	TABLE R602.3(1)	
FASTENER	SCHEDULE FOR STRUCTU	RAL MEMBERS

DESCRIPT	TION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER®, b, c, d	SPACING OF FASTENERS
Joist to sill or girder, toe nail		3-8d	—
$1'' \times 6''$ subfloor or less to ea	ach joist, face nail	2-8d	
		2 staples, $1^3/4$	_
2" subfloor to joist or girder, blind and face nail		2-16d	
Sole plate to joist or blockin		16d	16" o.c.
Top or sole plate to stud, end nail		2-16d	
Stud to sole plate, toe nail		3-8d or 2-16d	· -
Double studs, face nail		10d	24" o.c.
Double top plates, face nail		10d	24" o.c.
Sole plate to joist or blockin	g at braced wall panels	3-16d	16" o.c.
lapped area	48-inch offset of end joints, face nail in	8-16d	
Blocking between joists or ra	afters to top plate, toe nail	3-8d	
Rim joist to top plate, toe na		8d	6" o.c.
Top plates, laps at corners an		2-10d	-
Built-up header, two pieces with 1/2" spacer		16d	16" o.c. along each edge
Continued header, two pieces		16d	16" o.c. along each edge
Ceiling joists to plate, toe nail		3-8d	
Continuous header to stud, toe nail		4-8d	
Ceiling joist, laps over partit		3-10d	
Ceiling joist to parallel rafter	s, face nail	3-10d	
Rafter to plate, toe nail		2-16d	
1" brace to each stud and pla	te, face nail	2-8d	
		2 staples, $1^3/4$	
1" x 6" sheathing to each bearing, face nail		2-8d	
		2 staples, $1^3/4$	_
" x 8" sheathing to each bearing, face nail		2-8d	_
	·	3 staples, $1^3/_4$	<u> </u>
Wider than 1" x 8" sheathing	to each bearing, face nail	3-8d	
Duilt up games 1		4 staples, 13/4	
Built-up corner studs		10d	24" o.c.
Built-up girders and beams, 2-inch lumber layers		10d	Nail each layer as follows: 32" o.c. at top and bottom and staggered. Two nails at ends and at each splice.
2" planks		2-16d	At each bearing
Roof rafters to ridge, valley o	or hip rafters:		
toe nail face nail		4-16d	_
race nan		3-16d	
Rafter ties to rafters, face		3-8d	
/ 1/.	r, roof and wall sheathing to framing, and particleboar		
⁹ / ₁₆ - ¹ / ₂	6d common nail (subfloor, wall) 8d common nail (roof) ^f	6	128
⁹ / ₃₂ -1	8d common nail	6	12g
1/8-11/4	10d common nail or 8d deformed	6	12

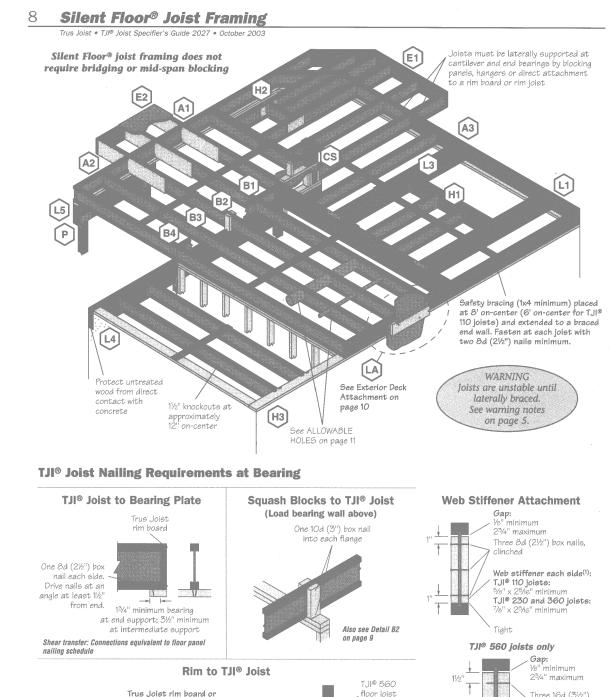
TABLE R602.3(1)—continued FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

DESCRIPTION OF BUILDING MATERIALS	DESCRIPTION OF FASTENER ^{b,c,d,o}	SPACING OF FASTENERS		
		Edges (inches)	Intermediate supports ^{c,e} (inches)	
Other wall sheathingh		14 °C		
¹ / ₂ " regular cellulosic fiberboardsheathing	1 ¹ / ₂ galvanized roofing nail 6d common nail staple 16 ga., 1 ¹ / ₂ long	3	6	
¹ / ₂ structural cellulosic fiberboard sheathing	1 ¹ / ₂ galvanized roofing nail 8d common nail staple 16 ga., 1 ¹ / ₂ long	3	6	
²⁵ / ₃₂ structural cellulosic 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; 1 ¹ / ₄ screws, Type W or S	4	8	
5/8 gypsum sheathing	1 ³ / ₄ galvanized roofing nail; 8d common nail; staple galvanized, 1 ⁵ / ₈ long; 1 ⁵ / ₈ screws, Type W or S	4	8	
Wood structural panels, combination sub	floor underlayment to framing			
³ / ₄ and less	6d deformed nail or 8d common nail	6	12	
7/8-1	8d common nail or 8d deformed nail	6	12	
11/8-11/4	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 on 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).

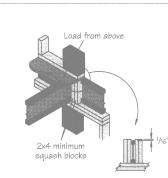
members or solid blocking.

