MEM	DESCRIPTION OF BUILDING FLEMENTS NUMBER AND TYPE OF	NUMBER AND TYPE OF	SPACING OF FASTENERS
	Roof	FASIENER	
1	Blocking between joists or rafters to top plate, toe nail	$3-8d(2^1/2"\times 0.113")$	ı
2	Ceiling joists to plate, toe nail	3-8d (2 ¹ / ₂ "×0.113")	I
з	Ceiling joists not attached to parallel rafter, laps over partitions, face nail	3-10d	I
4	Collar tie rafter, face nail or $1^1/4$ " \times 20 gage ridge strap	3-10d (3"×0.128")	Ι
5	Rafter to plate, toe nail	$2-16d (3^1/2" \times 0.135")$	_
	Roof rafters to ridge, valley or hip rafters:		
6	toe nail	$4-16d (3^{1}/_{2} \times 0.135")$	I
	tace nail Wall	3-16d (3 ⁻ / ₂ ×0.135")	
7	Built-up corner studs	10d (3"×0.128")	24" o.c.
8	Built-up header, two pieces with $1/2$ " spacer	$16d(3^{1}/_{2}" \times 0.135")$	16" o.c. along each edge
9	Continued header, two pieces	$16d(3^{1}/_{2}" \times 0.135")$	16" o.c. along each edge
10	Continuous header to stud, toe nail	$4-8d(2^1/2"\times0.113")$	ı
11	Double studs, face nail	10d (3"×0.128")	24" o.c.
12	Double top plates, face nail	10d (3"×0.128")	24" o.c.
13	Double top plates, minimum 24-inch offset of end joints,	8-16d (3 ¹ / ₂ "× 0.135")	I
14	Sole plate to joist or blocking, face nail	$16d (3^{1}/_{2}" \times 0.135")$	16" o.c.
15	Sole plate to joist or blocking at braced wall panels	$3-16d (3^1/2" \times 0.135")$	16" o.c.
16	Stud to sole plate, toe nail	$3-8d (2^{1}/2^{1} \times 0.113^{1})$ or $2-16d 3^{1}/2^{1} \times 0.135^{11}$	l l
17	Top or sole plate to stud, end nail	$2-16d (3^{1}/2" \times 0.135")$	
18	Top plates, laps at corners and intersections, face nail	2-10d (3" × 0.128")	I
10	1= 5000 +0 000 5 0 +1 0 00 0 00 0 00 00 00 00 00 00 00 00 00	$2-8d (2^{1}/_{2}" \times 0.113")$	ı
5	T blace w each standally place, lace half	2 staples 1 ³ / ₄ "	ı
20	$1" \times 6"$ sheathing to each bearing, face nail	2-8d $(2^{1}/2" \times 0.113")$ 2 staples $1^{3}/4"$	1 1
21	$1" \times 8"$ sheathing to each bearing, face nail	2-8d $(2^{1}/2" \times 0.113")$ 3 staples $1^{3}/4"$	1 1
22	Wider than 1"×8" sheathing to each bearing, face nail	3-8d $(2^{1}/2" \times 0.113")$ 4 staples $1^{3}/4"$	
ນ	loiette sill or girder toopsil	2 04 (21/ = > 0.112=)	
24	1" x 6" subfloor or less to each joist, face nail	$2-8d(2^{1}/2^{2} \times 0.113^{*})$	ı
		2 40 1/2 1/4	
25	2" Subtloor to Joist or girder, blind and face hall	2-16d (3 ⁻ / ₂ "×0.135")	1
26	Rim joist to top plate, toe nail (roof applications also)	$8d (2^{1}/_{2}" \times 0.113")$	6" o.c.
27	2" planks (plank & beam - floor & roof)	$2-16d (3^1/2" \times 0.135")$	at each bearing
			Nail each layer as follows:
28	Built-up girders and beams, 2-inch lumber layers	10d (3"×0.128")	32" o.c. at top and bottom and staggered. Two nails at ends and at each splice.
30	Ledger strip supporting joists or rafters	$3-16d (3^1/2" \times 0.135")$	At each joist or rafter

