1231 I Street, Sacramento, CA 95814 Thos Bros: 257A4 **ASFR** Sub-Type: Site Address: 319 BELFONT CR SAC Housing (Y/N): N 201-0490-099 Parcel No: <u>OWNER</u> BOYCHUK ROMAN ARCHITECT **CONTRACTOR** OWNER BUILDER BELFONT CIR SACRAMENTO, CA 95835 Nature of Work: INTERIOR REMODEL - CONVERT GARAGE TO PLAY RM & STORAGE; ADD NEW 390 SF GARAGE W/BALCONY @ 2ND FLOOR CONSTRUCTION LENDING AGENCY: I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C). Lender's Address Lender's Name LICENSED CONTRACTORS DECLARATION: I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect. Contractor Signature License Number 0 OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code; any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00), I, as a owner of the property, or my employees with wages as their sole contrected by will be work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professional Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his/her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will water the building of the structure is not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will water the building of the structure is not intended or offered for sale. NEIGHBORHOODS PLANTING 7044, Business and Professions Code: Contractors License Law does not apply to an owner of property who builds or improves the business and professions code: Contractors License Law does not apply to an owner of property who builds or improves the business for such projects with a contractor(s) licensed pursuant to the Contractors License Law). B & PC for this reason I am exempt under Sec. 05 Owner Signature IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of any improvement or the violation of any private agreement relating to location of improvements. I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and herby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes. Date 11/29/05 Applicant/Agent Signature WORKER'S COMPENSATION DECLARATION: I hereby affirm under penalty of perjury one of the following declarations: I have and will maintain a certificate of consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued. I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are: Policy Number (This section need not be completed if the permit is for \$100 or less) I certify that in the performance of the work for which this permit is issued, Ishall not employ any person in any manner so as to become subject to the workers' compensation laws of California and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

CITY OF SACRAMENTO

0517894

Permit No:

Insp Area:

COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000) IN ADDITION TO THE COST OF

Applicant Signature

OFFICE COPY

P.A.S. Design Services

Specializing in Residential Design Structural Analysis, Grading & Site Plans

To:

City Inspector

Date: February 4, 2006

City of Sacramento Building Department

Sacramento, CA

From:

Patrice Stafford, PE

9046 Feather River Way Sacramento, CA 95826

916-396-9120, email k5blazer@pacbell.net

Subject:

Correction Notice for Addition to Single Family Residence

319 Belfont Circle, Sacramento, CA

I have met with the framers to provide technical support to them during the construction process. I have reviewed the framing changes and have specified the following items:

- 1) The ABWP becomes shear walls that are 24" in length. The calculations are attached. The HPAHD22 hold downs are sufficient for the uplift. Add plywood on inside wall to accommodate for shear requirement.
- 2) The ledger attachment detail has been modified to show balloon wall framing condition. Install 3-SDS1/2×3 Wood Screws along ledger at each stud.
- 3) Joists that were specified were replaced by TJI 230's 11 7/8" Depth @ 12" o.c. with an allowable span of 21.0' to span 19.5'.
- 4) Contractor will add (1) 2050 window next to the installed (2)2050 windows to provide adequate light and ventilation.

Please let me know if you have any questions. You can contact me by cell 916-396-9120.

Patrice A Stafford REGISTER ED CIVIL ENGINEER

DATE

214/06

Exp. 06-30-07

CIVIL

Seismic Loading:

a - 2 Sd 0.54 (T-16-R UBC) 0.36 (T-16-Q UBC) Soil Type = CV = Zone = Ca=

27.00 ft, roof height

_ H

Date: 10/6/2005

S (T-10 N UBC)

2 2

Ts :: ⊣ ::

seconds [Ts = Cv/(2.5*Ca)] seconds [$T = Ct^*(hn)^{\lambda/3/4}$]

V min =

(Ass. = 1.0, correct w/ length of shear walls or maintain as Safety Factor) Load Combination = 0.9D + E/1.4

