GIRDERS AND HEADERS SUPPORTING TABLE 2308.9.5

GIRDER SPANS^a AND HEADER SPANS^a FOR EXTERIOR BEARING WALLS

(Maximum spans for Douglas fir—larch, hem—fir,southern pine and spruce—pine—fir^b and required number of jack studs)

SIZE GROUND^a SNOW LOAD (psf) and 50
Building Width (feet)

28
NJ d Snor

For SI: 1 inch=25.4mm, 1 pound per square foot=0.0479kN/m²	4-2x12	4-2x10	4-2x8 5	3-2x12	3-2×10		Roof, ceiling and two $2-2x12$	2-2x10	2-2x8 3			4-2x12 S	4-2x10 8	4-2x8 (6		3-2x10	3-2x8		2-2x10 [5	2-2x8 2		$\begin{bmatrix} 2-2x4 \end{bmatrix}$		4-2x10 8	4-2x8 7	3-2x12	3-2x10		2-2x12 6		
=0.04	7-9	6–9	5–6	6–9	5-10	4-9	5–5	4-8	3-10	3-0	2-0	9-5	8–2	6–8	8–2	7-1	5-9	9-6	8–5	4-7	3–8	2-6	9-11	8–7	7-0	8–7	7–5	6-1	6-10	5-11	4-10
79kN/	2	2	2	2	2	2	3	2	2	2	1	2	2	1	2	2	2	2	2	2	2	1	2	2	1	2	2	2	2	2	_
m²	6–9	5-10	4-9	5-10	5-0	4-1	4–8	4-0	3–4	2-7	1-8	8–3	7-2	5-10	7-2	6-2	1–5	6–5	1-11	4-0	3–2	2-2	7–8	7–5	6-1	7–5	6–5	5–3	5-11	5–1	7 2
	2	2	2	3	2	2	3	3	2	2	1	2	2	2	2	2	2	3	2	2	2	1	2	2	2	2	2	2	3	2	7
	6-0	5-2	4-3	5-3	4-6	3–8	4-2	3–7	2-11	2-3	1-5	7–5	6–5	5-3	6–5	5-7	4-7	5-2	4-5	3–8	2-10	1-11	7–8	6-7	5-5	6–8	5-9	4-8	5-4	4-7	0 0
	3	2	2	3	3	2	3	3	3	2	2	2	2	2	3	2	2	3	3	2	2	1	2	2	2	2	2	2	3	3	7

- Unless noted otherwise the buildings shall be constructed in accordance with the 2009 International Building Code Section 2308 Conventional Light-Frame Construction. Walls separating units shall be considered braced wall lines and constructed in accordance with the 2009 IBC Section 2308.9.3.5.

 2x8, 2x10 and 2x12 dimension lumber shall be Spruce Pine Fir No. 1/No.2 as graded by NLGA,

GENERAL

FIRE SEPARATION

1 HR RATED FIRE PARTITION (IBC 420.2/709)
BUILDINGS WILL BE SPRIKLERED IN ACCORDANCE

WITH NFPA.

PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SEALED WITH PROPER, APPROVED MATERIALS.

SHALL

0F

CONSTRUCTION

GROUP CLASSIFICATION

RESIDENTIAL

"R-2"

TYPE V-B (COMBUSTIBLE,

UNPROTECTED)

2009

INTERNATIONAL

BUILDING

CODE

1 W N W	3322	22222	W 2 2	1222	220			3-1222222222222222222222222222222222222	
EARTHQUAKE DESIGN DATA SEISMIC IMPORTANCE FACTOR	WIND LOAD: WIND SPEED	ROOF SNOW LOAD GROUND SNOW LOAD, Pg SNOW EXPOSURE FACTOR, Ce SNOW LOAD IMPORTANCE FACTOR, I SNOW LOAD THERMAL FACTOR, Ct	FLOOR LIVE LOAD	DESIGN LOADS: ROOF DEAD LOAD ROOF LIVE LOAD	BUILDING CODE:	BASIS OF DESIGN	TWO floor only	One floor only	HEADERS AND GIRDERS SUPPORTING
1.0	100 MPH B	50 PSF 1.0 1.0 1.1	30 PSF AT SLEEPING ROOMS	15 PSF SNOW LOAD GOVERNS	2009 INTERNATIONAL BU		2-2x4 2-2x6 2-2x8 2-2x10 2-2x12 3-2x10 3-2x10 3-2x12 4-2x8 4-2x10 4-2x10	2-2x4 2-2x6 2-2x8 2-2x10 2-2x12 3-2x8 3-2x10 3-2x12 4-2x10 4-2x10 4-2x12	SIZE
			SMOOMS		BUILDING CODE		2-2 1 1-10 1 3-2 2 2-9 2 4-11 2 3-6 2 4-11 2 4-3 2 5-9 2 5-0 3 5-1 2 4-5 2 6-2 2 6-3 2 7-2 2 6-3 2 7-2 2 6-3 2 8-4 2 7-2 2		Building Width ^c (20 28 Span NJ ^d Span NJ ^d