	TABLE	TABLE R602.3(1B) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS		
	DESCRIPTION OF BUILDING		SPACING OF FASTENERS	FASTE
ITEM	MATERIALS	DESCRIPTION OF FASTENER ^{b, c, e}	Edges (inches) ⁱ	Intermediate supports ^{c, e}
				(inches
	Wood structural panels, subfloor,	Wood structural panels, subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing	heathing to framin	
;	3, ,, 1, ,,	6d common (2"x0.113") nail (subfloor wall)	`	
30	7/8" - 7/2"	8d common $(2^{1}/2''\times0.131'')$ nail $(roof)^{f}$	σ	
31	¹⁹ / ₃₂ " - 1"	8d common nail $(2^{1}/2'' \times 0.131'')$	6	
3	.1,,, .1,,,	10d common (3″×0.148″) nail or	'n	
32	1-/8" - 1-/4"	8d $(2^{1}/2"x0.131")$ deformed nail	σ	
		Other wall sheathing h		
22	$^{1}/_{2}$ " structural cellulosic	$1^1/_2$ " galvanized roofing nail, $\frac{7}{16}$ " crown or 1"	u	
ű	fiberboard sheathing	crown staple 16 ga., 1 ¹ / ₄ "long	ι	
34	²⁵ / ₃₂ " structural cellulosic	$1^3/_4$ " galvanized roofing nail, $^7/_{16}$ " crown or 1 "	u	
ţ	fiberboard sheathing	crown staple 16 ga., 1 ¹ / ₂ " long	u	
35	1/2" gynslim sheathing ^d	$1^1/_2$ " galvanized roofing nail; staple galvanized,	7	
3	/2" gypsum sneatning	$1^1/_2$ " long; $1^1/_4$ screws, Type W or S		
36	5/2" gyps im shoothing	1 ³ / ₄ " glavanized roofing nail; staple galvanized,	7	
	/8 gypsulli sileadiilig	1 ⁵ / ₈ "long; 1 ⁵ / ₈ "screws, Type W or S	`	
	Wood st	Wood structural panels, combination subfloor underlayment to framing		
	3.	6d deformed (2" \times 0.120") nail or	1	
37	7/4" and less	8d common $(2^1/2'' \times 0.131'')$ nail	6	
30	71 " 1"	8d common $(2^1/2'' \times 0.131'')$ nail or	6	
38	/8 - 1	8d deformed $(2^1/2'' \times 0.120'')$ nail	ď	
30	11, ,, 11, ,,	10d common (3" \times 0.148") nail or	Ć.	
39	1/8"-1/4"	8d deformed $(2^{1}/_{2}" \times 0.120")$ nail	σ	

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Wood structural papels combination subfloor underlargement to framing
wood structural paners, combination submoor underlayment to maining
$^{1/4}$ and less 8d common (2 $^{1}/_{2}$ " × 0.131") nail
38 $7/2''/4''$ 8d common $(2^1/2'' \times 0.131'')$ nail or
$10d \text{ common } (3'' \times 0.148'') \text{ nail or}$
8d deformed $(2^1/2^{"} \times 0.120^{"})$ nail

- 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: 80 ksi for shank diameter of 0.192 inch (20d common nail), 90 ksi for shank diameters larger than 0.142 inch but not larger than 0.177 inch, and 100 ksi for shank diameters of 0.142 inch or less.

 Staples are 16 gage wire and have a minimum 7/16-inch on diameter crown width.

 Nails shall be spaced at not more than 6 inches on center at all supports where spans are 48 inches or greater.

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

 Spacing of fasteners not included in this table shall be based on Table R602.3(2).

 For regions having basic wind speed of 110 mph or greater, 8d deformed (2-1/2"x0.120) 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 25 feet, up to 35 feet maximum.

 When basic wind speed of 100 mph or less, nails for attaching wood structural panel roof sheathing to gable end wall framing shall be spaced 6 inches on center.

 When basic wind speed of 100 mph or less, nails for attaching wood structural panel roof sheathing to gable end wall framing.

 Spacing of fasteners on foor sheathing shall conform to ASTM C 1396 and shall be installed in accordance with GA 253. Fiberboard sheathing shall conform to ASTM C 208.

