



**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)**

**Simpson Strong Tie Co., Inc.  
1720 Couch Drive.  
McKinney, Texas 75069**

**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 LUS, HUS, HHUS, HGUS, HGUQ, SUL/R, HSUL/R, THASL/R & THA.**

**APPROVAL DOCUMENT:** Drawing No. **DC2301**, sheets 1 through 5 of 5, titled "Truss Hangers, LUS & HUS Hangers, HHUS, HGUS & HGUQ Hangers, SUR/L, HSUR/L & THASR/L Hangers & THA Hangers" dated June, 2002 with no revisions, prepared by Simpson Strong-Tie Co., Inc. signed and sealed by J. M. Gilstrap, PE, bearing the Miami-Dade County Product Control Renewal 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 NOA revises NOA# 00-0512.06 and consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Candido F. Font PE.**



**NOA No: 02-0719.02  
Expiration Date: June 20, 2008  
Approval Date: April 17, 2003  
Page 1**

**Simpson Strong Tie Company, Inc.**

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

**A DRAWINGS**

- Drawings prepared by Simpson Strong-Tie Co., Inc., titled "Truss Hangers, LUS & HUS Hangers HHUS, HGUS & HGUQ Hangers, SUR/L, HSUR/L & THASR/L Hangers and THA Hangers", Drawing NO. DC2301, sheets 1 through 5 of 5, dated June, 2002 with no revisions, signed and sealed by J. M. Gilstrap, PE.

**B TEST**

Test reports on wood connectors per ASTM D1761 by Certified Testing Laboratories, signed and sealed by R. Patel, PE.

	<b>Report No.</b>	<b>Wood Connector</b>	<b>Direction</b>	<b>Date</b>
01	CTL 1600 G	HGUS 28-3	Down & Up	01/10/02
02	CTL 0182H & 01039	HGUS 28-2	Down & Up	01/30/02 & 02/18/02
03	CTL 0095 H	HGUS 26-2	Down & Up	01/30/02
04	CTL 1519G & 01038	HGUS 26-3	Down & Up	12/18/02 & 01/30/02
05	CTL 1477G & 1600G	SUL/R 26	Down & Up	12/06/01 & 01/29/02
06	CTL 0136H & 0182H	HSUL 26-2	Downward	02/07/02 & 12/03/01
07	CTL 1477H & 1554G	HHUS 28-2	Down & Up	12/03/01 & 01/02/02
08	CTL 1519G & 1477H	HHUS 46	Down & Up	12/17/01 & 12/03/01
09	CTL 0136H	THASL 218-2	Downward	02/08/02
10	CTL 1600G	THASL 218	Downward	02/28/02
11	CTL 1554G	HGUQ 26-2	Down & Up	01/02/02
12	CTL 0269H & 1554G-1	HGUQ 26-3	Down & Up	01/30/02 & 03/15/02
13	CTL 1445G & 1554G	HGUQ 28-2	Down & Up	01/02/02 & 11/28/01
14	CTL 1600G & 1445G	HGUQ 28-3	Down & Up	11/28/01 & 01/22/02

**C CALCULATIONS**

Report of Design Capacities prepared by Simpson Strong-Tie Co., Inc.

	<b>Product Model</b>	<b>No. of Pages</b>	<b>Date</b>	<b>Signature</b>
1.	HGUS Series	1 through 6	04/11/02	J. M. Gilstrap, PE
2	SUR/L Series	1 through 5	07/11/02	J. M. Gilstrap, PE.
3	HSUL 26-3	1 through 5	07/11/02	J. M. Gilstrap, PE
4	HHUS 28-2	1 through 5	07/11/02	J. M. Gilstrap, PE
5	HHUS 46	1 through 5	07/11/02	J. M. Gilstrap, PE.
6	THASL Series	1 through 6	06/20/02	J. M. Gilstrap, PE
7	HGUQ Series	1 through 6	06/18/02	J. M. Gilstrap, PE

