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IBC/MR 1305 Chapter 16 - Structural Design																
13-B16	IBC	16	1602.1	1602.1	1602.1	Notations		Changes in 2021 and 2024 E, L, Pg(asd), Pg, V, V _r .	L	L						Table 5/2. Discussed 5/16-Tabled.
16-B16	IBC	16	Table 1604.3	Table 1604.3	Table 1604.3	Deflection Limits		2024, added footnote j, snow load can be taken at .7 design snow for deflection limits.	M	L						Table 5/2. Discussed 5/16-Tabled.
72-B16	IBC	16	1608.2; Figures 1608.2(1) - 1608.2(4)		1608.2; MR 1305.1608.2	Ground Snow Loads	Y	Subsection revised 2024. Figures revised. MN amendment does not reference Figures. Changing reference for loading to ASCE 7 Hazard Tool https://asce7hazardtool.online/ .	H		Coordinate with 1303 and 1309.					Table 5/2. Discussed 5/16-Tabled.
IBC/MR 1305 Chapter 18 - Soils and Foundations																
177-B19	IBC	19			1305.1904.3	Corrosion Protection	Y	Amendment adds subsection. 1904.3 Corrosion protection. Where bonded reinforcing and prestressing steel is located in concrete assigned to Exposure Class F3 or Exposure Class C2, the steel shall be protected from corrosion by one of the following methods: 1. Impermeable barrier. 2. Epoxy coating in accordance with ACI 318. 3. Hot dipped galvanizing in accordance with ACI 318.								Tabled 6/6/24 MO to research ACI 318-19.

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180-B19	IBC	19	Section 1907	Section 1907	Section 1907	Minimum-Slab Provisions-Slabs-on-Ground		<p><i>New language in 2024. 1907.1 Structural slabs-on-ground. Structural concrete slabs-on-ground shall comply with all applicable provisions of this chapter. Slabs-on-ground shall be considered structural concrete where required by ACI 318 or where designed to transmit either of the following:</i></p> <ol style="list-style-type: none"> <i>Vertical loads or lateral forces from other parts of the structure to the soil.</i> <i>Vertical loads or lateral forces from other parts of the structure to foundations.</i> <p><i>1907.2 Nonstructural slabs-on-ground. Nonstructural slabs-on-ground shall be required to comply with Sections 1904.2, 1907.3 and 1907.4. Portions of the nonstructural slabs-on-ground used to resist uplift forces or overturning shall be designed in accordance with accepted engineering practice throughout the entire portion designated as dead load to resist uplift forces or overturning.</i></p> <p><i>1907.3 Thickness. The thickness of concrete floor slabs supported directly on the ground shall be not less than 3 1/2 inches.</i></p> <p><i>1907.4 Vapor retarder. The thickness of concrete floor slabs supported directly on the ground shall be not less than 3 1/2 inches. A 6-mil polyethylene vapor retarder with joints lapped not less than 6 inches (152 mm) shall be placed between the base course or subgrade and the concrete floor slab, or other approved equivalent methods or materials shall be used to retard vapor transmission through the floor slab.</i></p> <p><i>Exception: A vapor retarder is not required:</i></p> <ol style="list-style-type: none"> <i>For detached structures accessory to occupancies in Group R-3, such as garages, utility buildings or other unheated facilities .</i> <i>For unheated storage rooms having an area of less than 70 square feet (6.5 m2) and carports attached to occupancies in Group R-3.</i> <i>For buildings of other occupancies where migration of moisture through the slab from below will not be detrimental to the intended occupancy of the building .</i> <i>For driveways, walks, patios and other flatwork that will not be enclosed at a later date.</i> <i>Where approved based on local site conditions.</i> 								
181-B19	IBC	19	Section 1908	Section 1908	Section 1908	Shotcrete		Entire section deleted in 2021 except: Shotcrete <i>shall be in accordance with the requirements of ACI 318.</i>								

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IBC/MR 1305 Chapter 21 - Masonry																
182 - B21	IBC	21	2102.1	2102.1	2102.1	Notations		Change in 2024. <i>fs = Computed stress in reinforcement due to design loads, psi (MPa).</i> <i>f' AAC = Specified compressive strength of AAC masonry, the minimum compressive strength for a class of AAC masonry as specified in TMS 602, psi (MPa).</i> <i>f' m = Specified compressive strength of masonry at age of 28 days, psi (MPa).</i> <i>f' mi = Specified compressive strength of masonry at the time of prestress transfer, psi (MPa).</i> <i>K = The lesser of the masonry cover, clear spacing between adjacent reinforcement, or five times db, inches (mm).</i>								
183 - B21	IBC	21	2103.2.4	2103.2.4	2103.2.4	Mortar for Adhered Masonry Veneer		Changed in 2024. <i>Mortar for use with adhered masonry veneer shall conform to Section 13.3 of TMS 402. - ASTM C270 for Type N or S, or shall comply with ANSI A118.4 for latex-modified Portland cement mortar.</i>								
184 - B21	IBC	21	Section 2109	Section 2109	Section 2109	Empirical Design of Adobe Masonry		Revisions 2021 and deleted Equation 21-2 in 2024.								
