



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:

Wood Connectors

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.: 00-0822.01
EXPIRES: 08/21/2003

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: 11/02/2000

United Steel Products Company.

ACCEPTANCE NO: 00-0822.01

APPROVED: NOV 0 2 2000

EXPIRES: 08/21/2003

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

- 1.1** This renews and revises the Notice of Acceptance No. 97-0205.03, which was issued on 02/21/97. 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 **USP Wood Connectors** shall be fabricated and used in strict compliance with the following documents: Drawing No. 1 & 2 and sheets 1 & 2, titled "EHUH SERIES JOIST HANGERS and UH AND ST SERIES HANGERS", prepared by United Steel Products Company, dated 9/26/00 & 9/27/00 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 Southern Yellow Pine or better with a specific gravity of 0.55 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

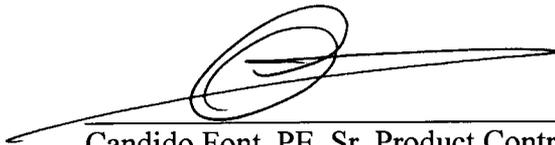
- 4.1** The wood connectors shall be installed in strict compliance with the approved drawings.

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.

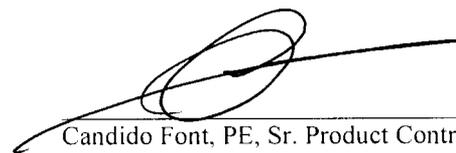
ACCEPTANCE NO.: 00-0822.01

APPROVED: 11/02/2000

EXPIRES: 08/21/2003

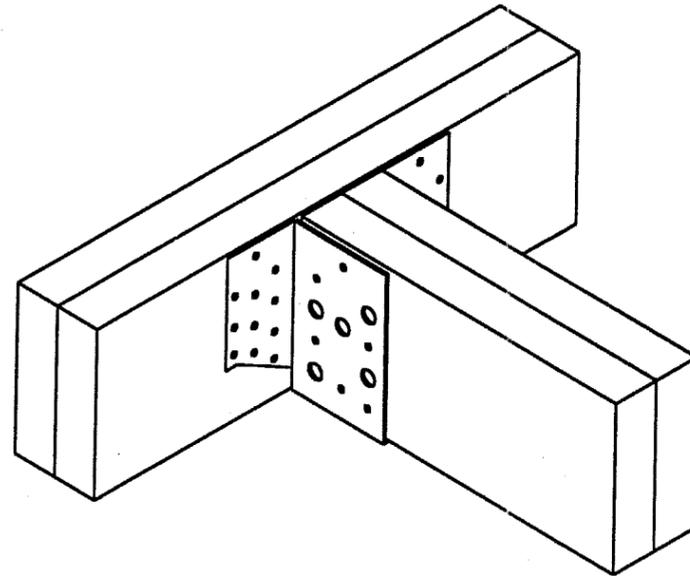
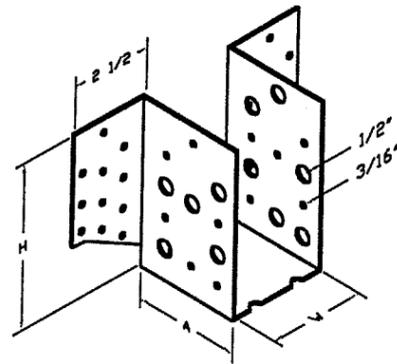
NOTICE OF ACCEPTANCE STANDARD CONDITIONS

