



**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.  
4120 Dublin Blvd., Suite 400  
Dublin, CA 94568**

**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. BORA 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**

**APPROVAL DOCUMENT:** Drawing No. no number, titled "A Angles", "CS Coiled Strap", LPC Post Caps", "LTHJ Truss Hip/Jack Hangers", & "SP Stud Plate Ties", sheets 1 through 5, prepared, signed and sealed by Evon Ballash, P.E., dated 7/9/99, bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance 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.

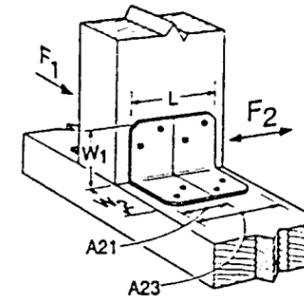
This NOA **renews NOA # 99-0623.04** and, consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Raul Rodriguez**.



**NOA No 02-0402.01  
Expiration Date: May 5, 2007  
Approval Date: May 2, 2002  
Page 1**

## A Angles

Model No.	Dimensions			Fasteners		Allowable Loads	
	W <sub>1</sub>	W <sub>2</sub>	L	Base	Post	F <sub>1</sub>	F <sub>2</sub>
A21	2	1 1/2	1 3/8	2-10dx1 1/2	2-10dx1 1/2	245	140
A23	2	1 1/2	2 3/4	4-10dx1 1/2	4-10dx1 1/2	485	380



A21/A23  
Installation

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
Acceptance No. 02-0402.01  
Expiration Date 04/05/2007  
By *[Signature]*  
Miami Dade Product Control  
Division

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE *August 19* 1999  
BY *[Signature]*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. *99-0623.04*

### GENERAL NOTES:

- 1) Steel shall conform to 18 gauge ASTM A-653 FS with  $F_{y,min} = 28$  ksi and  $F_{u,min} = 38$  ksi and have a minimum galvanized coating of G60.
- 2) Fasteners diameter is 0.148".
- 3) Allowable loads have been increased 33% for wind loading with no other duration increases allowed. Reduce loads 33% for floor loads.
- 4) Allowable loads are based on the National Design Specification for Wood Construction 1991 Edition & 1993 Errata, for Douglas Fir-Larch (G=0.50 or better) and tests performed in accordance with ASTM D1761.

FOR OFFICE USE

SIMPSON STRONG-TIE CO., INC.  
4637 Chabot Drive, Suite 200  
Pleasanton, CA 94588

TITLE: A Angles

Drawing No.:

Sheet No. 1/5

Drawing Date: 2-2-98

Revision Date: --

Evon M.C. Ballash, P.E. Civil #PE0051762

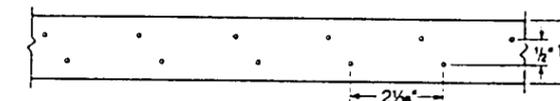
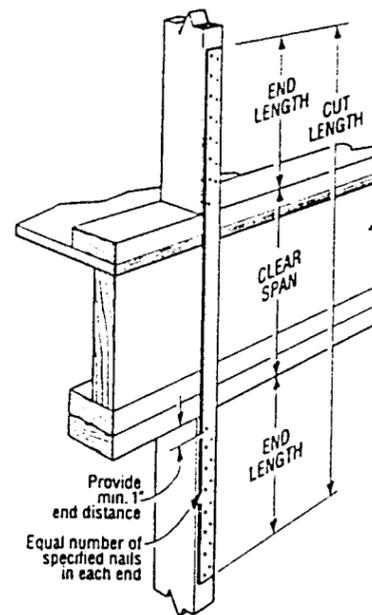
*7/9/99*  
*Evon M.C. Ballash*

## CS Coiled Strap

Model No.	Total Length	End Length	Cut Length	Fasteners (Total) $\downarrow$	Allowable Loads
CS18S	100'	12"	clear span + 24"	22-8d	925
CS18S	200'	10"	clear span + 20"	18-10d	
CS18-R	25'	10"	clear span + 20"	18-10d	

1) MINIMUM NAIL PENETRATION SHALL BE  $1\frac{3}{8}$ " FOR 8d +  $1\frac{1}{8}$ " FOR 10d

Typical CS Installation As a Floor-to-Floor Tie



CS Hole Pattern

**PRODUCT RENEWED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 02-04-02-01  
 Expiration Date May 5, 2007  
 By *[Signature]*  
 Miami Dade Product Control  
 Division

APPROVED AS COMPLYING WITH THE  
 SOUTH FLORIDA BUILDING CODE  
 DATE August 19, 1999  
 BY *[Signature]*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 99-0623-04

**GENERAL NOTES:**

- 1) Steel shall conform to 18 gauge ASTM A-653 FS with  $F_{y,min} = 33$  ksi and  $F_{u,min} = 45$  ksi and have a minimum galvanized coating of G60.
- 2) Fasteners are common wire nails unless noted.
- 3) Allowable uplift loads have been increased 33% for wind loading with no other duration increases allowed.
- 4) Allowable loads are based on the National Design Specification for Wood Construction 1991 Edition & 1993 Errata, for Douglas Fir-Larch (G=0.50 or better) and tests performed in accordance with ASTM D1761.

