

Order Plans

2012 IBC TABLE 2304.9.1  
FASTENING SCHEDULE

CONNECTION	FASTENING <sup>a,m</sup>	LOCATION
1. JOIST TO SILL OR GIRDER	3 - 8d COMMON (2 $\frac{1}{2}$ " x 0.131") 3 - 3" x 0.131" NAILS 3 - 3" 14 GAGE STAPLES	TOENAIL
2. BRIDGING TO JOIST	3 - 8d COMMON (2 $\frac{1}{2}$ " x 0.131") 3 - 3" x 0.131" NAILS 3 - 3" 14 GAGE STAPLES	TOENAIL EACH END
3. 1"x6" SUBFLOOR OR LESS TO EACH JOIST	2 - 8d COMMON (2 $\frac{1}{2}$ " x 0.131")	FACE NAIL
4. WIDER THAN 1"x6" SUBFLOOR TO EACH JOIST	3 - 8d COMMON (2 $\frac{1}{2}$ " x 0.131")	FACE NAIL
5. 2" SUBFLOOR TO JOIST OR GIRDER	2 - 16d COMMON (3 $\frac{1}{2}$ " x 0.162")	BLIND & FACE NAIL
6. SOLE PLATE TO JOIST OR BLOCKING	16d (3 $\frac{1}{2}$ " x 0.135") AT 16" O.C. 3" x 0.131" NAILS AT 8" O.C. 3" 14 GAGE STAPLES AT 12" O.C.	TYPICAL FACE NAIL
SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL	3 - 16d (3 $\frac{1}{2}$ " x 0.135") AT 16" 4 - 3" x 0.131" NAILS AT 16" 4 - 3" 14 GAGE STAPLES PER 16"	BRACED WALL PANELS
7. TOP PLATE TO STUD	2 - 16d COMMON (3 $\frac{1}{2}$ " x 0.162") 3 - 3" x 0.131" NAILS 3 - 3" 14 GAGE STAPLES	END NAIL
8. STUD TO SOLE PLATE	4 - 8d COMMON (2 $\frac{1}{2}$ " x 0.131") 4 - 3" x 0.131" NAILS 3 - 3" 14 GAGE STAPLES 2 - 16d COMMON (3 $\frac{1}{2}$ " x 0.162") 3 - 3" x 0.131" NAILS 3 - 3" 14 GAGE STAPLES	TOENAIL END NAIL
9. DOUBLE STUDS	16d (3 $\frac{1}{2}$ " x 0.135") AT 24" O.C. 3" x 0.131" NAILS AT 8" O.C. 3" 14 GAGE STAPLES AT 8" O.C.	FACE NAIL
10. DOUBLE TOP PLATES	16d (3 $\frac{1}{2}$ " x 0.135") AT 16" O.C. 3" x 0.131" NAILS AT 12" O.C. 3" 14 GAGE STAPLES AT 12" O.C.	TYPICAL FACE NAIL
DOUBLE TOP PLATES	8 - 16d COMMON (3 $\frac{1}{2}$ " x 0.162") 12 - 3" x 0.131" NAILS 12 - 3" 14 GAGE STAPLES	LAP SPLICE
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3 - 8d COMMON (2 $\frac{1}{2}$ " x 0.131") 3 - 3" x 0.131" NAILS 3 - 3" 14 GAGE STAPLES	TOENAIL
12. RIM JOIST TO TOP PLATE	8d (2 $\frac{1}{2}$ " x 0.131") AT 6" O.C. 3" x 0.131" NAIL AT 6" O.C. 3" 14 GAGE STAPLE AT 6" O.C.	TOENAIL
13. TOP PLATES, LAPS & INTERSECTIONS	2 - 16d COMMON (3 $\frac{1}{2}$ " x 0.162") 3 - 3" x 0.131" NAILS 3 - 3" 14 GAGE STAPLES	FACE NAIL
14. CONTINUOUS HEADER, TWO PIECES	16d COMMON (3 $\frac{1}{2}$ " x 0.162")	16" O.C. ALONG EDGE
15. CEILING JOISTS TO PLATE	3 - 8d COMMON (2 $\frac{1}{2}$ " x 0.131") 4 - 3" x 0.131" NAILS 4 - 3" 14 GAGE STAPLES	TOENAIL
16. CONTINUOUS HEADER TO STUD	4 - 8d COMMON (2 $\frac{1}{2}$ " x 0.131")	TOENAIL
17. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SECT. 2308.10.4.1, TABLE 2308.10.4.1)	3 - 16d COMMON (3 $\frac{1}{2}$ " x 0.162") MINIMUM, TABLE 2308.10.4.1 4 - 3" x 0.131" NAILS 4 - 3" 14 GAGE STAPLES	FACE NAIL
18. CEILING JOISTS TO PARALLEL RAFTERS (SEE SECT. 2308.10.4.1, TABLE 2308.10.4.1)	3 - 16d COMMON (3 $\frac{1}{2}$ " x 0.162") MINIMUM, TABLE 2308.10.4.1 4 - 3" x 0.131" NAILS 4 - 3" 14 GAGE STAPLES	FACE NAIL
19. RAFTER TO PLATE (SEE SECT. 2308.10.1, TABLE 2308.10.1)	3 - 8d COMMON (2 $\frac{1}{2}$ " x 0.131") 3 - 3" x 0.131" NAILS 3 - 3" 14 GAGE STAPLES	TOENAIL
20. 1" DIAGONAL BRACE TO EACH STUD & PLATE	2 - 8d COMMON (2 $\frac{1}{2}$ " x 0.131") 2 - 3" x 0.131" NAILS 2 - 3" 14 GAGE STAPLES	FACE NAIL
21. 1"x6" SHEATHING TO EACH BEARING WALL	3 - 8d COMMON (2 $\frac{1}{2}$ " x 0.131")	FACE NAIL
22. WIDER THAN 1"x6" SHEATHING TO EACH BEARING	3 - 8d COMMON (2 $\frac{1}{2}$ " x 0.131")	FACE NAIL
23. BUILT-UP CORNER STUDS	16d COMMON (3 $\frac{1}{2}$ " x 0.162") 3" x 0.131" NAILS 3" 14 GAGE STAPLES	24" O.C. 16" O.C. 16" O.C.

