Wisconsin Department of Safety and Professional Services Division of Policy Development 4822 Madison Yards Way PO Box 8366 Madison, WI 53705



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Tony Evers, Governor Dawn Crim, Secretary

VIRTUAL/TELECONFERENCE MASS TIMBER TASK FORCE

4822 Madison Yards Way, Virtual, Madison Contact: Brad Wojciechowski (608) 266-2112 December 3, 2021

The following agenda describes the issues that the Task Force plans to consider at the meeting. At the time of the meeting, items may be removed from the agenda. Please consult the meeting minutes for a record of the actions of the Task Force.

AGENDA

10:00 A.M.

OPEN SESSION - CALL TO ORDER - ROLL CALL

- A. Adoption of Agenda (1-2)
- B. Approval of Minutes of November 3, 2021 (3-4)
- C. Reminders: Scheduling Concerns
 - 1) Attendance Conflicts Impacting December 3, 2021 Meeting
 - 2) Attendance Inquiry for January 2022 Meeting
- D. Administrative Matters Discussion and Consideration
 - 1) Department and Staff Updates
- E. Administrative Rules Matters Discussion and Consideration (5-11)
 - 1) Review of Proposed Changes to IBC (SPS 362) Chapters 5, 6, 7 Relative to Mass Timber
- F. Alternative Procedures for Design of Mass Timber Tall Buildings Discussion and Consideration (12-13)
 - Developing Table of Contents for Alternative Procedures for Mass Timber Guidebook
 - 2) Relating Mass Timber to Other Alternative Building Procedures
- G. Public Comments

ADJOURNMENT

MEETINGS AND HEARINGS ARE OPEN TO THE PUBLIC, AND MAY BE CANCELLED WITHOUT NOTICE.

Times listed for meeting items are approximate and depend on the length of discussion and voting. All meetings are held at 4822 Madison Yards Way, Madison, Wisconsin, unless otherwise noted. In order to confirm a meeting or to request a complete copy of the board's agenda, please call the listed contact person. The board may also consider materials or items filed after the transmission of this notice. Times listed for the commencement of disciplinary

hearings may be changed by the examiner for the convenience of the parties. Requests for interpreters for the deaf or hard of hearing, or other accommodations, are considered upon request by contacting the Affirmative Action Officer, 608-266-2112, or the Meeting Staff at 608-266-5439.

VIRTUAL/TELECONFERENCE MASS TIMBER TASK FORCE MEETING MINUTES NOVEMBER 3, 2021

PRESENT: Justin Gavin, Laura Hasburgh (arrived at 9:03 a.m.), Michael Mazmanian,

Richard Paur, Erich Roden, Alexander Timmer

EXCUSED: John Peronto

STAFF: Brad Wojciechowski, Executive Director; Jon Derenne, Legal Counsel; Branden

Piper, Administrator, Division of Industry Services; Garry Krause, Bureau Director, Safety and Buildings; Erik Hansen, Consultant, Building Systems-Senior; Kimberly Lee, Consultant, Building Systems-Senior; Jason Hansen, Consultant, Building Systems-Adv; Megan Glaeser, Bureau Assistant; and other

Department Staff

CALL TO ORDER

Richard Paur, Chairperson, called the meeting to order at 9:01 a.m. A quorum was confirmed with five (5) members present.

ADOPTION OF AGENDA

MOTION: Alexander Timmer moved, seconded by Erich Roden, to adopt the Agenda

as published. Motion carried unanimously.

(Laura Hasburgh arrived at 9:03 a.m.)

APPROVAL OF MINUTES OF OCTOBER 5, 2021

MOTION: Erich Roden moved, seconded by Michael Mazmanian, to approve the

Minutes of October 5, 2021 as published. Motion carried unanimously.

ADMINISTRATIVE RULE MATTERS

SPS 361-366 as it Relates to Mass Timber Construction

MOTION: Alexander Timmer moved, seconded by Laura Hasburgh, to recommend

the Commercial Building Code Council adopt the Mass Timber aspects of the 2021 International Building Code as presented by DIS staff, with the following exceptions which will require further discussion: Chapters 5, 6,

7. Motion carried unanimously.

ADJOURNMENT

MOTION: Michael Mazmanian moved, seconded by Erich Roden, to adjourn the

meeting. Motion carried unanimously.

Mass Timber Task Force Meeting Minutes November 3, 2021 Page 1 of 2 The meeting adjourned at 11:13 a.m.



