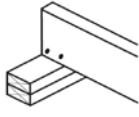
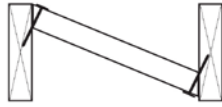


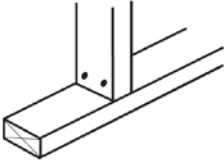

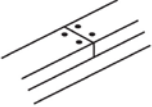
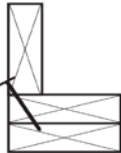
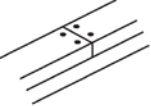
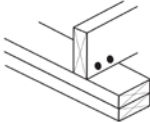




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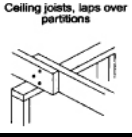
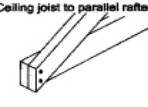

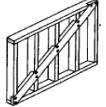
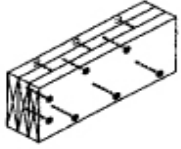
CONNECTION	Gun Nail	Bulk Nail	NUMBER (count)	FASTENING a,m	Location
<b>1. Joist to sill or girder (toe nailed)</b> 	HDB24131	1CA24	3x	2 1/2" x 0.131	Toenail
	HDB30131		3x	3" x 0.131 nails	
			3x	3" 14 gage staples	
<b>2. Bridging to joist</b> (listed number of fasteners at each end) 	HDB24131	1CA24	2x	2 1/2" x 0.131	Toenail each end
	HDB30131		2x	3" x 0.131 nails	
			2x	3" 14 gage staples	
3. 1" x 6" (or less) subfloor to each joist	HDB24131	1CA24	2x	2 1/2" x 0.131	Face nail
4. Wider than 1" x 6" subfloor to each joist	HDB24131	1CA24	3x	2 1/2" x 0.131	Face nail
5. 2" subfloor to joist or girder	HDB34162	1CA34	2x	3 1/2" x 0.162	Blind and face nailed
<b>6. Sole plate to joist or blocking</b>   Sole plate to joist or blocking  At braced wall panel	HDB34135	1CB34	16" o.c	3 1/2" x 0.135	Typical face nail
	HDB30131		8" o.c	3" x 0.131 nails	
			12" o.c	3" 14 gage staples	
	HDB34135	1CB34	3x	3 1/2" x 0.135	Braced wall panels at 16" on center
	HDB30131		4x	3" x 0.131 nails	
			4x	3" 14 gage staples	
<b>7. Top or sole plate to stud (face nail)</b> 	HDB34162	1CB34	2x	3 1/2" x 0.162	End nail
	HDB30131		3x	3" x 0.131 nails	
			3x	3" 14 gage staples	


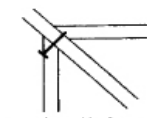
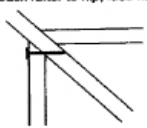

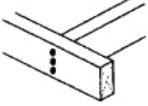
CONNECTION	Gun Nail	Bulk Nail	NUMBER (count)	FASTENING a,m	Location
8. Stud to top or sole plate (toe nail) 	HDB24131	1CA24	4x	2 1/2" x 0.131	Toenail
	HDB30131		4x	3" x 0.131 nails	
			3x	3" 14 gage staples	
	HDB34162	1CA34	2x	3 1/2" x 0.162	End nail
	HDB30131		3x	3" x 0.131 nails	
			3x	3" 14 gage staples	
9. Double studs 	HDB34135	1CB34	24" o.c	3 1/2" x 0.135	Face nail
	HDB30131		8" o.c	3" x 0.131 nails	
			8" o.c	3" 14 gage staples	
10. Double top plates  Cap/top plate labs and intersections 	HDB34135	1CB34	16" o.c	3 1/2" x 0.135	Typical face nail
	HDB30131		12" o.c	3" x 0.131 nails	
			12" o.c	3" 14 gage staples	
	HDB34135	1CA34	4X 2/Side	3 1/2" x 0.162	Lap splice
	HDB30131		6X 3/side	3" x 0.131 nails	
			12	3" 14 gage staples	
11. Blocking between joist or rafters to top plate	HDB24131	1CA24	3	8d common 2 1/2" x 0.131	Toenail
	HDB30131		3	3" x 0.131 nails	
			3	3" 14 gage staples	
12. Rim joist to top plate (toe nailed) 	HDB24131	1CA24	6" o.c	2 1/2" x 0.131	Toenail
	HDB30131		6" o.c	3" x 0.131 nails	
			6" o.c	3" 14 gage staples	
13. Cap/top plate labs and intersections 	HDB34135	1CB35	2x	3 1/2" x 0.162	Face nail
	HDB30131		3x	3" x 0.131 nails	
			3x	3" 14 gage staples	
14. Continuous header, two pieces	HDB34135	1CA34	16" o.c	3 1/2" x 0.162	Along edge
15. Ceiling joist to plate 	HDB24131	1CA24	3x	2 1/2" x 0.131	Toenail
	HDB30131		5x	3" x 0.131 nails	
			5x	3" 14 gage staples	
16. Continuous header to stud	HDB24131	1CA24	4x	2 1/2" x 0.131	Toenail



