



PRODUCT CONTROL NOTICE OF ACCEPTANCE

Trus Joist
6001 Jackson Square, Suite 600
Lavergne, TN 37086

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

Your application for Notice of Acceptance (NOA) of:

TJI Joist

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 00-1228.03
EXPIRES: 08/14/2006

Raul Rodriguez
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL
CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 03/29/2001



Trus Joist.

ACCEPTANCE NO: 00-1228.03

APPROVED: MAR 29 2001

EXPIRES: 08/14/2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE.

- 1.1 This approves TJI joists by Trus Joist Mc Millan Ltd. as described in section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code, 1994 edition for Miami-Dade County (S.F.B.C) for the locations where the load requirements, as determined by SFBC chapter 23, do not exceed the design values indicated on the approved drawings.

2. PRODUCT DESCRIPTION.

- 2.1 The TJI joist by Trus Joist Mac Millan Ltd. shall be constructed in strict compliance with the following documents: Drawings name DADECOP1 & 2, titled "TJI Joist", prepared by Trus Joist Mac Millan, dated 02/14/01, with last revision on 02/14/01, sheets 1 and 2 of 2. They bear the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami Dade County Product Control Division. These documents shall herein after be referred to as the approved drawings.

3. LIMITATIONS.

- 3.1 TJI joists are approved to be used as floor and roof joist protected from rain and water.

4. INSTALLATION.

- 4.1 TJI joists shall be designed and installed in strict compliance with the approved drawings.

5. LABELING.

- 5.1 Each joist shall be permanently labeled with the manufacturer's name or logo, city, state and the following statement: "Miami Dade County Product Control Approved" or "MDCPCA".

6 BUILDING PERMIT REQUIREMENTS.

- 6.1 Application for building permit shall be accompanied by copies of the following:
- 6.1.1 This Notice of Acceptance.
- 6.1.2 Duplicate copies of the approved drawings, as identified in section 2 of this Notice of Acceptance clearly marked to show the joist selected for the proposed installation.
- 6.1.3 Any other document required by the Building Official or the SFBC in order to properly evaluate the installation of this system.



Candido Font, PE, Sr. Product Control Examiner
Product Control Division

Trus Joist.

ACCEPTANCE NO.: 00-1228.03

APPROVED: MAR 29 2001

EXPIRES: 08/14/2006

NOTICE OF ACCEPTANCE STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
 - b) The product is no longer the same product (identical) as the one originally approved;
 - c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
 - d) The engineer who originally prepared, signed and sealed the required documentation initially submitted is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a) Unsatisfactory performance of this product or process.
 - b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.
6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.



Candido F. Font PE. Sr. Product Control Examiner
Product Control Division

END OF THIS ACCEPTANCE

Trus Joist.

ACCEPTANCE NO: 00-1228.03

APPROVED: MAR 29 2001

EXPIRES: 08/14/2006

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED
(For File ONLY. Not part of NOA)

A DRAWINGS.

- 1 Drawings prepared by Trus Joist, titled "TJI Joist", drawing name DADECOP1 & 2, dated 02/14/01 with last revision on 02/14/2001, sheets 1 and 2 of 2, signed and sealed by A.G. Burk PE.

B TEST.

- 1 Test report of bending and shear test on "TJI Joist" before and after MDC durability standard for SCL, prepared by PFS Corporation, report # 97-36, dated 03/17/98, signed and sealed by E. Starostovic PE.
- 2 Test report of bending and shear test on "TJI Joist", prepared by PFS Corporation, report # 97-08, dated 06/01/98, signed and sealed by E. Starostovic, PE.
- 3 Test report of flexural strength, compression perpendicular to grain, compression parallel to grain, shear strength parallel to grain, nail withdrawal and lateral nail resistance on "LSL, PSL & LVL before and after MDC durability standard for SCL, prepared by PFS Corporation, report # 97-45, dated 01/05/98, signed and sealed by E. Starostovic, PE.

