



**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 Florida building Code including the High velocity Hurricane Zone.

DESCRIPTION: Wood Connectors MSH Series.

APPROVAL DOCUMENT: Drawing No.0103MD, titled "MSH SERIES (ADJUSTABLE STRAP HANGERS)" sheet 1 & 2 dated 12/14/04 with revision # 1, prepared by United Steel Products Company signed and sealed by R. W. Lutz, PE, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance (NOA) number and expiration 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 revises NOA # 03-0206.03 and consists of this page, evidence page as well as approval document mentioned above.

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



Candida F. Font
02/24/05

**NOA No: 05-0105.04
Expiration Date: May 22, 2008
Approval Date: February 24, 2005
Page 1**

United Steel Products Company.

NOTICE OF ACCEPTANCE: EVIDENCE PAGE

A. DRAWINGS

1. Drawing No. 0103MD, dated 12/14/04, sheets 1 & 2, with revision #1, 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.

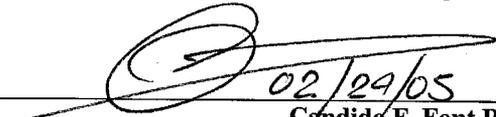
Product Model	No. of Pages	Date	Signature
1. MSH 29	1 through 3	12/27/02	R. W. Lutz, PE.
2. MSH 218	9 through 9	01/30/03	R. W. Lutz, PE.
3. MSH 222	4 through 5	01/08/03	R. W. Lutz, PE
4. MSH 213-2	6 through 6	01/21/03	R. W. Lutz, PE.
5. MSH 413	7 though 8	01/28/03	R. W. Lutz, PE.
6. MSH 418	9 through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

D. QUALITY ASSURANCE

1. **Building Code Compliance Office**

E. 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.
3. Letter requesting revision issued by Product Control Section on 10/25/04 and signed by C. F. Font.


02/24/05
Candido F. Font PE.
Sr. Product Control Examiner
NOA No 05-0105.04
Expiration Date: May 22, 2008
Approval Date: February 24, 2005

PRODUCT CODE	GA	W	D	H	B	MOUNTING CONDITION	FASTENER SCHEDULE			ALLOWABLE LOADS (lbs.)	
							HEADER		JOIST		DF-L / SYP FLOOR UPLIFT 100% 133%
							TOP	FACE			
MSH322	18	29/16	1 3/4	22 1/2	10 3/8	FACE-MAX TOP-MAX	-- (4) 10d	(22) 10d (6) 10d	(4) 10d x 1 1/2 (4) 10d x 1 1/2	2015 2015	
*MSH213-2	16	3 1/8	2 1/4	14 3/16	7 13/16	FACE-MAX TOP-MAX	-- (4) 10d	(14) 10d (6) 10d	(6) 10d (6) 10d	2220 3325	
MSH218-2	16	3 1/8	1 3/4	17 3/4	10 1/16	FACE-MAX TOP-MAX	-- (4) 10d	(16) 10d (6) 10d	(4) 10d (4) 10d	1950 2015	
MSH222-2	16	3 1/8	1 3/4	22 1/4	10 1/16	FACE-MAX TOP-MAX	-- (4) 10d	(6) 10d (6) 10d	(4) 10d (4) 10d	2015 2015	
*MSH413	16	39/16	1 3/4	14	7 5/8	FACE-MAX TOP-MAX	-- (4) 10d	(14) 10d (6) 10d	(6) 10d (6) 10d	2220 3150	
*MSH418	16	39/16	1 3/4	17 1/2	7 5/8	FACE-MAX TOP-MAX	-- (4) 10d	(18) 10d (6) 10d	(6) 10d (6) 10d	2440 3150	
*MSH422	16	39/16	1 3/4	21 1/2	7 5/8	FACE-MAX TOP-MAX TOP-MIN	-- (4) 10d (4) 10d	(22) 10d (6) 10d	(6) 10d (6) 10d	2440 3150 1245	

GENERAL NOTES

- 1) STEEL SHALL CONFORM TO ASTM A653 STRUCTURAL GRADE 33, AND A MINIMUM GALVANIZED COATING OF G90.
- 2) FASTENERS ARE COMMON WIRE NAILS UNLESS OTHERWISE NOTED.
- 3) ALLOWABLE LOADS HAVE BEEN INCREASED FOR WIND LOAD CONDITION. NO FURTHER INCREASE IS ALLOWABLE.
- 4) ALLOWABLE LOADS ARE BASED ON THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION (G=0.55 OR BETTER AND MOISTURE CONTENT OF 19% OR LESS). ALL TESTS PERFORMED IN ACCORDANCE WITH ASTM D1761.
- 5) PENETRATION IS ASSUMED TO BE 1 1/2" INTO WOOD JOIST & 1 5/8" OR MORE INTO WOOD HEADER.
- 6) ALLOWABLE UPLIFT LOADS NOT LISTED ARE LESS THAN 700# AND DO NOT COMPLY WITH SEC. 2321.7 OF FBC, AND ARE THEREFORE EXCLUDED FROM USE.

