

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

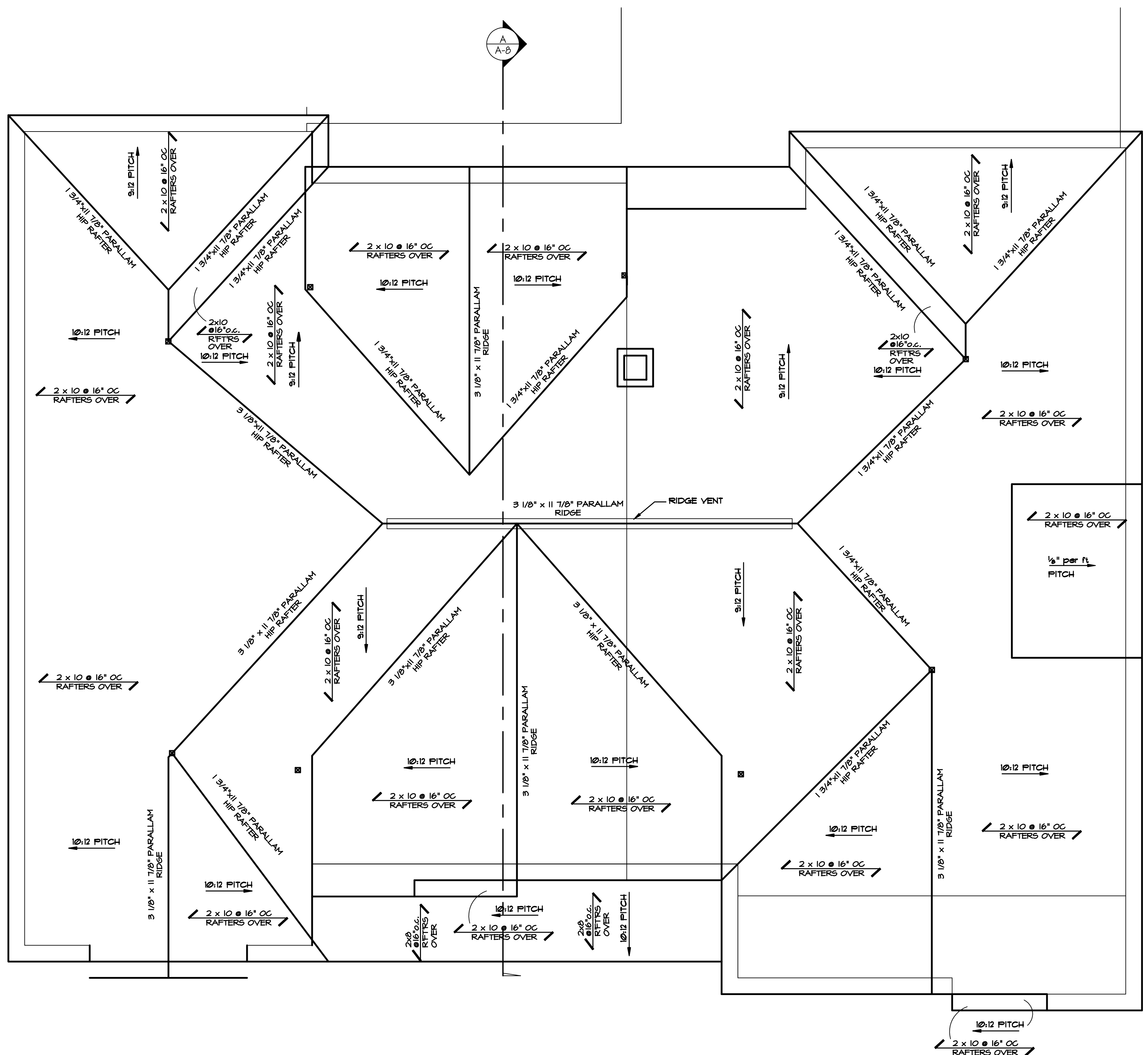
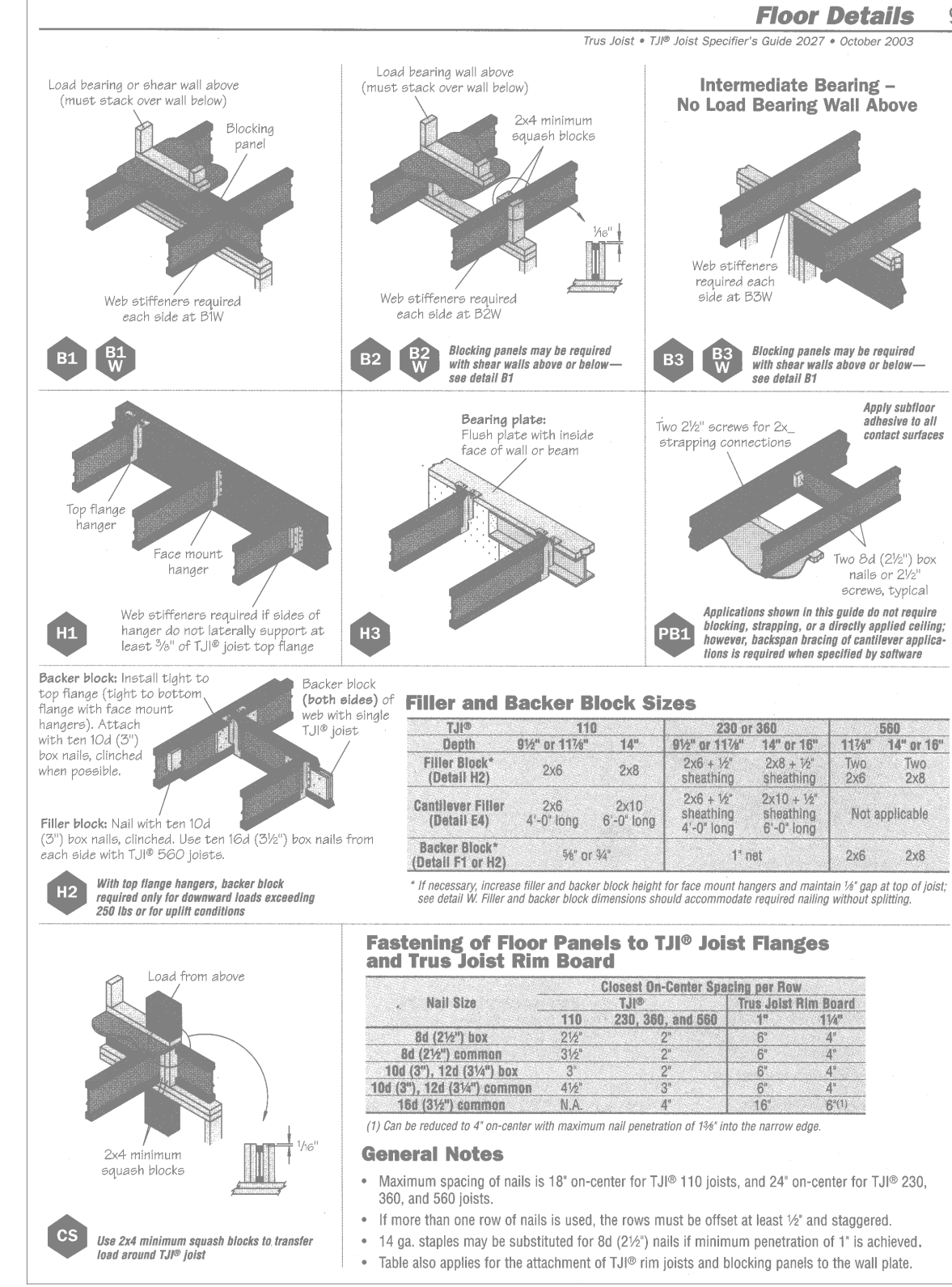
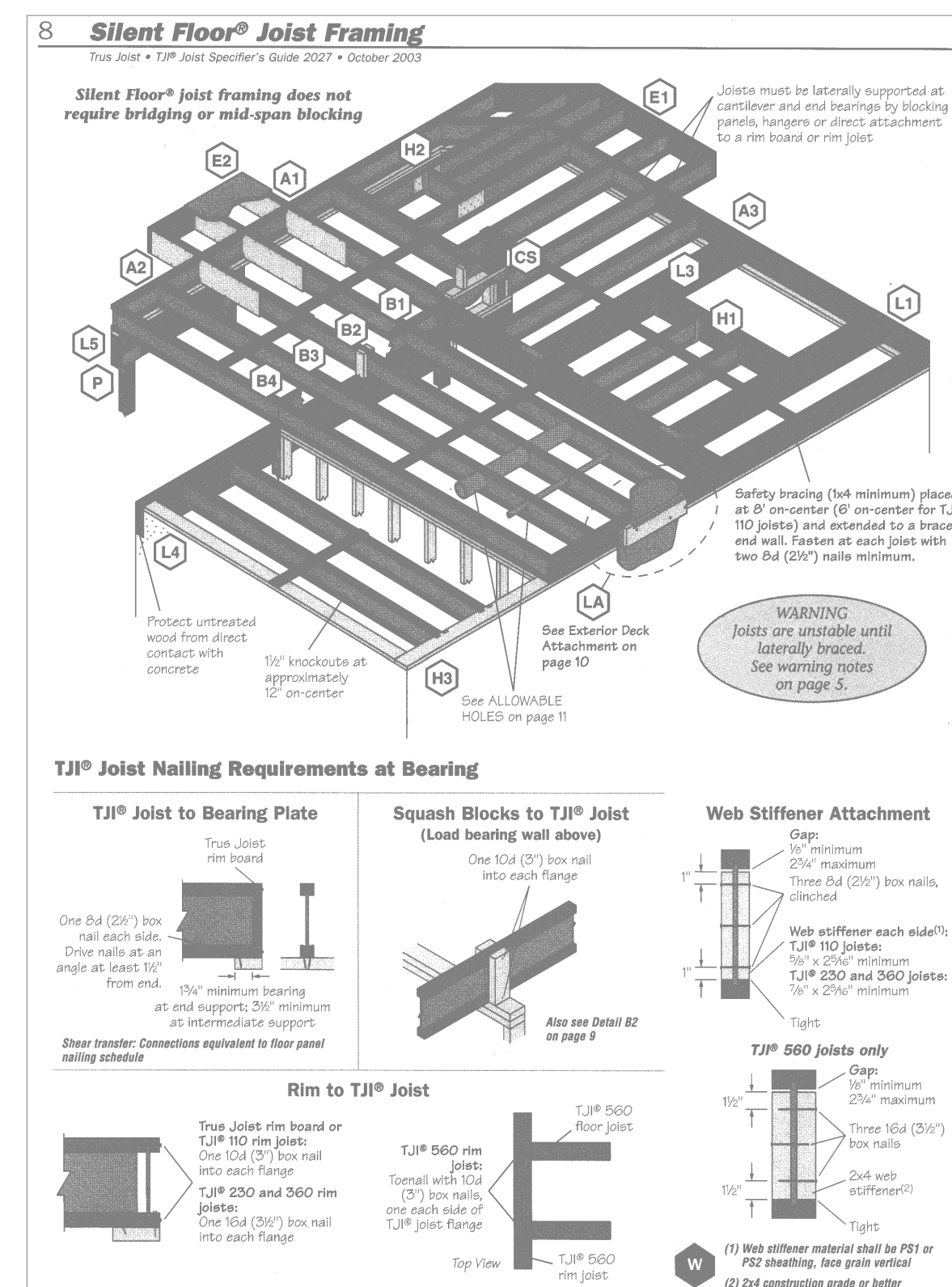
DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENERS	SPACING OF FASTENERS
Joist to sill or girder, toe nail	3-8d	—
1" x 6" subfloor or less to each joist, face nail	2-8d	—
2" subfloor to joist or girder, blind and face nail	2 staples, 1 3/4"	—
Sole plate to joist or blocking, face nail	2-16d	—
Top or sole plate to stud, end nail	1-6d	16" o.c.
Stud to sole plate, toe nail	2-16d	—
Double studs, face nail	3-8d or 2-16d	—
Double top plates, face nail	10d	24" o.c.