 Spacing of fasteners on foor sheathing panel edges applies to panel edges supported by framing members and required blocking and at all. floor perimeters only. Spacing of fasteners on foof sheathing panel edges supported by framing members and required blocking and at all. floor perimeters only. Spacing of fasteners on floor sheathing panel edges supported by framing members and required blocking and at all. floor perimeters only sheathing panel edges gable edges supported by framing members and required blocking of roof or floor sheathin

Sole plate to joist or blocking, face nail Sole plate to joist or blocking at braced wall pan Stud to sole plate, toe nail Top or sole plate to stud, end nail Top plates, laps at corners and intersections, face plates, laps at corners and intersections, face nail 1" x 6" sheathing to each bearing, face nail 1" x 8" sheathing to each bearing, face nail Doist to sill or girder, toe nail 2" subfloor to joist or girder, blind and face nail Rim joist to top plate, toe nail (roof applications 2" planks (plank & beam - floor & roof)	Double top Double top	רואויי
Sole plate to joist or blocking, face nail Sole plate to joist or blocking at braced wall panels Stud to sole plate, toe nail Top or sole plate to stud, end nail Top plates, laps at corners and intersections, face nail 1" x 6" sheathing to each bearing, face nail 1" x 8" sheathing to each bearing, face nail wider than 1" x 8" sheathing to each bearing, face nail boist to sill or girder, toe nail "x 6" subfloor or less to each joist, face nail "x 6" subfloor to joist or girder, blind and face nail Rim joist to top plate, toe nail (roof applications also) "planks (plank & beam - floor & roof)	Double top plates, face nail Double top plates, minimum 24-inch offset of end joints, face nail in lapped area	tan mlatan fana mail
16d $(3^{1}/2" \times 0.135")$ 3-16d $(3^{1}/2" \times 0.135")$ 3-8d $(2^{1}/2" \times 0.113")$ or 2-16d $3^{1}/2" \times 0.135")$ 2-16d $(3^{1}/2" \times 0.135")$ 2-16d $(3^{1}/2" \times 0.135")$ 2-8d $(2^{1}/2" \times 0.135")$ 2 staples $1^{3}/4"$ 2-8d $(2^{1}/2" \times 0.113")$ 2 staples $1^{3}/4"$ 2-8d $(2^{1}/2" \times 0.113")$ 3 staples $1^{3}/4"$ 3-8d $(2^{1}/2" \times 0.113")$ 3-8d $(2^{1}/2" \times 0.113")$ 2 staples $1^{3}/4"$ 3-8d $(2^{1}/2" \times 0.113")$ 2 staples $1^{3}/4"$ 3-8d $(2^{1}/2" \times 0.113")$ 2 staples $1^{3}/4"$ 2-16d $(3^{1}/2" \times 0.113")$ 2 staples $1^{3}/4"$ 2-16d $(3^{1}/2" \times 0.113")$ 2-16d $(3^{1}/2" \times 0.113")$	$10d (3" \times 0.128")$ 8-16d $(3^{1}/_{2}" \times 0.135")$	104 /2" v 0 178"\
16" o.c. 16" o.c. ——————————————————————————————————	24" o.c.	34"00

