



**BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION**

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

**NOTICE OF ACCEPTANCE (NOA)**

**United Steel Products Co.  
703 Rogers Drive.  
Montgomery, MN 56069**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BCPRC reserves the right to revoke this acceptance, if it is determined by Miami-Dade county Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: Wood Connectors MSH Series.**

**APPROVAL DOCUMENT:** Drawing No.0103MD, titled "MSH SERIES ADJUSTABLE STRAP HANGERS" sheet 1 & 2, with no revisions, dated 04/25/03, prepared by United Steel Products Company signed and sealed by R. W. Lutz, PE, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance (NOA) number and approval date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: None**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA 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 NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This consists of this page 1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Candido F. Font PE.**

*[Handwritten Signature]*  
5/22/08



**NOA No: 03-0206.03  
Expiration Date: May 22, 2008  
Approval Date: May 22, 2003  
Page 1**

**United Steel Products Company.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

(For File ONLY. Not part of NOA)

**A. DRAWINGS**

1. Drawing No. 0103MD, dated 04/25/03, sheets 1 & 2, with no revisions, prepared by United Steel Products Company, titled "MSH SERIES ADJUSTABLE STRAP HANGERS" signed and sealed by R. W. Lutz, PE.

**B. TESTS**

**Test reports on wood connectors per ASTM D1761, signed and sealed by C.R. Caudel, PE & J. D. Lee PE.**

	Laboratory Report	Wood Connector	Direction	Date
1.	PTI # 02-3927-2	MSH 29	Up & Down	11/26/02.
2.	PTI # 02-3924	MSH 218	Up & Down	10/21/02
3.	PTI # 02-3925	MSH 222	Up & Down	12/16/02
4.	PTI # 02-3923	MSH 213-2	Up & Down	10/31/02
4.	PTI # 02-3926	MSH 413	Up & Down	11/18/02
5.	PTI # 02-3931	MSH 418	Down	12/13/02

**C. CALCULATION**

**Calculated Capacities prepared by R. W. Lutz PE.**

	Product Model	No. of Pages	Date	Signature
1.	MSH 29	1 through 3	12/27/02	R. W. Lutz, PE.
2.	MSH 218	9 through 9	01/30/03	R. W. Lutz, PE.
3.	MSH 222	4 through 5	01/08/03	R. W. Lutz, PE.
4.	MSH 213-2	6 through 6	01/21/03	R. W. Lutz, PE.
5.	MSH 413	7 though 8	01/28/03	R. W. Lutz, PE.
6.	MSH 418	9 through 8	01/28/03	R. W. Lutz, PE.

**C. MATERIAL CERTIFICATIONS**

N/A

**D. STATEMENTS**

1. No Financial Interest letter issued by USP Lumber Connectors, dated 01/31/03 signed by R. W. Lutz, PE.
2. Code Compliance letter issued by USP Lumber Connectors, dated 01/30/03 signed and sealed by R. W. Lutz, PE.

  
**Candido F. Font PE.**  
**Sr. Product Control Examiner**  
**NOA No 03-0206.03**  
**Expiration Date: May 22, 2008**  
**Approval Date: May 22, 2003**

