

**TABLE 2304.8.1 FASTENING SCHEDULE**

CONNECTION	FASTENINGS <sup>a</sup>	LOCATION
1. Joist to sill or girder	3-8d common (2 1/2" x 0.131") 2-3" x 0.131" nails 3-3" 14 gage staples	beams
2. Bridging to joist	2-8d common (2 1/2" x 0.131") 2-3" x 0.131" nails 2-3" 14 gage staples	beams each end
3. 1" x 6" subfloor or less to each joist	2-8d common (2 1/2" x 0.131")	face used
4. Wider than 1" x 6" subfloor to each joist	3-8d common (2 1/2" x 0.131")	face used
5. 2" subfloor to joist or girder	2-16d common (3 1/2" x 0.162")	blind and face nail
6. Sole plate to joist or blocking	16d (3 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 beamed wall gable	3-16d (3 1/2" x 0.135") at 16" 4-3" x 0.131" nails at 16" 4-3" 14 gage staples per 16"	beamed wall gable
7. Top plate to stud	2-16d common (3 1/2" x 0.162") 3-3" x 0.131" nails 3-3" 14 gage staples	end nail
8. Stud to wall plate	4-8d common (2 1/2" x 0.131") 4-3" x 0.131" nails 3-3" 14 gage staples	beams
9. Double studs	2-16d common (3 1/2" x 0.162") 3-3" x 0.131" nails 3-3" 14 gage staples	roof used
10. Double studs	16d (3 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
11. Double top plates	16d (3 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 1/2" x 0.162") 12-3" x 0.131" nails 12-3" 14 gage staples	top spline
12. Blocking between joists or rafters to top plate	3-8d common (2 1/2" x 0.131") 3-3" x 0.131" nails 3-3" 14 gage staples	beams
13. Rins joist to top plate	8d (2 1/2" x 0.131") at 6" o.c. 3" x 0.131" nails at 6" o.c. 3" 14 gage staples at 6" o.c.	beams
14. Top plates, laps and intersections	2-16d common (3 1/2" x 0.162") 3-3" x 0.131" nails 3-3" 14 gage staples	face nail
15. Conditioner header, two plates	16d common (3 1/2" x 0.162")	16" o.c. along edge
16. Ceiling joist to plate	3-8d common (2 1/2" x 0.131") 4-3" x 0.131" nails 3-3" 14 gage staples	beams
17. Conditioner header to stud	4-8d common (2 1/2" x 0.131")	beams

**TABLE 2304.8.1—continued FASTENING SCHEDULE**

CONNECTION	FASTENINGS <sup>a</sup>	LOCATION
17. Ceiling joist, laps over partition (see Section 2306.10.4.1, Table 2306.10.4.1)	3-16d common (3 1/2" x 0.162") minimum, Table 2306.10.4.1 4-3" x 0.131" nails 4-3" 14 gage staples	face nail
18. Ceiling joist to parallel rafters (see Section 2306.10.4.1, Table 2306.10.4.1)	3-16d common (3 1/2" x 0.162") minimum, Table 2306.10.4.1 4-3" x 0.131" nails 4-3" 14 gage staples	face nail
19. Rafter to plate (see Section 2306.10.1, Table 2306.10.1)	3-8d common (2 1/2" x 0.131") 3-3" x 0.131" nails 3-3" 14 gage staples	beams
20. 1" diagonal brace to each stud and plate	2-8d common (2 1/2" x 0.131") 2-3" x 0.131" nails 1-3" 14 gage staples	face nail
21. 1" x 8" sheathing to each bearing	3-8d common (2 1/2" x 0.131")	face nail
22. Wider than 1" x 8" sheathing to each bearing	3-8d common (2 1/2" x 0.131")	face nail
23. Built-up corner studs	16d common (3 1/2" x 0.162") 3" x 0.131" nails 3" 14 gage staples	16" o.c. 16" o.c. 16" o.c.
24. Built-up girder and beams	16d common (3 1/2" x 0.162") 32" o.c. 3" x 0.131" nails at 24" o.c. 3" 14 gage staples at 24" o.c. 2-20d common (4" x 0.192") 3-3" x 0.131" nails 3-3" 14 gage staples	face nail at top and bottom staggered on opposite sides face nail at ends and at each splice
25. 2" planks	16d common (3 1/2" x 0.162")	at each bearing
26. Ceiling tie to ceiling	3-10d common (3" x 0.148") 4-3" x 0.131" nails 4-3" 14 gage staples	face nail
27. Jack rafter to hip	3-10d common (3" x 0.148") 4-3" x 0.131" nails 4-3" 14 gage staples	beams
28. Roof rafter to 2-by ridge beam	2-16d common (3 1/2" x 0.162") 3-3" x 0.131" nails 3-3" 14 gage staples	beams
29. Joist to beam joist	2-16d common (3 1/2" x 0.162") 4-3" x 0.131" nails 3-3" 14 gage staples	face nail