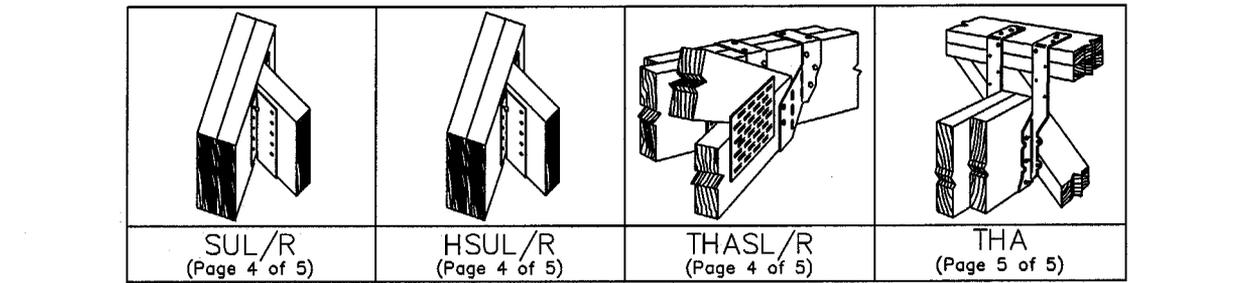
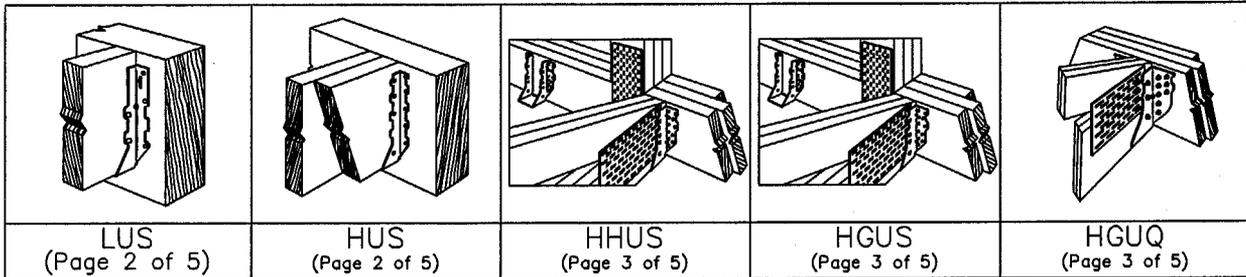
**D STATEMENTS**

- Code compliance letter issued by Simpson Strong-Tie Company, Inc. on 03/25/03 signed and sealed by J. M. Gilstrap, PE.
- No financial interest letter issued by Simpson Strong-Tie Company, Inc. on 09/06/02 and signed by J. M. Gilstrap, PE.
- No change letter issued by Simpson Strong Tie-Company, Inc. on 01/15/03 and signed by J. M. Gilstrap.



**Candido F. Font PE.**  
**Sr. Product Control Examiner**  
 NOA No 02-0719.02  
 Expiration Date: June 20, 2008  
 Approval Date: April 17, 2003

# Truss Hangers



### GENERAL NOTES

1. IN ACCORDANCE WITH SECTION 1707.3 OF THE FLORIDA BUILDING CODE, THE ALLOWABLE LOADS SHOWN IN THE TABLES ON THE PAGES TO FOLLOW ARE BASED UPON THE LOWEST VALUE OF THE FOLLOWING:
  - A) PER SECTION 1707.3.1.1 OF THE CODE, THE LOWEST ULTIMATE LOAD OF THREE HANGER TESTS DIVIDED BY A FACTOR OF SAFETY OF THREE WHEN TESTED IN ACCORDANCE WITH ASTM-D176.
  - B) PER SECTION 1707.3.1.3 OF THE CODE, THE LOWEST LOAD OF THREE TESTS RECORDED WHERE THE JOIST MOVEMENT WITH RESPECT TO THE HEADER EQUALS 1/8" DETERMINED FROM TESTING IN ACCORDANCE WITH ASTM-D1761.
  - C) PER SECTION 1707.3.1.4 OF THE CODE, THE CALCULATED CAPACITY FOR THE FASTENERS USED TO SECURE THE HANGER TO THE SUPPORTING MEMBER OF THE CONNECTION DETERMINED IN ACCORDANCE WITH THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION 1997 EDITION USING WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.55.

2. THE STEEL SHALL CONFORM TO THE REQUIREMENTS SHOWN ON IN THIS TABLE AND SHALL HAVE A HAVE A MINIMUM GALVANIZED COATING OF G60.
3. FASTENERS ARE COMMON WIRE NAILS UNLESS OTHERWISE NOTED.
4. ALLOWABLE UPLIFT LOADS HAVE BEEN INCREASED 33% FOR WIND LOADING WITH NO OTHER DURATION INCREASES ALLOWED.
5. ALLOWABLE DOWNLOADS HAVE NOT BEEN INCREASED BY ANY DUARATION FACTOR.