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CONNECTION	GUN NAIL	BULK NAIL	NUMBER (count)	FASTENING a,m	Location
17. Ceiling joists, laps over partitions See Section 2308.10.4.1, Table 2308.10.4.1	HDB34162	1CA34	3x	3 1/2" x 0.162	Face nail
Ceiling joists, laps over partitions 	HDB30131		4x	3" x 0.131 nails	Face nail
			4x	3" 14 gage staples	
18. Ceiling joists to parallel rafters See Section 2308.10.4.1, Table 2308.10.4.1 Ceiling joist to parallel rafter 	HDB34162	1CA34	3x	3 1/2" x 0.162	Face nail
	HDB30131		4x	3" x 0.131 nails	Face nail
			4x	3" 14 gage staples	
19. Rafter to plate See Section 2308.10.4.1, Table 2308.10.4.1 Roof rafter to plate (top-nailed) 	HDB24131	1CA24	3x	2 1/2" x 0.131	Toenail
	HDB30131		3x	3" x 0.131 nails	
			3x	3" 14 gage staples	
20. 1" diagonal brace to each stud and plate Diagonal bracing 	HDB24131	1CA24	2x	2 1/2" x 0.131	Face nail
	HDB30131		2x	3" x 0.131 nails	
			3x	3" 14 gage staples	
21. 1" x 8" sheathing to each bearing	HDB24131	1CA24	3x	2 1/2" x 0.131	Face nail
22. Wider than 1" x 8" sheathing to each bearing	HDB24131	1CA24	3x	2 1/2" x 0.131	Face nail
23. Built-up corner studs	HDB34162	1CA34	24" o.c	3 1/2" x 0.162	
	HDB30131		16" o.c	3" x 0.131 nails	
			16" o.c	3" 14 gage staples	
24. Built-up girder and beams Built-up Girders and Beams 		1CA40	32" o.c	4" x 0.192	Face nail at top and bottom staggered on opposite sides
	HDB30131		24" o.c	3" x 0.131 nails	
			24" o.c	3" 14 gage staples	
		1CA40	2x	4" x 0.192	Face Nail at ends and at each splice
	HDB30131		3x	3" x 0.131 nails	
			3x	3" 14 gage staples	
25. 2" planks	HDB34162	1CA34		3 1/2" x 0.162	at each bearing

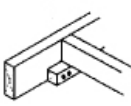
CONNECTION	GUN NAIL	BULK NAIL	NUMBER (count)	FASTENING a,m	Location
26. Collar to rafter 	HDB30148	1CA30	3x	3" x 0.148	Face Nail
	HOB30131		4x	3" x 0.131 nails	
			4x	3" 14 gage staples	
27. Jack rafter to hip  	HDB30148	1CA30	3x	3" x 0.148	Toenail
	HOB30131		4x	3" x 0.131 nails	
			4x	3" 14 gage staples	
	HDB34162	1CA34	2x	3 1/2" x 0.162	Face nail
	HOB30131		3x	3" x 0.131 nails	
			3x	3" 14 gage staples	
28. Roof rafter to 2-by ridge beam  (Only the attachment of the top rafter is illustrated.)	HDB34162	1CA34	2x	3 1/2" x 0.162	Toenail
	HOB30131		3x	3" x 0.131 nails	
			3x	3" 14 gage staples	
	HDB34162	1CA34	2x	3 1/2" x 0.162	Face nail
	HOB30131		3x	3" x 0.131 nails	
			3x	3" 14 gage staples	
29. Joist to band joist 	HDB34162	1CA34	3x	3 1/2" x 0.162	Face nail
	HOB30131		4x	3" x 0.131 nails	
			4x	3" 14 gage staples	

