

GIRDERS AND HEADERS SUPPORTING	SIZE	Building Width ¹ (feet)					
		20		50			
		Span	N ¹	Span	N ¹		
Roof and ceiling	2-2x4	3-2	1	2-9	1	2-6	1
	2-2x6	4-8	1	4-1	1	3-8	2
	2-2x8	5-11	2	5-2	2	4-7	2
	2-2x10	7-3	2	6-3	2	5-7	2
	2-2x12	8-5	2	7-3	2	6-6	2
	3-2x8	7-5	1	6-5	2	5-9	2
	3-2x10	9-1	2	7-10	2	7-0	2
	3-2x12	10-7	2	9-2	2	8-2	2
	4-2x8	8-4	1	7-5	1	6-8	1
	4-2x10	10-6	1	9-1	2	8-2	2
Roof, ceiling and over center-bearing floor	4-2x12	12-2	2	10-7	2	9-5	2
	2-2x4	2-7	1	2-3	1	2-0	1
	2-2x6	3-10	2	3-4	2	3-0	2
	2-2x8	4-10	2	4-2	2	3-9	2
	2-2x10	5-11	2	5-1	2	4-7	2
	2-2x12	6-10	2	5-11	2	5-4	2
	3-2x8	6-1	2	5-3	2	4-8	2
	3-2x10	8-5	2	6-5	2	5-9	2
	3-2x12	9-7	2	8-0	2	7-2	2
	4-2x8	7-5	1	6-6	1	5-11	2
Roof, ceiling and one clear span floor	4-2x10	10-7	2	9-3	2	8-4	2
	2-2x4	2-7	1	2-3	1	2-0	1
	2-2x6	3-10	2	3-4	2	3-0	2
	2-2x8	4-10	2	4-2	2	3-9	2
	2-2x10	5-11	2	5-1	2	4-7	2
	2-2x12	6-10	2	5-11	2	5-4	2
	3-2x8	6-1	2	5-3	2	4-8	2
	3-2x10	8-5	2	6-5	2	5-9	2
	3-2x12	9-7	2	7-5	2	6-8	2
	4-2x8	7-0	1	6-1	2	5-5	2
Roof, ceiling and two center-bearing floor	4-2x10	8-7	2	7-5	2	6-7	2
	2-2x4	9-11	2	8-7	2	7-8	2
	2-2x6	2-6	1	2-2	1	1-11	1
	2-2x8	3-8	2	3-2	2	3-8	2
	2-2x10	4-7	2	4-0	2	3-8	2
	2-2x12	5-8	2	4-11	2	4-5	2
	3-2x8	6-6	2	5-9	2	5-2	2
	3-2x10	7-1	2	6-2	2	4-7	2
	3-2x12	8-2	2	7-2	2	6-5	2
	4-2x8	6-8	1	5-10	2	5-3	2
Roof, ceiling and two clear span floor	4-2x10	8-2	2	7-2	2	6-5	2
	2-2x4	9-5	2	8-3	2	7-5	2
	2-2x6	2-0	1	1-8	1	1-5	2
	2-2x8	3-10	2	2-7	2	2-3	2
	2-2x10	4-8	2	4-0	2	3-7	2
	2-2x12	5-3	2	4-1	2	3-8	2
	3-2x8	4-9	2	4-1	2	4-6	2
	3-2x10	6-9	2	5-10	2	5-3	2
	3-2x12	8-9	2	7-2	2	6-3	2
	4-2x8	6-9	2	5-10	2	5-2	2
4-2x10	8-9	2	7-2	2	6-0	2	
4-2x12	7-9	2	6-9	2	5-3	2	

HEADERS AND GIRDERS SUPPORTING	SIZE	Building Width ¹ (feet)					
		20		28			
		Span	N ¹	Span	N ¹		
One floor only	2-2x4	3-1	1	2-8	1	2-5	1
	2-2x6	4-6	1	3-11	1	3-6	1
	2-2x8	5-9	1	5-0	2	4-5	2
	2-2x10	7-0	2	6-1	2	5-5	2
	2-2x12	8-1	2	7-0	2	6-3	2
	3-2x8	7-2	1	6-3	1	5-7	2
	3-2x10	8-3	1	7-2	2	6-0	2
	3-2x12	10-2	2	8-10	2	7-10	2
	4-2x8	8-4	1	7-5	1	6-8	2
	4-2x10	10-6	1	9-1	2	8-2	2
Two floor only	2-2x4	3-2	1	2-9	1	2-6	1
	2-2x6	4-1	1	3-7	1	3-3	2
	2-2x8	5-2	2	4-6	2	4-1	2
	2-2x10	6-4	2	5-6	2	5-0	2
	2-2x12	7-4	2	6-5	2	5-9	2
	3-2x8	6-5	2	5-8	2	5-1	2
	3-2x10	7-11	2	6-11	2	6-3	2
	3-2x12	9-2	2	8-0	2	7-3	2
	4-2x8	7-5	1	6-6	1	5-11	2
	4-2x10	9-7	2	8-0	2	7-2	2

