

Building Stronger Communities with Sustainable Mass Timber Technologies

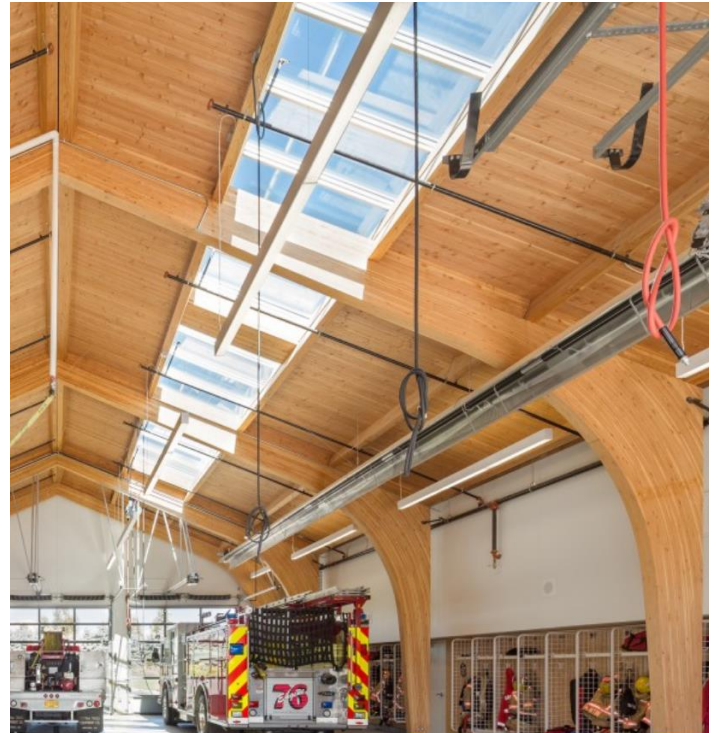
Expanding the safe use of mass timber in tall wood buildings through the code adoption process

Mass Timber Overview

In 2018, the International Code Council (ICC) will consider amendments to the International Building Code (IBC) to expand the use of mass timber for tall wood buildings up to 18 stories from six today.

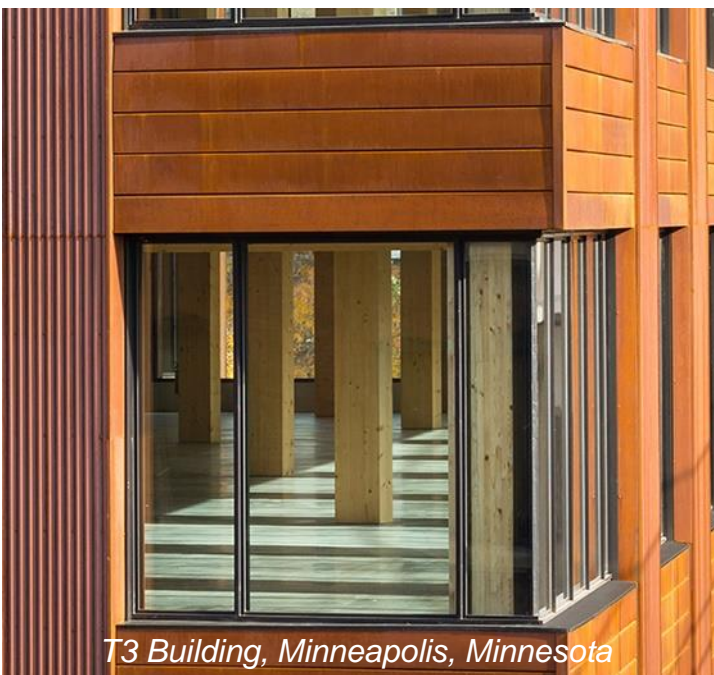
Benefits Are Consistent With Public Policies:

- Promotes rural economic development and expands the market for wood products
- Provides a low-carbon alternative to building with steel and concrete
- Promotes resiliency because it is safe, strong, durable, and resists fire naturally
- Reduces construction costs through ease of installation and speed of construction, with minimal waste
- Is a beautiful, renewable and recyclable building material
- Can be sourced locally and sustainably



Fire Station 76, Gresham, Oregon

Model building codes are developed by the International Code Council (ICC)



T3 Building, Minneapolis, Minnesota

Only qualified government agencies that are members of the ICC can vote on the content of draft codes.