**TABLE 2304.8.1—continued FASTENING SCHEDULE**

CONNECTION	FASTENINGS <sup>a</sup>	LOCATION
30. Ledger strips	3-16d common (3 1/2" x 0.162") 4-3" x 0.131" nails 4-3" 14 gage staples	face nail
31. Wood structural panels and particleboard <sup>b</sup> Subfloor, roof and wall sheathing (to framing)	3/8" nail less 2 1/2" x 0.113" nails 1 1/2" 16 gage <sup>c</sup> 3/8" or 5/8" 2 1/2" x 0.113" nails <sup>d</sup> 2" 16 gage <sup>e</sup>	
Single floor (combination subfloor-underlayment to framing)	3/8" to 1" 16d or 8d <sup>f</sup> 3/8" nail less 3/8" to 1" 16d or 8d <sup>f</sup>	
32. Panel siding (to framing)	3/8" or less 3/8" 3/8" to 1 1/2"	6d <sup>g</sup> 6d <sup>g</sup> 16d or 8d <sup>f</sup>
33. Fiberglass sheathing <sup>h</sup>	3/8"	No. 11 gage roofing nail <sup>i</sup> 6d common nail (2" x 0.113") No. 10 gage <sup>j</sup> No. 11 gage roofing nail <sup>i</sup> 8d common (2 1/2" x 0.131") 3" 14 gage staples
34. Interior paneling	3/8"	6d <sup>g</sup> 6d <sup>g</sup>

For SI: 1 inch = 25.4 mm.  
a. Common or box nails are permitted to be used where otherwise stated.  
b. Nails spaced at 6 inches on center at edges, 12 inches at intermediate supports, unless otherwise specified. For roofing of wood structural panels and particleboard sheathing, nails at supports where spans are 48 inches or more. For roofing of wood structural panels and particleboard sheathing, nails at supports where spans are 48 inches or more. For roofing of wood structural panels and particleboard sheathing, nails at supports where spans are 48 inches or more. For roofing of wood structural panels and particleboard sheathing, nails at supports where spans are 48 inches or more.  
c. Common or deformed steel 16d - 2" x 0.113" nails, 29" x 0.113" nails, 16d - 2" x 0.113" nails.  
d. Common 6d - 2" x 0.113" nails, 29" x 0.113" nails, 16d - 2" x 0.113" nails.  
e. Deformed steel 16d - 2" x 0.113" nails, 29" x 0.113" nails, 16d - 2" x 0.113" nails.  
f. Common 16d - 2" x 0.113" nails, 29" x 0.113" nails, 16d - 2" x 0.113" nails.  
g. Fasteners spaced 3 inches on center at edges, 6 inches on center at intermediate supports, unless stated otherwise.  
h. Fiberglass sheathing shall be installed with 3/8" diameter fasteners and 3/4" inch length for 3/8" inch sheathing and 1 1/2" inch length for 3/4" inch sheathing. Panels shall be installed with 3/8" diameter fasteners and 3/4" inch length for 3/8" inch sheathing and 1 1/2" inch length for 3/4" inch sheathing. Panels shall be installed with 3/8" diameter fasteners and 3/4" inch length for 3/8" inch sheathing and 1 1/2" inch length for 3/4" inch sheathing. Panels shall be installed with 3/8" diameter fasteners and 3/4" inch length for 3/8" inch sheathing and 1 1/2" inch length for 3/4" inch sheathing.  
i. Panels less than 120 inches in length shall be installed with 3/8" diameter fasteners and 3/4" inch length for 3/8" inch sheathing and 1 1/2" inch length for 3/4" inch sheathing. Panels less than 120 inches in length shall be installed with 3/8" diameter fasteners and 3/4" inch length for 3/8" inch sheathing and 1 1/2" inch length for 3/4" inch sheathing.  
j. Common 10d - 2" x 0.092" nails for 3/8" x 0.072" nails spaced 6 inches on panel edges, 12 inches at intermediate supports.  
k. Panels less than 120 inches in length shall be installed with 3/8" diameter fasteners and 3/4" inch length for 3/8" inch sheathing and 1 1/2" inch length for 3/4" inch sheathing. Panels less than 120 inches in length shall be installed with 3/8" diameter fasteners and 3/4" inch length for 3/8" inch sheathing and 1 1/2" inch length for 3/4" inch sheathing.  
l. For roof applications, fasteners spaced 4 inches on center at edges, 8 inches at intermediate supports.  
m. For wall applications, fasteners spaced 4 inches on center at edges, 8 inches at intermediate supports, and 3 inches on center at interior supports.  
n. For roof applications, fasteners spaced 4 inches on center at edges, 8 inches at intermediate supports, and 3 inches on center at interior supports.  
o. For wall applications, fasteners spaced 4 inches on center at edges, 8 inches at intermediate supports, and 3 inches on center at interior supports.  
p. Fasteners spaced 3 inches on center at edges, 6 inches at intermediate supports.

