

# Plated-Truss Connectors



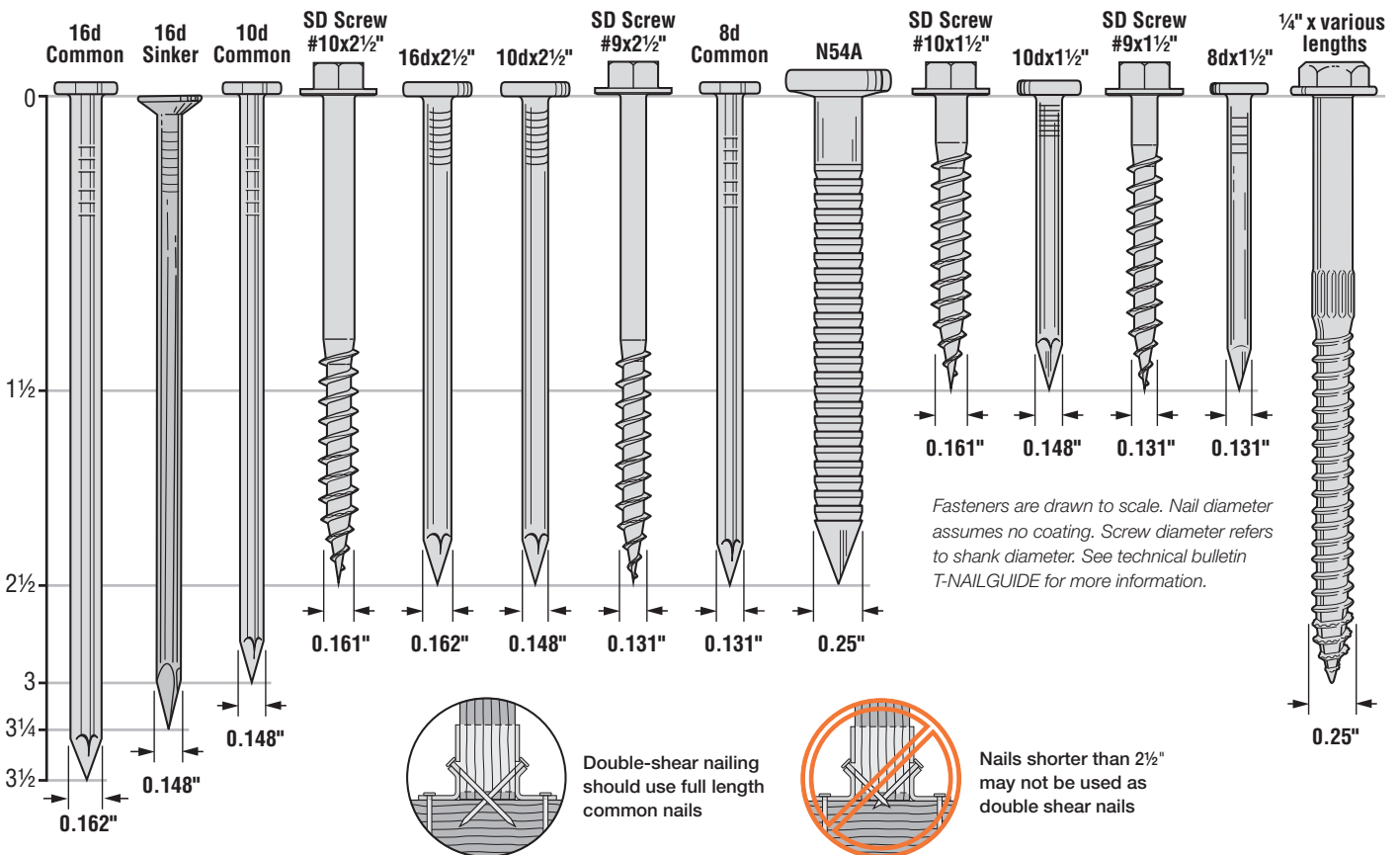
## General Notes

### This Guide Is For Simpson Strong-Tie® Structural Connectors Only!

1. See the current Wood Construction Connectors catalog for hanger design information.
2. The structural component manufacturer is the primary source of information concerning the use of its products. Simpson Strong-Tie does not express and will not accept any responsibility for any manufactured wood component.
3. All specified fasteners must be installed according to the instructions in this installation guide and current Wood Construction Connectors catalog. Incorrect fastener quantity, size, type, material or finish may cause connection failure.
4. Install all fasteners before loading the connection.
5. The hanger must be sized for the wood truss being used.
6. Multiple members must be fastened together to act as a single unit to resist the applied load.