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



EXTRA HEAVY CONNECTOR 14 GAUGE

Product Code	Joist Size	Dimensions			Fastener		Design Loads	
		W	H	A	Header	Joist	Down	Uplift
EHUH 26 ²	2 x 6	1 5/8"	5 1/4"	3 1/2"	20-16d	10-10d x 1.5"	2385	1200
EHUH 26N ²	2 x 6	1 5/8"	5 1/4"	3 1/2"	20-HN20A	10-HN20A	3160	1730
EHUH 28 ²	2 x 8	1 5/8"	7 1/4"	3 1/2"	28-16d	14-10d x 1.5"	3470	1845
EHUH 28N ²	2 x 8	1 5/8"	7 1/4"	3 1/2"	28-HN20A	14-HN20A	4110	2515
EHUH 210 ²	2 x 10	1 5/8"	9 1/4"	3 1/2"	32-16d	16-10d x 1.5"	3965	2110
EHUH 210N ²	2 x 10	1 5/8"	9 1/4"	3 1/2"	32-HN20A	16-HN20A	4700	2875
EHUN 26-2	(2) 2 x 6	3 1/8"	5 3/8"	3 1/2"	22-16d	11-10d x 1.5"	2875	1690
EHUH 26-2N	(2) 2 x 6	3 1/8"	5 3/8"	3 1/2"	22-HN20A	11-HN20A	3285	2195
EHUH 28-2	(2) 2 x 8	3 1/8"	7 3/8"	3 1/2"	32-16d	14-10d	4185	2155
EHUH 28-2N	(2) 2 x 8	3 1/8"	7 3/8"	3 1/2"	32-HN20A	14-HN20A	4775	2790
EHUH 28-3	(3) 2 x 8	5 1/8"	6 13/16"	3 1/2"	40-16d	16-10d	5190	2645
EHUH 28-3N	(3) 2 x 8	5 1/8"	6 13/16"	3 1/2"	40-HN20A	16-HN20A	5335	2850
EHUH 210-2	(2) 2 x 10	3 1/8"	9 3/8"	3 1/2"	40-16d	16-10d	5190	1645
EHUH 210-2N	(2) 2 x 10	3 1/8"	9 3/8"	3 1/2"	40-HN20A	16-HN20A	5335	2850
EHUH 46	4 x 6	3 9/16"	5 1/8"	3 1/2"	22-16d	11-10d	2875	1690
EHUH 46N	4 x 6	3 9/16"	5 1/8"	3 1/2"	22-HN20A	11-HN20A	3285	2195
EHUH 48	4 x 8	3 9/16"	7 1/8"	3 1/2"	32-16d	14-10d	4185	2155
EHUH 48N	4 x 8	3 9/16"	7 1/8"	3 1/2"	32-HN20A	14-HN20A	4775	2790
EHUH 410	4 x 10	3 9/16"	9 1/8"	3 1/2"	40-16d	16-10d	5190	2715
EHUH 410N	4 x 10	3 9/16"	9 1/8"	3 1/2"	40-HN20A	16-HN20A	5335	2850

Note: 1) Penetration of fastener in header is 2" for 16d nail and 1 3/4" for HN20A.

Note: 2) Penetration of fastener in joist is 1 1/2".

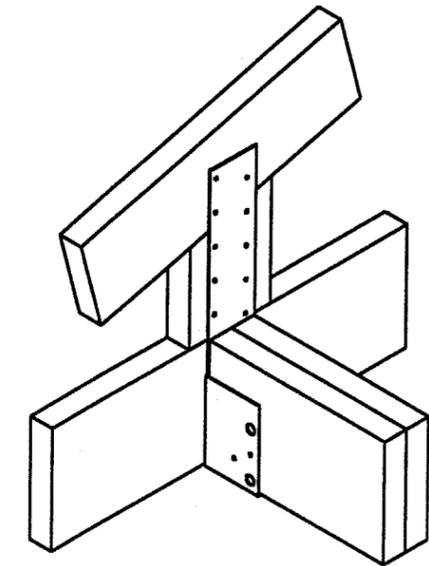
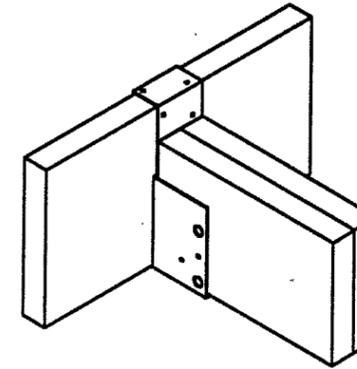
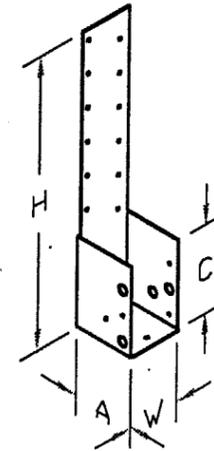
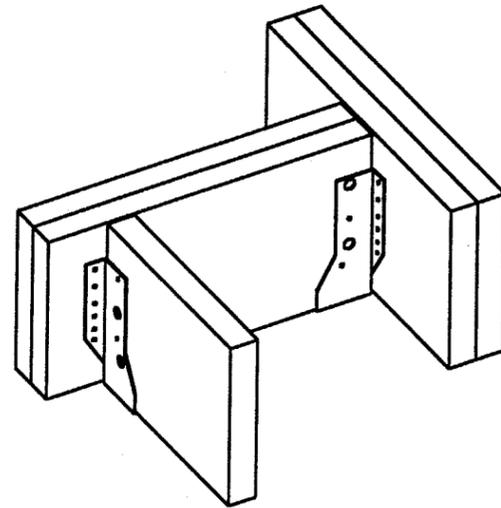
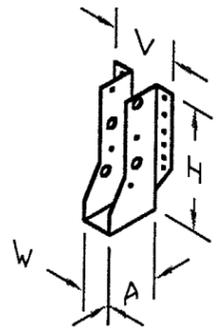
GENERAL NOTES