**FASTENING SCHEDULE**

SPECIAL INSPECTIONS LIST IS REMOVED

FRAMING NOTES IS REMOVED

CEILING JOIST SPANS FOR COMMON LUMBER SPECIES (UNINHABITABLE ATTIC WITHOUT STORAGE, LIVE LOAD = 10 PSF, L/Δ = 240) DEAD LOAD = 5 PSF

CEILING JOIST SPACING	SPECIES AND GRADE	MEMBER SIZE	MAXIMUM CEILING JOIST SPAN FEET - INCHES
16"	SOUTHERN PINE #2	2"x6"	11'-3"
16"	SOUTHERN PINE #2	2"x8"	17'-8"
16"	SOUTHERN PINE #2	2"x10"	23'-4"
16"	SOUTHERN PINE #2	2"x12"	26'-0" CHECK SOURCES FOR AVAILABILITY

	HEIGHT FEET	SIZE INCHES	SPACING INCHES	NOTE
SUPPORTING ROOF AND CEILING ONLY	< 10'-0"	2" x 6"	16"	UNLESS NOTED OTHERWISE

NOTE: ALL WOOD MEMBERS ARE SOUTHERN PINE #2 WITH F'B = 1500 PSI (MIN.) GIRDER SPANS AND HEADER SPANS FOR EXTERIOR BEARING WALLS

GIRDER AND HEADERS SUPPORTING	SPAN	NUMBER OF JACK STUDS	NUMBER OF FULL HEIGHT JAMB STUDS	BUILDING WIDTH
ROOF AND CEILING	(3) 2"x12"	< 10'-0"	2	44'-6"

NOTE: OTHER GIRDER SPANS AND HEADER SPANS NOT LISTED HERE ARE DESIGNED FOR APPROPRIATE LOADS WHICH ARE NOT LISTED IN THE CODE TABLES

RELEASED FOR CONSTRUCTION

**REVISIONS**  
Date 1-17-2021  
Date 3-23-2021

THIS DOCUMENT, THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF WYNNE L. WARNER ARCHITECT AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF WYNNE L. WARNER ARCHITECT.

**WYNNE L. WARNER ARCHITECT**  
5292 CAMDEN LAKE PARKWAY  
ACWORTH, GA 30101  
(770) 967-6638

Sai Ram Consultants, Inc. (Structural Engineers)  
1230 Nash Lee Drive,  
Lilburn GA 30047  
Ph. 678-409-0405  
Ph. 404-456-3556  
msrkulkarni@gmail.com  
www.sai-ram-structural-engineers.com

**DUNKIN DONUTS**  
3020 FIVE FORKS TRICKUM ROAD  
LILBURN, GA 30047

Drawn By: W/LW  
Checked By: W/SK  
Date: August 3, 2020  
Job No.: 2020-2019-113  
Drawing Number

**S00.1**