Sole plate to joist or blocking at braced wall panels	10d	24" o.c.
Double top plates, minimum 48-inch offset of end joints, face nail in lapped area	3-16d	16" o.c.
Blocking between joists or rafters to top plate, toe nail	8-8d	—
Rim joist to top plate, toe nail	8d	6" o.c.
Top plates, laps at corners and intersections, face nail	2-10d	—
Built-up header, two pieces with 1/2" spacer	1-6d	16" o.c. along each edge
Continued header, two pieces	1-6d	16" o.c. along each edge
Ceiling joists to plate, toe nail	3-8d	—
Continuous header to stud, toe nail	3-10d	—
Ceiling joist, laps over partitions, face nail	3-10d	—
Ceiling joist 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	—
1" x 6" sheathing to each bearing, face nail	2-8d	—
1" x 8" sheathing to each bearing, face nail	2 staples, 1 3/4"	—
Wider than 1" x 8" sheathing to each bearing, face nail	3 staples, 1 3/4"	—
Built-up corner studs	3-8d	—
Built-up girders and beams, 2-inch lumber layers	10d	24" o.c.
2" planks	2-16d	At each bearing
Roof rafters to ridge, valley or hip rafters: toe nail	4-16d	—
face nail	3-16d	—
Rafter ties to rafters, face	3-8d	—
Wood structural panels, subfloor, roof and wall sheathing to framing, and partition wall sheathing to framing		
7/16-1/2	6d common nail (subfloor, wall)	6 12x
1/2-1	8d common nail (roof)	6 12x
1/2-1/4	10d common nail or 8d deformed nail	6 12