- 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 AHA 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



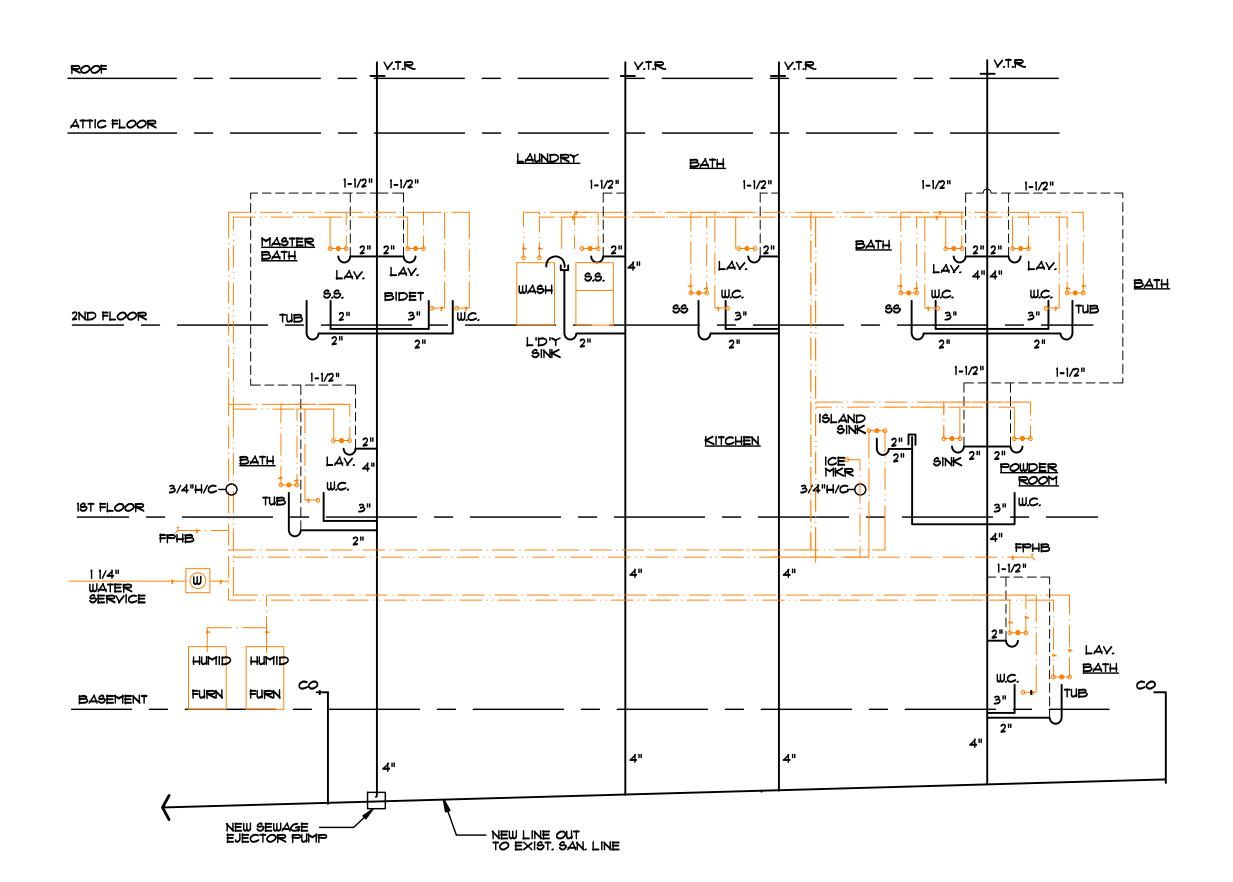
H2 With top flange hangers, backer block required only for downward loads exceeding 250 lbs or for uplift conditions

* If necessary, increase filler and backer block height for face mount hangers and maintain ¼" gap at top of joist; see detail W. Filler and backer block dimensions should accommodate required nailing without splitting.



Fastening of Floor Panels to TJI® Joist Flanges and Trus Joist Rim Board TJI® Trus Joist Rim Board 110 230, 360, and 560 1" 11/4" 8d (2½") common 10d (3"), 12d (3¼") box **16d (3½") common** N.A **General Notes**

 Maximum spacing of nails is 18" on-center for TJI® 110 joists, and 24" on-center for TJI® 230, • If more than one row of nails is used, the rows must be offset at least ½" and staggered. Use 2x4 minimum squash blocks to transfer load around TJI® joist
14 ga. staples may be substituted for 8d (2½") nails if minimum penetration of 1" is achieved.
Table also applies for the attachment of TJI® rim joists and blocking panels to the wall plate.



ALL WATER LINES TO BATH GROUPS = 3/4" ALL WATER LINES TO INDIV. FIXTURES = 1/2"

PLUMBING RISER DIAGRAM

NOT TO SCALE

WITH WATER RISER INFO



GREENBERG RESIDENCE 244 LONG HILL DRIVE

MILLBURN, NJ drawing title : FRAMING DETAILS PLUMBING RISER DIAGRAM planner: NJ - C 4352 planner: NJ - LI 01553

DONALD R. FIORE • AIA architect : NJ — AI 10410

ROBERT B. HEINTZ • AIA

job no. : 21137 scale : AS NOTED date: 6-30-11

TJI® 230 and 360 rim joists: One 16d (3½") box nail PS2 sheathing, face grain vertical ?) 2x4 construction grade or better Floor Details Trus Joist • TJI® Joist Specifier's Guide 2027 • October 2003 Intermediate Bearing -No Load Bearing Wall Above B1 B1 W Applications shown in this guide do not require PB1 blocking, strapping, or a directly applied ceiling; however, backspan bracing of cantilever applications is required when specified by software sides) of Filler and Backer Block Sizes