Wisconsin Department of Safety and Professional Services

DRAFT – SUBJECT TO CHANGE

Review of Proposed Changes to IBC (SPS 362) Chapters 5, 6 and 7 Relative to Mass Timber

Draft for Task Force Meeting December 3, 2021

2021 INTERNATIONAL BUILDING CODE – IBC (SPS 362)

CHAPTERS 5, 6 AND 7

NO.	IBC/SPS	ISSUE/REASON FOR CHANGE	PROPOSED BY	EXISTING LANGUAGE/PROPOSED CHANGE	POTENTIAL IMPACT/COST	COMMENTS/STATUS
	CHAPTER 2	CLARIFICATION	ICC/DIS	 IBC 202 - DEFINITIONS DEFINITIONS FOR MASS TIMBER INCORPORATES IV-HT (HEAVY TIMBER), IV-A, IV-B, IV-C (VARYING DEGREES OF FIRE RESISTANCE RATING FOR BUILDING ELEMENTS). 	MINIMAL	APPROVED BY TASK FORCE 11/3/2021
	CHAPTER 4	ADDITIONS	ICC/DIS	IBC 403.2 - SPECIAL DETAILED REQUIREMENTS BASED ON OCCUPANCY AND USE • WATER SUPPLY TO FIRE PUMPS FOR BUILDINGS OF MASS TIMBER CONSTRUCTION HIGHER THAN 120'. 1. EXTENDS REQUIREMENT OF WATER SUPPLY TO FIRE PUMPS (IF REQUIRED) BE CONNECTED TO NOT LESS THAN 2 MAINS LOCATED IN DIFFERENT STREETS FOR TYPE IV-A AND IV-B.	SIGNIFICANT	APPROVED BY TASK FORCE 11/3/2021

CHAPTER 5	ADDITIONS/ CHANGES	ICC/DIS	 IBC 504.3, 504.4, 506.2 - GENERAL BUILDING HEIGHTS AND AREA BUILDING HEIGHTS, NUMBER OF STORIES AND ALLOWABLE AREA TO ADDRESS MASS TIMBER CONSTRUCTION TYPES IV-A, IV-B AND IV-C. — SEE ATTACHED TABLES 504.3, 504.4 AND 506.2. FIRE SEPARATION/THERMAL BARRIER OF MASS TIMBER CONSTRUCTION ADDRESSED. REQUIRES A THERMAL BARRIER FOR ANY REQUIRED INCIDENTAL USE AND OCCUPANCY SEPARATION (FIRE BARRIER OR HORIZONTAL ASSEMBLY). ONLY APPLIES TO IV-B AND IV-C (IV-A INHERENTLY PROTECTED). SEE ALSO: ICC SIGNIFICANT CHANGES TO THE 2021 IBC TABLE 504.4.	SIGNIFICANT	ADDITIONAL DISCUSSION BY TASK FORCE

CHANGES ICC/DIS ICC	IBC 601, 602.4 - TYPES OF CONSTRUCTION PROVISIONS FOR MASS TIMBER CONSTRUCTION ADDED TO TABLE 601. NOTE CORRELATION BETWEEN NEW TYPES IV-A, IV-B, AND IV-C WITH EXISTING TYPES I-A AND I-B. FIRE RATING OF THE MASS TIMBER MEMBER, OR THE RATING OF THE NONCOMBUSTIBLE PROTECTION APPLIED DIRECTLY TO THE MASS TIMBER MEMBER, OR COMBINATION OF BOTH USED TO DETERMINE COMPLIANCE FOR TYPE IV-A, IV-B AND IV-C. FRTW STILL ACCEPTABLE FOR FRAMING AND SHEATHING WITHIN EXTERIOR WALLS IN TYPE IV-HT. PROVISIONS FOR PROTECTION OF CONCEALED SPACES IN ALL TYPE IV CONSTRUCTION. PROVISIONS FOR ENCLOSURE OF INTERIOR EXIT STAIRWAYS AND
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CHAPTER 7	CHANGES/ ADDITIONS	ICC/DIS	 IBC 703.6, 704.6, 722.7 - FIRE AND SMOKE PROTECTION FEATURES PRESCRIPTIVE AND PERFORMANCE BASED DETERMINATION OF NONCOMBUSTIBLE PROTECTION TO MASS TIMBER ELEMENTS REQUIRED PER 722.7 AND 703.6. REQUIREMENTS FOR SEALING JOINTS OF INTERSECTING ELEMENTS TO LIMIT TRANSMISSION OF FIRE, SMOKE AND HOT GASSES. RELOCATION OF TABLE 602 TO 705.5 AND INCLUSION OF MASS TIMBER CONSTRUCTION TYPE. MASS TIMBER PRESCRIPTIVE FIRE RESISTANCE PROVISIONS. NONCOMBUSTIBLE PROTECTION MUST ACCOUNT FOR 2/3 OF REQUIRED RATING. 	SIGNIFICANT	