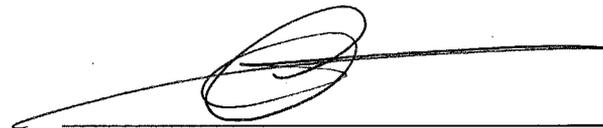
C CALCULATIONS. N/A

D MATERIAL CERTIFICATION.

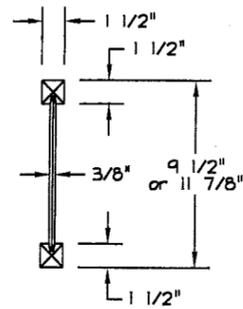
1. Dade County Joist Durability Study, prepared by Trus Joist MacMillan on 07/12-18/94, signed and sealed by G. R. Boone, PE.
2. TJI Wooden I-Joist summary-application prepared by Trus Joist MacMillan on 05/01/98, signed and sealed by A. G. Burk, PE.
3. National Evaluation Report # 119 by National Evaluation Service Inc. reissued on August 1, 1996.
4. National Evaluation Report # 481 by National Evaluation Service Inc. reissued on March 1, 1997
5. National Evaluation Report # 200 by National Evaluation Service Inc. reissued on August 1, 1995.

E STATEMENT.

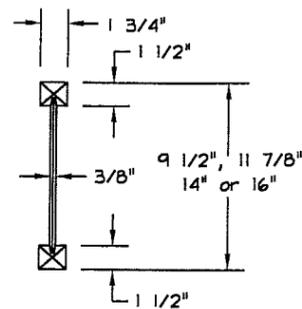
1. Leter of no-change issue by Trus Joist on 02/09/2001, signed and sealed by A. G. Burk.
2. Agreement of dissolution of Trus Joist MacMillan, dated 12/31/2000, signed by the VP of TJ International & Weyerhaeuser Co., R.A. Dowdy.



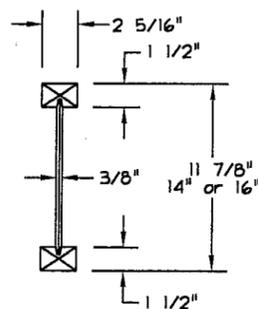
Candido F. Font, PE Sr. Product Control Examiner
Product Control Division



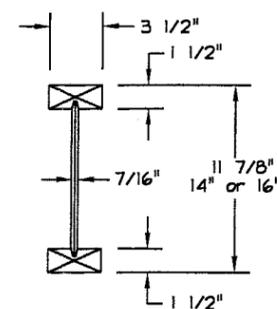
TJI®/Pro™150 joists



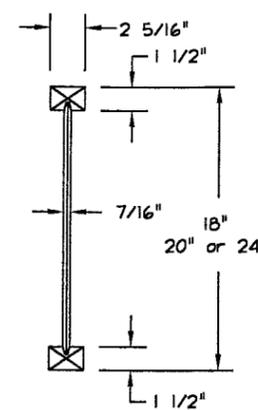
TJI®/Pro™250 joists



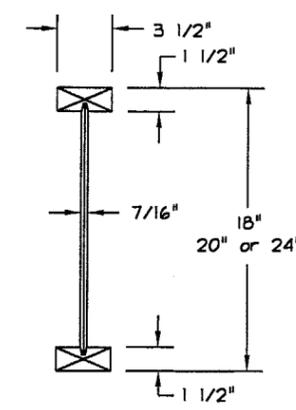
TJI®/Pro™350 joists



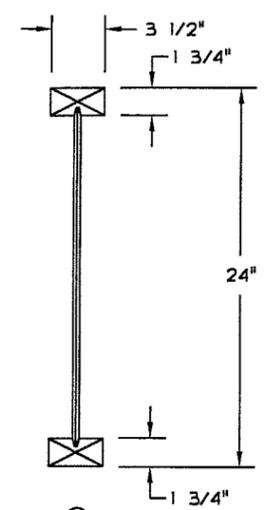
TJI®/Pro™550 joists



TJI®/L60 Joist



TJI®/L90 Joist



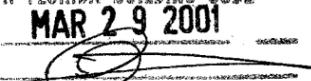
TJI®/H90 Joist

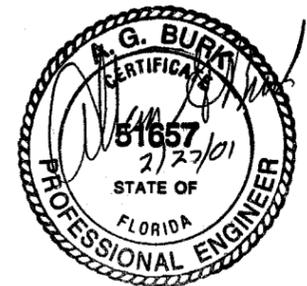
Description:

- The TJI® joist is an I-joist with structural composite wood flanges and webs. The web is made of Performance Plus™ OSB and the flanges are made of Microllam® LVL as shown in Table 1. The top and bottom flanges are placed to create a constant depth joist (parallel).
- The Performance Plus™ OSB web conforms to APA PRP 108, Exposure 1, along with additional requirements set forth in the manufacturing standard. Performance Plus™ OSB web material is produced in mills which subscribe to quality control supervision and inspection by American Plywood Association (NER-QA397). Additional mill inspection is provided by PFS Corporation (NER-QA251) to ensure compliance with the additional unique requirements of the Trus Joist manufacturing standard.
- The Microllam® LVL flange is manufactured according to manufacturing standards specified in National Evaluation Service Report No. NER-481. Flange grades for TJI® joists are shown in Table 1.
- The web joints are serrated as required in the manufacturing standard. The web to flange connection is made by inserting the web into a rout in the center face of the flange members. The adhesive is of the type specified in the TJM manufacturing standard and meets the requirements described in ASTM D-2559.
- The TJI® joist is produced in a continuous fabrication process in lengths up to 80'. The flange and web member are fed into a machine, which assembles them into the finished product. They are cut to the desired length as they leave the assembled machine and are stacked in a controlled environment (oven) to allow the adhesive to cure.
- TJI® joists with Performance Plus™ webs were evaluated and meet the requirements of the Metro Dade County Durability Evaluation Standard for Structural Composite Lumber Products.

Table 1. Joist Description

Joist Series	Flange Grade	Flange Size (in)	Web Thickness (in)	Joist Depths (in)
TJI®/Pro-150	2.1	1.5 x 1.5	3/8	9 1/2" to 11-7/8"
TJI®/Pro-250	2.1	1.5 x 1.75	3/8	9 1/2" to 16"
TJI®/Pro-350	2.0	1.5 x 2.30	3/8	11-7/8" to 16"
TJI®/Pro-550	2.0	1.5 x 3.5	7/16	11-7/8" to 16"
TJI®/L60	2.1	1.5 x 2.3	7/16	18" to 24"
TJI®/L90	2.1	1.5 x 3.5	7/16	18" to 24"
TJI®/H90	2.1	1.75 x 3.5	7/16	24"

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE **MAR 29 2001**
 BY 
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 00-1228-03



SHEET NUMBER

1 OF 2

FILE NAME
D:\BDCOP1

DRAWN BY:

B.J.R.

DATE:

2/14/01

SCALE:

N.T.S.

DESCRIPTION

TJI® Joist

General information.



Trus Joist
A Weyerhaeuser Business

SOUTHEAST REGIONAL ENGINEERING DEPARTMENT
 6001 Jackson Square, Suite 600, LaVergne, TN. 37086
 800-854-5647 FAX: 615-793-7721

REVISIONS

NO.	BY	DATE
1	B.J.R.	8/11/98
2	B.J.R.	2/14/01
3		

General Notes:

- Minimum Bearing Length
 - 1 1/4" minimum bearing is required at joist ends
 - 3 1/2" minimum bearing is required at intermediate supports.
- Web Stiffeners shall be installed at bearing points as required in Table 2.
 - Web stiffeners shall be installed at points of concentrated loads greater than 1500 lbs and are to be nailed in accordance with the intermediate reaction schedule in Table 2.
 - Web stiffeners are to be installed on each side of the web as shown, with nails equally spaced vertically.
 - A gap shall be left at the top of web stiffeners as shown at all bearing conditions. In the case of concentrated loads, web stiffeners are required as shown and the gap shall be at the bottom.
 - Web stiffener material shall be sheathing meeting the requirements of PS1 or PRP108 with the face grain parallel to the long axis. Web stiffeners for TJI®/Pro-550, TJI®/L60, TJI®/L90 and TJI®/H90 shall be minimum Construction grade 2x4.
 - Some hangers require web stiffeners to comply with nailing through side plates.
 - If web stiffeners are not used in hanger support, the side of the hanger shall extend up to laterally support the top flange.
- For joists qualifying as repetitive members, the bending resistance is permitted to be increased 4 percent.
- Lateral Support

The top flange of TJI® joists must be laterally supported at least every 24 inches except that 18 inches is required for joists with flanges equal to or less than 2.0 inches wide. Additional bracing may be necessary for the bottom flanges of cantilevered joists. The ends of TJI® joists must be restrained to prevent rollover.
- Hole Charts
 - If more than one hole is to be cut in the web, the length of the uncut web between holes shall be twice the dimension of the largest adjacent hole. Holes are permitted vertically anywhere within the web. Refer to SBCCI report No. 9752 for allowable hole sizes and spacings.
 - TJI® joists are manufactured with 1 1/2" perforated knockouts in the web at approximately 12" o.c. along the length of the joist.
- Load Bearing Cantilevers are allowable as shown in Trus Joist TJI® literature.
- Current details for blocking panels, rim board, and installation details are shown in Trus Joist TJI® literature.
- Drawings and/or specifications for the erection and installation of the TJI® joists for each job shall be strictly adhered to and a copy of these instructions shall be available at all times on the jobsite during installation.

Formulas for approximate uniform load deflection for simple span joists.

For TJI®/Pro-150, TJI®/Pro-250 and TJI®/Pro-350:

$$\Delta = \frac{22.5 wL^4}{EI} + \frac{2.67 wL^2}{d \times 10^5}$$

w = uniform load (lbs/ft)
 L = clear span (ft)
 d = depth of Joist (in)
 EI = Stiffness values from table

For TJI®/Pro-550, TJI®/L60, TJI®/L90 and TJI®/H90

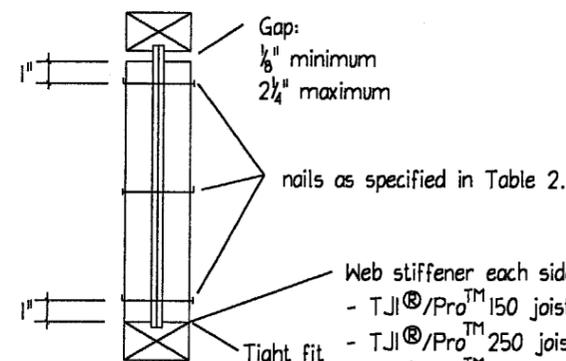
$$\Delta = \frac{22.5 wL^4}{EI} + \frac{2.29 wL^2}{d \times 10^5}$$

Table 2.