PRODUCT CODE	GA.	DIMENSIONS				MOUNTING CONDITION	FASTENER SCHEDULE			ALLOWABLE LOADS (Lbs.)	
		W	D	H	B		HEADER		JOIST	DF-L / SYP	
							TOP	FACE		FLOOR	UPLIFT
									100%	133%	
MSH322	18	2 9/16	1 3/4	22 1/2	10 3/8	FACE-MAX	-- --	(22) 10d	(4) 10d x 1.5	----	545
						TOP-MAX	(4) 10d	(6) 10d	(4) 10d x 1.5	2015	545
*MSH213-2	16	3 1/8	2 1/4	14 3/16	7 13/16	FACE-MAX	-- --	(14) 10d	(6) 10d	2220	1360
						TOP-MAX	(4) 10d	(6) 10d	(6) 10d	3325	1360
MSH218-2	16	3 1/8	1 3/4	17 3/4	10 1/16	FACE-MAX	-- --	(16) 10d	(4) 10d	1950	650
						TOP-MAX	(4) 10d	(6) 10d	(4) 10d	2015	650
MSH222-2	16	3 1/8	1 3/4	22 1/4	10 1/16	FACE-MAX	-- --	(22) 10d	(4) 10d	2015	650
						TOP-MAX	(4) 10d	(6) 10d	(4) 10d	2015	650
*MSH413	16	3 9/16	1 3/4	14	7 5/8	FACE-MAX	-- --	(14) 10d	(6) 10d	2220	1245
						TOP-MAX	(4) 10d	(6) 10d	(6) 10d	3150	1245
*MSH418	16	3 9/16	1 3/4	17 1/2	7 5/8	FACE-MAX	-- --	(18) 10d	(6) 10d	2440	1245
						TOP-MAX	(4) 10d	(6) 10d	(6) 10d	3150	1245
						TOP-MIN	(4) 10d	(2) 10d	(6) 10d	2190	----
*MSH422	16	3 9/16	1 3/4	21 1/2	7 5/8	FACE-MAX	-- --	(22) 10d	(6) 10d	2440	1245
						TOP-MAX	(4) 10d	(6) 10d	(6) 10d	3150	1245
						TOP-MIN	(4) 10d	(2) 10d	(6) 10d	2190	----

## GENERAL NOTES

- STEEL SHALL CONFORM TO ASTM A653 STRUCTURAL GRADE 33, AND A MINIMUM GALVANIZED COATING OF G60.
- FASTENERS ARE COMMON WIRE NAILS UNLESS OTHERWISE NOTED.
- ALLOWABLE LOADS ARE BASED ON THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION 1997 EDITION FOR SOUTHERN YELLOW PINE (G= 0.55 OR BETTER AND MOISTURE CONTENT OF 19% OR LESS) ALL TESTS PERFORMED IN ACCORDANCE WITH ASTM D1761.
- ALLOWABLE UPLIFT LOADS HAVE BEEN INCREASED BY A DURATION FACTOR OF 33% FOR WIND LOAD CONDITION. NO FURTHER INCREASE IS ALLOWED.
- GIRDER/HEADER NAILS SHALL HAVE A MINIMUM PENETRATION OF 1 1/2".

Approved as complying with the  
Florida Building Code  
Date 5/22/13  
NOA# 03-0206.03  
Miami Dade Product Control  
Division [Signature]  
By [Signature]

*Robert W. Lutz*  
25 Apr 03

### UNITED STEEL PRODUCTS COMPANY

703 ROGERS DRIVE, MONTGOMERY, MN. 56069 PHONE (507) 364-7333

NAME: MSH SERIES  
(ADJUSTABLE STRAP HANGERS)

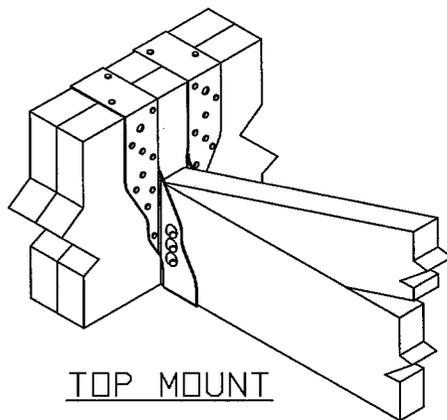
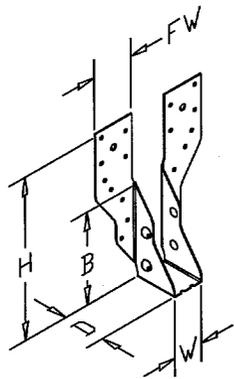
DATE: 4/25/03