(continued)

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

DESCRIPTION OF BUILDING MATERIALS	DESCRIPTION OF FASTENERS	Edges (inches)	Intermediate supports (inches)
Other wall sheathing			
1/2" regular cellulose fiberboard sheathing	1 1/2" galvanized roofing nail 6d common nail staple 16 ga., 1 1/2" long	3	6
1/2" structural cellulose fiberboard sheathing	1 1/2" galvanized roofing nail 8d common nail staple 16 ga., 1 1/2" long	3	6
5/8" structural cellulose fiberboard sheathing	1 3/4" galvanized roofing nail 8d common nail staple 16 ga., 1 3/4" long	3	6
1/2" gypsum sheathing	1 1/2" galvanized roofing nail; 6d common nail; staple galvanized, 1 1/2" long, Type W or S	4	8
5/8" gypsum sheathing	1 3/4" galvanized roofing nail; 8d common nail; staple galvanized, 1 3/4" long, Type W or S	4	8
Wood structural panels, combination subfloor underlayment to framing			
7/16 and less	6d deformed nail or 8d common nail	6	12
7/8-1	8d common nail or 8d deformed nail	6	12
1 1/8-1 1/4	10d common nail or 8d deformed nail	6	12

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 1.609 km/h.
a. All nails are smooth-common, box or deformed shanks except where otherwise stated.
b. Staples are 16 gage wire and have a minimum 7/16-inch in diameter crown width.
c. Nails shall be spaced at not more than 6 inches on center at all supports where spans are 48 inches or greater.
d. Four-foot-by-8-foot or 4-foot-by-9-foot panels shall be applied vertically.
e. Spacing of fasteners not included in this table shall be based on Table R602.3(1).
f. 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.
g. 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 100 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.
h. Gypsum sheathing shall conform to ASTM C 79 and shall be installed in accordance with GA 253. Fiberboard sheathing shall conform to either AIA 194.1 or ASTM C 208.
i. 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.



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