







Production Image: set of the se				3-16d box (3-1/2" × 0.135"); or 2-16d common (3-1/2" × 0.162"); or 3-10d box (3" × 0.128"); or	End nail	
Image: second section of the section of				3-3" × 0.131" nails Wall		28
BUILDENELT Control of the control o		8	Stud to stud (not at braced wall panels)	16d common (3-1/2" × 0.162") 10d box (3" × 0.128"); or	24" o.c. face nail	
EXCLUSION Control of a c			Stud to stud and abutting studs at	3" × 0.131" nails 16d box (3-1/2" × 0.135"); or 3" × 0.131" nails	12" o.c. face nail	29
1 CATEGRED SCALE Stand 4 Source 100 mm		10	wall panels) Built-up header (2" to 2" header with 1/2" spacer)	16d common (3-1/2" × 0.162") 16d common (3-1/2" × 0.162") 16d box (3-1/2" × 0.135")	16" o.c. face nail 16" o.c. each edge face nail 12" o.c. each edge face nail	ITE
NUMBER VITE International State		11	Continuous header to stud	5-8d box (2-1/2" × 0.113"); or 4-8d common (2-1/2" × 0.131"); or 4-10d box (3" × 0.128")	Toe nail	M
Image: Second and a second a		12	Top plate to top plate	16d common (3-1/2" × 0.162") 10d box (3" × 0.128"); or 3" × 0.131" nails	16" o.c. face nail 12" o.c. face nail	30
Inclusion of the second sec		13	Double top plate splice	8-16d common (3-1/2" × 0.162"); or 12-16d box (3-1/2" × 0.135"); or 12-10d box (3" × 0.128"); or 12-3" × 0.131" nails	Face nail on each side of end joint (minimum 24" lap splice length each side of end joint)	3-
In the date by the matching of the date of the		14	Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels)	16d common (3-1/2" × 0.162") 16d box (3-1/2" × 0.135"); or 3" × 0.131" nails	16" o.c. face nail 12" o.c. face nail	- 32
Image: selection of the se		15	Bottom plate to joist, rim joist, band joist or blocking (at braced wall panel)	3-16d box (3-1/2" × 0.135"); or 2-16d common (3-1/2" × 0.162"); or 4-3" × 0.131" nails	3 each 16" o.c. face nail 2 each 16" o.c. face nail 4 each 16" o.c. face nail	33
In the other matching service with the structure and the structure of the str				4-8d box (2-1/2" × 0.113"); or 3-16d box (3-1/2" × 0.135"); or 4-8d common (2-1/2" × 0.131"); or 4-10d box (3" × 0.128"); or	Toe nail	34 3!
1 To prise, set storms and interaction 3 3 3 1		16	Top or bottom plate to stud	3-16d box (3-1/2" × 0.135"); or 2-16d common (3-1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	End nail	36
BUILDEDUCTION BUILDEDUCTION<		17	Top plates, laps at corners and intersections	3-10d box (3" × 0.128"); or 2-16d common (3-1/2" × 0.162"); or 3-3" × 0.131" nails	Face nail	37
Bit of the control Set to set to set to set of the control Set to set to set to set of the control Set to set to set to set of the control Set to set t		18	1" brace to each stud and plate	3-8d box (2-1/2" × 0.113"); or 2-8d common (2-1/2" × 0.131"); or 2-10d box (3" × 0.128"); or 2 staples 1-3/4"	Face nail	30
Bit Start P 20* 0.011101100 Bit Start P 20* 0.011101100 Bit Start P 20* 0.011101100 Bit Start P 20* 0.0111010100 Bit Start P 20* 0.01110100 Bit Start P 20* 0.0111000 Bit S		19	1" × 6" sheathing to each bearing	3-8d box (2-1/2" × 0.113"); or 2-8d common (2-1/2" × 0.131"); or 2-10d box (3" × 0.128"); or 2 staples, 1" crown, 16 ga., 1-3/4" long	Face nail	b.
BECUREMENTS For the strength of				3-8d box (2-1/2" × 0.113"); or 3-8d common (2-1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3 staples, 1" crown, 16 ga., 1-3/4" long	3	с. d. e. f.
ENCLORMENTAL Stricts BRACED WALL LINES SHEATHED WITH WOOD STRUCTURAL PARELS Stricts BRACED WALL LINES SHEATHED WITH STRUCTURAL PARELS Stricts BRACED WALL LINES SHEATHED WITH STRUCTURAL PARELS BRACED WALL PARELS BRACED	REQUIREMENTS	20	1" × 8" and wider sheathing to each bearing	Wider than 1" × 8" 4-8d box (2-1/2" × 0.113"); or 3-8d common (2-1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 4 staples, 1" crown, 16 ga., 1-3/4" long (continued)	Face nail	g. h.