E = pEh + Ev = Vbase shear, Load Comb. = ft, Total height of structure

(UBC 1616; B or C)

(T-16-G UBC, height of structure 20ft - 25ft) (T-16-G UBC, height of structure 15ft - 20ft)

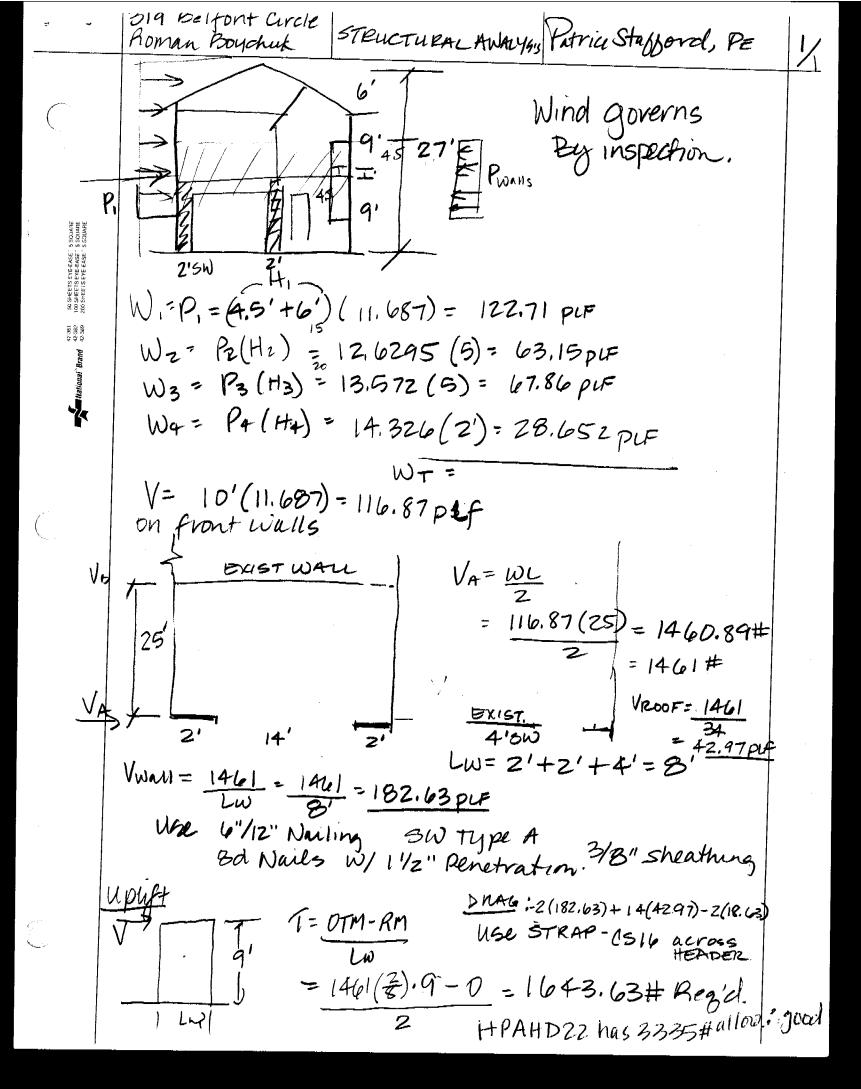
(T-16-G UBC, height of structure 30ft - 35ft)

Wind Loading:

Method 2, P = Ce*Cq*qs*1

psf "See	Jsd	Jsd	psf	psf
P (v 0-15) =	P (v 15-20) =	P (v 20-25) =	P (v 25-30) =	P (v 30-35) =
Ļ	Şŧ	ıst	Sf	Sf
sd South	d - 33 - 3	(h 20-25) = 🔭 🔭 🕜 p		d

(T-16-G UBC, height of structure 25ft - 30ft) (T-16-G UBC, height of structure Oft - 15ft) (T-16-H UBC; Method 2) (T-16-H UBC; Method 2) Cq (h) = Cq (v) = Cq (v) = Wind Speed = Exposure = Ce≍ Ce # 8 8 Ce =



Wood-to-concrete connectors that satisfy engineering and code requirements.