- 1) STEEL SHALL CONFORM TO ASTM A653 STRUCTURAL GRADE 33; U. S. N.
- 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 IS ALLOWED
- 4) ALLOWABLE DOWN LOADS ARE NOT INCREASED BY SHORT TERM DURATION FACTOR

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE November 02, 2000
BY 
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-0822.01

FOR OFFICE USE

UNITED STEEL PRODUCTS COMPANY	
703 RODGERS DRIVE	
MONTGOMERY, MN 56069	
TITLE: EHUH SERIES JOIST HANGERS	
DRAWING NUMBER 1	SHEET NUMBER 1
DRAWING DATE 9/26/00	REVIEW DATE 9/26/00
 9/26/00	
THOMAS A. KOLDEN, CIVIL ENGINEER, FPG #50899	



JOIST HANGER U-TYPE 18 GAUGE

JOIST HANGER STRAP TYPE

Product Code	Joist Size	Dimensions					Fasteners		Design Load			
		A	B	H	W	V	Header	Joist	16d 100%	16d Up lift	20d 100%	20d Up lift
UH 24 ¹	2 x 4	3"	1"	3 1/4"	1 5/8"	3 3/4"	4	2	580	----	700	----
UH 261 ¹	2 x 6	3"	1"	5 1/4"	1 5/8"	3 3/4"	8	3	1160	720	1400	785
UH 281 ¹	2 x 8	3"	1"	7 1/4"	1 5/8"	3 3/4"	12	4	1740	735	2100	1110
UH 210 / 212 ¹	2 x 10 / 12	3"	1"	9 1/4"	1 5/8"	3 3/4"	16	5	2320	900	2800	1440
UH 2-26	(2) 2 x 6	3"	1"	4 1/2"	3 1/8"	5 1/4"	8	3	1160	----	1400	700
UH 2-28	(2) 2 x 8	3"	1"	6 1/2"	3 1/8"	5 1/4"	12	4	1740	775	2100	935
UH 2-210	(2) 2 x 10	3"	1"	8 1/2"	3 1/8"	5 1/4"	16	5	2320	965	2800	1165
UH 36	3 x 6	3"	1"	4 3/4"	2 5/8"	4 3/4"	8	3	1160	----	1400	700
UH 38	3 x 8	3"	1"	6 3/4"	2 5/8"	4 3/4"	12	4	1740	775	2100	935
UH 310 / 312	3 x 10 / 12	3"	1"	8 3/4"	2 5/8"	4 3/4"	16	5	2320	965	2800	1165
UH 46	4 x 6	3"	1"	5 1/4"	3 5/8"	5 3/4"	10	3	1450	----	1750	700
UH 48	4 x 8	3"	1"	7 1/4"	3 5/8"	5 3/4"	14	4	2030	775	2450	935
UH 3-210	(3) 2 x 10	3"	1"	8 7/16"	4 5/8"	6 5/8"	18	6	2610	1160	3150	1400

Product Code	Dimensions				Fasteners		Design Loads	
	H	A	C	W	Header	Joist	Down	Up
ST 201	13 1/4"	3-5/8"	5 1/4"	1-5/8"	8-16d	6-16d	1170	705
ST 2-201	13 1/4"	3-5/8"	5 1/4"	3-1/8"	8-16d	6-16d	1170	705
ST 401	13 1/4"	3-5/8"	5 1/4"	3-5/8"	8-16d	6-16d	1170	705
ST 202	17 1/4"	3-5/8"	5 1/4"	1-5/8"	12-20d	6-16d	1965	----
ST 2-202	17 1/4"	3-5/8"	5 1/4"	3-1/8"	12-20d	6-16d	2100	725
ST 402	17 1/4"	3-5/8"	5 1/4"	3-5/8"	12-20d	6-16d	2100	725
ST 424	24"	3-5/8"	5 1/4"	3-5/8"	12-20d	6-16d	2100	725

- Note 1) Back strap 16 gauge and bucket 18 gauge
 2) Penetration of fasteners in header is 2" for 16d nails and 2-3/8" for 20d nails
 3) Nail on 1 1/2" buckets shall be long enough to be driven through both plates.

- Notes 1) Nails on joist shall be long enough to be driven through both plates and clinched.
 2) Penetration of fasteners in header and joist shall be 2" for 16d nails and 2 3/8" for 20d nails.

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE November 02, 2000
 BY [Signature]
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 00-082201

FOR OFFICE USE

	UNITED STEEL PRODUCTS COMPANY
	703 RODGERS DRIVE
	MONTGOMERY, MN 56069
	TITLE: UH AND ST SERIES HANGERS
	DRAWING SHEET DRAWING REVIEW
	NUMBER 2 NUMBER 2 DATE 9/27/00 DATE 9/27/00
	<u>[Signature]</u>
	THOMAS A. KOLDEN, CIVIL ENGINEER, FPG #50899