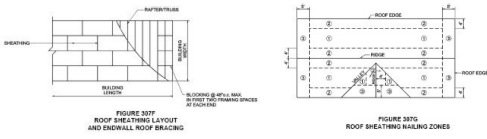


| | |
|------------|----|
| REVISIONS: | BY |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |



307.4 ROOF SHEATHING
307.4.1 Roof Sheathing Thickness: Roof sheathing shall be a minimum of 15/32-inch Exposure 1 wood structural panels installed in accordance with Figure 307F. Long dimension shall be perpendicular to framing and end joints shall be staggered.
EXCEPTION: Where stronger or weaker roof diaphragms are required (See 307.5).
307.4.2 Roof Sheathing Spans: Roof framing shall be spaced such that the sheathing spans do not exceed those specified in Table 2307.6B of the Standard Building Code. In no case shall spacing exceed span ratings shown on sheathing panels.
307.4.3 Sheathing Fastenings: Sheathing shall be fastened to roof framing with 8d common or 8d hot dipped galvanized box nails at 6 inches o.c. at edges and 6 inches o.c. at intermediate framing
EXCEPTIONS: (See Figure 307G for nailing zones).
 1. Use 8d ring-shank nails for all fastening in nailing zone 3 for 110 mph design wind speeds and where Group III species framing lumber is used for 100 mph design wind speeds.
 2. Space fasteners 4 inches o.c. minimum at gable endwall or gable truss.
 3. Fastener spacing at intermediate supports in nailing zone 1 may be 12 inches o.c. for 90 mph design wind speeds and where Group II species framing lumber is used for 100 mph design wind speeds.
 4. Where diaphragm requirements necessitate a closer nail spacing.

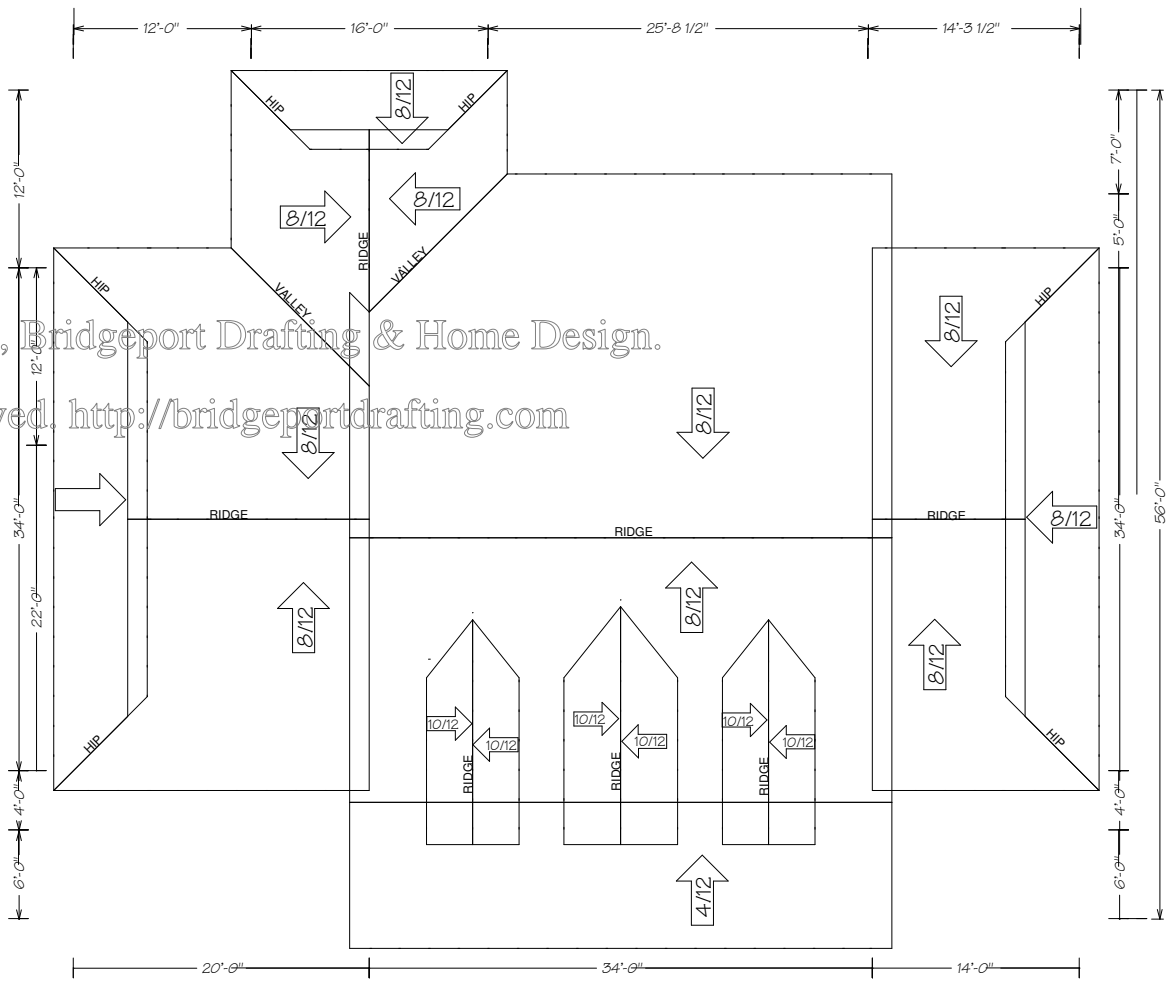
TABLE 2307.6B ALLOWABLE SPANS AND LOADS FOR WOOD STRUCTURAL PANEL SHEATHING AND SINGLE FLOOR GRADES CONTINUOUS OVER TWO OR MORE SPANS WITH LONG PANEL DIMENSION PERPENDICULAR TO SUPPORTS (1, 6)

