

**FASTENER SCHEDULE FOR STRUCTURAL MEMBERS TABLE R602.3(1)**

DESCRIPTION OF BUILDING ELEMENTS-----	NUMBER, TYPE & SPACING (a,b,c,d)
JOIST TO SILL OR GIRDER, TOE-NAIL-----	3-8d
1" x 6" SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL----	2-8d or 2-1 3/4" STAPLES
2" SUBFLOOR TO JOIST OR GIRDER, BLIND OR FACE NAIL-----	2-16d
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL-----	16d AT 16" O.C.
TOP OR SOLE PLATE TO STUD, END NAIL-----	2-16d
STUD TO SOLE PLATE, TOENAIL-----	(3-8d), OR (2-16d)
DOUBLE STUDS, FACE NAIL-----	10d AT 24" O.C.
DOUBLE TOP PLATES, TYP. FACE NAIL-----	10d AT 24" O.C.
SOLE PLATE TO JOIST OR BLOCKING, @ BRACED WALL PANELS-----	3-16d AT 16" O.C.
DOUBLE TOP PLATES, LAP SPLICE MIN 48" OFFSET OF END JOINTS-----	8-16d
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL-----	3-8d
RIM JOIST TO TOP PLATE, TOENAIL-----	8d AT 6" O.C.
TOP PLATES, LAPS @ CORNERS AND INTERSECTION, FACE NAIL-----	2-10d
BUILT-UP OR CONT. HEADER, (2) PIECE w/ 1/2" SPACER-----	16d AT 16" O.C. ALONG EDGE
CEILING JOIST TO PLATE, TOE-NAIL-----	3-8d
CONTINUOUS HEADER TO STUD, TOE-NAIL-----	4-8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL-----	3-10d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL-----	3-10d
RAFTER TO PLATE, TOE-NAIL-----	2-16d
1" BRACE TO EACH STUD AND PLATE, FACE NAIL-----	2-8d or 2-1 3/4" STAPLES
1" x 6" SHEATHING OR LESS TO EACH BEARING, FACE NAIL----	2-8d or 2-1 3/4" STAPLES
1" x 8" SHEATHING OR LESS TO EACH BEARING, FACE NAIL----	2-8d or 3-1 3/4" STAPLES
WIDER THAN 1" x 8" SHEATHING TO EA. BRG., FACE NAIL-----	3-8d or 4-1 3/4" STAPLES
BUILT-UP CORNER STUDS-----	10d AT 24" O.C.
BUILT-UP GIRDER AND BEAMS, 2" LUMBER LAYERS-----	10d AT 32" O.C. AT T & B AND STAGGERED. 2-10d AT EACH SPLICE & @ ENDS
2" PLANKS-----	(2-16d) AT EACH BEARING
ROOF RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS-----	4-16d TOENAIL or 3-16d FACENAIL
RAFTER TIES TO RAFTERS, FACE-----	3-8d

**WOOD STRUCTURAL PANELS AND PARTICLE BOARD :**

**SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)**

5/16" - 1/2" --- (SUBFLOOR, WALL) 6d COMMON, 6" O.C. EDGES(I), 12" O.C. INTERMEDIATE(G)
5/16" - 1/2" --- (ROOF) 8d COMMON(F), 6" O.C. EDGES(I), 12" O.C. INTERMEDIATE(G)
19/32" - 1" --- 8d COMMON, 6" O.C. EDGES(I), 12" O.C. INTERMEDIATE(G)
1-1/8" - 1-1/4" --- 8d COMMON or 6d DEFORMED, 6" O.C. EDGES(I), 12" O.C. INTERMEDIATE(G)

**OTHER WALL SHEATHING (h):**

**REGULAR CELLULOSIC FIBERBOARD SHEATHING :**

1/2" ----- 1 1/2" GA. ROOFING NAIL, 6d COMMON or STAPLE 1 3/4" (b,c,d,e) 3" O.C. EDGES(I), 6" O.C. INTERMEDIATE(c,e)
---

**STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING :**

1/2" ----- 1 1/2" GA. ROOFING NAIL; 8d COMMON or STAPLE 1 3/4" (b,c,d,e) 3" O.C. EDGES(i), 6" O.C. INTERMEDIATE(c,e)
25/32" ----- 1 3/4" GA. ROOFING NAIL; 8d COMMON or STAPLE 1 3/4" (b,c,d,e) 3" O.C. EDGES(i), 6" O.C. INTERMEDIATE(c,e)