MATERIAL: HPA—10 ga; all others—12 ga FINISH: Galvanized, some models available in ZMAX or HDG. INSTALLATION: • Use all specified fasteners. See General Notes.

Install before concrete pour with a StrapMate, or other holding device.

- Bending the strap 90° to aid wall placement may cause spalling behind the strap. If the spall is 1° or less, measured from the embedment line to the bottom of the spall, full loads apply. For spalls between 1° and 4° (see illustration on page 45), the allowable load is 0.90 of the table loads.
- · For two pour installations spalling is measured from the first pour.
- Nail strap from bottom up. Strap may be bent one full cycle.
- Nail strap from bottom up. Strap may be bent one full cycle.
 Where fewer fasteners are used in the structural wood member, reduce loads according to the code. A wood splitting problem may occur when holdowns are nailed to lumber less than 3½" wide. To lessen splitting of 3x's or double 2x's, either fill every nail hole with 10dx1½" nails or fill every other nail hole with 16d commons. Reduce the allowable load based on the size and quantity of fasteners used.
 Unless otherwise noted, do NOT install where: (a) a horizontal cold joint exists within the embedment depth between the slab and foundation wall or footing beneath, unless provisions are made to transfer the load, or the slab is designed to resist the load imposed by the anchor; or (b) slabs are poured over concrete block foundation walls.
 To get the full table load, the minimum center-to-center spacing is twice the embedment
- To get the full table load, the minimum center-to-center spacing is twice the embedment depth when resisting tension loads at the same time.
- To tie double 2x members together, the Designer must determine the fasteners required to bind members to act as one unit without splitting the wood.
- Additional studs attached to the shearwall studs or post may be required by the Designer for wall sheathing nailing.

FOUNDATION CORNERS: Nail and bolt quantities have been reduced when the load is limited by tested concrete pullout strength (fill holes from bottom up), additional nail holes need not be filled. Nail and bolt quantities may be reduced further for less than 8" corner distance design loads—use code allowable loads for fasteners used in shear.

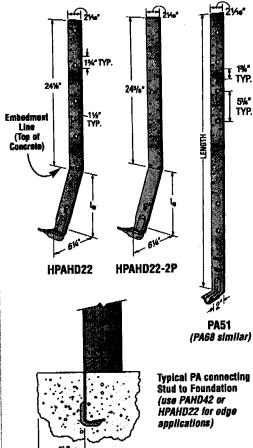
TWO-POUR SYSTEMS: When a cold joint exists between slab and foundation, the holdown will be lower on the stud wall since the embedded portion of the holdown must be in the foundation (see table footnote 1 for exception). Fewer fasteners are used, reducing allowable loads. Loads are calculated using a 4" slab over 6" and 8" foundation walls.

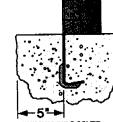
are calculated using a 4" slab over b" and b" foundation walls.

PAHD42, HPAHD22, HPAHD22-2P HOLDOWNS: Designed to be installed at the edge of concrete. Tests determined the pullout strength with one horizontal #4 rebar in the shear cone. Rebar should be a minimum length of 2x embedment depth + 12" (except corner installations, page 45). Install before pouring concrete by nailing to form. Installation holes allow nailing to the form, resulting in 1" deeper embedment; see illustration.

OPTIONS: See also STHD Holdowns, LTT, MTT, HTT Tension Ties.

CODES: See page 12 for Code Listing Key Chart.





MINIMUM SIDE COVER

Available with additional corrosion protection. Check with factory.