Series	Depth (inches)	Stiffness EI x 10 ⁶ (in ² -lbs.)	Shear (lbs.)	Moment Capacity (ft.-lbs.)	Published Design Values									
					End Bearing (lbs.)			Intermediate Bearing (lbs.)						
					1.75"		3.5"	3.5"		5.25"		Nails		
No	Yes	Web Stiffeners	Web Stiffeners	Nails	Web Stiffeners	Web Stiffeners	Web Stiffeners	Web Stiffeners	Nails	Req'd.				
Pro 150	9.5	160	1120	2730	945	---	1120	---	---	1895	---	2440	---	---
	11.875	276	1420	3620	945	---	1420	---	---	1895	---	2440	---	---
Pro 250	9.5	185	1120	3210	1015	---	1120	---	---	2030	---	2575	---	---
	11.875	319	1420	4260	1015	---	1420	1420	3-8d	2030	2385	2575	2930	3-8d
	14	474	1710	5210	1015	---	1560	1710	5-8d	2030	2480	2575	3170	5-8d
Pro 350	16	653	1970	6075	1015	---	1560	1970	6-8d	2030	2480	2575	3290	6-8d
	11.875	395	1420	5000	1160	---	1420	1420	3-8d	2320	2680	2870	3225	3-8d
	14	584	1710	6135	1160	---	1615	1710	5-8d	2320	2915	2870	3465	5-8d
	16	801	1970	7205	1160	---	1615	1970	6-8d	2320	3035	2870	3580	6-8d
Pro 550	11.875	593	1925	7675	1400	---	1885	1925	2-16d	3355	3670	3970	4285	2-16d
	14	874	2125	9420	1400	---	1885	2125	3-16d	3355	3830	3970	4445	3-16d
	16	1192	2330	11065	1400	---	1885	2330	4-16d	3355	3985	3970	4605	4-16d
L60	18	1119	2535	8825	1315	1505	1885	2535	7-8d	2625	3330	3245	4115	7-8d
	20	1437	2740	9905	---	1505	---	2740	8-8d	---	3330	---	4235	8-8d
	24	2214	3060	11635	---	1505	---	3010	10-8d	---	3330	---	4485	10-8d
L90	18	1635	2535	13680	1400	2030	1885	2515	4-16d	3355	3985	3970	4605	4-16d
	20	2085	2740	15360	---	2190	---	2675	5-16d	---	4145	---	4760	5-16d
	24	3172	3060	18060	---	2345	---	2830	6-16d	---	5195	---	6025	13-16d
H90	24	3549	3060	20810	---	2345	---	3010	6-16d	---	5195	---	6155	13-16d

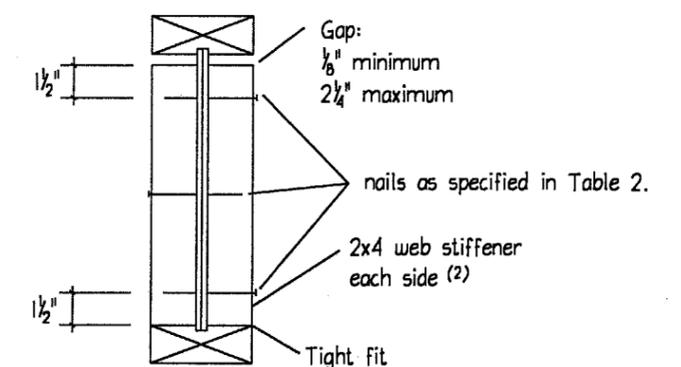
WEB STIFFENER ATTACHMENT

TJI®/Pro™ 150, 250, 350 & TJI®/L60 Joists



- Web stiffener each side (1):
- TJI®/Pro™ 150 joists: 1/2" x 2 5/8" minimum
 - TJI®/Pro™ 250 joists: 5/8" x 2 5/8" minimum
 - TJI®/Pro™ 350 joists: 1" x 2 5/8" minimum
 - TJI®/L60 joists: 1" x 2 5/8" minimum

TJI®/Pro™ 550, & TJI®/L90, H90 Joists



- (1) Web stiffener material shall be sheathing meeting the requirements of PS 1 or PS 2 with face grain parallel to long axis.
 (2) 2x4 construction grade or better.

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE **MAR 29 2001**
 BY _____
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 00-1228-03



SHEET NUMBER 2 OF 2	DRAWN BY: B.J.R. DATE: 2/14/01	DESCRIPTION TJI® Joist Properties and installation details.	 A Weyerhaeuser Business SOUTHEAST REGIONAL ENGINEERING DEPARTMENT 6001 Jackson Square, Suite 600, LaVergne, TN. 37086 800-854-5647 FAX: 615-793-7721	REVISIONS		
				NO.	BY	DATE
FILE NAME D5DE.C0P2	SCALE: N.T.S.		1	B.J.R.	8/1/98	
			2	B.J.R.	2/14/01	
			3			