IBC/MR 1305 Chapter 22 - Steel																
185-B22	IBC	22	2201.2; 2201.3; 2201.4; 2201.5		2201.1	Steel, General, Scope		New sections added in 2024. <i>2201.2 Identification. Identification of steel members shall be in accordance with the applicable referenced standards within this chapter. Other steel furnished for structural load-carrying purposes shall be identified for conformity to the ordered grade in accordance with the specified ASTM standard or other specification and the provisions of this chapter. Where the steel grade is not readily identifiable from marking and test records, the steel shall be tested to verify conformity to such standards.</i> <i>2201.3 Protection. The protection of steel members shall be in accordance with the applicable referenced standards within this chapter.</i> <i>2201.4 Connections. The design and installation of steel connections shall be in accordance with the applicable referenced standards within this chapter. For special inspection of welding or installation of high-strength bolts, see Section 1705.2.</i> <i>2201.5 Anchor rods. Anchor rods shall be set in accordance with the approved construction documents. The protrusion of the threaded ends through the connected material shall fully engage the threads of the nuts, but shall not be greater than the length of the threaded portion of the bolts.</i>								
186-B22	IBC	22	Deleted		Section 2202; 2202.1;Section 2203; Section 2204	Identification of Steel for Structural Purposes; Protection of Steel for Structural Purposes; Connections		Sections deleted in 2024. Renumbering of subsequent sections.								
187-B22	IBC	22	Section 2202		2205	Structural Steel and Composite Structural Steel and Concrete		Change in 2024. Combines 2205 and 2206. Adds 'composite structural steel and concrete elements' in accordance with AISC 360. Everything else is seismic.								
188-B22	IBC	22	Section 2203			Structural Stainless Steel		New section in 2024. <i>The design, manufacture and erection of austenitic and duplex structural stainless steel shall be in accordance with AISC 370.</i>								
189-B22	IBC	22	Section 2204		2210	Cold-Formed Steel		Change in 2024. <i>The design of cold-formed carbon and low-alloy steel structural members not covered in Sections 2206 through 2209 shall be in accordance with AISI S100. The design of cold-formed steel diaphragms shall be in accordance with additional provisions of AISI S310 as applicable.</i> Remainder is seismic.								

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190-B22	IBC	22	Section 2205			Cold-Formed Stainless Steel		New section in 2024. Design with ASCE 8.								
191-B22	IBC	22	2206.3			Cold-Formed Steel Light-Frame Construction, Cutting and Notching		Section renumbered 2024 (was 2211). Cutting and Notching new 2024. Structural members per AISI S240, non-structural per AISI S220.								
192-B22	IBC	22	Section 2207			Steel Joists		Changes in 2024 to most subsections. Use SJI 100 or SJI 200.								
193-B22	IBC	22	2208.1		2210.1.1	Steel Deck (Cold-Formed)		Steel Deck new section 2024 (was a subsection of Cold-Formed Steel). Floor, roof and composite concrete and steel design per SDI SD. Diaphragms per AISI S310.								
194-B22	IBC	22	2209.1		2209.1	Steel Storage Racks		Change in 2024. Language rearranged - no substantive Change.								
195-B22	IBC	22	2210			Metal Building Systems		New section in 2024. References applicable structural steel design code sections for components.								
