TWELFTH PRINTING (Updated December 6, 2016)

CHAPTER 23
WOOD

TABLE 2306.6
ALLOWABLE SHEAR VALUES (plf) FOR WIND OR SEISMIC LOADING ON SHEAR WALLS OF FIBERBOARD SHEATHING BOARD CONSTRUCTION FOR TYPE V CONSTRUCTION ONLY a, b, c, d, e

THICKNESS AND GRADE	FASTENER SIZE	ALLOWABLE SHEAR VALUE (pounds per linear foot) NAIL SPACING AT PANEL EDGES (inches)[a]		
		4	3	2
½" or 25/32" Structural	No. 11 gage galvanized roofing nail 1-1/2" long for 1/2", 1-3/4" long for 25/32" with 3/8" head	170	230	260
	No. ~~11~~ 16 gage galvanized stable, 7/16" crown	150	200	225
	No. ~~11~~ 16 gage galvanized stable, 1" crown	220	290	325

2009 International Building Code Errata

(Portions of text and tables not shown are unaffected by the errata)

SIXTH PRINTING (Updated October 3, 2012)

CHAPTER 23
WOOD

TABLE 2308.10.3(2) (*Correct title as follows:)*

RAFTER SPANS FOR COMMON LUMBER SPECIES
(Roof Live Load = 20 pounds per square foot, Ceiling ~~Not~~ Attached to Rafters, L/Δ = 240)

(No change to table)

2009 International Building Code Errata

(Portions of text and tables not shown are unaffected by the errata)

THIRD PRINTING (Updated February 18, 2011)

CHAPTER 23 WOOD

TABLE 2306.7

ALLOWABLE SHEAR FOR WIND OR SEISMIC FORCES FOR SHEAR WALLS OF LATH AND PLASTER OR GYPSUM BOARD WOOD FRAMED WALL ASSEMBLIES

TYPE OF MATERIAL	THICKNESS OF MATERIAL	WALL CONSTRUCTION	FASTENER SPACING[b] MAXIMUM (inches)	SHEAR VALUE[a,e] (plf)	MINIMUM FASTENER SIZE[c,d,j,k]
3.Gypsum sheathing	½" x 2' ~~x 8'~~	Unblocked	4	75	No. 11 gage, 1 ¾" long, 7/16" head, diamond-point, galvanized 16 Ga. Galv. Stable, 1 ¾" long
	½" x 4'	Blocked [d] Unblocked	4 7	175 100	
	5/8" x 4'	Blocked	4" edge/ 7" field	200	6d galvanized 0.120" Nail, min. 3/8" head, 1 ¾" long

Remainder of Table unchanged.

2009 International Building Code Errata

(Portions of text and tables not shown are unaffected by the errata)

THIRD PRINTING (Updated December 14, 2010)

CHAPTER 23 WOOD

Errata Note: *An erratum was issued for the 2nd printing that was corrections for large portions of this table. Portions of the table not shown were to remain unchanged. Unfortunately, in the 3rd printing this erratum was used to replace the table rather than just modify it. Rows for 3/8" and 7/16" Structural I Sheathing were left out of the 3rd printing only. These rows are correct in the 1st ad 2nd printings. Therefore, the following is an errata to the 3rd printing only.*

TABLE 2306.3
ALLOWABLE SHEAR (POUNDS PER FOOT) FOR WOOD STRUCTURAL PANEL SHEAR WALLS WITH FRAMING OF DOUGLAS-FIR-LARCH, OR SOUTHERN PINE a FOR WIND OR SEISMIC LOADING [b, h, i, j, l]