MODEL NO.	MATERIAL	ASTM SPEC.	Fy	Fu
LUS	18 ga	A653FS	28	38
HUS	14 ga	A653CS	28	38
HHUS	14 ga	A653CS	28	38
HGUS	12 ga	A653SS Gr40	40	55
HGUQ	12 ga	A653SS Gr40	40	55
SUL/R	16 ga	A653FS	28	38
HSUL/R	14 ga	A653CS	28	38
THASL/R	16 ga	A653SS Gr40sp	42	56
THA	18,16,14 ga	A653FS	28	38

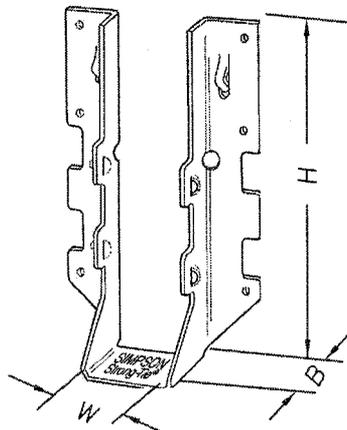
*John M. [Signature]*  
3/1/03

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 02-0719.02  
Expiration Date 02/20/08  
By: [Signature]  
Minimal Data Product Control  
Division

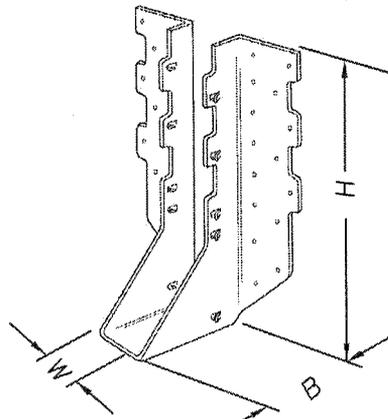
SIMPSON STRONG-TIE, INC.  
1720 COUCH DR.  
MCKINNEY, TX 75069  
TEL: (800)999-5099  
Dwg #: DC2301  
Date: 6/02 | Scale: NTS  
Dwg by: DSB | Chk by: JMG  
Sheet 1 of 5