196-B22	IBC	22	2211			Industrial Boltless Steel Shelving		New in section 2024. <i>The design, testing and utilization of industrial boltless steel shelving shall be in accordance with MHI ANSI/MH 28.2.</i>								
197-B22	IBC	22	2212			Industrial Steel Work Platforms		New section 2024. <i>The design, testing and utilization of industrial steel work platforms shall be in accordance with MHI ANSI/MH 28.3.</i>								
198-B22	IBC	22	2213			Stairs, Ladders, and Guarding for Steel Storage Racks and Industrial Steel Work Platforms.		New section 2024. <i>The design and installation of stairs, ladders and guarding serving steel storage racks and industrial steel work platforms shall be in accordance with MHI ANSI/MH 32.1.</i>								
IBC/MR 1305 Chapter 23 - Wood																
199-B23	IBC	23	2301.2		2301.2	Dimensions		Change subsection title 2024. Adds cross-laminated timber, dims are actual.								
200-B23	IBC	23	2303.1; 2303.1.4	2303.1; 2303.1.4	2303.1; 2303.1.4	Cross-Laminated Timber		2303.1 add cross-laminated timber. 2303.1.4 change title 2024.								
201-B23	IBC	23	2303.2.6 and subsections	2303.2.5	2303.2.5	Fire-Retardant Treated Wood, Design Values		Multiple language rearrangements in 2024.								
202-B23	IBC	23	2303.2.6.3			Fire -Retardant Treated Laminated Veneer Lumber.		<i>New section 2024. 2303.2.6.3 Fire-retardant-treated laminated veneer lumber. The effect of treatment and redrying after treatment and any treatment-based effects due to exposure to high temperatures and high humidities on the allowable design properties of fire-retardant treated laminated veneer lumber shall be determined in accordance with ASTM D8223. Each manufacturer shall publish reference design values and treatment-based design value adjustment factors in accordance with ASTM D8223, taking into account the climatological location.</i>								
203-B23	IBC	23	2303.4.1.2; Figures 2303.4.1.2(1-5)	2303.4.1.2	2303.4.1.2	Trusses, Permanent Individual Truss Member Restraint		Change in 2021. See code text and figures. https://codes.iccsafe.org/content/IBC2021P2/chapter-23-wood#IBC2021P2_Ch23_Sec2303								
204-B23	IBC	23	2304.1.3	2304.1.3	2304.1.3	Trusses Spanning 60 Feet or Greater		Change in 2021. Adds <i>and diagonal</i> bracing.								
205-B23	IBC	23	2303.7	2303.7	2303.7	Trusses, Shrinkage		Changes to language in 2021, appears non-substantive.								
206-B23	IBC	23	2304.6.1; Table 2304.6.1	2304.6.1; Table 2304.6.1	2304.6.1	Wood Structural Panel Sheathing; Max Basic Wind Speed Permitted		Changes in 2024. Adds <i>basic</i> wind speed. Revised values in table, adds footnote d.								