PANEL GRADE	MINIMUM NOMINAL PANEL THICKNESS (inch)	MINIMUM FASTENER PENETRATION IN FRAMING (inches)	PANELS APPLIED DIRECT TO FRAMING					PANELS APPLIED OVER ½" or 5/8" GYPSUM SHEATHING				
			NAIL (common or galvanized box) or staple size[k]	Fastener spacing at panel edges (inches)				NAIL (common or galvanized box) or staple size[k]	Fastener spacing at panel edges (inches)			
				6	4	3	2e		6	4	3	2e
Structural Sheathing	3/8	1 3/8	8d (2-1/2" x 0.131" common, 2-1/2" x 0.113" galvanized box)	230[d]	360[d]	460[d]	610[d]	10d (3" x 0.148" common, 3" x 0.128" galvanized box)	280	430	550[f]	730
		1	1 ½ 16 Gage	155	235	315	400	2 16 Gage	155	235	310	400
	7/16	1 3/8	8d (2-1/2" x 0.131" common, 2-1/2" x 0.113" galvanized box)	255[d]	395[d]	505[d]	670[d]	10d (3" x 0.148" common, 3" x 0.128" galvanized box)	280	430	550[f]	730
		1	1 ½ 16 Gage	170	260	345	440	2 16 Gage	155	235	310	400
	15/32	1 3/8	8d (2-1/2" x 0.131" common, 2-1/2" x 0.113" galvanized box)	280	430	550	730	10d (3" x 0.148" common, 3" x 0.128" galvanized box)	280	430	550[f]	730
		1	1 ½ 16 Gage	185	280	375	475	2 16 Gage	155	235	300	400
		1 1/2	10d (3" x	34	510	665f	870	—	—	—	—	—

			0.148" common, 3" x 0.128" galvanized box)	0								

(Portions of table not shown remain as indicated in the errata to the 2nd edition)

2009 International Building Code Errata

(Portions of text and tables not shown are unaffected by the errata)

SECOND PRINTING (Updated March 22, 2010)

CHAPTER 23
WOOD

2303.2.4 Labeling. Fire-retardant-treated lumber and wood structural panels shall be labeled. The *label* shall contain the
following items:

1. The identification *mark* of an *approved agency* in accordance with Section 1703.5.
2. Identification of the treating manufacturer.
3. The name of the fire-retardant treatment.
4. The species of wood treated.
5. Flame spread and smoke-developed index.
6. Method of drying after treatment.
7. Conformance with appropriate standards in accordance with Sections ~~2303.2.2~~ 2303.2.5 through ~~2303.2.5~~ 2303.2.8.
8. For *fire-retardant-treated wood* exposed to weather, damp or wet locations, include the words “No increase in the *listed* classification when subjected to the Standard Rain Test” (ASTM D 2898).

TABLE 2306.3
ALLOWABLE SHEAR (POUNDS PER FOOT) FOR WOOD STRUCTURAL PANEL SHEAR WALLS WITH FRAMING OF DOUGLAS FIR-LARCH OR SOUTHERN PINE[a] FOR WIND SEISMIC LOADING[b, h, l, j, l]

PANEL GRADE	MINIMUM NOMINAL PANEL THICKNESS (inch)	MINIMUM FASTENER PENETRATION IN FRAMING (inches)	PANELS APPLIED DIRECT TO FRAMING					PANELS APPLIED OVER ½” OR 5/8” GYPSUM SHEATHING				
			NAIL (common or galvanized box) or staple size[k]	Fastener spacing at panel edges (inches)				NAIL (common or galvanized box) or staple size[k]	Fastener spacing at panel edges (inches)			
				6	4	3	2[e]		6	4	3	2[e]
Structural I sheathing	15/32	1 ½	10d (3” x 0.148” common. 3” x 0.128” galvanized box)	340	510	665[f]	870	~~10d (3” x 0.148” common. 3” x 0.128” galvanized box)~~	--	--	--	--
Sheathing, plywood siding [g e] except Group 5 species	5/16[c] or 1/4[c]	1 ¼	6d (2”x0.113” common, 2”x0.099” galvanized box)	180	270	350	450	8d (2 ½” x 0.131” common, 2 ½” x 0.113” galvanized box)	180	270	350	450
		1	1 ½ 16 Gage	145	220	295	375	2 16 Gage	110	165	220	285
	3/8	1 ¼	6d (2”x0.113” common, 2”x0.099” galvanized box)	200	300	390	510	8d (2 ½” x 0.131” common, 2 ½” x 0.113” galvanized box)	200	300	390	510
		1 3/8	8d (2 ½” x 0.131” common, 2 ½” x 0.113” galvanized box)	220[d]	320[d]	410[d]	530[d]	10d (3” x 0.148” common, 3” x 0.128” galvanized box)	260	380	490[f]	640
		1	1 ½ 16 Gage	140	210	280	360	2 16 Gage	140	210	280	360
	7/16	1 3/8	8d (2 ½” x 0.131” common, 2 ½” x 0.113” galvanized box)	240[d]	350[d]	450[d]	585[d]	10d (3” x 0.148” common, 3” x 0.128” galvanized box)	260	380	490[f]	640
		1	1 ½ 16 Gage	155	230	310	395	2 16 Gage	140	210	280	360
	15/32	1 3/8	8d (2 ½” x 0.131” common, 2 ½” x 0.113” galvanized box)	260	380	490	640	10d (3” x 0.148” common, 3” x 0.128” galvanized box)	260	380	490[f]	640
		1 ½	10d (3” x 0.148” common, 3” x 0.128” galvanized box)	310	460	600[f]	770	-	-	-	-	-