Model		Min. Embed.		Allowable I	Jplitt Loads	
No.		Depth	Naila	(133)	(160)	Ref.
PA51	51	4	9-16d	1690	2030	8, 36, 121
PA68	70	4	9-16d	1690	2030	-,,

- 1. Loads have been increased 33% and 60% for earthquake or wind loading with no further increase allowed; reduce where other loads govern.
 2. 16d sinkers (9 ga x 31/4") or 10d commons may be substituted for the specified 16d commons at 0.84 of the table loads.
 3. Optional fastener holes provided. Calculate loads according to the code to a maximum of 3685 lbs. Minimum embedment is 4"; 5" to the nearest edge.

Model No.	Min Stom Wali	Embed. Depth	Nalls		2000 pe	Alternati Ciparel 2	End Dis	dance:		el Concreta	8* 150	Code Ref.
or Daylysulfuns	I read a	25565765	1 No. 10 1 1	<u>arm</u>	SINGLI	POUR						
	6		12-16d	920	920	2030	2030	1225	1225	2205	2205	
PAHD42	8	61/2"	16-16d	1050	1050	2715	2715	1400	1400	2945	2945	20, 124
Auges .	6	Strain Bar	16-16d	etts	1315	3335	3335	1750	1750	3335	3335	20,
HPAHD22	8	10"	23-160	2630	2030	- 4745-	4745	2210	2210	4875	5160	
					TWO	POUR						
	6		12-16d	920	920	2030	2030	1225	1225	2205	2205	
PAHD42	8	61/2"	12-16d	1050	1050	2305	2715	1400	1400	2305	2765	20, 124
18 T. A	San Taran Baran		16-16d	(315	1315	3335	3335	1750	1750	3335	3335	
HPAHD22	8	10"	19-16d	2000	2030	4030	4745	2210	2210	4030	4835	
	6		16-16d	2455	2455	3335	3335	2455	2455	3335	3335	8, 20, 28,
HPAHD22-2P	147/10"	23-16d	2455	2455	4745	4745	2455	2455	4875	5160	121, 124	

- 1. HPAHD22 may be embedded 4" into the slab and 6" into the 8" sternwall beneath for a maximum load of 2810 lbs. at 8" minimum from the closest corner, and 1200 lbs. at ½" from the closest corner (like installation 4).

 2. Allowable loads have been increased for earthquake or wind load durations with no further increase allowed; reduce where other load durations govern.

 3. 16d sinkers (0.148" dia. x 3½" long) or 10d commons may be substituted for specified 16d commons at 0.85 of table loads.

 4. Minimum nail end distance to prevent splitting is 10x the nail diameter, or 1½" for 16d nails.

 5. Calculate loads using straight line interpolation for corner distances between ½" and 8".

- 6. Optional fastener holes are provided on selected products. Because the product is limited by the concrete foundation, you may not need to install optional fasteners.

 7. Strap may be bent one full cycle. (Bent horizontal 90° then bent vertical.)

 8. Rim Joist application: see Installation 3 for corner condition.

 9. Loads shown apply to post-tension stats when one #4 rebar (minimum) is installed as shown on page 43.

 10. Post design shall be by Designer.

 11. NAILS: 16d = 0.162" dia. x 3½" long. See page 16-17 for other nail sizes and information.

Encloses cantilevered TJI joists

Attach to each joist with two 10d (3") box nails, one each at top and bottom flange.

High vertical load transfer capacity. Replaces TJI* rim joists and blocking panels.

Vertical load transfer canacity = 4.250 plf

Provides a solid surface for attachment of sheathing, siding, and deck ledgers

When attaching deck ledgers, locate bolts 2" minimum from top and bottom edges of TimberStrand® LSL rim board and deck ledger.

Required bolt frequency varies by application and is dictated by specific deck geometry/loading. Bolt spacing limits match NDS® minimum recommendations.

Fastener Size	Allowable Load (fbs) 1
14" screw(2)	250
er ## lag bolt 1	400
'⁄ታ" lag bolt	475

- (1) Allowable load determined in accordance with AC124.
- (2) Screws must have self-drilling tip and a minimum bending yield strength of 217,000 psi. Lead holes may be required by local building official.