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207-B23	IBC	23	Table 2304.8(3); 2304.8(5) footnotes	Table 2304.8(3); 2304.8(5) footnotes	Table 2304.8(3); 2304.8(5) footnotes	Allowable Spans and Loads for WSPS and Single-Floor Grades Continuous over Two or More Spans with Strength Axis Perpendicular to Supports/ Parallel to Supports		Change in 2024. Adds <i>Where the total load includes snow, use allowable stress design snow loads.</i>								
208-B23	IBC	23	2304.9	2304.9	2304.9	Lumber Decking		Change in 2021. Adds <i>Other lumber decking patterns and connection designs shall be substantiated through engineering analysis.</i>								
209-B23	IBC	23	2304.10.1	2304.10.1		Fire Protection of Connections		New in 2021, revised in 2024. <i>Connections used with fire-resistance-rated members and in fire-resistance-rated assemblies of Type IV-A, IV-B, or IV-C construction shall be protected for the time associated with the fire-resistance rating. Protection time shall be determined by one of the following:</i> <i>1. Testing in accordance with Section 703.2 where the connection is part of the fire-resistance test.</i> <i>2. Engineering analysis that demonstrates that the temperature rise at any portion of the connection is limited to an average temperature rise of 250°F (139°C), and a maximum temperature rise of 325°F (181°C), for a time corresponding to the required fire-resistance rating of the structural element being connected. For the purposes of this analysis, the connection includes connectors, fasteners and portions of wood members included in the structural design of the connection.</i>								
210-B23	IBC	23	Table 2304.10.2	Table 2304.10.2	Table 2304.10.1	Fastening Schedule		<i>Changes in 2021. See table in code https://codes.iccsafe.org/content/IBC2021P2/chapter-23-wood#IBC2021P2_Ch23_Sec2304</i> <i>Changes in 2024. See table in code https://codes.iccsafe.org/content/IBC2024P1/chapter-23-wood#IBC2024P1_Ch23_Sec2304.10</i>								
211-B23	IBC	23	2304.11.1.1	2304.11.1.1	2304.11.1.1	Heavy Timber, Columns		Change 2024. <i>Columns shall be continuous or superimposed throughout all stories and connected in an approved manner. Columns shall be continuous or aligned vertically from floor to floor in all stories of Type IV-HT construction.</i>								
212-B23	IBC	23	2304.11.4.1	2304.11.4.1	2304.11.4.1	Heavy Timber, Roof Decks		Change 2024. <i>Cross-laminated timber roofs not less than 3 inches nominal in thickness...</i>								
213-B23	IBC	23	2305.1; 2305.1.2	2305.1	2305.1	General Design Requirements for Lateral Force-Resisting Systems, General and Permanent Load Duration		Change in 2024. <i>Strikes "frame" from reference to wood shear walls and diaphragms. 2305.1.2 new in 2024. 2305.1.2 Permanent loads are associated with permanent load duration in accordance with the ANSI/AWC NDS. For wood shear walls and wood diaphragms designed to resist lateral loads of permanent load duration only and that are not in combination with wind or seismic lateral loads, the design unit shear capacities shall be taken as the AWC SDPWS nominal unit shear capacities, multiplied by 0.2 for use with allowable stress design in Section 2306 and 0.3 for use with load and resistance factor design in Section 2307.</i>								
214-B23	IBC	23	Table 2306.1	Table 2306.1	2306.1	Allowable Stress Design, Standards for Design and Construction of Wood Elements in Structures Using Allowable Stress Design		Reformatted 2021. No changes noted.								
215-B23	IBC	23	2306.1.3	2306.1.3	2306.1.3	Preservative-Treated Wood Allowable Stresses		Treated wood stress adjustments <i>Preservative-treated wood allowable stresses.</i> The allowable unit stresses for preservative-treated wood conforming to AWPA U1 need not be adjusted for treatment, but are subject to other adjustments. <i>Load duration factors greater than 1.6 shall not be used in the structural design of preservative-treated wood members.</i> The allowable unit stresses for fire-retardant-treated wood, including fastener values, shall be developed from an approved method of investigation that considers the effects of anticipated temperature and humidity to which the fire-retardant-treated wood will be subjected, the type of treatment and the redrying process. Other adjustments are applicable except that the impact load duration shall not apply.								
216-B23	IBC	23	2306.1.4			Fire-Retardant Treated Wood Allowable Stresses		New in 2024. <i>The allowable unit stresses for fire-retardant-treated wood, including connection design values, shall be developed in accordance with the provisions of Section 2303.2.6. Load duration factors greater than 1.6 shall not be used in the structural design of fire-retardant-treated wood members.</i>								
217-B23	IBC	23	2306.1.5; Table 2306.1.5	2306.1.4; Table 2306.1.4	2306.1.4; 2306.1.4	Lumber Decking		In 2021, changed "flexure" to "moment". Renumbered in 2024.								

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218-B23	IBC	23	Table 2306.3(3)	Table 2306.3(3)	Table 2306.3(3)	Allowable Shear Values for Wind or Seismic Forces for Shear Walls of Lath and Plaster of Gypsum Board Wood Framed Wall Assemblies Utilizing Staples		Change in 2021. Gypsum board, gypsum veneer base or water-resistant gypsum backing board, minimum staple size No. 16 gage galv. staple, 1-1/2"legs, 1 5/8" long									
219-B23	IBC	23	2308.1	2308.1	2308.1	Conventional Light-Frame Construction (CLFC)		Change in 2024. The requirements of this section are intended for <i>buildings of</i> conventional light-frame construction <i>not exceeding the story height limitations of Section 2308.2.1</i> . 2308.1.1 deleted.									