		1	1 ½ 16 Gage	170	255	335	430	2 16 Gage	140	210	280	360
	19/32	1 ½	10d (3" x 0.148" common, 3" x 0.128" galvanized box)	340	510	665[f]	870	-	-	-	-	-
		1	1 3/4 16 Gage	185	280	375	475	-	-	-	-	-
			Nail Size (galvanized casing)					Nail Size (galvanized casing)				
	5/16[c]	1 ¼	6d (2" x 0.099")	140	210	275	360	8d (2 ½" x 0.113")	140	210	275	360
	3/8[c]	1 3/8	8d (2 ½" x 0.113")	160	240	310	410	10d (3" x 0.128")	160	240	310[i]	410

(Portions of table and notes not shown remain unchanged)

TABLE 2306.6
ALLOWABLE SHEAR VALUES (plf) FOR WIND OR SEISMIC LOADING ON SHEAR WALLS OF FIBERBOARD SHEATHING BOARD CONSTRUCTION FOR TYPE V CONSTRUCTION ONLY a, b, c, d, e

THICKNESS AND GRADE	FASTENER SIZE	ALLOWABLE SHEAR VALUE (pounds per linear foot) NAIL SPACING AT PANEL EDGES (inches)[a]		
		4	3	2
½" or 25/32" Structural	No. 11 gage galvanized roofing nail 1-1/2" long for 1/2", 1-3/4" long for 25/32" with 3/8" head	170	230	260

(Portions of table and notes not shown remain unchanged)

2308.11.2 Concrete or masonry. Concrete or masonry walls and stone or masonry veneer shall not extend above a basement.

Exceptions:

1. *(no change)*
2. *(no change)*
3. *(no change)*

3.1. *(no change)*

3.2. *(no change)*

3.3. Hold-down connectors shall be provided at the ends of each braced wall panel for the second *story* to first *story* connection with an allowable design of 2,000 pounds (8896 N). Hold-down connectors shall be provided at the ends of each braced wall panel for the first story to foundation connection with an allowable capactiy of 3,900 pounds (17 347 N). In all cases, the hold-down connector force shall be transferred to the foundation.

3.4. *(no change)*

2009 International Building Code Errata

(Portions of text and tables not shown are unaffected by the errata)

FIRST PRINTING (Updated April 20, 2009)

CHAPTER 23 WOOD

TABLE 2306.2.1(1)
ALLOWABLE SHEAR (POUNDS PER FOOT) FOR WOOD STRUCTURAL PANEL DIAPHRAGMS WITH FRAMING OF DOUGLAS FIR-LARCH, OR SOUTHERN PINE[a] FOR WIND OR SEISMIC LOADING[h]

PANEL GRADE	COMMON NAIL SIZE OR STAPLE LENGTH AND GAGE	MINIMUM FASTENER PENETRATION IN FRAMING	MINIMAL NOMINAL PANEL THICKNESS (inch)
Sheathing, single floor and other grades covered in DOC PS 1 and PS 2	6d[e] (2" x 0.113")	1 1/4	3/8
	8d (2 1/2" x 0.131")	1 3/8	
	1 ½ 16 Gage	1	

(Portions of table not shown are unchanged)