1½" nailing surface increases load capacity, reduces splits, and makes subflooring easier to fasten

Closest on-center spacing For single row of nails in the narrow face

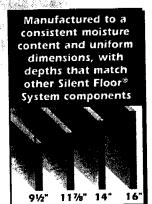
Nail Size	Вох	Common
8d (21/2")	4*	4*
100 (31)	A [*]	
12d ⁽¹⁾ (3¼*)	4"	4-
]6d (\$\langle 1	4 %	15 CON

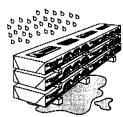
- (1) Also referred to as 16d sinker.
- (2) When nailing through the wall sill plate and floor sheathing, the closest on-center spacing is 4" (136" maximum penetration).

Encloses TJI joist ends and acts as an end or starter joist

Attach TimberStrand® LSL or TJ-Strand® rim board to TJI® joists with two 10d (3") box nails, one each at top and bottom flange.

Toenail rim board to bearing plate with minimum 10d (3") box nails at 6" on-center.





- Protect products from sun and water
- Wrap is slippery when wet or icy
- Use support blocks at 10' on-center to keep products out of mud and water



1-800-628-3997

www.trusjoist.com Email: trusjoist@weyerhaeuser.com

200 E. Mallard Drive (83706)

P.O. Box 60 ♦ Boise, ID 83707 ♦ (208) 364-1200



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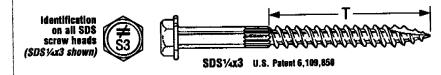
Reorder 2107

The SDS Strong-Driver® has a deep socket and magnetic tip to help provide a positive installation for the SDS Screws. Fits a standard drill.

The Simpson Strong-Drive® wood screw has a hex washer head for easy driving with a %' hex head socket and a low speed drill. The built-in reamer and type 17 tip cuts a hole to allow installation without predrilling. Predrilling may be necessary depending on the type and moisture content of wood. Use 5½ drill bit.

WARNING: Industry studies show that hardened fasteners can experience performance problems in wet or correstive environments. Accordingly, use this product in dry, interior, and noncorrestive environments only. (Titen and SDS only)

CODES: See page 12 for Code Listing Key Chart.





Titen Hex Head





SDSD3/4-RB Strong-Driver*

Titen Screw Anchors for Concrete

1988	er da			- 18 A	Tensio	n Load	Shear Load	
Titen Dia.	Drill Bit	Embed. Depth	Critical Spacing	Critical Edge	Pe >= 2000 pei (13.8 MPa) Concrete	f'c >= 4000 psi (27.6 MPa) Concrete	f'e >= 2000 psi (13.8 MPa) Concrete	Code Ref.
(ln)	Dia. (in)	(in)	(in)	Edge Dist. (In)	Allowable lbs.	Allowable ibs.	Aliowable lbs.	
3/16'	5/32	1	21/4	11/6	125	160	255]
3/16	5/32	11/2	21/4	11/8	305	460	415	131
1/4	3/16	1.0	3	11/2	145	180	225] '''
1/4	3/16	11/2	3	11/2	365	500	400	

- These loads also apply to masonry.
 The Designer shall verify allowable load of the attached member or element as it may govern the allowable load.

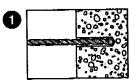
Titen Drill Bit

Titen Drill Bit / Driver

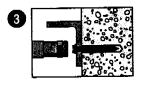


Special hex adaptor on the bit allows the Titen Installation Tool to slide over the bit and lock in, ready to drive screws

Titen Installation Sequence







SDS and SD Wood Screws

Available with additional corrosion protection. Check with factory.

