required

2015 IBC Key Changes 36

# IMPORTANT DISTINCTION

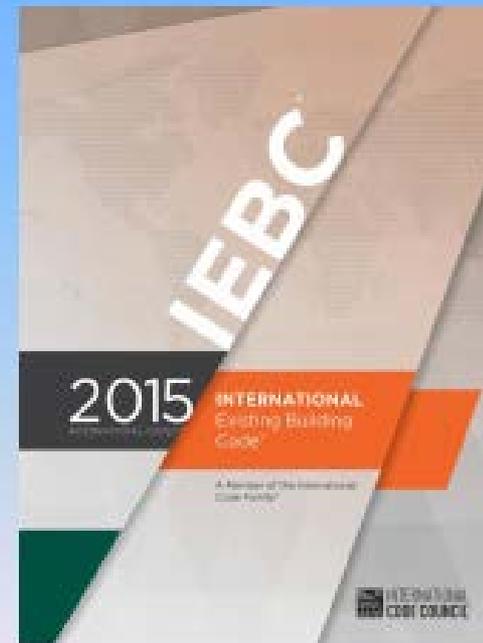
Residential Building. For this code , includes detached one- and two-family dwellings and multiple single family dwellings (townhouses) as well as group R-2, R-3 and R-4 buildings *three stories or less in height above grade plane.*

This means buildings meeting this definition will be required to meet the same residential energy efficiency requirements as dictated in the IRC. This will include duct and air leakage rate testing. The residential energy codes requirement diagram may be used for compliance. Solar ready provisions apply.

# INTERNATIONAL EXISTING BUILDING CODE

## Existing Buildings Chapter 34

- Ch 34 deleted
- §101.4.7 – provisions of the IEBC shall apply
- Repairs, alterations, change of occupancy, additions, relocations



# MAKING COLUMBIA GREAT THROUGH TEAMWORK!