FOR OFFICE USE	<p><b>SIMPSON STRONG-TIE CO., INC.</b>                  4637 Chabot Drive, Suite 200                  Pleasanton, CA 94588</p>	<p>7/1/99  <i>Evon M. C. Ballash</i></p>
TITLE: CS Coiled Strap		
Drawing No. _____		Sheet No. 2/5
Drawing Date: 2-2-98		Revision Date: --
Evon M.C. Ballash, P.E. Civil #PE0051762		

## LPC Post Caps

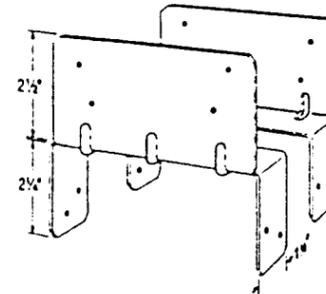
Model No.	Dimensions		Fasteners <sup>1, 4</sup>		Allowable Loads <sup>2, 3</sup>	
	W	L	Beam	Post	Uplift	Lateral
LPC4	3 <sup>9</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>2</sub>	8-10d	8-10d	760	325
LPC6	5 <sup>9</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>2</sub>	8-10d	8-10d	735	490

<sup>1</sup>Fasteners quantities are for two LPC's.

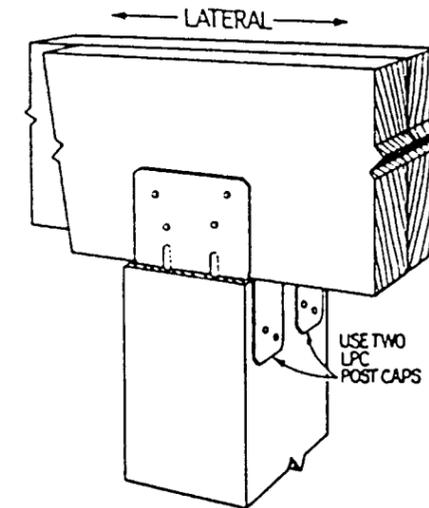
<sup>2</sup>Loads apply only when used in pairs.

<sup>3</sup>Lateral load is in the direction of the beam's axis.

<sup>4</sup>MINIMUM NAIL PENETRATION SHALL BE 1<sup>3</sup>/<sub>8</sub>"



LPC



Typical LPC Installation

**PRODUCT RENEWED**  
 as complying with the Florida  
 Building Code  
 Acceptance No 62-0402-01  
 Expiration Date May 5, 2001

By: *[Signature]*  
 Miami Dade Product Control  
 Division

APPROVED AS COMPLYING WITH THE  
 SOUTH FLORIDA BUILDING CODE  
 DATE: August 19, 1999  
 BY: *[Signature]*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 99-0623-04

### GENERAL NOTES:

- 1) Steel shall conform to 18 gauge for the LPC4 and 16 gauge for the LPC6, ASTM A-653 SS Gr 33 with  $F_{y,min} = 33$  ksi and  $F_{u,min} = 45$  ksi and have a minimum galvanized coating of G60.
- 2) Fasteners are common wire nails unless noted.
- 3) Allowable loads have been increased 33% for wind loading with no other duration increases allowed.
- 4) Allowable loads are based on the National Design Specification for Wood Construction 1991 Edition & 1993 Errata, for Douglas Fir-Larch (G=0.50 or better) and tests performed in accordance with ASTM D1761.