	Wood Screw				Dea ••j		rek/Sout	horn Pil ds ⁱ	i de Gara			ruce-Pine wable Lo	ads†		
Model No.	Description (Metric Equivalent)	T	Finish ²	Fasteners per Carton	Sheed Wood to	Na:	e 3 je ⁹ Shear	Withd (i)		Shear* Wood to		o 3 ga ¹³ Shear	Withd: (ib		Code*
	(mm)			Carton	Wood (DF to DF)	da	(133) 150) ¹⁴	(100)	(133/ 150) ¹⁴	Wood (SPF to SPF)	Shear (100)	(133/ 160) ¹⁴	(100)	(133/ 160) ¹⁴	
SD8x1.25*	5⁄2×11/4" (4.2 × 31.8)	_	EG			50	65		IIM7		45	60			170
SDS1/4 x 11/2	1/4 x 11/2" (6.1 x 38)	1	ZINC	1500	_	295	390	170	230		245	325	120	160	1
SDS1/4 x 11/2HDG	1/4 x 11/2" (6.1 x 38)	1	HDG	1500	_	295	390	170	230		245	325	120	160	ı
SDS1/4 x 13/4	1/4 x 13/4" (6.1 x 44.5)	11/4	ZINC	1400		295	390	215	285		245	325	150	200	1
SDS1/4 x 2	1/4 x 2* (6.1 x 50.8)	11/4	ZINC	1300		470	625	215	285		395	525	150	200	l
SDS1/4 x 2HDG	1/4 x 2" (6.1 x 50.8)	11/4	HDG	1300		470	625	215	285		395	525	150	200	27, 96,
SDS1/4 x 21/2	1/4 x 21/2" (6.1 x 63.5)	11/4	ZINC	1100	-	470	625	255	345		395	525	180	240	126
SDS1/4 x 21/2HDG	1/4 x 21/2" (6.1 x 63.5)	11/2	HDG	1100	-	470	625	255	345		395	525	180	240	Į.
SDS1/4×3	1/4 x 3° (6.1 x 76.2)	2	ZINC	950	240	470	625	345	460	200	395	525	240	320	ł
SDS1/4 x 3HDG	1/4 x 3* (6.1 x 76.2)	2	HDG	950	240	470	625	345	460_	200	395	525	240	320	1
SDS1/4 x 31/2	1/4 x 31/2" (6.1 x 88.9)	21/4	ZINC	900	240	470	625	385	515	200	395	525	270	365	Į
SDS1/4 x 41/2	1/4 x 41/2" (6.1 x 114.3)	23/4	ZINC	800	260	470	625	475	630	220	395	525	330	445	Į
SDS1/4 x 6	1/4 x 6" (6.1 x 152.4)	31/4	ZINC	600	260	470	625	490	650	220	395	525	345	460	L

- 1. Allowable loads for SDS screws are based on testing per ASTM D1761.
 2. Metric equivalents are listed by Diameter x Length.
 3. Zinc = Yellow zinc dichromate, EG = Electrogalvanized,
 HDG = Hot-dip Galvanized.
 4. SDS screws install best with a low speed ½ drill with a ¾ hex head driver.
 5. Wood-to-wood applications are based on a wood thickness of 1½ side member. All applications are based on full penetration into the main member.
 6. Shear (100) values may be increased by the wood load duration factor, Cd, as permitted by the building code.
 7. DO NOT USE SD8x1.25" wood screws with structural connectors

- unless specifically stated in this catalog.

 8. SD8 requires ¾ minimum penetration.

 9. Load shown may not match code reports. New tested loads have been submitted to the Code Report Agencies.

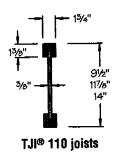
 10. The SDS screws with HDG finish will be supplied with their corresponding HDG or ZMAX™ connectors.

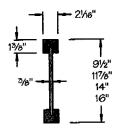
 11. SDS-HDG available in bulk or 50-piece retail pack.

 12. Loads based on NDS calculation for a ¥14 wood screw or tested ultimate/5. If thread penetration into main member is less than thread length T as shown in table, reduce allowable load by 172 lbs. x inches of thread not in main member. Use 121 lbs./inch for SPF.
- Shear: steel side member to wood main member.
 The (133/168) values for earthquake or wind loading may not be increased any further than shown.

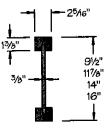
Trus Joist • TJI® Joist Specifier's Guide 2025 • May 2005

Not all products are available in all markets. Contact your Trus Joist representative for information.

