



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

PRODUCT CONTROL NOTICE OF ACCEPTANCE

United Steel Products Company
703 Rogers Drive (P. O. Box 80)
Montgomery, MN 56069

Your application for Notice of Acceptance (NOA) of:

Face Mount Joist Hangers And Framing Angles

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.: 01-0417.11
EXPIRES: 07/09/2006

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: 06/28/2001

United Steel Products Company.

ACCEPTANCE NO: 01-0417.11

APPROVED: JUN 28 2001

EXPIRES: 07/09/2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This renews the Notice of Acceptance No. 98-0421.06, which was issued on 07/09/98. It approves wood connectors; as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County. For the locations where the actual loads as determined by SFBC Chapter 23, do not exceed the design load indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The **United Steel Wood Connectors** shall be fabricated and used in strict compliance with the following documents: Drawing No. JUS/JA/MP, sheet 1 of 1, titled "Face Mount Joist Hangers and Framing Angles", prepared by United Steel Products Company, dated 04/06/01 with no revisions. The drawings shall bear the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

3.1 Allowable loads are for Douglas Fir or better with a specific gravity of 0.50 and moisture content of 19% or less.
3.2 Allowable loads are based on testing per ASTM D1761 and calculations per National Design Specifications for Wood Construction 1991 Edition & 1993 Errata.

4. INSTALLATION

4.1 The wood connectors shall be installed in strict compliance with the approved drawings.

5. LABELING

5.1 Each wood connector shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved".

6. BUILDING PERMIT

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 hangers and angles 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 these products.



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

United Steel Products Company.

ACCEPTANCE NO.: 01-0417.11

APPROVED: JUN 28 2001

EXPIRES: 07/09/2006

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

END OF THIS ACCEPTANCE

United Steel Products Company.

ACCEPTANCE NO: 01-0417.11

APPROVED: JUN 28 2001

EXPIRES: 07/09/2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS
(For File ONLY. Not part of NOA)

A DRAWINGS

1. Drawings prepared by United Steel Products Company, titled "Face Mount Joist Hangers and Framing Angles", Drawing No. JUS/JA/MP, sheet 1 of 1, dated 04/06/01 with no revisions, signed and sealed by T. A. Kolden, PE.

B TEST

Test reports on wood connectors per ASTM D1761 by Maxim Technologies Inc., signed and sealed by S. L. Muschinske, PE.

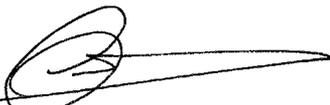
| | Report No. | Wood Connector | Direction | Date |
|----|-------------------|-----------------------|------------------|-------------|
| 1. | 3013-71-5327 | JUS Series | Upward & Down | 03/06/98 |
| 2. | 3013-71-5327 | JA Series | Upward & Down | 03/06/98 |
| 3. | 3013-71-5327 | MP Series | Upward & Down | 03/06/98 |

C CALCULATIONS

- 1 JUS Series Calculations prepared by T. A. Kolden, signed and sealed by T. A. Kolden PE on 04/10/2001.

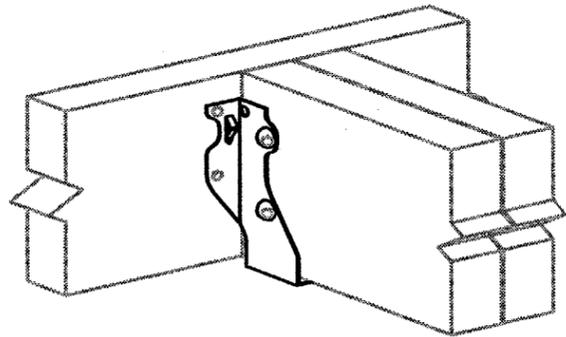
D STATEMENTS

1. No Financial Interest & Code Compliance letter issued by Thomas A. Kolden, PE., signed by T.A. Kolden, PE. and notarized on 03/19/98 by M. E. Steinhouse.
2. Merger Documents issued by the State of Minnesota on 02/14/200 and signed by the Secretary of State, M. Kiffmeyer.