2012 IBC TABLE 2304.9.1 - CONTINUED  
FASTENING SCHEDULE

CONNECTION	FASTENING <sup>a,m</sup>	LOCATION
24. BUILT-UP GIRDER & BEAMS	20d COMMON (4" x 0.192") 32" O.C. 3" x 0.131" NAIL AT 24" O.C. 3" 14 GAGE STAPLE AT 24" O.C.	FACE NAIL AT TOP & BOTTOM STAGGERED ON OPPOSITE SIDES
	2 - 20d COMMON (4" x 0.192") 3 - 3" x 0.131" NAILS 3 - 3" 14 GAGE STAPLES	FACE NAIL AT ENDS AND AT EACH SPLICE
25. 2" PLANKS	16d COMMON (3 $\frac{1}{2}$ " x 0.162")	AT EACH BEARING
26. COLLAR TIE TO RAFTER	3 - 10d COMMON (3" x 0.148") 4 - 3" x 0.131" NAILS 4 - 3" 14 GAGE STAPLES	FACE NAIL
27. JACK RAFTER TO HP	3 - 10d COMMON (3" x 0.148") 4 - 3" x 0.131" NAILS 4 - 3" 14 GAGE STAPLES 2 - 16d COMMON (3 $\frac{1}{2}$ " x 0.162") 3 - 3" x 0.131" NAILS 3 - 3" 14 GAGE STAPLES	TOENAIL FACE NAIL
28. ROOF RAFTER TO 2-BY RIDGE BEAM	2 - 16d COMMON (3 $\frac{1}{2}$ " x 0.162") 3 - 3" x 0.131" NAILS 3 - 3" 14 GAGE STAPLES 2 - 8d COMMON (2 $\frac{1}{2}$ " x 0.131") 3 - 3" x 0.131" NAILS 3 - 3" 14 GAGE STAPLES	TOENAIL FACE NAIL
29. JOIST TO BAND JOIST	3 - 16d COMMON (3 $\frac{1}{2}$ " x 0.162") 4 - 3" x 0.131" NAILS 4 - 3" 14 GAGE STAPLES	FACE NAIL
30. LEDGER STRIP	3 - 16d COMMON (3 $\frac{1}{2}$ " x 0.162") 4 - 3" x 0.131" NAILS 4 - 3" 14 GAGE STAPLES	FACE NAIL AT EACH JOIST
31. WOOD STRUCTURAL FRAMING & PARTICLEBOARD <sup>b</sup> SUBFLOOR, ROOF & WALL SHEATHING (TO FRAMING)	1/2" AND LESS 2 $\frac{1}{2}$ " x 0.113 NAIL <sup>1</sup> 1 $\frac{1}{2}$ " 16 GAGE <sup>2</sup> 3/8" TO 3/4" 8d <sup>3</sup> OR 6d <sup>4</sup> 2 $\frac{1}{2}$ " x 0.113 NAIL <sup>1</sup> 2" 16 GAGE <sup>2</sup> 3/4" TO 1" 8d <sup>3</sup> 1/2" AND LESS 3/4" TO 1" 1 $\frac{1}{2}$ " TO 1 $\frac{1}{4}$ " 10d <sup>3</sup> OR 8d <sup>4</sup>	
SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	1/2" OR LESS 3/4" 3/4" AND LESS 3/4" TO 1" 1 $\frac{1}{2}$ " TO 1 $\frac{1}{4}$ " 10d <sup>3</sup> OR 8d <sup>4</sup>	
32. PANEL SIDING (TO FRAMING)	1/2" OR LESS 3/4"	6d <sup>5</sup> 8d <sup>6</sup>
33. FIBERBOARD SHEATHING <sup>9</sup>	1/2" 3/8"	NO. 11 GAGE ROOFING NAIL <sup>h</sup> 6d COMMON NAIL (2"x0.113") NO. 16 GAGE STAPLE <sup>1</sup> NO. 11 GAGE ROOFING NAIL <sup>h</sup> 8d COMMON NAIL (2 $\frac{1}{2}$ "x0.131") NO. 16 GAGE STAPLE <sup>1</sup>
34. INTERIOR PANELING	1/2" 3/8"	4d <sup>7</sup> 6d <sup>8</sup>