DESCRIPTION OF BUILDING MATERIALS	DESCRIPTION OF FASTENER	SPACING OF FASTENERS	
		Edges (inches) ¹	Intermediate support (inches)
wood structural panels, subfloor, roof and wall sheathing to framing, and particleboard wall sheathing to framing			
5/16" - 1/2"	6d common nail (subfloor, wall) 8d common nail (roof)	6	12 ⁹
19/32" - 1"	8d common nail	6	12 ⁹
1-1/8" - 1-1/4"	10d common nail or 8d deformed nail	6	12
Other wall sheathing ¹¹			
1/2" regular cellulose fiberboard	1-1/2" galvanized roofing nail 6d common nail slope 16ga., 1-1/2" long	3	6
1/2" regular cellulose fiberboard sheathing	1-3/4" galvanized roofing nail 8d common nail slope 16ga., 1-5/4" long	3	6
25/32" structural cellulose fiberboard sheathing	6d common nail, slope galvanized, 1-1/2" long 1-1/4" screws, type W or S	3	6
1/2" gypsum sheathing	1-1/2" galvanized roofing nail 6d common nail slope 16ga., 1-1/2" long	4	8
5/8" gypsum sheathing	1-1/2" galvanized roofing nail 6d common nail slope 16ga., 1-1/2" long	4	8
wood structural panels, combination subfloor underlayment to framing			
3/4" and less	6d deformed nail or 8d common nail	6	12
7/8" - 1"	8d common nail or 8d deformed nail	6	12
1-1/8" - 1-1/4"	10d common nail or 8d deformed nail	6	12

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19/32" - 1"	8d common nail	6	12 ⁹
1-1/8" - 1-1/4"	10d common nail or 8d deformed nail	6	12
Other wall sheathing ¹¹			
1/2" regular cellulose fiberboard	1-1/2" galvanized roofing nail 6d common nail slope 16ga., 1-1/2" long	3	6
1/2" regular cellulose fiberboard sheathing	1-3/4" galvanized roofing nail 8d common nail slope 16ga., 1-5/4" long	3	6
25/32" structural cellulose fiberboard sheathing	6d common nail, slope galvanized, 1-1/2" long 1-1/4" screws, type W or S	3	6
1/2" gypsum sheathing	1-1/2" galvanized roofing nail 6d common nail slope 16ga., 1-1/2" long	4	8
5/8" gypsum sheathing	1-1/2" galvanized roofing nail 6d common nail slope 16ga., 1-1/2" long	4	8
wood structural panels, combination subfloor underlayment to framing			
3/4" and less	6d deformed nail or 8d common nail	6	12
7/8" - 1"	8d common nail or 8d deformed nail	6	12
1-1/8" - 1-1/4"	10d common nail or 8d deformed nail	6	12

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25/32" structural cellulose fiberboard sheathing	6d common nail, slope galvanized, 1-1/2" long 1-1/4" screws, type W or S	3	6
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wood structural panels, combination subfloor underlayment to framing			
3/4" and less	6d deformed nail or 8d common nail	6	12
7/8" - 1"	8d common nail or 8d deformed nail	6	12
1-1/8" - 1-1/4"	10d common nail or 8d deformed nail	6	12

For Sl: 1 inch=25.4mm, 1 foot = 304.8mm, 1 mile per hour = 1.609km/h.

a. All nails are smooth-common, box or deformed shanks except where otherwise stated. Nails used for framing and sheathing connections shall have minimum average bending yield strengths as shown: 80ksi (551 MPa) for shank diameter of .192inch (20d common nail), 90ksi (620 MPa) for shank diameters larger than 0.142inch but not larger than 1.177inch, and 100ksi (689 MPa) for shank diameters of 0.142inch less.

b. Slopes are 16 gauge wire and have a minimum 7/16-inch on diameter crown width.

c. Nails shall be spaced at not more than finishes on center at all supports where spans are 48inches or greater.

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

e. Spacing of fasteners not included in this table shall be based on table RB023(1).

f. For regions having basic wind speed of 110mph or greater, 8d deformed nails shall be used for attaching plywood and wood structural panel roof sheathing to framing within minimum 48-inch distance from gable end walls, if mean roof height is more than 25feet, up to 35feet maximum.

g. For regions having basic wind speed of 100mph or less, nails for attaching wood structural panel roof sheathing to gable end wall framing shall be spaced finishes on center. When basic wind speed is greater than 100mph, nails for attaching panel roof sheathing to intermediate supports shall be spaced finishes on center for minimum 48-inch distance from ridges, eaves and gable end walls; and finishes on center to gable end wall framing.

h. Gypsum sheathing shall conform to ASTM C79 and shall be installed in accordance with CA 253. Fiberboard sheathing shall conform to either AIA 194.1 or ASTM C 208.

i. Spacing of fasteners on floor sheathing panel edges applies to panel edges supported by framing members and at all floor perimeters only. Spacing of fasteners on roof sheathing panel edges applies to panel edges supported by framing members and at all roof panel perimeters. Blocking of roof or floor sheathing panel edges perpendicular to the framing members shall not be required except at intersection of adjacent roof planes. Floor and roof perimeter shall be supported by framing members or solid blocking.

GENERAL NOTES:

1. Unless noted otherwise the buildings shall be constructed in accordance with the 2009 International Building Code section 2308 – Conventional Light-Frame Construction.

2. Walls separating units shall be considered braced wall lines and constructed in accordance with the 2009 IBC Section 2308.9.3.5.

3. 2x8, 2x10 and 2x12 dimension lumber shall be Spruce Pine Fir No. 1/No.2 as graded by NLGA, U.N.O.

4. 2x4 and 2x6 dimension lumber shall be Spruce Pine Fir No. 2 or better as graded by NLGA.

5. 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.

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.

2009 INTERNATIONAL BUILDING CODE

RESIDENTIAL "R-2"

TYPE V-B (COMBUSTIBLE, UNPROTECTED)

FIRE SEPARATION 1 HR RATED FIRE PARTITION (IBC 420.2.7/09)

BUILDINGS WILL BE SPRINKLERED IN ACCORDANCE WITH NFPA.

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

REVISIONS:

NO/09/01 -

DATE: 12/18/13

SCALE: 1/4"=1'-0"

DRAWN BY: MTA

PROJECT: 08121213

SHEET NUMBER: 3-OF-3

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SCHEDULES
WAYNE HYMER
369 CAPISIC ST. PORTLAND, ME.