					IWU floor only	d 5 5										One floor only	-						SUPPORTING	HEADERS AND GIRDERS
4-2×12	4-2×10	4-2x8	3-2×12	3-2×10	3-2x8	2-2×12	2-2×10	2-2x8	2-2×6	2-2×4	4-2x12	4-2×10	4-2x8	3-2x12	3-2×10	3-2x8	2-2×12	2-2×10	2-2x8	2-2×6	2-2x4	SIZE		
8-4	_	4-2	7-2		5-1	5-9	4-11	4-1		2-2	11-9	10-1	5-10	10-2	8-9	7-2	8-1	7-0	5-9	4-6	3-1	Span I	20	
					2 4-5	2 5-0		2 3-6		1 1-10	1 10-2	1 8-9	1 5-1	2 8-10	1 7-7	1 6-3	2 7-0	2 6-1	1 5-0	1 3-11	1 2-8	NJª Span	28	Building Width (feet)
2	2	2	2	2	2	3	2	2	2	_	2	_	2	2	2	1	2	2	2	1	_	NJd	8	idth [°] (f
6–5	5–6	3–2	5-7	4-10	3-11	4-5	3–10	3–2	2–5	1-7	9-1	7–10	4-6	7-10	6–9	5-7	6-3	5–5	4–5	3–6	2–5	Span		eet)
					2	()	()	2	2	_	2	2	2	2	2	2	\	2	2	_	_	NJ d	36	

OF DESIGN		

7/8"

8d common no

ail or 8d deformed

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12 12

ming r 8d common nail

10d common

8d deformed nail

wood structural panels, combination subfloo. 3/4" and less

1-1/2" galvanized roofing nail 6d common nail staple 16ga., 1-1/2" long or underlayment to framing 6d deformed nail or 8d common nail

1-1/2" galvanized roofing nail: 6d common nail; staple galvanized, 1-1/2" long 1-1/4" screws, type W

3

1-1/2" galvanized roofing nail 6d common nail staple 16ga., 1-1/2"

1-3/4" galvanized roofing nail 8d common nail staple 16ga., 1-3/4"

RESPONSE MODIFICATION FACTOR, R	EARTHQUAKE DESIGN DATA SEISMIC IMPORTANCE FACTOR OCCUPANCY CATEGORY MAPPED SPECTRAL RESPONSE, Ss SITE CLASS SITE CLASS SPECTRAL RESPONSE COEFFICENT, Sds SPECTRAL RESPONSE COEFFICENT, Sd1 SPECTRAL RESPONSE COEFFICENT, Sd1 SEISMIC DESIGN CATEGORY BASSIC SEISMIC—FORCE RESISTING SYSTEM 1.0 0.342 0.078 0.078 SITE CLASS C SEISMIC DESIGN CATEGORY LIGHT FRAMED WALLS WITH SHEAR P.	EXPOSURE

c.

Building width is measured perpendicular to the ridge. For widths between those shown, spans are permitted to be interpolated.

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NJ—Number of jack studs required to support each end. Where the number of required jack studs equals one, the header is permitted to be supported by an approved framing anchor attached to the full—height wall stud and to the header.

σ.

Tabulated values assume #2 grade lumber.

Spans are given in feet and inches

. 4. 0	 U.N.O. 2x4 and 2x6 dimension lumber shall be Spruce Pine Fir No. 2 or better as graded by NeLMA. All fastening shall comply with the "recommended fastening schedule" in the 2009 international 	
	All fastening shall comply with the "recommended fastening schedule" in the 2009 international building code (Table 2304.9.1) unless noted otherwise.	
6.	Frame double joist headers at ceiling openings frame rigidly into joists.	
7.	Double members over openings over 24 inches wide. Space short studs above and below	
	opening matching stud spacing.	
<u></u> .∞	8. Post and columns from headers and beams shall bear continuously to the concrete foundations,	
	including blocking in interstitial floor and roof spaces. Blocking shall be of the size and shape to	
	carry the required loading.	
9.	All wood in contact with concrete shall be pressure treated.	