32° FOR BRACED WALL LINES SHEATHED WITH STRUCTURAL FIBERBOARD 1 BETAINCE : 22° FOR BRACED WALL LINES SHEATHED WITH WOOD STRUCTURAL FIBERBOARD HOLD ADOWN DE RANCED WALL LINES SHEATHED WITH WOOD STRUCTURAL FIBERBOARD 1 HOLD ADOWN DE RANCED WALL LINES SHEATHED WITH WOOD STRUCTURAL FIBERBOARD 1 HOLD ADOWN DE RANCED WALL LINES SHEATHED WITH WOOD STRUCTURAL FIBERBOARD 1 HOLD ADOWN DE RANCED WALL LINES SHEATHED WITH WOOD STRUCTURAL FIBERBOARD 1 HOLD ADOWN DE RANCED WALL LINES SHEATHED WITH WOOD STRUCTURAL FIBERBOARD 1 HOLD ADOWN DE RANCED WALL LINES SHEATHED WITH WOOD STRUCTURAL FIBERBOARD 1 HOLD ADOWN DE RANCED WALL LINES SHEATHED WITH WOOD STRUCTURAL FIBERBOARD 1 HETURN BRACED WALL PANEL AT END OF BRACED WALL LINE 1 HETURN BRACED WALL PANEL AT END OF BRACED WALL LINE 1 END CONDITIONT END CONDITIONTS FOR BRACED WALL LINES SALE: 14" = 1:0" WITH CONTINUOUS SHEATHING RE02.10.7	RETURN PANEL: 24" FOR BRACED WALL LINES SHEATHED WITH WOOD STRUCTURAL PANELS					
1 ENDEGONALLINES SHEATHED WITH WOOD STRUCTURAL PARELS 20° FOR BRACED WALL LINES SHEATHED WITH STRUCTURAL PREEBOARD 20° FOR BRACED WALL LINES SHEATHED WITH STRUCTURAL PARELS 20° FOR BRACED WALL LINES SHEATHED WITH STRUCTURAL PARELS 20° FOR BRACED WALL LINES SHEATHED WITH STRUCTURAL PARELS 20° FOR BRACED WALL LINES SHEATHED 20° FOR BRACED WALL LINES SHEATHED 20° FOR BRACED WALL LINES	32" FOR BRACED WALL LINES SHEATHED WITH STRUCTURAL FIBERBOARD DISTANCE D:					i.
Hot-Down Device: Boil bs CAPACITY FASTENED TO THE EDGE OF THE BRACED WALL PANEL CONTINUOUSLY FASTENED TO THE FOUNDATION OF FLOOR FRAMING BELOW Image: Continuously sheathed braced wall panel at the braced wall line Braced wall panel at the pane	24" FOR BRACED WALL LINES SHEATHED WITH WOOD STRUCTURAL PANELS 32" FOR BRACED WALL LINES SHEATHED WITH STRUCTURAL FIBERBOARD					_, _,
Image: Continuously sheathed braced wall line Im	HOLD-DOWN DEVICE: 800 lbs CAPACITY FASTENED TO THE EDGE OF THE BRACED WALL PANEL CLOSEST TO THE CORNER AND TO THE FOUNDATION OR FLOOR FRAMING BELOW					
I END CONDITIONS FOR BRACED WALL LINE SCALE: 1/4" = 1'0"	CONTINUOUSLY SHEATHED BRACED WALL LINE CONTINUOUSLY SHEATHED BRACED WALL LINE	EATHED LINE		HEATHED	CONTINUOUSLY BRACED WAI	SHE
PANEL BRACED WALL PANEL AT END OF BRACED WALL LINE BRACED WALL PANEL AT END OF BRACED WALL LINE BRACED WALL PANEL AT END OF BRACED WALL LINE PANEL PANEL <th></th> <th></th> <th></th> <th>RETURN -</th> <th></th> <th></th>				RETURN -		
END CONDITION 1 HOLD-DOWN	PANEL BRACED WALL PANEL AT END OF BRACED WALL LINE END OF BRACED WALL LINE	PANEL AT D WALL LINE		CED WALL PANEL	D* 10'-0" MAX	\rightarrow
1 END CONDITIONS FOR BRACED WALL LINES WITH CONTINUOUS SHEATHING R602.10.7 SCALE: 1/4" = 1'-0"	END CONDITION 1 DEVICE END CONDITION 2		END CONDITION 3	*SEE REQUIRI	MENTS END CONDITION 4	
	1 END CONDITIONS FOR BRACED WALL LINES SCALE: 1/4" = 1'-0"	V	VITH CONTINUOUS S	HEATHING R602.1	0.7	

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER (a)(b)(c)	SPACING AND LOCATION	
		Roof		
1	Blocking between ceiling joists or rafters to top plate	4-8d box (2-1/2" × 0.113") or 3-8d common (2-1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	Toe nail Per joist, toe nail	
2	Ceiling joists to top plate	4-8d box (2-1/2" × 0.113"); or 3-8d common (2-1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails		
3	Ceiling joist not attached to parallel rafter, laps over partitions (see Section R802.5.2 and Table R802.5.2)	4-10d box (3" × 0.128"); or 3-16d common (3-1/2" × 0.162"); or 4-3" × 0.131" nails	Face nail	
4	Ceiling joist attached to parallel rafter (heel joint) (see Section R802.5.2 and Table R802.5.2)	Table R802.5.2	Face nail	