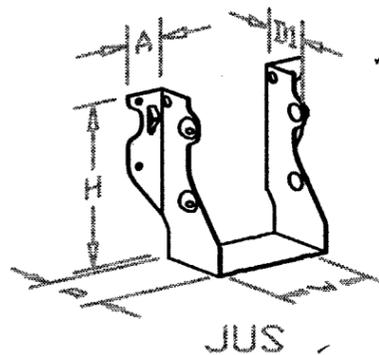


Candido Font, PE, Sr. Product Control Examiner
Product Control Division

JUS JOIST HANGERS



TYPICAL JUS INSTALLATION

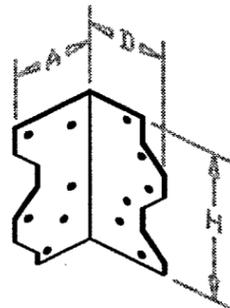


JUS

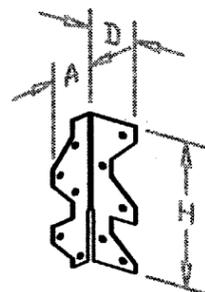
| PRODUCT CODE | STEEL GAUGE | DIMENSIONS (in.) | | | | | FASTENERS | | ALLOWABLE LOADS (lbs.) | |
|--------------|-------------|------------------|--------|---|---|----|-----------|---------|------------------------|--------|
| | | W | H | D | A | D1 | HEADER | JOIST | DOWN | UPLIFT |
| JUS24-2 | 18 | 3 1/8 | 3 1/2 | 2 | 1 | 1 | 4 - 16d | 2 - 16d | 715 | NA |
| JUS26-2 | 18 | 3 1/8 | 5 1/4 | 2 | 1 | 1 | 4 - 16d | 4 - 16d | 1005 | 1215 |
| JUS28-2 | 18 | 3 1/8 | 7 1/4 | 2 | 1 | 1 | 6 - 16d | 4 - 16d | 1270 | 1215 |
| JUS210-2 | 18 | 3 1/8 | 9 1/4 | 2 | 1 | 1 | 8 - 16d | 6 - 16d | 1775 | 1820 |
| JUS212-2 | 18 | 3 1/8 | 11 1/4 | 2 | 1 | 1 | 10 - 16d | 6 - 16d | 2040 | 1820 |
| JUS44 | 18 | 3 5/8 | 3 1/4 | 2 | 1 | 1 | 4 - 16d | 2 - 16d | 715 | NA |
| JUS46 | 18 | 3 5/8 | 5 | 2 | 1 | 1 | 4 - 16d | 4 - 16d | 1005 | 1215 |
| JUS48 | 18 | 3 5/8 | 7 | 2 | 1 | 1 | 6 - 16d | 4 - 16d | 1270 | 1215 |
| JUS410 | 18 | 3 5/8 | 9 | 2 | 1 | 1 | 8 - 16d | 6 - 16d | 1775 | 1820 |
| JUS412 | 18 | 3 5/8 | 11 | 2 | 1 | 1 | 10 - 16d | 6 - 16d | 2040 | 1820 |
| JUS24-3 | 18 | 4 5/8 | 2 3/4 | 2 | 1 | 1 | 4 - 16d | 2 - 16d | 715 | NA |
| JUS26-3 | 18 | 4 5/8 | 4 1/2 | 2 | 1 | 1 | 4 - 16d | 4 - 16d | 1005 | 1215 |
| JUS28-3 | 18 | 4 5/8 | 6 1/2 | 2 | 1 | 1 | 6 - 16d | 4 - 16d | 1270 | 1215 |
| JUS210-3 | 18 | 4 5/8 | 8 1/2 | 2 | 1 | 1 | 8 - 16d | 6 - 16d | 1775 | 1820 |
| JUS212-3 | 18 | 4 5/8 | 10 1/2 | 2 | 1 | 1 | 10 - 16d | 6 - 16d | 2040 | 1820 |

- 1 Minimum header thickness shall be 2 inches for 16d nails.
- 2 Specified joist nails shall be installed at 30 - 45 degrees horizontally such that they penetrate through the end of the joist and into the header.

MP & JA FRAMING ANGLE CONNECTORS



JA



MP

| PRODUCT CODE | STEEL GAUGE | DIMENSIONS (in.) | | | | FASTENERS | | ALLOWABLE LOADS (lbs.) | |
|--------------|-------------|------------------|---------|-------|-------|--------------|---------------|------------------------|--------|
| | | W | H | D | A | HEADER | JOIST | DOWN | UPLIFT |
| JA3G | 14 | --- | 3 | 2 1/2 | 2 1/2 | 4 16d | 4 10d x 1 1/2 | 265 | NA |
| JA5G | 14 | --- | 5 | 2 1/2 | 2 1/2 | 6 16d | 6 10d x 1 1/2 | 550 | 735 |
| MP34 | 18 | --- | 2 13/16 | 1 3/8 | 1 3/8 | 3 8d x 1 1/2 | 3 8d x 1 1/2 | 265 | NA |
| MPA1 | 18 | --- | 4 1/2 | 1 3/8 | 1 3/8 | 5 8d x 1 1/2 | 5 8d x 1 1/2 | 445 | NA |

- 1 Minimum header thickness shall be 2 inches for 16d nails, and 1 1/2 inches for all others specified.
- 2 Load values are for Framing Angles installed singly, and may be doubled if installed in pairs.
- 3 The joist shall be a minimum of 1 1/2 inches thick.

GENERAL NOTES

- 1) STEEL SHALL CONFORM TO ASTM A653, STRUCTURAL GRADE 33; U.D.N. AND A MINIMUM GALVANIZED COATING OF G-60
- 2) FASTENERS ARE COMMON WIRE NAILS UNLESS OTHERWISE NOTED
- 3) ALLOWABLE UPLIFT LOADS HAVE BEEN INCREASED BY A SHORT TERM DURATION FACTOR OF 33% FOR WIND LOAD CONDITION. NO FURTHER INCREASE ALLOWED.
- 4) ALLOWABLE DOWN LOADS ARE NOT INCREASED BY SHORT TERM DURATION FACTOR
- 5) ALLOWABLE LOADS ARE BASED ON THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION 1997 EDITION, FOR DOUGLAS FIR (G= 0.50 OR BETTER) & TEST PERFORMED IN ACCORDANCE WITH ASTM D1761

UNITED STEEL PRODUCTS CO
703 ROGERS DRIVE
MONTGOMERY MN 56069

FACE MOUNT JOIST
HANGERS AND
FRAMING ANGLES

DATE: 04/06/01
DRAWING NUMBER: JUS/JA/MP
SHEET NUMBER: 1 OF 1

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE JUN 28 2001
BY [Signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0417.11

[Signature]
5.24.2001
THOMAS A. KOLDEN, P.E.
CIVIL NUMBER FL#50899

TYPICAL MP INSTALLATION
JA INSTALLATION SIMILAR