 $^{11}/_{32}$, $^{3}/_{8}$, $^{15}/_{32}$, and $^{1}/_{2}$

Plywood

11/4 ring or screw shank nail-minimum

121/2 ga. (0.099") shank diameter

Staple 18 ga., 7/8, 3/16 crown width

11/4 ring or screw shank nail-minimum

121/2 ga. (0.099") shank diameter

11/2 ring or screw shank nail-minimum

121/2 ga. (0.099") shank diameter

Staple 16 ga. 11/2

6

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6

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6

 $^{1}/_{4}$ and $^{5}/_{16}$

DESCRIPTION^{a,b} OF FASTENER AND LENGTH

SPACING° OF FASTENERS

Floor underlayment; plywood-hardboard-particleboard^f

• •	For SI: 1 inch = 25.4	

¹/₂, ⁵/₈

3/8

1/4

	TABLE	R602.3(3) REQUIR	TABLE R602.3(3) REQUIREMENTS FOR WOOD STRUCTURAL PANEL WALL SHEATH	DD STRUCTURA	L PANEL WALL	SHEATHING U	lING USED TO RESIST WIND PRESSURESa,b,c	WIND PRES	SURES _{a,b,c}	
	MINIMUM NAIL	M NAIL	MINIMUM WOOD	MINIMUM	MAXIMUM WALL STUD SPACING	PANEL NAIL SPACING	L SPACING	MAXIM	MAXIMUM WIND SPEED	3PEED
			PANEL SPAN	PANEL	(inches)				(mph)	
	Sizo	Penetration	RATING	(inches)		Edges	Field	Wind e	Wind exposure category	tegory
	Olze	(inches)		()		(inches o.c.)	(inches o.c.)	В	С	D
6	6d Common(2.0" × 0.113")	1.5	24/0	3/8	16	6	12	110	90	85
0	8d Common(2.5"× 0.131")	1.75	24/16	91/7	16	6	12	130	110	105
					24	6	12	110	90	85

For SI: 1 inch = 25.4 mm, 1 mile per hour = 0.447 m/s.

- Panel strength axis parallel or perpendicular to supports. Three-ply plywood sheathing with studs spaced more than 16 inches on center shall be applied with panel strength axis perpendicular to supports.

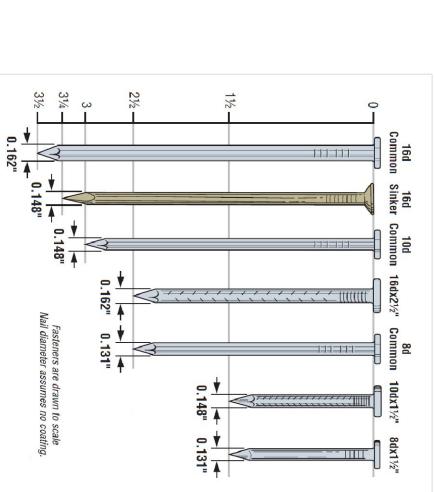
 Table is based on wind pressures acting toward and away from building surfaces per Section R301.2. Lateral bracing requirements shall be in accordance with Section R602.10. Wood Structural Panels with span ratings of Wall-16 or Wall-24 shall be permitted as an alternate to panels with a 24/16 span rating. Wall-16 and Plywood siding 16 oc shall be used with studs spaced a maximum of 16 inches on center.

1/2	3/8			(inch)	THICKNESS	
M-2 Exterior glue	M-1 Exterior glue			GRADE		TABLE R602.3(4) ALLOWABLE SPANS FOR PARTICLEBOARD WALL SHEATHING a
16	16	studs	When siding is nailed to	(incl	STUD SPACING	EBOARD WALL SHEATHINGa
16	•	sheathing	When siding is nailed to	(inches)	PACING	

Wall sheathing not exposed to the weather. If the panels are applied horizontally, the end joints of the panel shall be offset so edges must be supported. Leave a 1/16-inch gap between panels and nail no closer than 3/8 inch from panel edges.

CUSTOMER:

LOCATION:



MEDEEK DESIGN

3050 SR 109 COPALIS BEACH, WA 98535 ph (425) 741-5555

DESIGN.MEDEEK.COM

NOMINAL MATERIAL THICKNESS (inches)

TABLE R602.3(2) ALTERNATE ATTACHMENTS
DESCRIPTION^{a, b} OF FASTENER AND LENGTH

(inches)

SPACING^c OF FASTENERS

Edges Intermediate supports

(inches) (inches)

Wood structural panels subt

oor, roof and wall sheathing to framing and particleboard wall sheathing to framing^f

 $^{23}/_{32}$ and $^{3}/_{4}$

 $^{19}/_{32}$ and $^{5}/_{8}$



 (ω)

NAILS

REVISION HISTORY:	SHEET CONTENTS:		DESIGNED BY:	PLAN NO.				
		FASTENER SCHEDULE	DATE: 7/8/2014	SCALE 1:12	PATIOISIT	revision: <i>I</i>	A.1	