Qualified government agencies are “*governmental units, departments or agencies engaged in the administration, formulation, implementation or enforcement of laws, ordinances, rules or regulations relating to the public health, safety and welfare.*”

Bylaws for the International Code Council

ICC governmental member vote through designated voting representatives.



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The ICC Ad Hoc Committee on Tall Wood Buildings

The ICC Board created an ad hoc committee to explore the building science of tall wood buildings and investigate the feasibility of, and take action on, developing code changes for tall wood buildings. The committee’s scope was to investigate mass timber buildings taller than what is currently allowed by code (6 stories).

The committee reviewed available information on the design, construction, occupancy and use of tall wood buildings. The investigation focused solely on mass timber products and the requisite technical justification to support the code development process.

The Committee excluded from discussion light frame wood construction, and preserved the requirements for Heavy Timber construction in their present form in the I-Codes.

The Committee collected information from a variety of sources, including industry experts, current investigations, fire tests, and previous studies, in order to assess the fire performance and structural capabilities of tall wood buildings. The committee had input from the U.S. Forest Service; the Forest Products Laboratory led the fire testing.

Multiple code change proposals were developed and submitted for consideration by the ICC on January 11, 2018.

ICC Governmental Member Voting Representatives

“Each Governmental Member shall exercise its right to vote through its designated Governmental Member Voting Representatives, and shall be entitled to the number of Governmental Member Voting Representatives as specified in Table 2.1.1.1.”

Table 2.1.1.1	
Population	Voting Representatives
0 to 50,000	4
50,001 to 150,000	8
Over 150,000	12

All State and Federal agencies = 12 votes per unit or department

“Governmental Member Voting Representatives shall be designated in writing, by the Governmental Member, and shall be employees or officials of the Governmental Member or departments of the Governmental Member, provided that each of the designated voting representatives shall be an employee or a public official actively engaged either full or part time, in the administration, formulation, implementation or enforcement of laws, ordinances, rules or regulations relating to the public health, safety and welfare.”

Code adoption schedule

Group A Code Development Schedule	
Amendment language due	January 11, 2018
Proposed changes become public online (ICC website)	February 28
Registration deadline for Government Agencies	March 16
Committee Action Hearings	April 15-25, 2018
Online Assembly Motion Vote	May 10-25, 2018
Report of the Committee Action Hearing becomes public online	May 30, 2018
Deadline for online receipt of public comments	July 16, 2018
Public Comment Agenda posted	August 31, 2018
Deadline to Designate GMVRs	September 23
Public Comment Hearing	October 24-31
Online Governmental Consensus Vote	Week of November 12 or 19

How to Register to participate in the ICC process

Registering as an ICC member to participate in this process is simple and can be done via the ICC’s website at: <https://www.iccsafe.org>

Under ICC Home, look for the Membership tab, which has a drop-down menu for “Join ICC”

Select “Government” and select the appropriate drop-down options for the size of your government until by the number of constituents it represents.

Select “Apply” and then select the appropriate population category, duration of membership, whether you want a complementary set of code books and proceed to checkout.

Voting limitation: 1 person = 1 vote

Population	Government Member Dues*
0 to 50,000	\$135/year
50,001 to 150,000	\$240/year
Over 150,000	\$370/year

*Dues are per Gov’t unit not per voter representative.