REV. #1

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 05-0105.04
 Expiration Date 05/22/08

By: 
 Robert W Lutz, Product Control
 Division

UNITED STEEL PRODUCTS COMPANY
 703 ROGERS DRIVE, MONTGOMERY, MN. 56069 PHONE (507) 364-7333
 MSH SERIES
 (ADJUSTABLE STRAP HANGERS)

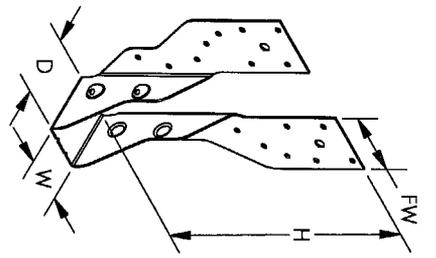
DATE: 12-14-04
 NAME: ROBERT W LUTZ
 PROFESSIONAL ENGINEER (STRUCTURAL)
 FLORIDA REG. NO. 55409

SHEET: 2 OF 2

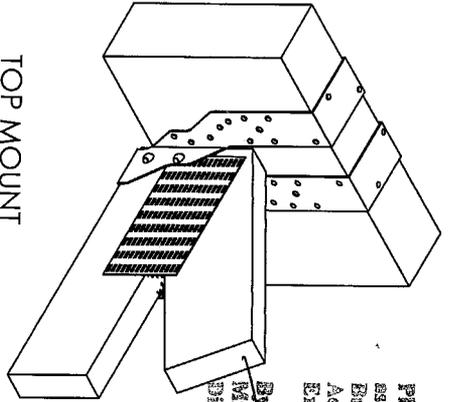
DRAWING NO. # 0103MD

MDADE

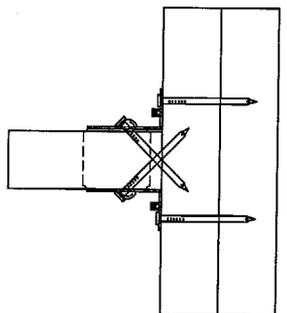
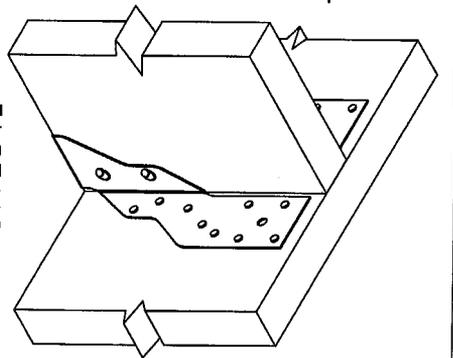




TOP MOUNT



FACE MOUNT



*INDICATES JOIST SLANTED NAILING

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 05-0105-04
 Expiration Date 05/22/08
 By: [Signature]
 National Grade Product Control
 Division

PRODUCT CODE	GA	DIMENSIONS					MOUNTING CONDITION	FASTENER SCHEDULE			ALLOWABLE LOADS (lbs.)	
		W	D	H	B	FW		HEADER			D.F.L / SYP	FLOOR UPLIFT
								TOP	FACE	JOIST		
*MSH29	18	1 5/8	2 1/4	8 3/4	5	2 1/4	FACE-MAX TOP-MAX	(4) 10d (6) 10d	(4) 10d (4) 10d	100% 2515	133% ---	
*MSH213	18	1 5/8	2 1/4	12 3/4	5	2 1/4	FACE-MAX TOP-MAX	(20) 10d (6) 10d	(4) 10d (4) 10d	2785 2660	---	
*MSH218	18	1 5/8	2 1/4	16 3/4	5	2 1/4	FACE-MAX TOP-MAX	(26) 10d (6) 10d	(4) 10d (4) 10d	2785 2660	---	
MSH222	18	1 5/8	1 3/4	23	10	1 3/4	FACE-MAX TOP-MAX	(22) 10d (6) 10d	(4) 10d x 1-1/2 (4) 10d x 1-1/2	---	---	
MSH179	18	1 13/16	2 1/2	8 11/16	4	15/16	FACE-MAX TOP-MAX	(18) 10d (6) 10d	(4) 10d (4) 10d	2515 2785	---	
MSH318	18	2 9/16	1 3/4	18	10	3/8	FACE-MAX TOP-MAX	(16) 10d (6) 10d	(4) 10d x 1-1/2 (4) 10d x 1-1/2	---	---	

GENERAL NOTES

- 1) STEEL SHALL CONFORM TO ASTM A663 STRUCTURAL GRADE 33, AND A MINIMUM GALVANIZED COATING OF G90.
- 2) FASTENERS ARE COMMON WIRE NAILS UNLESS OTHERWISE NOTED.
- 3) ALLOWABLE LOADS HAVE BEEN INCREASED FOR WIND LOAD CONDITION. NO FURTHER INCREASE IS ALLOWABLE.
- 4) ALLOWABLE LOADS ARE BASED ON THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION (G=0.55 OR BETTER AND MOISTURE CONTENT OF 19% OR LESS). ALL TESTS PERFORMED IN ACCORDANCE WITH ASTM D1761.
- 5) PENETRATION IS ASSUMED TO BE 1 1/2" INTO WOOD 50151T. & 1 5/8" OR MORE INTO WOOD HEADER.
- 6) ALLOWABLE UPLIFT LOADS NOT LISTED ARE LESS THAN 700# AND DO NOT COMPLY WITH SEC. 2321.7 OF FBC, AND ARE THEREFORE EXCLUDED FROM USE.

[Signature]
 Robert W. Lutz
 02/03/04

REV. #1

UNITED STEEL PRODUCTS COMPANY
 703 ROGERS DRIVE, MONTGOMERY, MN, 56069 PHONE (507) 364-7333

NAME: MSH SERIES (ADJUSTABLE STRAP HANGERS)
 DATE: 12-14-04
 ROBERT W. LUTZ
 PROFESSIONAL ENGINEER (STRUCTURAL)
 FLORIDA REG. NO. 55409

SHEET: 1 OF 2
 DRAWING NO. # 0103MD
 MDADE