**GYPSON SHEATHING**

1/2" (H) ---- 1 1/2" GA. ROOFING NAIL; 6d COMMON or STAPLE GA. 1 1/2"; 1 1/4" SCREWS, TYPE W OR S.(b,c,d,e) 4" O.C. EDGES(i), 8" O.C. INTERMEDIATE(c,e)
5/8" (H) ---- 1 3/4" GA. ROOFING NAIL; 8d COMMON or STAPLE GA. 1 5/8"; 1 1/4" SCREWS, TYPE W OR S.(b,c,d,e) 4" O.C. EDGES(i), 8" O.C. INTERMEDIATE(c,e)

**COMBINATION SUBFLOOR - UNDERLAYMENT (TO FRAMING)**

3/4" AND LESS --- 8d COMMON or 6d DEFORMED, 6" O.C. EDGES(i), 12" O.C. INTERMEDIATE(g)
7/8" - 1" ----- 8d COMMON or 8d DEFORMED, 6" O.C. EDGES(i), 12" O.C. INTERMEDIATE(g)
1-1/8" - 1-1/4" --- 10d COMMON or 8d DEFORMED, 6" O.C. EDGES(i), 12" O.C. INTERMEDIATE(g)

**NAILING SCHEDULE NOTES :**

- FOR SI: 1 INCH = 25.4 MM, 1 FOOT = 304.8 MM, 1 MILE PER HOUR = 1.609 KM/H.
- ALL NAILS ARE SMOOTH-COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED. NAILS USE D FOR FRAMING AND SHEATHING CONNECTIONS SHALL HAVE MINIMUM AVERAGE BENDING YIELD STRENGTHS AS SHOWN; 80ksi (51MPa) FORSHANK DIAMETER OF 0.192 INCH (20d COMMON NAIL), 90ksi(6220MPa) FOR SHANK DIAMETERS LARGER THAN 0.142 INCH BUT NOT LARGER THAN 0.177 INCH, AND 100 ksi (689 MPa) FOR SHANK DIAMETERS OF 0.142 INCH OR LESS.
  - STAPLES ARE 16 GAGE WIRE AND HAVE A MINIMUM 7/16-INCH ON DIAMETER CROWN WIDTH.
  - NAILS SHALL BE SPACED AT NOT MORE THAN 6 INCHES ON CENTER AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR GREATER.
  - FOUR-FOOT-BY-8-FOOT OR 4-FOOT-BY-9-FOOT PANELS SHALL BE APPLIED VERTICALLY.
  - SPACING OF FASTENERS NOT INCLUDED IN THIS TABLE SHALL BE BASED ON TABLE R602.3(1).
  - FOR REGIONS HAVING BASIC WIND SPEED OF 110 MPH OR GREATER, 8d DEFORMED NAILS SHALL BE USED FOR ATTACHING PLYWOOD AND WOOD STRUCTURAL PANEL ROOF SHEATHING TO FRAMING WITHIN MINIMUM 48-INCH DISTANCE FROM GABLE END WALLS, IF MEAN ROOF HEIGHT IS MORE THAN 25 FEET, UP TO 35 FEET MAXIMUM.
  - FOR REGIONS HAVING BASIC WIND SPEED OF 100 MPH OR LESS, NAILS FOR ATTACHING WOOD STRUCTURAL PANEL ROOF SHEATHING TO GABLE END WALL FRAMING SHALL BE SPACED 6 INCHES ON CENTER WHEN BASIC WIND SPEED IS GREATER THAN 80 MPH, NAILS FOR ATTACHING PANEL ROOF SHEATHING TO INTERMEDIATE SUPPORTS SHALL BE SPACED 6 INCHES ON CENTER FOR MINIMUM 48-INCH DISTANCE FROM RIDGES, EAVES AND GABLE END WALLS; AND 4 INCHES ON CENTER TO GABLE END WALL FRAMING.
  - GYPSON SHEATHING SHALL CONFORM TO ASTM C 79 AND SHALL BE INSTALLED IN ACCORDANCE WITH GA253. FIBERBOARD SHEATHING SHALL CONFORM TO EITHER AHA194.1 OR ASTM C 208.
  - SPACING OF FASTENERS ON FLOOR SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND AT ALL FLOOR PERIMETERS ONLY. SPACING OF FASTENERS ON ROOF SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND AT ALL ROOF PLANE PERIMETERS. BLOCKING OF ROOF OR FLOOR SHEATHING PANEL EDGES PERPENDICULAR TO THE FRAMING MEMBERS SHALL NOT BE REQUIRED EXCEPT AT INTERSECTION OF ADJACENT ROOF PLANES. FLOOR AND ROOF PERIMETER SHALL BE SUPPORTED BY FRAMING MEMBERS OR SOLID BLOCKING.