FOR OFFICE USE	<b>SIMPSON STRONG-TIE CO., INC.</b> 4637 Chabot Drive, Suite 200 Pleasanton, CA 94588	7/9/99 <i>Evon M. C. Ballash</i>
TITLE: LPC Post Caps		
Drawing No.:	Sheet No. 3/5	
Drawing Date: 2-2-98	Revision Date: --	
Evon M.C. Ballash, P.E. Civil #PE0051762		

# LTHJ Truss Hip/Jack Hangers

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE August 19 1999  
BY [Signature]  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 99-0623.04

Model No.	Fasteners			Allowable Loads <sup>4,5</sup>		
	Carrying Member <sup>1,3</sup>	Hip	Jack <sup>2</sup>	Carried Member	Uplift	Down
LTHJR/L	12-10d	4-10dx1 1/2	2-10dx1 1/2 and 2-10d	Hip	485	1135
				Jack	250	380
				Total	735	1515

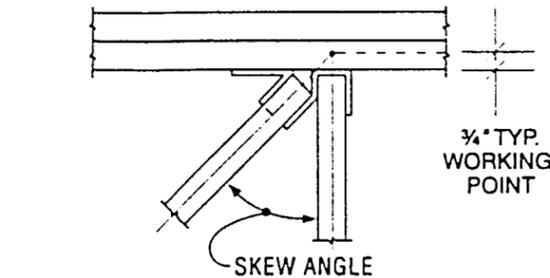
<sup>1</sup>All multiple members must be fastened together to act as a single unit.

<sup>2</sup>The two 10d common nails into the jack must be driven at an angle through the side plate slot and jack, and into the carrying member. The end of the jack cannot be more than 1/8" from the back plate to meet required nail penetration.

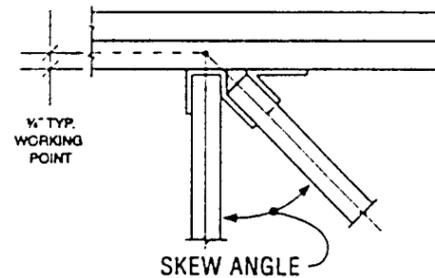
<sup>3</sup>LTHJ should be attached to a double girder truss to allow for code-required minimum nail penetration.  $\geq 1 1/8"$

<sup>4</sup>Distribute 75% of the total load to the hip member. Combine hip and jack for total capacity.

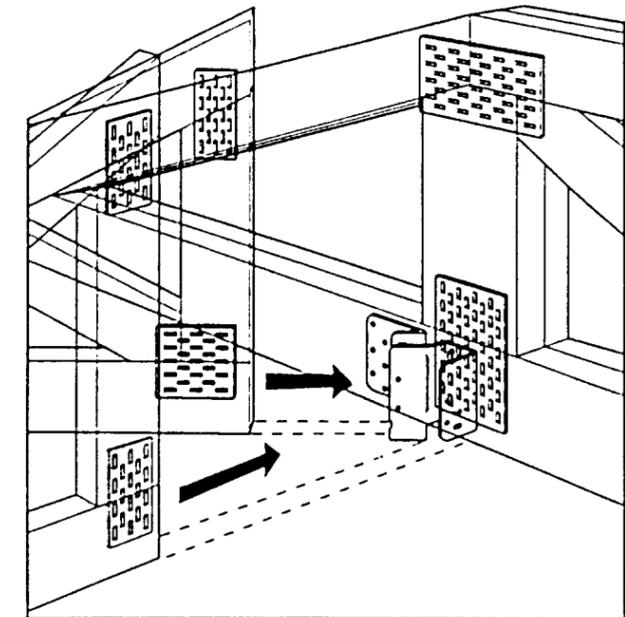
<sup>5</sup>Allowable loads for 10d commons also apply when 16d sinkers are used. With single 2x carrying members, use 10d x 1 1/2" nails and use 0.82 of the table value.



LTHJL Plan View



LTHJR Plan View

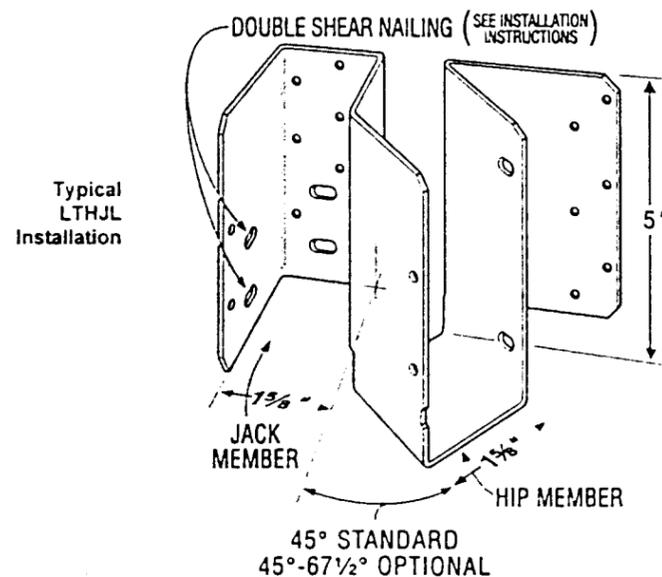


LTHJR  
Hip Skewed 45° Right  
(LTHJL Similar)