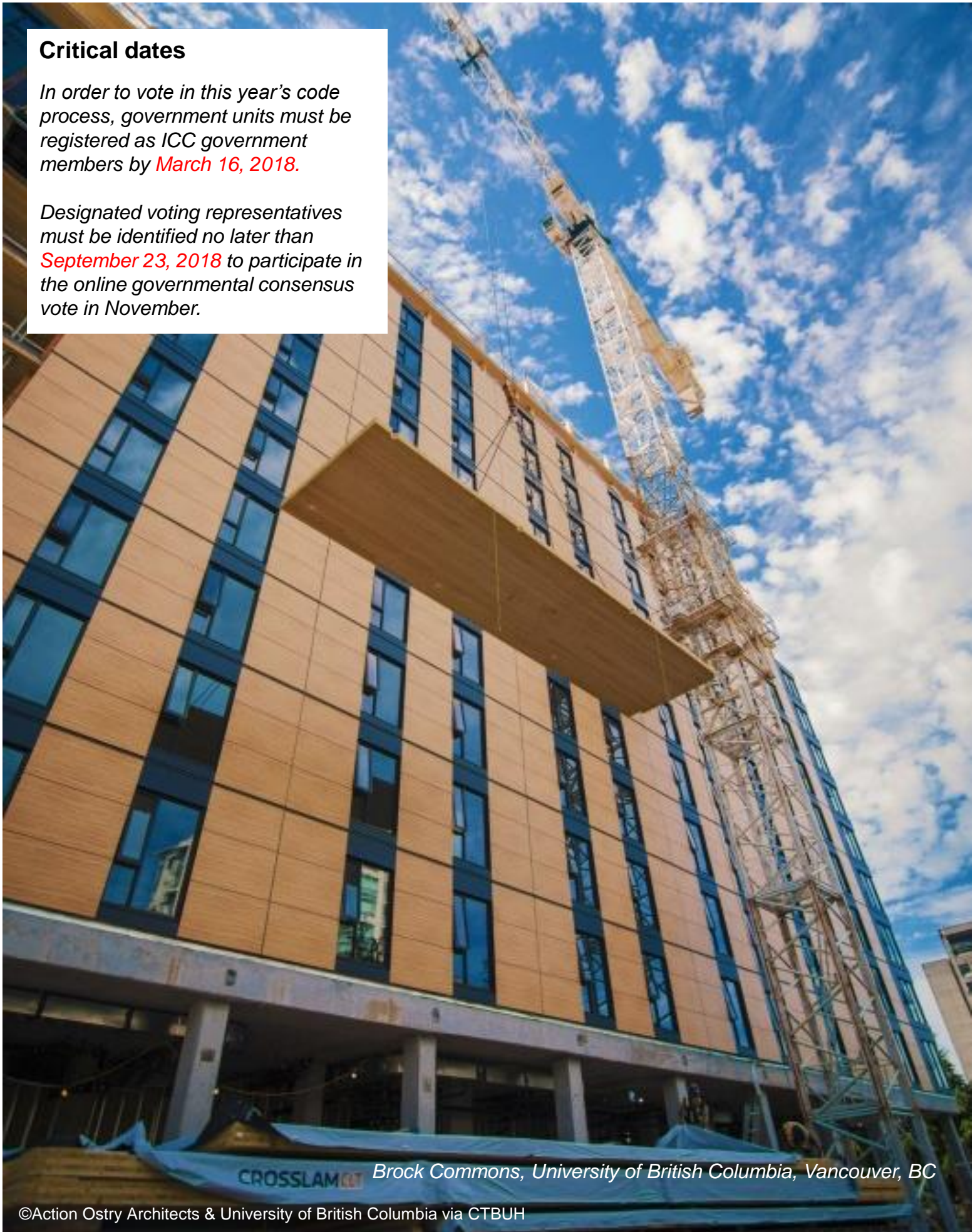
What is Mass(ive) Timber?

“Mass timber” is a pre-fabricated wood product consisting of not less than three layers of solid-sawn lumber or structural composite lumber where adjacent layers are cross-oriented and bonded with structural adhesives to form a solid wood element.” (2015 International Building Code). These solid wall panels are used for wood, floor, and roof construction.

Critical dates

*In order to vote in this year's code process, government units must be registered as ICC government members by **March 16, 2018**.*

*Designated voting representatives must be identified no later than **September 23, 2018** to participate in the online governmental consensus vote in November.*



Brock Commons, University of British Columbia, Vancouver, BC