5	Collar tie to rafter, face nail or 11/4" × 20 ga. ridge strap to rafter	4-10d box (3" × 0.128"); or 3-10d common (3" × 0.148"); or 4-3" × 0.131" nails	Face nail each rafter	
6	Rafter or roof truss to plate	3-16d box nails (3-1/2" × 0.135"); or 3-10d common nails (3" × 0.148"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails	2 toe nails on one side and 1 toe nail on opposite side of each rafter or truss(i)	
	Roof rafters to ridge, valley or hip rafters or roof rafter to	4-16d (3-1/2" × 0.135"); or 3-10d common (3" × 0.148"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails	Toe nail	
7	minimum 2" ridge beam	3-16d box (3-1/2" × 0.135"); or 2-16d common (3-1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	End nail	
		Wall		
	Stud to stud (not at	16d common (3-1/2" × 0.162")	24" o.c. face nail	
8	braced wall panels)	10d box (3" × 0.128"); or 3" × 0.131" nails	16" o.c. face nail	
9	Stud to stud and abutting studs at intersecting wall corners (at braced	16d box (3-1/2" × 0.135"); or 3" × 0.131" nails	12" o.c. face nail	
	wall panels)	16d common (3-1/2" × 0.162")	16" o.c. face nail	
10	Built-up header (2" to 2" header with 1/2" spacer)	16d box (3-1/2" × 0.162")	10" o.c. each edge face nail 12" o.c. each edge face nail	
11	Continuous header to stud	5-8d box (2-1/2" × 0.113"); or 4-8d common (2-1/2" × 0.131"); or 4-10d box (3" × 0.128")	Toe nail	
		16d common (3-1/2" × 0.162")	16" o.c. face nail	
12	Top plate to top plate	10d box (3" × 0.128"); or 3" × 0.131" nails	12" o.c. face nail	
13	Double top plate splice	8-16d common (3-1/2" × 0.162"); or 12-16d box (3-1/2" × 0.135"); or 12-10d box (3" × 0.128"); or	Face nail on each side of end joint (minimum 24" lap splice length each	

FASTENING SCHEDULE IRC 2018 TABLE R602.3(1)

ΞM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER (a)(b)(c) Floor	SPACING AND LOCATI	
1	Joist to sill, top plate or girder	4-8d box (2-1/2" × 0.113"); or 3-8d common (2-1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	Toe nail	
2	Rim joist, band joist or blocking to sill or top plate (roof applications also)	8d box (2-1/2" × 0.113") 8d common (2-1/2" × 0.131"); or 10d box (3" × 0.128"); or	4" o.c. toe nail 6" o.c. toe nail	
3	1" × 6" subfloor or less to each joist	3" × 0.131" nails 3-8d box (2-1/2" × 0.113"); or 2-8d common (2-1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 2 staples 1" crown 16 ga 1 2/4" long	Face nail	
4	2" subfloor to joist or girder	3-16d box (3-1/2" × 0.135"); or 2-16d common (3-1/2" × 0.162")	Blind and face nail	
5	2" planks (plank & beam—floor & roof)	3-16d box (3-1/2" × 0.135"); or 2-16d common (3-1/2" × 0.162")	At each be	aring, face n
6	Band or rim joist to joist	3-16d common (3-1/2" × 0.162") 4-10 box (3" × 0.128"), or 4-3" × 0.131" nails; or 4-3" × 14 ga. staples, 7/16" crown	End nail	
	Built-up girders and beams, 2-inch lumber layers	20d common (4" × 0.192"); or	Nail each layer as follo 32" o.c. at top and bottom and staggered. 24" o.c. face nail at top and bottom staggered opposite sides	
7		10d box (3" × 0.128"); or 3" × 0.131" nails		
		And: 2-20d common (4" × 0.192"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	Face nail at ends and each splice	
8	Ledger strip supporting joists or rafters	4-16d box (3-1/2" × 0.135"); or 3-16d common (3-1/2" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails	At each joist or rafte face nail	
9	Bridging or blocking to joist	2-10d box (3" × 0.128"), or 2-8d common (2-1/2" × 0.131");	Each end, toe nai	
ΞM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER (a)(b) (c)	SPACING C Edges (inches)(h)	F FASTENE Intermedia supports(c) (inches)