# LUS & HUS HANGERS

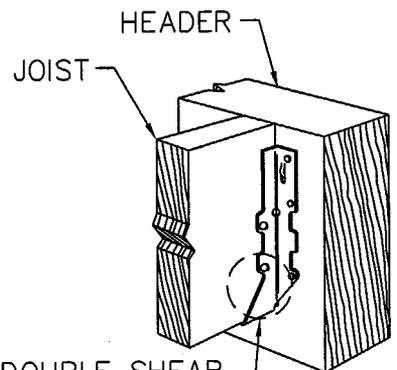


**LUS**



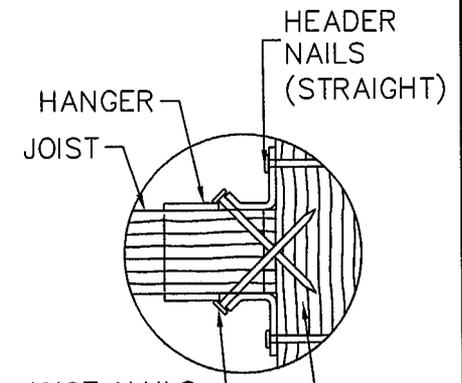
**HUS**

MODEL	GAUGE	DIMENSIONS			FASTENERS <sup>1</sup>		ALLOWABLE LOADS	
		W	H	B	HEADER	JOIST	UPLIFT	DOWN
LUS24	18	1 9/16"	3 1/8"	1 3/4"	4-10d	2-10d	-	640
LUS24-2	18	3 1/8"	3 1/8"	2"	4-16d	2-16d	-	765
LUS26	18	1 9/16"	4 3/4"	1 3/4"	4-10d	4-10d	930	830
LUS26-2	18	3 1/8"	4 7/8"	2"	4-16d	4-16d	1140	1000
LUS26-3	18	4 5/8"	4 1/8"	2"	4-16d	4-16d	1140	1000
LUS28	18	1 9/16"	6 5/8"	1 3/4"	6-10d	4-10d	930	1055
LUS28-2	18	3 1/8"	7"	2"	6-16d	4-16d	1140	1265
LUS28-3	18	4 5/8"	6 1/4"	2"	6-16d	4-16d	1140	1265
LUS210	18	1 9/16"	7 13/16"	1 3/4"	8-10d	4-10d	930	1275
LUS210-2	18	3 1/8"	9"	2"	8-16d	6-16d	1665	1765
LUS210-3	18	4 5/8"	8 3/16"	2"	8-16d	6-16d	1665	1765
LUS214-2	18	3 1/8"	10 15/16"	2"	10-16d	6-16d	1710	2030
LUS38	18	2 9/16"	5 1/4"	2"	4-16d	4-16d	1140	1000
LUS310	18	2 9/16"	7 1/4"	2"	6-16d	4-16d	1140	1265
LUS44	18	3 9/16"	3"	2"	4-16d	2-16d	-	765
LUS46	18	3 9/16"	4 3/4"	2"	4-16d	4-16d	1140	1000
LUS48	18	3 9/16"	6 3/4"	2"	6-16d	4-16d	1140	1265
LUS410	18	3 9/16"	8 3/4"	2"	8-16d	6-16d	1665	1765
LUS414	18	3 9/16"	10 3/4"	2"	10-16d	6-16d	1665	2030
HUS26	16	1 5/8"	5 1/8"	3"	14-16d	6-16d	1215	2565
HUS26-2	14	3 1/8"	5 3/8"	2"	4-16d	4-16d	1080	1005
HUS28	16	1 5/8"	7"	3"	22-16d	8-16d	1800	3585
HUS28-2	14	3 1/8"	7 3/16"	2"	6-16d	6-16d	1215	1505
HUS210	16	1 5/8"	9"	3"	30-16d	10-16d	1765	3775
HUS210-2	14	3 1/8"	9 3/16"	2"	8-16d	8-16d	2160	2010
HUS212-2	14	3 1/8"	10 3/4"	2"	10-16d	10-16d	2700	2510
HUS46	14	3 9/16"	5"	2"	4-16d	4-16d	1080	1005
HUS48	14	3 9/16"	6 15/16"	2"	6-16d	6-16d	1215	1505
HUS410	14	3 9/16"	8 15/16"	2"	8-16d	8-16d	2160	2010
HUS412	14	3 9/16"	10 1/2"	2"	10-16d	10-16d	2700	2510



DOUBLE SHEAR NAILING (REFER TO DETAIL A)

**LUS/HUS INSTALLATION**



JOIST NAILS (ANGLED/DBL SHEAR)

**DETAIL A**

(SEE NOTE 1 BELOW)

**NOTES:**

1. NAILS MUST BE DRIVEN AT AN ANGLE THROUGH THE JOIST OR TRUSS INTO THE HEADER TO ACHIEVE THE ALLOWABLE LOADS.

*Joe m. [unclear]*  
3/1/09

**PRODUCT REVISED**

as complying with the Florida Building Code  
Acceptance No. 02-0719.02  
Expiration Date 06/30/08

By Miami Dade Product Control Division

SIMPSON STRONG-TIE, INC.  
1720 COUCH DR.  
MCKINNEY, TX 75069  
TEL: (800)999-5099

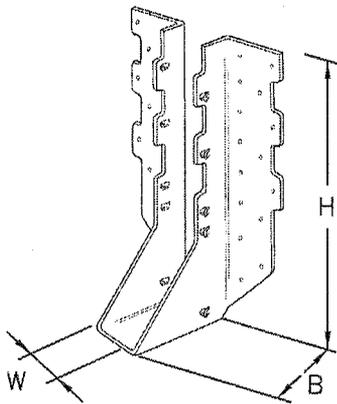
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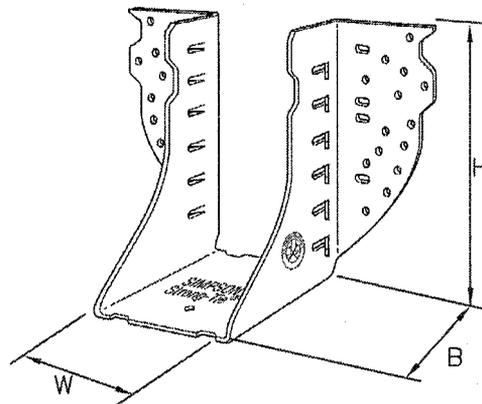
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Sheet 2 of 5