220-B23	IBC	23	2308.2.3	2308.2.3	2308.2.3	CLFC, Allowable Loads		Changes in 2024 to Item 3, add Item 4. Ground <i>Allowable stress design ground</i> snow load pf (<i>asd</i>) shall not exceed 50 psf 4. Where design for tornado loads is required, tornado loads on the main wind force-resisting system and all components and cladding shall not exceed the corresponding wind loads on these same elements.									
221-B23	IBC	23	2308.2.7			Hillside Light-Frame Construction		New in 2024. <i>Design in accordance with Section 2308.3 shall be provided for the floor immediately above the cripple walls or post and beam systems and all structural elements and connections from this floor down to and including connections to the foundation and design of the foundation to transfer lateral loads from the framing above in buildings where all of the following apply:</i> 1. The grade slope exceeds 1 unit vertical in 5 units horizontal where averaged across the full length of any side of the building. 2. The tallest cripple wall clear height exceeds 7 feet (2134 mm); or, where a post and beam system occurs at the building perimeter, the post and beam system tallest post clear height exceeds 7 feet (2134 m). 3. Of the total plan area below the lowest framed floor, whether open or enclosed, less than 50 percent is occupiable space having interior wall finishes conforming to Section 2304.7 or Chapter 25. <i>Exception: Light-frame buildings in which the lowest framed floor is supported directly on concrete or masonry walls over the full length of all sides except the downhill side of the building are exempt from this provision.</i>									

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222-B23	IBC	23	2308.3			Portions or Elements Exceeding Limitations of Light-Frame Construction		New in 2024. <i>Portions or elements exceeding limitations of conventional light-frame construction. Where a building of otherwise conventional light-frame construction contains portions or structural elements that exceed the limits of Section 2308.2, those portions or elements, and the supporting load path, shall be designed in accordance with accepted engineering practice and the provisions of this code. For the purposes of this section, the term "portions" shall mean parts of buildings containing volume and area such as a room or a series of rooms. The extent of such design need only demonstrate compliance of the nonconventional light-framed elements with other applicable provisions of this code and shall be compatible with the performance of the conventional light-framed system.</i>							
223-B23	IBC	23	2308.4			CLFC, Structural Elements or Systems Not Described Herein		New in 2024. <i>Where a building of otherwise conventional construction contains structural elements or systems not described in Section 2308, these elements or systems shall be designed in accordance with accepted engineering practice and the provisions of this code. The extent of such design need only demonstrate compliance of the nonconventional elements with other applicable provisions of this code and shall be compatible with the performance of the conventionally framed system.</i>							
224-B23	IBC	23	2308.5			CLFC, Connectors and Fasteners		CLFM reorganized 2024. Section is new. <i>Connectors and fasteners used in conventional construction shall comply with the requirements of Section 2304.10.</i>							
225-B23	IBC	23	2308.6	2308.4.2.4; 2308.5.9; 2308.5.10 deleted in 2024	2308.4.2.4; 2308.5.9; 2308.5.10 deleted in 2024	CLFC, Cutting, Notching and Boring of Dimensional Wood Framing		In 2024. <i>The provisions of this section shall only apply to dimensional wood framing and shall not include engineered wood products, heavy timber or prefabricated/manufactured wood assemblies.</i>							