Voc	d structural panels, subfloor, roof and interior v [see Table R602.3(3) for wood stru	↓ wall sheathing to framing and particleboa uctural panel exterior wall sheathing to wa	rd wall sheath all framing]	ning to framin
0	3/8" – 1/2"	6d common (2" × 0.113") nail (subfloor, wall)(i) 8d common (2-1/2" × 0.131") nail (roof); or RSRS-01 (2-3/8" × 0.113") nail (roof)(j)	6	12(f)
1	19/32" — 1"	8d common nail (21/2" × 0.131"); or RSRS-01; (2-3/8" × 0.113") nail (roof)(j)	6	12(f)
2	1-1/8" — 1-1/4"	10d common (3" × 0.148") nail; or 8d (21/2" × 0.131") deformed nail	6	12
	Oth	ner wall sheathing(g) 1-1/2" galvanized roofing nail, 7/16"		
3	1/2" structural cellulosic fiberboard sheathing	head diameter, or 1-1/4" long 16 ga. staple with 7/16" or 1" crown	3	6
4	25/32" structural cellulosic fiberboard sheathing	1-3/4" galvanized roofing nail, 7/16" head diameter, or 1-1/2" long 16 ga. staple with 7/16" or 1" crown	3	6
5	1/2" gypsum sheathing(d)	1-1/2" galvanized rooting nail; staple galvanized, 1-1/2" long; 1-1/4" screws, Type W or S	7	7
6	5/8" gypsum sheathing(d)	staple galvanized rooting hail; staple galvanized, 1-5/8" long; 1-5/8" screws, Type W or S	7	7
7	3/4" and less	6d deformed (2" × 0.120") nail; or	6	12
8	7/8" – 1"	8d common (2-1/2" × 0.131") nail; or 8d deformed (2-1/2" × 0.130") nail	6	12
9	1-1/8" — 1-1/4"	10d common (3" × 0.148") nail; or 8d deformed (2-1/2" × 0.120") nail	6	12
N 9 1 1 9 1 1 9 9 9 9 9 9 9 9 9 9 9 9 9	Vails are smooth-common, box or deformed sh heathing connections shall have minimum ave 0.192 inch (20d common nail), 90 ksi for shank 00 ksi for shank diameters of 0.142 inch or les Staples are 16 gage wire and have a minimum Vails shall be spaced at not more than 6 inches Four-foot by 8-foot or 4-foot by 9-foot panels sh Spacing of fasteners not included in this table s For wood structural panel roof sheathing attach nches of roof edges and ridges, nails shall be se ess than 130 mph and shall be spaced 4 inche greater but less than 140 mph. Gypsum sheathing shall conform to ASTM C13 sheathing shall conform to ASTM C208.	hanks except where otherwise stated. Na erage bending yield strengths as shown: a diameters larger than 0.142 inch but not s. 7/16-inch on diameter crown width. s on center at all supports where spans a hall be applied vertically. shall be based on Table R602.3(2). hed to gable end roof framing and to intern spaced at 6 inches on center where the u es on center where the ultimate design wi 296 and shall be installed in accordance v edges applies to panel edges supported b	ils used for fra 30 ksi for sha larger than 0 re 48 inches mediate supp Itimate desig nd speed is 1 with GA 253. I	aming and nk diameter .177 inch, an or greater. oorts within 48 n wind speed 30 mph or Fiberboard embers and
r F F C C C	equired blocking and at floor perimeters only. S edges supported by framing members and requ perpendicular to the framing members need no floor perimeter shall be supported by framing no Where a rafter is fastened to an adjacent parall on one side of the rafter and toe nails from the o on the opposite side of the rafter shall not be re RSRS-01 is a Roof Sheathing Ring Shank nail	Spacing of fasteners on roof sheathing pa ured blocking. Blocking of roof or floor sh t be provided except as required by other nembers or solid blocking. lel ceiling joist in accordance with this sch ceiling joist to top plate in accordance wit equired. meeting the specifications in ASTM F166	anel edges ap eathing pane r provisions o nedule, provic h this schedu	plies to pane I edges If this code. Ie two toe na Ile. The toe n
	HED B 10'-0" N	TINUOUSLY SHEATHED RACED WALL LINE		