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CONNECTION	Gun Nails	Bulk Nails	NUMBER (count)	FASTENING a,m	Location
30. Ledger strip 	HDB34162	1CA34	3	3 1/2" x 0.162	Face nail at each joist
	HDB30131		4	3" x 0.131 nails	
			4	3" 14 gage staples	
31. Wood structural panels and particleboard b Subfloor, roof and wall sheathing (to Framing)					
1/2" and less	HDB20113 or HDR20113 or HDD20113	1CA20		2" x 0.113 nails	Roof - minimum is 8d (2 3/8" x 0.113) nails
	HDB23113	1CB24		2 3/8" x 0.113 nail n	Roof - 4" o.c at edges, 8" o.c at intermediate
				1 3/4" 16 gage o	Floors & walls - 4" o.c at edges, 8" o.c at intermediate
				1 3/4" 16 gage o	Roof - 3" o.c at edge and 6" o.c at intermediate
19/32 to 3/4"	HDB24131	1CA24		2-1/2" x 0.131 nails	Common (2 1/2" x 0.131)
	HDR20113 or HDD20113			2" x 0.113 nails	Deformed shank (2" x 0.113)
	HDB23113	1CB24		2 3/8" x 0.113 nail p	Spaced 4" o.c at edges, 8" at intermediate
				2" 16 gage p	Spaced 4" o.c at edges, 8" at intermediate
7/8" to 1"	HDB24131 or HDR24131 or HDD24131	1CA24		2-1/2" x 0.131 nails	Common or Deformed (2 1/2" x 0.131)
1 1/8" to 1 1/4"	HDB30148	1CA30		3" x 0.148 nails	Common 10d (3" x 0.148)
	HDR24131 or HDD24131			2-1/2" x 0.131 nails	Deformed 8d (2 1/2" x 0.131)
Single floor (combination subfloor-underlayment to framing)					
3/4" and less	HDR20113 or HDD20113			2" x 0.113 nails	Deformed shank (2" x 0.113)
7/8" to 1"	HDR24131 or HDD24131			2-1/2" x 0.131 nails	Deformed 8d (2 1/2" x 0.131)
1 1/8" to 1 1/4"	HDB30148	1CA30		3" x 0.148 nails	Common 10d (3" x 0.148)
	HDR24131 or HDD24131			2-1/2" x 0.131 nails	Deformed 8d (2 1/2" x 0.131)
32. Panel Siding ( to framing)					
1/2 " or less				6d f (1 7/8" x 0.106)	Corrosion protection required
5/8"				8d f (2 3/8" x 0.128)	Corrosion protection required

CONNECTION	Gun Nails	Bulk Nails	NUMBER (count)	FASTENING a,m	Location
<b>33. Fiberboard sheathing g</b>					
1/2"				No. 11 gage 1 1/2" roofing nail h	Corrosion protection required - 7/16" head
	<b>HDB20113</b>	<b>1CA20</b>		6d common nail (2" x 0.113)	
				No. 16 gage staple l (1 1/4")	Corrosion protection required - 7/16" to 1" crown
3/4" to 25/32"				No. 11 gage 1 3/4" roofing nail h	Corrosion protection required - 7/16" head
	<b>HDB24131</b>	<b>1CA24</b>		8d common nail (2 1/2" x 0.131)	
				No. 16 gage staple l (1 1/2")	Corrosion protection required - 7/16" to 1" crown
<b>34. Interior paneling</b>					
1/4"				N/A	Spaced 6" o.c at edges, 12" o.c at intermediate
3/8"				2" x 0.113 nails	Spaced 6" o.c at edges, 12" o.c at intermediate

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**FOOT NOTES**

For SI: 1" = 25.4 mm

- a. Common or box nails are permitted to be used except where otherwise stated.
- b. Nail spaced at 6 inches on center at edges, 12 inches at intermediate supports, except 6 inches at supports where spans are 48 inches or more. For nailing of wood structural panel and particle board diaphragms and shear walls, refer to section 2305. Nails for walls are permitted to be common, box, or casing.
- c. Common or deformed shank (6d - 2" x .0113", 8d - 2 1/2" x 0.131, 10d - 3" x 0.148")
- d. Common (6d - 2" x 0.113", 8d - 2 1/2" x 0.131, 10d - 3" x 0.148")
- e. Deformed shank (6d - 2" x 0.113", 8d - 2 1/2" x 0.131, 10d - 3" x 0.148")
- f. Corrosion-resistant siding (6d - 1 7/8" x 0.106, 8d - 2 3/8" x 0.128) or casing (6d - 2" x 0.099", 8d - 2 1/2" x 0.113") nail
- g. Fasteners spaced 3 inches on center at exterior edges and 6 inches on center at intermediate supports, when used as structural sheathing. Spacing shall be 6 inches on center on the edges and 12 inches on center at intermediate supports for non structural applications.
- h. Corrosion resistant roofing nails with a 7/16" head and a 1 1/2" length for 1/2" sheathing and 1 3/4" length for 25/32" in sheathing
- i. Corrosion resistant staples with nominal 7/16" crown or 1" crown and 1 1/4" length for 1/2" sheathing and 1 1/2" length for 25/32" sheathing. Panel supports at 16 inches (20 inches if strength axis in the long direction of the panel, unless otherwise marked)
- j. Casing (1 1/2" x 0.080) or finish (1 1/2" x 0.072) nails spaced 6 inches on the panel edges, 12 inches at intermediate supports
- k. Panel supports at 24 inches. Casing or finish nails spaced 6 inches on panel edges, 12 inches at intermediate supports.
- l. For roof sheathing applications, 8d nails (2 1/2" x 0.113") are the minimum required for wood structural panels.
- m. Staples shall have a minimum crown width of 7/16" inch.
- n. Roof sheathing applications, fasteners spaced 4 inches on center at edges, 8 inches at intermediate supports
- o. Fasteners spaced 4 inches on center at edges, 8 inches at intermediate supports for subfloor and wall sheathing and 3 inches on center at edges, 6 inches at intermediate supports for roofing
- p. Fasteners spaced 4 inches on center at edges, 8 inches at intermediate supports

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