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No. 02-0402.01  
Expiration Date Nov 5, 2007  
By [Signature]  
Miami Dade Product Control  
Division

### GENERAL NOTES:

- 1) Steel shall conform to 18 gauge ASTM A-653 FS with  $F_{y,min} = 28$  ksi and  $F_{u,min} = 38$  ksi and have a minimum galvanized coating of G60.
- 2) Fasteners are common wire nails unless noted.
- 3) Allowable uplift loads have been increased 33% for wind loading with no other duration increases allowed.
- 4) Allowable down loads have not been increased by any duration factor.
- 4) Allowable loads are based on the National Design Specification for Wood Construction 1991 Edition & 1993 Errata, for Douglas Fir-Larch (G=0.50 or better) and tests performed in accordance with ASTM D1761.



FOR OFFICE USE

SIMPSON STRONG-TIE CO., INC.  
4637 Chabot Drive, Suite 200  
Pleasanton, CA 94588

TITLE: LTHJ Truss Hip/Jack Hangers

Drawing No. \_\_\_\_\_ Sheet No. 4/5

Drawing Date: 2-2-98 Revision Date: --

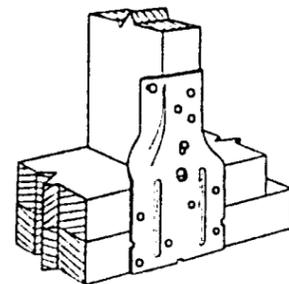
Evon M.C. Ballash, P.E. Civil #PE0051762

7/1999  
Evon M. C. Ballash

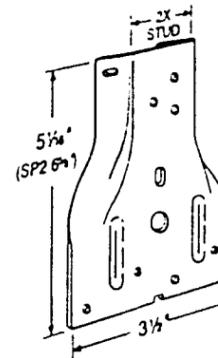
## SP Stud Plate Ties

Model No.	Dimensions		Fasteners <sup>1</sup>		Allowable Uplift Loads
	W	L	Stud	Plate	
SP1	--	--	6-10d	4-10d	---
SP2	--	--	6-10d	6-10d	700
SP4	3 <sup>9</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>16</sub>	6-10dx1 <sup>1</sup> / <sub>2</sub>	--	735
SP6	5 <sup>9</sup> / <sub>16</sub>	7 <sup>3</sup> / <sub>4</sub>	6-10dx1 <sup>1</sup> / <sub>2</sub>	--	735
SP8	7 <sup>5</sup> / <sub>16</sub>	8 <sup>5</sup> / <sub>16</sub>	6-10dx1 <sup>1</sup> / <sub>2</sub>	--	735

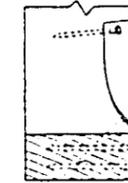
<sup>1</sup>SP1 and SP2: drive one stud nail at an angle through the stud into the plate to achieve the table load (see illustration).



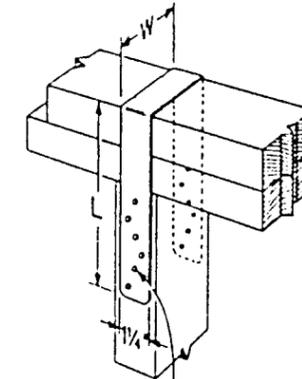
Typical SP2 Installation



SP1



SP1 Nailing Profile



10d x 1 1/2" NAILS EACH SIDE OF STUD

Typical SP4, 6, 8 Installation

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No. 02-0402-01  
Expiration Date May 5, 2007  
By [Signature]  
Miami Dade Product Control  
Division

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE August 9, 1999  
By [Signature]  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 99-0623.04

### GENERAL NOTES:

- 1) Steel shall conform to 20 gauge ASTM A-653 FS with  $F_{y,min} = 28$  ksi and  $F_{u,min} = 38$  ksi and have a minimum galvanized coating of G60.
- 2) Fasteners are common wire nails unless noted.
- 3) Allowable loads have been increased 33% for wind loading with no other duration increases allowed.
- 4) Allowable loads are based on the National Design Specification for Wood Construction 1991 Edition & 1993 Errata, for Douglas Fir-Larch (G=0.50 or better) and tests performed in accordance with ASTM D1761.

FOR OFFICE USE

SIMPSON STRONG-TIE CO., INC.  
4637 Chabot Drive, Suite 200  
Pleasanton, CA 94588

TITLE: SP Stud Plate Ties

Drawing No.:

Sheet No. 5/5

Drawing Date: 2-2-98

Revision Date: --

Evon M.C. Ballash, P.E. Civil #PE0051762

7/9/99

Evon M.C. Ballash