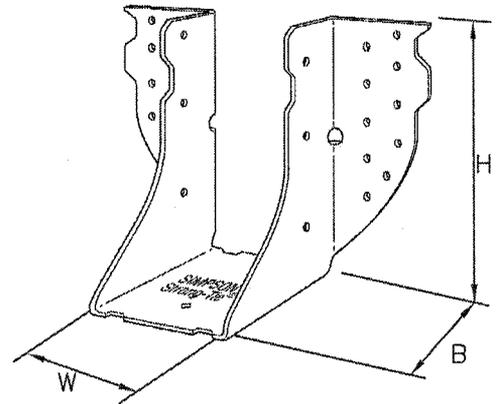
# HHUS, HGUS, & HGUQ Hangers



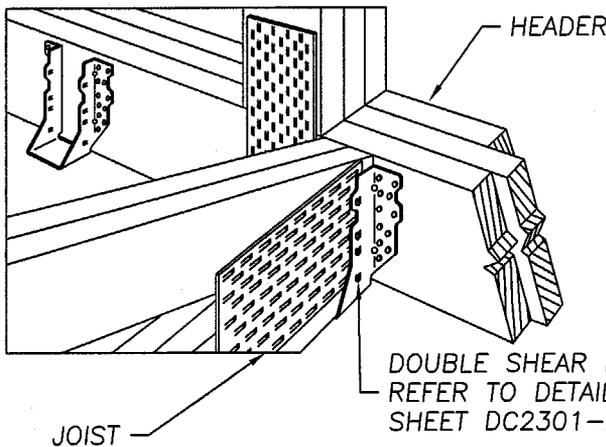
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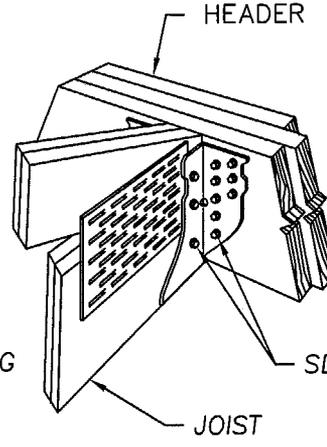
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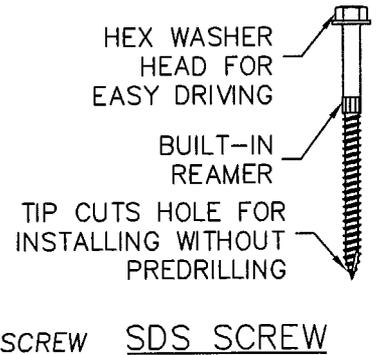
HGUQ



HHUS/HGUS INSTALLATION



HGUQ INSTALLATION



DOUBLE SHEAR NAILING  
REFER TO DETAIL A  
SHEET DC2301-2

JOIST

JOIST

SDS SCREW

SDS SCREW

MODEL NO.	GAUGE	DIMENSIONS			FASTENERS		ALLOWABLE LOADS	
		W	H	B	HEADER	JOIST	UPLIFT(133)	FLOOR(100)
HHUS28-2	14	3 5/16"	6 7/8"	3"	22-16d	8-16d <sup>1</sup>	2180	4260
HHUS46	14	3 5/8"	5 1/8"	3"	14-16d	6-16d <sup>1</sup>	1220	2825
HGUS26-2	12	3 7/16"	5 3/8"	4"	20-16d	8-16d <sup>1</sup>	1435	4065
HGUS26-3	12	4 15/16"	4 1/2"	4"	20-16d	8-16d <sup>1</sup>	1885	3780
HGUS28-2	12	3 7/16"	7 1/16"	4"	36-16d	12-16d <sup>1</sup>	2765	5660
HGUS28-3	12	4 15/16"	7 1/8"	4"	36-16d	12-16d <sup>1</sup>	3335	6780
HGUQ26-2	12	3 7/16"	5"	4"	12-3" SDS <sup>2</sup>	4-3" SDS <sup>2</sup>	1770	3745
HGUQ26-3	12	5 1/8"	5 1/8"	4"	12-3" SDS <sup>2</sup>	4-4 1/2" SDS <sup>2</sup>	1770	3985
HGUQ28-2	12	3 7/16"	7"	4"	20-3" SDS <sup>2</sup>	6-3" SDS <sup>2</sup>	2655	6640
HGUQ28-3	12	5 1/8"	7 1/8"	4"	20-3" SDS <sup>2</sup>	6-4 1/2" SDS <sup>2</sup>	2655	6640

1. Nails must be driven at an angle through the joist or truss into the header to achieve the allowable loads
2. Refers to 1/4" SDS screws by Simpson Strong-Tie where the length into the header shall be 3" or 4 1/2" such that the length is equal to the overall width of the header plies
3. Joists shall be made of lumber with a SG=0.55 or better

*J. M. J.*  
3/1/03

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 02-9719.02  
Expiration Date 02/20/08  
By *[Signature]*  
Miami Dade Product Control  
Division