*MATHEW BROTHERS NFRC CERTIFIED CENTER UNIT PERFORMANCE

					IWO floor only	-										One floor only	-						SUPPORTING)ERS AND GIRDERS		s for Douglas fir—larch, hem—fir, southern pine and	GIRDER SPANS" AND HE		
4-2x12	4-2×10	4-2x8	3-2×12	3-2×10	3-2x8	2-2×12	2-2×10	2-2x8	2-2x6	2-2×4	4-2×12	4-2×10	4-2x8	3-2×12	3-2×10	3-2x8	2-2×12	2-2×10	2-2x8	2-2×6	2-2×4	SIZE				outhern pine and spruce—pine—fir ^b and required		TABLE 2308 9 8	
8-4	7_7	4-2	7-2	6-2	5-1	5-9	4-11	4-1	3-2	2-2	11-9	10-1	5-10	10-2	8–9	7-2	8 <u>-</u> 1	7-0	5-9	4-6	3-1	Span				ir ^b and r	RING WAL		
2	اد	2	2	2	2	2	2	2	2	1	1	1	1	2	1	1	2	2	1	1	1	NJd	20	!	Buil	equired	S		
7-2	6_7	3-7	6-3	5-4	4-5	5-0	4-3	3–6	2-9	1-10	10-2	8-9	5-1	8-10	7-7	6-3	7-0	6–1	5-0	3-11	2-8	Span	28		dina Wi	numbe			
\perp	اد	_			2	3		2	2		2	1	2	2	2	1	2	2	2	1	1	NJd	\Box		idth° (fe	er of jo			
6 7	ا م ا	3-2	5–7	4-10	3-11	4-5	3–10	3–2	2–5	1-7	9-1	7-10	4-6	7-10	6-9	5–7	6-3	5–5	4-5	3–6	2-5	Span	ا _ک	,	eet)	ack stu			
2	ارد	2	3	2	2	3	3	2	2	<u> </u>	2	2	2	2	2	2	2	2	2	<u> </u>	1	NJd	8			l (spr	•		
6-5	٦ (م ا ا	3-2	5-7	4-10	3-11	4-5	3-10	3-2	2-5	1 1-7 1	9-1	1 7-10 2	4-6	7-10	6-9		6-3	5–5	4-5	1 3-6 1	1	NJª Span	36		Building Width ^c (feet)	number of jack studs)			
5/8" avpsum sheathina			1/2" gypsum sheathing		וושכו סימות סווכמיווווין	fiberhoard sheathing	25/32" structural cellulosic		sheathing	1/2" regular cellulosic fiberboard	•	Silved chilling	sheathing	1/2" regular cellulosic fiberboard	odici wali sheddillig	Other wall sheathing H	1-1/8" - 1-1/4"		19/32" - 1"			5/16" - 1/2"	wood structural panels, subfloor, roof		MATERIAL S				

10d common

nail or 8d

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12

12

6d common nail (subfloor, 8d common nail (roof) ^f

FASTENER

1-1/2" galvan common nail s

diameters larger than 0.142inch but not larger	minimum average bending yield strengths as sl	a. All nails are smooth—common, box or defor	For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 1.609 km/h.
diameters larger than 0.142inch but not larger than 1.177inch, and 100ksi (689 MPa)for shank diameters of 0.142inch less.	minimum average bending yield strengths as shown: 80ksi (551 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa)	a. All nails are smooth—common, box or deformed shanks except where otherwise stated. Nails used for framing and sheathing connections shall h	nile per hour = 1.609 km/h.

b. Staples are 16 gage wire and have a minimum 7/16-inch

c. Nails shall be spaced at not more than 6inches on center

d. Four-foot- by-8-foot or 4-foot-by-9-foot panels shall

e. Spacing of fasteners not included in this table shall be b

f. For regions having basic wind speed of 110mph or greater, 8 sheathing to framing within minimum 48—inch distance from gable end walls, more than 25feet, б

g. For regions having basic wind speed of 100mph or less, no spaced 6inches on center. When basic wind speed is greater to 6inches on center for minimum 48—inch distance from ridges,

h. Gypsum sheathing shall conform to ASTM C79 and shall ASTM C 208. conform to

i. Spacing of fasteners on floor sheathing panel edges applia fasteners on roof sheathing panel edges applies to panel ed sheathing panel edges perpendicular to the framing membe shall be supported by framing members or solid blocking.

HANCOCK CLASSIC WINDOWS NFRC CERTIFIED UNIT PERFORMANCE	RTIFIED UNIT PERF	ORMANCE
HANCOCK WINDOWS PRODUCT TYPE;		WITHOUT GRILLS HP LOW-E:
CASEMENT	U-FACTOR R-VALUE	0.31 0.31
STANDARD DOUBLE— HUNG	U-FACTOR R-VALUE	0.35 0.35
PREMIUM DOUBLE—HUNG	U-FACTOR R-VALUE	0.46 0.46
TRANSOM	U-FACTOR R-VALUE	0.34 0.34
AWNING	U-FACTOR R-VALUE	0.31 0.31
GLIDER	U-FACTOR	0.33

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