226-B23	IBC	23	2308.6.1; 2306.1.1			CLFC, Cutting, Notching and Boring of Dimensional Wood Framing, Floor Joists, Roof Rafters, and Ceiling Joists		In 2024. <i>Notches on framing ends shall not exceed one-fourth the member depth. Notches in the top or bottom of the member shall not exceed one-sixth the depth and shall not be located in the middle third of the span. A notch not more than one-third of the depth is permitted in the top of a rafter or ceiling joist not further from the face of the support than the depth of the member. Holes bored in members shall not be within 2 inches of the top or bottom of the member and the diameter of any such hole shall not exceed one-third the depth of the member. Where the member is notched, the hole shall not be closer than 2 inches to the notch. 2308.6.1.1 Ceiling joists. Where ceiling joists also serve as floor joists, they shall be considered floor joists within this section.</i>							
227-B23	IBC	23	2308.6.2			CLFC, Cutting, Notching and Boring of Dimensional Wood Framing, Wall Studs		In 2024. <i>In exterior walls and bearing partitions, a wood stud shall not be cut or notched in excess of 25 percent of its depth. In nonbearing partitions that do not support loads other than the weight of the partition, a stud shall not be cut or notched in excess of 40 percent of its depth.</i>							
228-B23	IBC	23	2308.6.3			CLFC, Cutting, Notching and Boring of Dimensional Wood Framing, Bored Holes		In 2024. <i>The diameter of bored holes in wood studs shall not exceed 40 percent of the stud depth. The diameter of bored holes in wood studs shall not exceed 60 percent of the stud depth in nonbearing partitions. The diameter of bored holes in wood studs shall not exceed 60 percent of the stud depth in any wall where each stud is doubled, provided that not more than two such successive doubled studs are so bored. The edge of the bored hole shall not be closer than 5/8 inch to the edge of the stud. Bored holes shall not be located at the same section of stud as a cut or notch.</i>							
229-B23	IBC	23	2308.6.4			CLFC, Cutting, Notching and Boring of Dimensional Wood Framing, Limitations		In 2024. <i>In designated lateral force-resisting system assemblies designed in accordance with this code and greater than three stories in height or in Seismic Design Categories C, D, E and F, the cutting, notching and boring of wall studs shall be as prescribed by the registered design professional. In structures designed in accordance with the IRC, modification of wall studs shall comply with the IRC.</i>							
230-B23	IBC	23	Table 2308.8.1	Table 2308.4.1.1	Table 2308.4.1.1	CLFC, Header and Girder Spans for Ext. Bearing Walls, Allowable Stress Design Ground Snow Load		Changed in 2024 to add "allowable stress design".							
231-B23	IBC IBC	23 23	Table 2308.10.1		Table 1305.2308.6.1	CLFC, Wall Bracing Requirements	Y	MN amendment table revisions shown in red here https://codes.iccsafe.org/content/MNBC2020P1/chapter-23-wood#MNBC2020P1_Ch23_Sec2308.6 No changes in 2021 or 2024 other than numbering. See 2024 table here https://codes.iccsafe.org/content/IBC2024P1/chapter-23-wood#IBC2024P1_Ch23_Sec2308.10							
232-B23	IBC	23	Table 2308.10.3 (1)	Table 2308.6.3.1 (1)	Table 2308.6.3.1 (1)	Bracing Methods		Small changes in 2021 and 2024.							

Link to 2024 IBC		Link to 2021 IBC		Link to 2018 IBC		Link to 2020 MN Building Code		Link to MN Rules 1305 Amendments									
Link to 2024 IEBC (Conservation Code)			Link to 2021 IEBC			Link to 2020 MN Conservation Code											
To Be Completed by TAG Leads											TAG Meeting Results						
											Recommendations A - Accept Model Code AM - Amend Model Code						
Item Number	2024 Code and Chapter		2024 Code & Section	2021 Code & Section	2020 MN Code Section	Code Section Heading/Topic	MN Amendment?	Description of change(s) to code language	Safety/Health Value	Cost	Impact	Staff Comment	Staff Recommendation	TAG Recommendation	TAG Group Consensus	Stakeholder Consensus	Comments
	Code	Chapter													Y or N	Y or N	
233-B23	IBC	23	Table 2308.11.3.1	Table 2308.7.3.1	Table 2308.7.3.1	Rafter Tie Connections		Table replaced in 2021. In 2024, added 'allowable stress design' to 'ground snow'.									
234-B23	IBC	23	Table 2308.11.3.1 (1)	Table 2308.7.3.1 (1)		Heel Joint Adjustment Factors		New Table in 2021.									
235-B23	IBC	23	2308.11.4	2308.7.5	2308.7.5	Wind Uplift		Exception added in 2024. <i>The truss to wall connection shall be determined from the uplift forces as specified on the truss design drawings or as shown on the construction documents.</i>									