SIMPSON STRONG-TIE, INC.  
1720 COUCH DR.  
MCKINNEY, TX 75069  
TEL: (800)999-5099

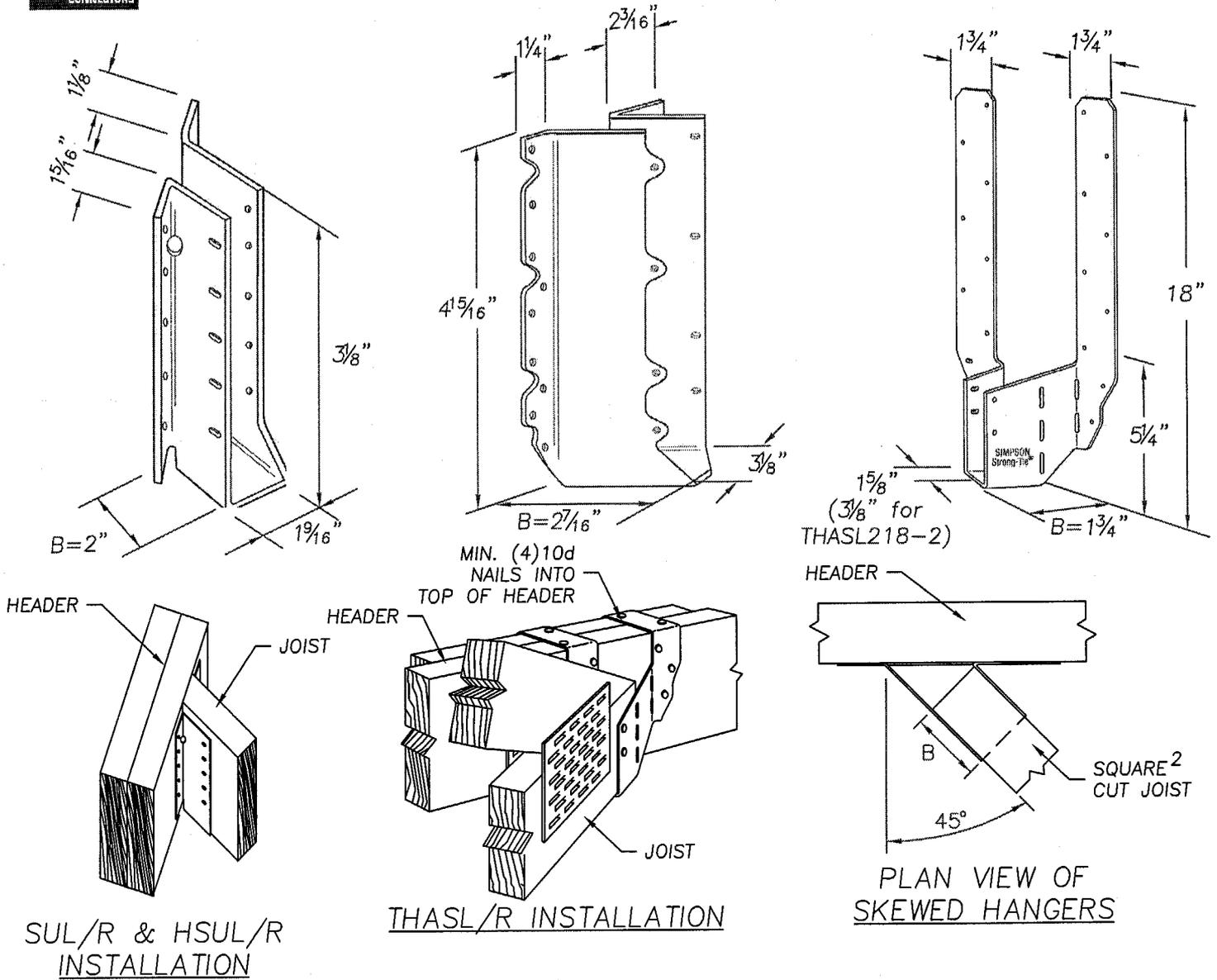
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Date: 6/02 Scale: NTS

Dwg by: DSB Chk by: JMG

Sheet 3 of 5

# SUR/L, HSUR/L, & THASR/L Hangers



MODEL NO.	GAUGE	FASTENERS		ALLOWABLE LOADS	
		HEADER	JOIST	UPLIFT (133)	FLOOR (100)
SUR/R26 <sup>2,3</sup>	16	6-16d	6-10dX1 1/2	665	865
HSUR/R26-2 <sup>2,4</sup>	14	12-16d	4-16dX1 1/2	585	1315
THASR/R218 <sup>2</sup>	18	18-10d <sup>1</sup>	4-10dX1 1/2	-	1250
THASR/R218-2 <sup>2</sup>	18	18-10d <sup>1</sup>	4-10dX1 1/2	-	810

