

## TABLE 2304.10.1 FASTENING SCHEDULE GUIDE

| CONNECTION   | FASTENING <sup>a,m</sup>   | LOCATION                                    |
|--|--|---|
| 1. Joist to sill or girder   | 3- 8d common (2-1/2"x0.131")<br>3- 3"x0.131" nails<br>3- 3" 14-gauge staples   | toenail                                     |
| 2. Bridging to joist   | 2- 8d common (2-1/2"x0.131")<br>2- 10d box ("x0.128") nails<br>2- 3" 14-gauge staples  | toenail each end                            |
| 3. 1"x6" subfloor or less to each joist  | 2- 8d common (2-1/2"x0.131")<br>2- 10d box (3"x0.128")   | face nail                                   |
| 4. Wider than 1"x6" subfloor to each joist   | 3- 8d common (2-1/2"x0.131")   | face nail                                   |
| 5. 2" subfloor to joist or girder  | 2- 16d common (3-1/2"x0.162")  | blind and face nail                         |
| 6. Sole plate to joist or blocking<br><br>Sole plate to joist or blocking at braced wall panel | 16d (3-1/2"x0.135") at 16" o.c.<br>3"x0.131" nails at 8" o.c.<br>3" 14-gauge staples at 12" o.c.<br><br>3" 16d (3-1/2"x0.135") at 16"<br>4- 3"x0.131" nails at 16"<br>4- 3" 14-gauge staples per 16" | typical face nail<br><br>braced wall panels |
| 7. Top plate to stud   | 2- 16d common (3-1/2"x0.162")<br>3- 3"x0.131" nails<br>3- 3" 14-gauge staples  | end nail                                    |
| 8. Stud to sole plate  | 4- 8d common (2-1/2"x0.131")<br>4- 3"x0.131" nails<br>3- 3" 14-gauge staples<br><br>2- 16d common (3-1/2"x0.162")<br>3- 3"x0.131" nails<br>3- 3" 14-gauge staples                                    | toenail<br><br>end nail                     |
| 9. Double studs  | 16d (3-1/2"x0.135") at 24" o.c.<br>3"x0.131" nails at 8" o.c.<br>3" 14-gauge staples at 8" o.c.  | face nail                                   |
| 10. Double top plates<br><br>Double top plates   | 16d (3-1/2"x0.135") at 16" o.c.<br>3"x0.131" nails at 12" o.c.<br>3" 14-gauge staples at 12" o.c.<br><br>8- 16d common (3-1/2"x0.162")<br>12- 3"x0.131" nails<br>12- 3" 14-gauge staples             | typical face nail<br><br>lap splice         |
| 11. Blocking between joists or rafters to top plate  | 3- 8d common (2-1/2"x0.131")<br>3- 3"x0.131" nails<br>3- 3" 14-gauge staples   | toenail                                     |
| 12. Rim joist to top plate   | 8d (2-1/2"x0.131") at 6" o.c.<br>3"x0.131" nails at 6" o.c.<br>3" 14-gauge staples at 6" o.c.  | toenail                                     |
| 13. Top plates, laps and intersections   | 2- 16d common (3-1/2"x0.162")<br>3- 3"x0.131" nails<br>3- 3" 14-gauge staples  | face nail                                   |
| 14. Continuous header, two pieces  | 16d common (3-1/2"x0.162")   | 16" o.c. along edge                         |
| 15. Ceiling joists to plate  | 3- 8d common (2-1/2"x0.131")<br>5- 3"x0.131" nails<br>5- 3" 14-gauge staples   | toenail                                     |
| 16. Continuous header to stud  | 4- 8d common (2-1/2"x0.131")   | toenail                                     |
| 17. Ceiling joists, laps over partitions<br>(See Sect. 2308.10.4.1, Table 2308.10.4.1)         | 3- 16d common (3-1/2"x0.162")<br>minimum, Table 2308.10.4.1<br>4- 3"x0.131" nails<br>4- 3" 14-gauge staples  | face nail                                   |
| 18. Ceiling joists to parallel rafters<br>(See Sect. 2308.10.4.1, Table 2308.10.4.1)           | 3- 16d common (3-1/2"x0.162")<br>minimum, Table 2308.10.4.1<br>4- 3"x0.131" nails<br>4- 3" 14-gauge staples  | face nail                                   |
| 19. Rafter to plate<br>(See Sect. 2308.10.1, Table 2308.10.1)                                  | 3- 8d common (2-1/2"x0.131")<br>3- 3"x0.131" nails<br>3- 3" 14-gauge staples   | toenail                                     |