CHAPTER 17	ADDITION/ MODIFICATION	ICC/DIS	SPECIAL INSPECTION REQUIREMENTS FOR MASS TIMBER ANCHORAGE AND CONNECTIONS SIMILAR TO OTHER PREFABRICATED SYSTEMS INCLUDING MASS TIMBER TO DEEP FOUNDATIONS (INVOLVING TIMBER PILES), ERECTION VERIFICATION, SPECIALIZED CONNECTIONS, ADHESIVE ANCHORS, OTHER UNUSUAL CONNECTIONS OR ASSEMBLIES AS DETERMINED NECESSARY BY THE BUILDING OFFICIAL.	MODERATE	APPROVED BY TASK FORCE 11/3/2021

	CHAPTER 23	ADDITION/ MODIFICATION	ICC/DIS	 WOOD TESTING OPTION AND CALCULATION OPTION PROVIDED FOR MASS TIMBER CONNECTING ELEMENTS REQUIRED TO HAVE A PRESCRIBED FIRE RESISTANCE RATING. SPECIFICS OF APPLICATION TO CONNECTIONS THAT ARE A PART OF A TESTED ASSEMBLY BUT NOT TESTED AS AN INDIVIDUAL ELEMENT. OPTIONS FOR ENGINEERED ANALYSIS OF CONNECTIONS (COMPLETELY EMBEDDED OR COVERED). IMPORTANCE OF CHAR CONTRACTION AND INCORPORATING INTO CONNECTION ANALYSIS IDENTIFIED. 	MINIMAL	APPROVED BY TASK FORCE 11/3/2021
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State of Wisconsin Department of Safety & Professional Services

AGENDA REQUEST FORM

1) Name and title of pers	son submitting the request:	2) Date when reque	2) Date when request submitted:							
Brad Wojciechowski		November 24, 2021	November 24, 2021							
- 		Items will be consid	Items will be considered late if submitted after 12:00 p.m. on the							
3) Name of Board Com	mittee, Council, Sections:	deadline date which	h is 8 business days before the meeting							
•										
Choose an item.	Mass Timber	C) Have abouted the store he tit	llad on the enough mans?							
4) Meeting Date:	5) Attachments:	6) How should the item be titled on the agenda page? Alternative Procedures for Design of Mass Timber Tall Buildings – Discussion and Consideration 1) Developing Table of Contents for Alternative Procedures for Mass Timber Guidebook								
December 3, 2021	⊠ Yes □ No									
		Building Pro	ass Timber to Other Alternative							
		Building 11	occuros							
7) Place Item in:	8) Is an appearan	ce before the Board being	9) Name of Case Advisor(s), if applicable:							
□ Open Session □ Op		s, please complete <u>est</u> for Non-DSPS Staff)	<click a="" add="" advisor="" case="" here="" n="" name="" or="" to=""></click>							
☐ Closed Session	☐ Yes <appea< td=""><td>rance Name(s)></td><td></td></appea<>	rance Name(s)>								
	⊠ No	· ,								
10) Describe the issue and action that should be addressed:										
Continued discussion of	Continued discussion of Table of Contents for Mass Timber Guidebook based on the 2005 Los Angeles Tall Buildings Structural									
Design Council. https://v	www.latallbuildings.org/doc	uments								
11)	,	Authorization								
73 / N/11	November 24, 2021									
			November 24, 2021							
Signature of person mal	king this request		Date							
Supervisor (Only require	ed for post agenda deadline	items)	Date							
Executive Director signa	ature (Indicates approval for	post agenda deadline items)	Date							
Directions for including supporting documents: 1. This form should be saved with any other documents submitted to the <u>Agenda Items</u> folders. 2. Post Agenda Deadline items must be authorized by a Supervisor and the Policy Development Executive Director.										

3. If necessary, provide original documents needing Board Chairperson signature to the Bureau Assistant prior to the start of a

meeting.

WISCONSIN TALL MASS TIMBER GUIDE -TABLE OF CONTENT - DRAFT

- 1. Intent, scope and justification
 - a. Intent
 - b. Scope
 - c. Justification
- 2. Analysis and design
 - a. Fire rating requirements
 - b. Fire consultant
 - c. Fire rating documentation and justification
 - d. Peer review
 - i. Qualifications and selection
 - ii. Peer review scope
- 3. Construction
 - a. Gypsum detailing requirements
 - b. Mass timber special inspections