1. A minimum of (4)10d Nails must be nailed into the top of the header
2. Joist may be square cut or bevel cut
3. Allowable load is based on a minimum of 2" thick header
4. Allowable load is based on a minimum of 2" thick joist
5. Joists shall be made of lumber with a SG=0.55 or better

*J. J. [Signature]*  
3/1/03

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 02-0719.02  
 Expiration Date 09/20/08  
 By: [Signature]  
 Mutual Date Product Control  
 Division

SIMPSON STRONG-TIE, INC.  
 1720 COUCH DR.  
 MCKINNEY, TX 75069  
 TEL: (800)999-5099

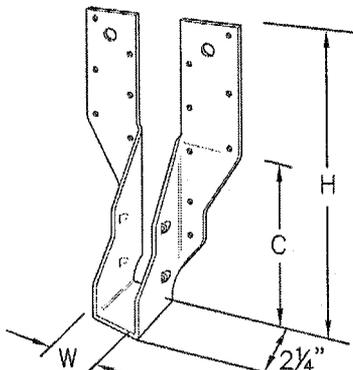
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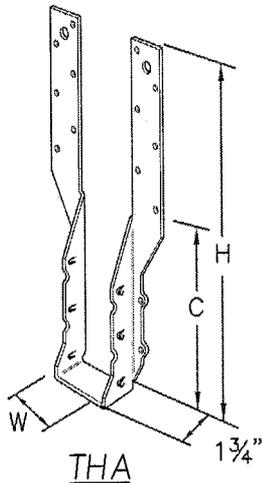
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Sheet 4 of 5

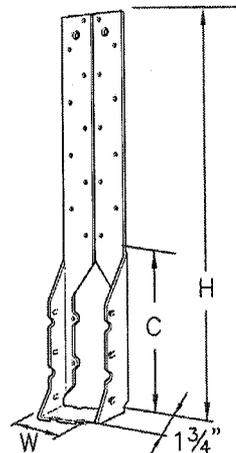
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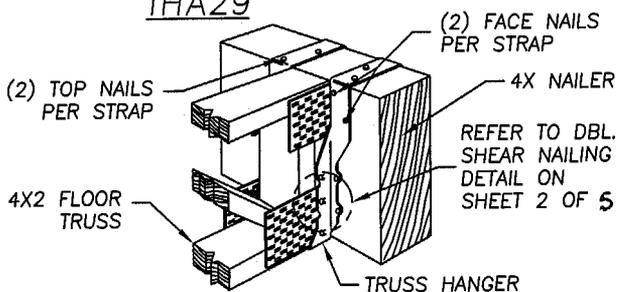
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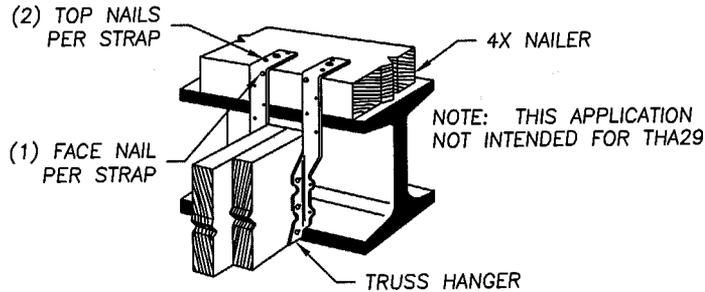
**THA**