TABLE 2304.10.1 GUIDE—continued

| CONNECTION  | FASTENING <sup>a,m</sup>   | LOCATION  |
|---|--|---|
| 20. 1" diagonal brace to each stud and plate  | 2- 8d common (2-1/2"x0.131")<br>2- 3"x0.131" nails<br>2- 3" 14-gauge staples   | face nail   |
| 21. 1"x8" sheathing to each bearing   | 3- 8d common (2-1/2"x0.131")   | face nail   |
| 22. Wider than 1"x8" sheathing to each bearing  | 3- 8d common (2-1/2"x0.131")   | face nail   |
| 23. Built-up corner studs   | 16d common (3-1/2"x0.162")<br>3"x0.131" nails<br>3" 14-gauge staples   | 24" o.c.<br>16" o.c.<br>16" o.c.  |
| 24. Built-up girder and beams   | 20d common (4"x0.192") 32" o.c.<br>3"x0.131" nails at 24" o.c.<br>3" 14-gauge staples at 24" o.c.<br><br>2- 20d common (4"x0.192")<br>3- 3"x0.131" nails<br>3- 3" 14-gauge staples   | face nail at top and bottom staggered on opposite sides<br><br>face nail at ends and at each splice |
| 25. 2" planks   | 16d common (3-1/2"x0.162")   | at each bearing   |
| 26. Collar tie to rafter  | 3- 10d common (3"x0.148")<br>4- 3"x0.131" nails<br>4- 3" 14-gauge staples  | face nail   |
| 27. Jack rafter to hip  | 3- 10d common (3"x0.148")<br>4- 3"x0.131" nails<br>4- 3" 14-gauge staples<br><br>2- 16d common (3-1/2"x0.162")<br>3- 3"x0.131" nails<br>3- 3" 14-gauge staples   | toenail<br><br>face nail  |
| 28. Roof rafter to 2-by ridge beam  | 2- 16d common (3-1/2"x0.162")<br>3- 3"x0.131" nails<br>3- 3" 14-gauge staples<br><br>2- 16d common (3-1/2"x0.162")<br>3- 3"x0.131" nails<br>3- 3" 14-gauge staples   | toenail<br><br>face nail  |
| 29. Joist to band joist   | 3- 16d common (3-1/2"x0.162")<br>4- 3"x0.131" nails<br>4- 3" 14-gauge staples  | face nail   |
| 30. Ledger strip  | 3- 16d common (3-1/2"x0.162")<br>4- 3"x0.131" nails<br>4- 3" 14-gauge staples  | face nail   |
| 31. Wood structural panels and particleboard <sup>b</sup><br>Subfloor, roof and wall sheathing (to framing) | 1/2" and less 6d <sup>d</sup><br>2-3/8"x0.113" nail <sup>e</sup><br>1-3/4" 16-gauge <sup>o</sup><br>19/32" to 3/4" 8d <sup>d</sup> or 6d <sup>e</sup><br>2-3/8"x0.113" nail <sup>p</sup><br>2" 16-gauge <sup>p</sup><br>7/8" to 1" 8d <sup>e</sup><br>1-1/8" to 1-1/4" 10d <sup>d</sup> or 8d <sup>d</sup> |   |
| Single floor (combination subfloor-underlayment to framing)   | 3/4" and less 6d <sup>e</sup><br>7/8" to 1" 8d <sup>e</sup><br>1-1/8" to 1-1/4" 10d <sup>d</sup> or 8d <sup>e</sup>  |   |
| 32. Panel siding (to framing)   | 1/2" or less 6d <sup>f</sup><br>5/8" 8d <sup>f</sup>   |   |
| 33. Fiberboard sheathing <sup>g</sup>   | 1/2" No. 11-gauge roofing nail <sup>h</sup><br>6d common nail (2"x0.113")<br>No. 16-gauge staple <sup>i</sup><br><br>25/32" No. 11-gauge roofing nail <sup>h</sup><br>8d common nail (2-1/2"x0.131")<br>No. 16-gauge staple <sup>i</sup>   |   |
| 34. Interior paneling   | 1/4" 4d <sub>j</sub><br>3/8" 6d <sup>k</sup>   |   |