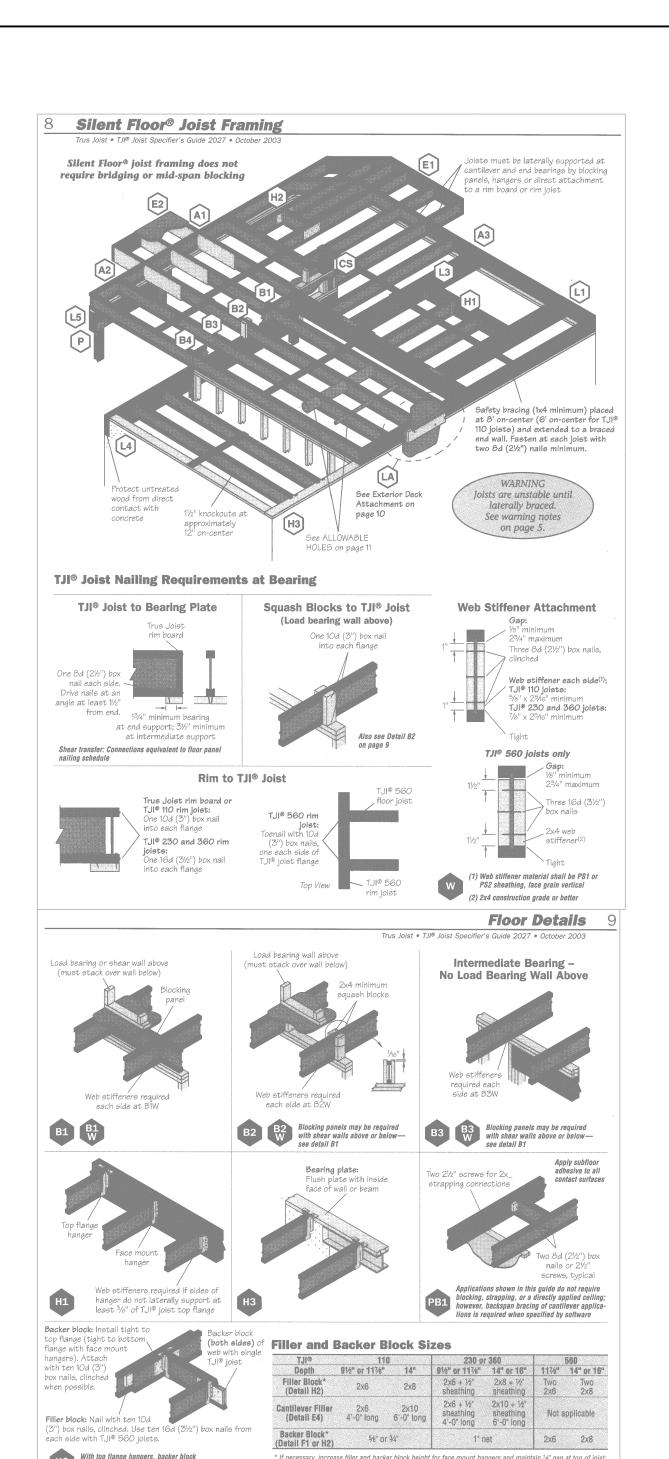
TABLE R602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS NUMBER AND TYPE OF				
	CRIPTION OF BUILDING ELEMENTS	FASTENER®,b,c,d	SPACING OF FASTENERS	
Joist to sill or girder, toe nail		3-8d	_	
$1'' \times 6''$ subfloor or less	to each joist, face nail	2-8d	_	
2" subfloor to joint or girden blind or 1 5		2 staples, $1^3/_4$	<u> </u>	
2" subfloor to joist or girder, blind and face nail Sole plate to joist or blocking, face nail		2-16d	-	
		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 blocking at braced wall panels		3-16d	16" o.c.	
lapped area	mum 48-inch offset of end joints, face nail in	8-16d	_	
Blocking between joists or rafters to top plate, toe nail		3-8d		
Rim joist to top plate, to	oe nail ers and intersections, face nail	8d	6" o.c.	
		2-10d		
Built-up header, two pie		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 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		
		2 staples, $1^3/_4$	<u> </u>	
" x 6" sheathing to each bearing, face nail		2-8d 2 staples, 1 ³ / ₄	-	
1" x 8" sheathing to each bearing, face nail		2 staples, 1-74 2-8d	-	
		$\frac{2-80}{3}$ staples, $1^{3}/_{4}$	_	
Wider than 1" x 8" sheathing to each bearing, face nail		3-8d		
		4 staples, $1^3/_4$		
Built-up comer studs		10d	24" o.c.	
Built-up girders and beams, 2-inch lumber layers		10d	Nail each layer as follows:	
en e			32" o.c. at top and bottom ar staggered. Two nails at end and at each splice.	
2" planks		2-16d	At each bearing	
Roof rafters to ridge, va	lley or hip rafters:			
toe nail face nail		4-16d	_	
Rafter ties to rafters, face		3-16d		
	e obfloor, roof and wall sheathing to framing, and particleboar	3-8d		
/ ₁₆ -1/ ₂	6d common nail (subfloor, wall) 8d common nail (roof) ^f	d wall sheathing to framing 6	12g	
19/32 -1	8d common nail			
11/8-11/4		6	128	
· /δ-1 /4	10d common nail or 8d deformed nail	6	12	

DESCRIPTION OF BUILDING	DESCRIPTION OF FASTENER ^{b,c,d,•}	SPACING OF FASTENERS	
MATERIALS		Edges (inches)	Intermediate supports ^{c,e} (inches)
Other wall sheathingh		V1 * 2	
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	ofloor 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 $\frac{7}{16}$ -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).
- 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 members or solid blocking.



* If necessary, increase filler and backer block height for face mount hangers and maintain ½" gap at top of joist; see detail W. Filler and backer block dimensions should accommodate required nailing without splitting.

• 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.

T.JI® Trus Joist Rim Board

Fastening of Floor Panels to TJI® Joist Flanges and Trus Joist Rim Board

8d (2½") common 10d (3"), 12d (3¼") box

General Notes

16d (3½") common N.A.

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.

(3") box nails, clinched. Use ten 16d (3½") box nails from each side with TJI® 560 joists.

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



6-24-10 MISC. REVISIONS PER OWNER BASEMENT, FRAMING, ETC.

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6-2-10 MISCELLANEOUS REVISIONS 6-24-09 ISSUED FOR PERMIT

HEINTZ & FIORE • LLC ARCHITECTS

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5 RICHARD DRIVE SHORT HILLS, NJ

drawing title : FRAMING DETAILS

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

job no. : 2916 date: 6-24-09