

Summary of Mass Timber Code Proposals

The three-year ICC process of reviewing the science of mass timber and assessing code requirements has resulted in 14 specific code change proposals for consideration by the ICC governmental voting membership.

The proposals for the International Building Code (IBC) define three new mass timber construction types: Type IV-A, IV-B and IV-C. The code proposals specify fire resistance requirements for mass timber elements and general fire safety provisions. The resulting fire resistance ratings are as robust as comparable concrete and fire-protected steel buildings (Type I). See buildtallbuildsafe.com for more information.

Each code proposal has been approved by:

- ✓ The ICC Ad Hoc Committee on Tall Wood Buildings
- ✓ The ICC Fire Safety, Fire Code Development and General Committees at the ICC Committee Action Hearing, Columbus, OH, April 2018
- ✓ The ICC Governmental Voting Members at the ICC Public Comments Hearings, Richmond, VA, Oct. 2018



We recommend that decisions of these ICC Committees be sustained by approving the IBC and IFC code change proposals during cdpACCESS voting from November 19 to December 10.

| CODE CHANGE | SUMMARY | ICC Committee Action Hearing | ICC Public Comments Hearing | Recommended Government Online Consensus Vote(cdpACCESS) |
|-------------|---|------------------------------|--------------------------------------|---|
| G108-18 | Details Type IV-A, IV-B and IV-C mass timber construction; specifies required interior and exterior non-combustible protection and fire resistance ratings for walls, floors and roofs; specifies protection of concealed spaces and shafts; prohibits use of light frame combustible construction. | Approved as Modified | Upheld | ✓ Approve as Modified |
| G89-18 | Details requirements for mass timber elements, including non-combustible protection, serving as fire barriers or horizontal assemblies to separate occupancies. | Approved as Modified | Upheld | ✓ Approve as Modified |
| FS81-18 | Establishes the required contribution time of non-combustible protection for mass timber elements. | Approved as Modified | Upheld | ✓ Approve as Modified |
| FS5-18 | Specifies how ASTM E 119 tests are to be used to establish the contribution of non-combustible protection to the fire resistance rating of mass timber. | Approved as Submitted | Upheld | ✓ Approve as Submitted |
| FS6-18 | Requires sealant at the abutting edges and intersections between rated mass timber elements and between elements of mass timber and other materials in all new Type IV construction types. | Approved as Submitted | Approved as Modified by PC1 | ✓ Approve as Modified by PC1 |
| FS73-18 | Specifies that code-compliant mass timber is a suitable fireblocking material. | Approved as Submitted | Upheld | ✓ Approve as Submitted |
| G28-18 | Requires Type IV buildings over 120 feet above grade to have redundant water supply for automatic fire suppression systems. | Approved as Submitted | Upheld | ✓ Approve as Submitted |
| F266-18 | Details fire safety requirements for mass timber buildings while they are under construction. | Approved as Modified | Approved as Further Modified by PC-1 | ✓ Approve as Modified by PC1 |
| G75-18 | Specifies the allowable building heights for Type IV-A, IV-B and IV-C mass timber structures. | Approved as Modified | Upheld | ✓ Approve as Modified |
| G80-18 | Specifies the allowable number of stories for Type IV-A, IV-B and IV-C mass timber structures. | Approved as Submitted | Upheld | ✓ Approve as Submitted |
| G84-18 | Specifies the allowable building area for Type IV-A, IV-B and IV-C mass timber structures. | Approved as Submitted | Upheld | ✓ Approve as Submitted |

Note: F88-18, G146-18 and G152-18 were approved on the Consent Agenda.