**THAC422&422-2**



**THA INSTALLATION**



**THA MINIMUM NAILING INSTALLATION**

MODEL NO.	MINIMUM JOIST SIZE	GAUGE	DIMENSIONS			HEADER NAILS		JOIST NAILS		ALLOWABLE LOADS	
			W	H	C	TOP	FACE	STRAIGHT	SLANT	UPLIFT	DOWN
<b>MINIMUM NAILING - TOP FLANGE (SEE NOTES 1 &amp; 2 BELOW)</b>											
THA29	2 x 4	18	1 1/8"	9 1/16"	5 1/2"	4-10d	4-10d	-	4-10d	-	2115
THA213	2 x 6	18	1 5/8"	13 3/16"	5 1/2"	4-10d	2-10d	4-10dX1 1/2"	-	-	1435
THA218	2 x 6	18	1 1/8"	17 3/16"	5 1/2"	4-10d	2-10d	4-10dX1 1/2"	-	-	1435
THA218-2	(2) 2 x 10	16	3 3/8"	17 1/16"	8"	4-16d	2-16d	6-16dX2 1/2"	-	-	1635
THA222-2	(2) 2 x 10	16	3 3/8"	22 3/16"	8"	4-16d	2-16d	6-16dX2 1/2"	-	-	1635
THA413	4 x 6	18	3 5/8"	13 3/16"	4 1/2"	4-10d	2-10d	4-10d	-	-	1435
THA418	4 x 10	16	3 3/8"	17 1/2"	7 1/8"	4-16d	2-16d	6-16d	-	-	1635
THA422	4 x 10	16	3 3/8"	22"	7 1/8"	4-16d	2-16d	6-16d	-	-	1635
THAC422	4x2 TRUSS	16	3 3/8"	22"	7 1/8"	4-16d	2-16d	6-16d	-	-	1635
THA422-2	(2)4x2 TRUSS	14	7 1/4"	22 1/16"	9 3/4"	4-16d	4-16d	6-16d	-	-	2400
THAC422-2	(2)4x2 TRUSS	14	7 1/4"	22 1/16"	9 3/4"	4-16d	4-16d	6-16d	-	-	2400
<b>MAXIMUM NAILING - ALL HOLES FILLED (SEE NOTE 3 BELOW)</b>											
THA29	2 x 4	18	1 5/8"	9 1/16"	5 1/2"	-	16-10d	-	4-10d	-	2125
THA213	2 x 6	18	1 1/8"	13 3/16"	5 1/2"	-	14-10d	-	4-10d	835	1795
THA218	2 x 6	18	1 5/8"	17 3/16"	5 1/2"	-	18-10d	-	4-10d	835	1795
THA218-2	(2) 2 x 10	16	3 3/8"	17 1/16"	8"	-	16-16d	-	6-16d	1550	2830
THA222-2	(2) 2 x 10	16	3 3/8"	22 3/16"	8"	-	22-16d	-	6-16d	1550	3630
THA413	4 x 6	18	3 3/8"	13 3/16"	4 1/2"	-	14-10d	-	4-10d	835	1940
THA418	4 x 10	16	3 5/8"	17 1/2"	7 1/8"	-	16-16d	-	6-16d	1550	2830
THA422	4 x 10	16	3 3/8"	22"	7 1/8"	-	22-16d	-	6-16d	1550	3630
THAC422	4x2 TRUSS	16	3 3/8"	22"	7 1/8"	-	22-16d	-	6-16d	1550	3630
THA422-2	(2)4x2 TRUSS	14	7 1/4"	22 1/16"	9 3/4"	-	30-16d	-	6-16d	1200	4025
THAC422-2	(2)4x2 TRUSS	14	7 1/4"	22 1/16"	9 3/4"	-	30-16d	-	6-16d	1200	4025

**NOTES:**

- FOR THE THA29, THE MINIMUM NAILING SCHEDULE REQUIRES THAT THE NAILS USED FOR THE JOIST ATTACHMENT MUST BE DRIVEN AT AN ANGLE SO THAT THE NAILS PENETRATE THROUGH THE CORNER OF THE JOIST INTO THE HEADER, AND THAT THE STRAP MUST BE FIELD-FORMED OVER THE HEADER A MINIMUM OF 2 1/2". A MINIMUM OF (4) TOP AND (4) FACE NAILS MUST BE USED.
- FOR ALL MODELS EXCEPT THE THA29, THE MINIMUM NAILING SCHEDULE MAY BE FOLLOWED WHERE DOUBLE SHEAR NAILING IS NOT POSSIBLE, PROVIDED THE STRAP IS FIELD-FORMED OVER THE TOP OF THE HEADER A MINIMUM OF 1 1/2" FOR THE THA213 AND THA413, AND 2" FOR ALL OTHERS, AND A MINIMUM OF (4) TOP AND (2) FACE NAILS ARE USED.
- ALL FACE NAILS MUST BE APPLIED ACCORDING TO THE TABLE. THE NAILS USED FOR THE JOIST ATTACHMENT MUST BE DRIVEN AT AN ANGLE SO THAT THE NAILS PENETRATE THROUGH THE CORNER OF THE JOIST INTO THE HEADER.

*John*  
3/1/03

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No 02-0719.02  
Expiration Date 06/20/08  
By [Signature]  
Miami Dade Product Control  
Division

SIMPSON STRONG-TIE, INC.  
1720 COUCH DR.  
MCKINNEY, TX 75069  
TEL: (800)999-5099  
Dwg #: DC2301  
Date: 6/02 Scale: NTS  
Dwg by: DSB Chk by: JMG  
Sheet 5 of 5