- FOR SE: 1 INCH = 25.4 MM.
- a. COMMON OR BOX NAILS ARE PERMITTED TO BE USED EXCEPT WHEN OTHERWISE STATED.
  - b. NAILS 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, PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
  - c. COMMON OR DEFORMED SHANK (6d - 2"x0.113"; 8d - 2 $\frac{1}{2}$ "x0.131"; 10d - 3"x0.148").
  - d. COMMON (6d - 2"x0.113"; 8d - 2 $\frac{1}{2}$ "x0.131"; 10d - 3"x0.148").
  - e. DEFORMED SHANK (6d - 2"x0.113"; 8d - 2 $\frac{1}{2}$ "x0.131"; 10d - 3"x0.148").
  - f. CORROSION-RESISTANT SIDING (6d - 1 $\frac{1}{2}$ "x0.106"; 8d - 2 $\frac{1}{2}$ "x0.128") OR CASING (6d - 2"x0.099"; 8d - 2 $\frac{1}{2}$ "x0.113") 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 NONSTRUCTURAL APPLICATIONS.
  - h. CORROSION-RESISTANT ROOFING NAILS WITH 3/8-INCH DIAMETER HEAD AND 1 $\frac{1}{2}$ -INCH LENGTH FOR 1/2-INCH SHEATHING AND 1 $\frac{1}{2}$ -INCH LENGTH FOR 3/8-INCH SHEATHING.
  - i. CORROSION-RESISTANT STAPLES WITH NOMINAL 3/8-INCH CROWN AND 1 $\frac{1}{2}$ -INCH LENGTH FOR 1/2-INCH SHEATHING AND 1 $\frac{1}{2}$ -INCH LENGTH FOR 3/8-INCH SHEATHING. PANEL SUPPORTS AT 16 INCHES (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
  - j. CASING (1 $\frac{1}{2}$ "x0.087) OR FINISH (1 $\frac{1}{2}$ "x0.072) NAILS SPACED 6 INCHES ON PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORT.
  - 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 $\frac{1}{2}$ "x0.113") ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS.
  - m. STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 3/8-INCH.
  - n. FOR 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 ROOF SHEATHING.
  - p. FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS.

Description	Date

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for  
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NOTES

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