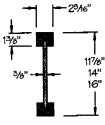




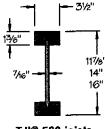
TJI® 210 joists



TJI® 230 joists



TJI® 360 joists



TJI® 560 joists

L/480 Live Load Deflection

	40 PSF	Live Load	10 PSF Dea	d Load	40 PSF	Live Load /	20 PSF Dea	d Load
Depth // TJI	12" 0.6.	16 a.c.	19.2" a.c.	24° s.c.	12" o.c.	18" 0.6:	19.2" 0.6.	24 a.c.
110	16'-5"	15'-0"	14'-2"	13'-2	16'-5"	15'-0"	13'-11'	12'-5"
8W 210	17'-3"	15'-9"	14'-10"	13'-10"	17'-3'	15'-9"	14'-10"	13'-8"
230	17'-8"	16'-2"	15'-3"	14'-2"	17'-8"	16'-2"	15'-3"	14'-2"
110	19'-6'	17'-10"	16'-10"	15'-5'(1)	19'-6"	17'-3"	15'-8"	14'-0"(1)
210	20'-6"	18'47	17-8	16'-5"	20'-6"	18'-8"	17'-3"	15'-5'(1)
1174* 234	21'-0"	19'-2"	18'-1"	16'-10"	21'-0"	19'-2"	18'-17	16'-3'(1)
36	22'-11'	201-111	19'-8"	18'-4"	22'-11'	20'-11'	19'-8"	17'-10"(1)
	26'-1"	23'-8'	22'-4"	20'-9"	26'-1"	23'-8'	22'-4"	20'-9"(1)
110	22'-2'	201-3*	18'-9"	16'-9'(1)	21'-8"	18'-9"	17'-1'(1)	14'-7'(1)
20	23'-8'	21'-3"	20'-0"	18'-4'(1)	23'-3"	20"-7"	18'-9'(1)	16'-2"(1)
10 20	23'-10"	21'-8'	20'-6"	19-1	23'-10"	21'-8'	19'-9"	17'-1"(1)
360	26'-0'	23'-8'	22'-4"	20'-9'(1)	26'-0"	23'-8*	22'-4'(1)	17'-10'(1)
- 560	29'-6'	26'-10"	25'-4"	23'-6"	29'-6"	26'-10"	25'-4'(1)	20'-11"(1)
	25'-9'	23'-6"	22'-0'(1)	19'-5'(1)	25'-5"	22'-0'(1)	20'-1'(')	16'-2"(1)
224	26'-5'	24'-1"	22'-9'	20'-7'(1)	26'-5"	23'-2"	21'-2"	17'-1*(1)
167 360	28'-9"	26'-3"	24'-6"(1)	21'-5"(1)	28-5	26'-3'(1)	221-41(1)	17'-10'(1)
589	32'-8'	29'-8"	28'-0"	25'-2'(1)	32'-F"	29'-8"	26'-3'(1)	20'-11'(1)

L/360 Live Load Deflection (Minimum Criteria per Code)