ROBERT W. LUTZ  
PROFESSIONAL ENGINEER (STRUCTURAL)  
FLORIDA REG. NO. 55409

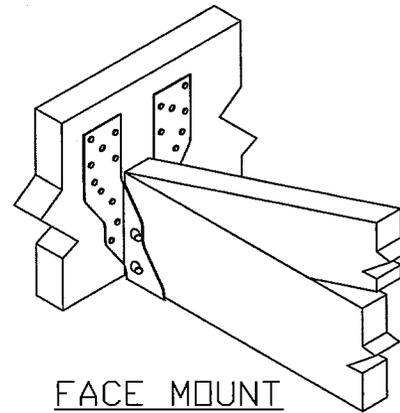
SHEET: 2 OF 2

DRAWING NO.  
0103MD

MDADE

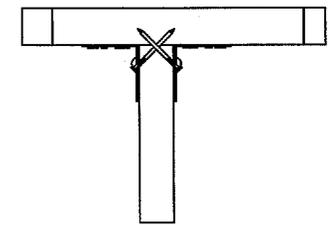


TOP MOUNT



FACE MOUNT

LOAD SHARE FASTENING SYSTEM



\* INDICATES JOIST SLATED NAILING

PRODUCT CODE	GA.	DIMENSIONS					MOUNTING CONDITION	FASTENER SCHEDULE			ALLOWABLE LOADS (Lbs.)	
		W	D	H	B	FW		HEADER		JOIST	DF-L / SYP	
								TOP	FACE		FLOOR	UPLIFT
* MSH29	18	1 5/8	2 1/4	8 3/4	5	2 1/4	FACE-MAX TOP-MAX	-- -- (4) 10d	(18) 10d (6) 10d	(4) 10d (4) 10d	2515 2785	565 565
* MSH213	18	1 5/8	2 1/4	12 3/4	5	2 1/4	FACE-MAX TOP-MAX	-- -- (4) 10d	(20) 10d (6) 10d	(4) 10d (4) 10d	2660 2785	565 565
* MSH218	18	1 5/8	2 1/4	16 3/4	5	2 1/4	FACE-MAX TOP-MAX	-- -- (4) 10d	(26) 10d (6) 10d	(4) 10d (4) 10d	2660 2785	610 610
MSH222	18	1 5/8	1 3/4	23	10 13/16	1 3/4	FACE-MAX TOP-MAX	-- -- (4) 10d	(22) 10d (6) 10d	(4) 10d x 1.5 (4) 10d x 1.5	-- -- 2015	545 545
MSH179	18	1 13/16	2 1/4	8 11/16	4 15/16	2 1/4	FACE-MAX TOP-MAX	-- -- (4) 10d	(18) 10d (6) 10d	(4) 10d (4) 10d	2515 2785	565 565
MSH318	18	2 9/16	1 3/4	18	10 3/8	1 3/4	FACE-MAX TOP-MAX	-- -- (4) 10d	(16) 10d (6) 10d	(4) 10d x 1.5 (4) 10d x 1.5	-- -- 2015	545 545

GENERAL NOTES

- 1) STEEL SHALL CONFORM TO ASTM A653 STRUCTURAL GRADE 33, AND A MINIMUM GALVANIZED COATING OF G60.
- 2) FASTENERS ARE COMMON WIRE NAILS UNLESS OTHERWISE NOTED.
- 3) ALLOWABLE LOADS ARE BASED ON THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION 1997 EDITION FOR SOUTHERN YELLOW PINE (G= 0.55 OR BETTER AND MOISTURE CONTENT OF 19% OR LESS) ALL TESTS PERFORMED IN ACCORDANCE WITH ASTM D1761.
- 4) PENETRATION IS ASSUMED TO BE 1 1/2" INTO WOOD.
- 5) ALLOWABLE UPLIFT LOADS HAVE BEEN INCREASED BY A DURATION FACTOR OF 33% FOR WIND LOAD CONDITION. NO FURTHER INCREASE IS ALLOWED.

Approved as complying with the  
Florida Building Code  
Date 5/22/03  
NOA# 05-0206-03  
Miami Dade Permit Control  
Division

*Robert W. Lutz*  
25 Apr 03

UNITED STEEL PRODUCTS COMPANY

703 ROGERS DRIVE, MONTGOMERY, MN. 56069 PHONE (507) 364-7333

NAME: MSH SERIES  
ADJUSTABLE STRAP HANGERS)

DATE: 4/25/03  
ROBERT W. LUTZ  
PROFESSIONAL ENGINEER (STRUCTURAL)  
FLORIDA REG. NO. 55409

SHEET: 1 OF 2  
DRAWING NO. 0103MD  
MDADE