| SPAN RATING | SHEATHING GRADE | ROOF | | | | FLOOR | |
|-----------------|-----------------------|-----------------------|----------------------|------------|-----------|--------------------|--------------------|
| | | MAXIMUM SPAN (IN.) | | LOAD (PSF) | | MAXIMUM SPAN (IN.) | MAXIMUM LOAD (PSF) |
| ROOF/FLOOR SPAN | PANEL THICKNESS (IN.) | WITH EDGE SUPPORT (2) | WITHOUT EDGE SUPPORT | TOTAL LOAD | LIVE LOAD | | |
| 12/0 | 5/16 | 12 | 12 | 40 | 30 | 0 | 0 |
| 16/0 | 5/16, 3/8 | 16 | 16 | 40 | 30 | 0 | 0 |
| 20/0 | 5/16, 3/8 | 20 | 20 | 40 | 30 | 0 | 0 |
| 24/0 | 3/8, 7/16, 1/2 | 24 | 20(3) | 40 | 30 | 0 | 0 |
| 24/16 | 7/16, 1/2 | 24 | 24 | 50 | 40 | 16 | 16 |
| 32/16 | 15/32, 1/2, 5/8 | 32 | 28 | 40 | 30 | 16(5) | 16(5) |
| 40/20 | 19/32, 5/8, 3/4, 7/8 | 40 | 32 | 40 | 30 | 20(4, 5) | 20(4, 5) |
| 48/24 | 23/32, 3/4, 7/8 | 48 | 36 | 45 | 35 | 24 | 24 |
| 54/32 | 7/8, 1 | 54 | 40 | 45 | 35 | 32 | 32 |
| 60/48 | 7/8, 1, 1 1/8 | 60 | 48 | 45 | 35 | 48 | 48 |

Table 3.10 Roof Sheathing Attachment Requirements for Wind Loads Exposure B

| Sheathing Location ¹ | Rafter/Truss Spacing (inches, o.c.) | Maximum Nail Spacing for 8d Common Nails or 10d Box Nails (inches, o.c.) | |
|--|-------------------------------------|--|----|
| | | E | F |
| Interior Zone | 16 | 6 | 12 |
| Perimeter Edge Zone | 16 | 6 | 12 |
| Gable Endwall Rake or Rake Truss w/ Lookout Block | 6 ³ | 6 ³ | 6 |
| Gable Endwall Rake or Rake Truss w/o Rake Overhang | 6 | 6 | 6 |

E - Nail spacing at panel edges (in.)
 F - Nail spacing at intermediate supports in the panel field (in.)
 1 For roof sheathing within 4 feet of the perimeter edge of the roof, including 4 feet on each side of the roof peak, the 4 foot perimeter edge zone attachment requirements shall be used.
 2 Tabulated 12 inch o.c. nail spacing assumes sheathing attached to rafter/truss framing members with $0.42 \leq G < 0.49$. For framing members with $0.42 \leq G < 0.49$, the nail spacings shall be reduced to 6 inches o.c.
 3 Tabulated 6 inch o.c. nail spacing assumes sheathing attached to rafter/truss framing members with $0.42 \leq G < 0.49$. For framing members with $0.42 \leq G < 0.49$, the nail spacings shall be reduced to 4 inches o.c.
 4 Tabulated 4 inch o.c. nail spacing assumes sheathing attached to rafter/truss framing members with $0.42 \leq G < 0.49$. For framing members with $0.42 \leq G < 0.49$, the nail spacings shall be reduced to 3 inches o.c.
 5 Tabulated nail spacings assume a building located in Exposure B.



ROOF NOTES
 8:12 PITCH FOR ALL ROOF EXCEPT ROOF OF FRONT PORCH (4:12) AND DORMER ROOF (10:12)
COMPOSITION ROOFING - FIBERGLASS DIMENSIONAL SHINGLES - DARK GRAY SHINGLES SHALL BE FASTENED ACCORDING TO MANUFACTURERS INSTRUCTIONS TO SOLIDLY SHEATHED ROOFS. NOT LESS THAN 4 NAILS PER EACH 36" TO 40" STRIP SHINGLES AND 2 NAILS PER EACH 9" TO 18" INDIVIDUAL SHINGLE.
ROOF VENTILATION
 1 SQ. FT. OF VENT FOR EVERY 150 SQ. FT. OF ATTIC AREA. 2 SQ. FT. REQUIRES 19 SQ. FT. OF VENT. PROVIDE WITH SOFFIT VENTS AND RIDGE VENTS.

Copyright 2006, Bridgeport Drafting & Home Design.
 All rights reserved. <http://bridgeportdrafting.com>

ROOF PLANES

Bridgeport
 Drafting & Home Design
 316 Bridgeport Blvd
 Palatka, Florida 32909
 Phone: 329.328.1593

JOB: Palatka, Florida
 Drawn by: Bobby Hinton

project #
 date:
 SHEET NO.