		48 PSF	Line Lead	/ 10 PSF Deal	Lord	40 PSF Live Load / 20 PSF Dead Load					
Dapte	ine:	12° o.c.	16" 0.6.	19.27 o.c.	24° e.c.	127 o.c.	16" o.c.	19.27 o.t.	24" a.c.		
	110	18'-2"	16'-7"	15'-3"	13'-8"	17'-8"	15'-3"	13'-11'	12'-5"		
9/2	218	19'-1'	17'-5"	16'-6"	15'-0"	19'-1'	16'-9"	15'-4"	13'-8"		
	230	19'-7"	17'-11'	16'-11'	15'-9"	19'-7"	17'-8"	16"-1"	14'-5'		
113324	410	21'-7"	18'-11"	17'-3"	15'-5'(1)	19*-11*	17'-3'	15'-8"	14'-0"(1)		
	210	22'-8"	20'-8"	18'-11'	16'-10"	21'-10"	18'-11"	17'-3"	15'-5"(1)		
1174	238	23'-3"	21'-3"	19'-11'	17'-9"	23'-0"	19'-11'	18'-2"	16'-3'(1)		
	350	25'-4'	23*-2*	21'-10"	20'-4"(1)	25'-4"	23'-2"	21'-10"(1)	17'-10"(1)		
	560	28'-10"	26'-3"	24'-9"	23'-0"	28'-10"	26'-3"	24'-9"	20'-11'(1)		
	110	23'-9"	20:-6	18'-9"	16'-9'(1)	21'-8"	18'-9"	17'-1'(1)	14'-7'(1)		
	210	25'-8"	22'-6"	20'-7"	18'-4'(1)	23'-9"	20'-7"	18'-9'(1)	16'-2"(1)		
147	238	26'-4"	23'-9'	21'-8"	19'-4'(1)	25'-0"	21'-8"	19'-9"	17'-1'(1)		
	360	28'-9"	26'-3"	24'-9"(1)	21'-5'(1)	28'-9"	28'-3'10	22'-4"(1)	17'-10"(1)		
and Mark	500	32'-8'	29'-9"	28'-0"	25'-2"(1)	22'-8"	29"-9"	25'-3'(1)	20'-11'(1)		
	440	27'-10"	24.1	22(-0"(1)	19'-5"(1)	25'-5"	22'-0'(1)	20'-1"(1)	16'-2"(1)		
	238	29'-2"	25'-5'	23'-2'	20'+7"(1)	26'-9"	23'-2"	21'-2"(1)	17'-1'(1)		
187	360	31'-10"	29'-0"	26'-10'(1)	21'-5'(1)	31'-10	26'-10"(1)	22'-4'(1)	17'-10'(1)		
	560	36'-1"	32'-11'	310.0)	25'-2"(1)	36'-1"	31'-6"(1)	26'-3'(1)	20'-11'(1)		

Long term deflection under dead load, which includes the effect of creep, has not been considered. **Beid Italic** spans reflect initial dead load deflection exceeding 0.33°.

(1) Web stiffeners are required at intermediate supports of continuous-span joists when the intermediate bearing length is less than 5¼* and the span on either side of the intermediate bearing is greater than the following spans:

	7,-20,-20,-20,-20,-20,-20,-20,-20,-20,-20
40 PSF Live Least /- 10 PSF Deast Loas	40 PSF Live Load / 20 PSF Dead Load
12" o.c. 16" o.c. 19.2" o.c. 24" o.c.	12" 0.c. 16" 0.c. 19.2" 0.c. 24" 0.c.
110 NA NA NA 15:4	N.A. N.A. 16'-0' 12'-9'
210 NA NA 21'-4' 17'-0	N.A. 21'-4" 17'-9" 14'-2"
230 N.A N.A N.A 19-2	N.A. N.A. 19-11 15:-11
360 NA NA 24'-5' 19'-6'	NA 24'-5" 20'-4" 16'-3"
560 NA NA 29'-10" 23'-10"	N.A. 29'-10" 24'-10" 19'-10"

How to Use These Tables

- Determine the appropriate live load deflection criteria.
- 2. Identify the live and dead load condition.
- 3. Select on-center spacing.
- Scan down the column until you meet or exceed the span of your application.
- 5. Select TJI® joist and depth.

Live load deflection is not the only factor that affects how a floor will perform. To more accurately predict floor performance, use our TJ-Pro™ Rating system.

General Notes

- · Tables are based on:
 - Uniform loads.
- More restrictive of simple or continuous span.
- Clear distance between supports (1¾' minimum end bearing).
- Assumed composite action with a single layer of 24° on-center span-rated, glue-nailed floor panels for deflection only. Spans shall be reduced 6" when floor panels are nailed only.
- Spans generated from Trus Joist software may exceed the spans shown in these tables because software reflects actual design conditions.
- For loading conditions not shown, refer to software or to load tables on page 5.