## Fasteners

Use only the specified size, type, and quantity of fasteners. 16d sinkers (0.148 x 3/4) may be substituted for 10d common nails (0.148 x 3). No other substitutions are permitted unless approved and specified by the Designer.



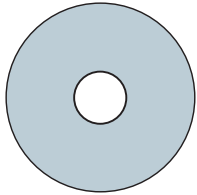
The Simpson Strong-Tie Strong-Drive® SD connector screws and SDS structural heavy-duty connector screws are the only screws approved for use with our connectors.

# Installation Guide For Plated-Truss Connectors



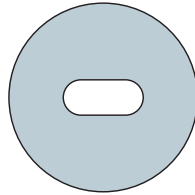
## General Connector Installation

### Fastener Hole Shapes



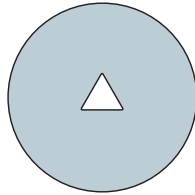
#### Round Holes

All holes must be filled except for the THA adjustable height hanger.



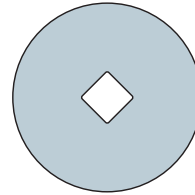
#### Obround Holes

Used to provide easier nailing access in tight locations. Fasteners may be installed at an angle. Holes must be filled.



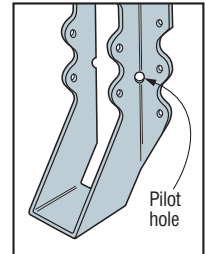
#### Triangle Holes

Provided on some products in addition to round holes for additional load. Round and triangle holes must be filled to achieve the maximum load value.



#### Diamond Holes

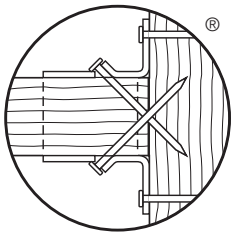
Optional holes to temporarily secure connectors to the member during installation.



#### Pilot Holes

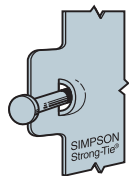
Tooling holes for manufacturing purpose. No fasteners required.

### Double-Shear Nailing

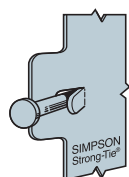


#### Double-Shear Nailing Top View

(The nail is installed into the carried truss and header)



#### Dome Double-Shear Nailing

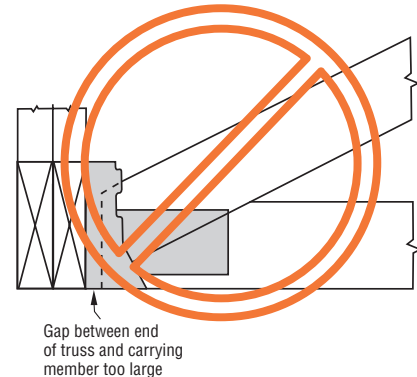
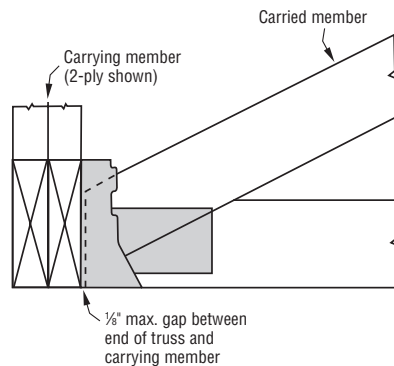


#### Tab Double-Shear Nailing

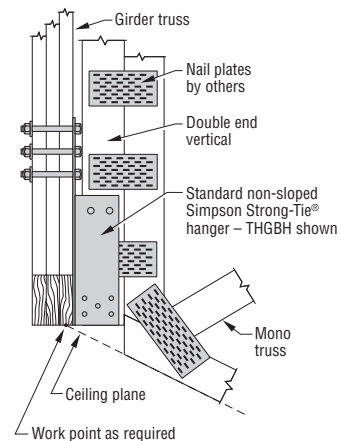
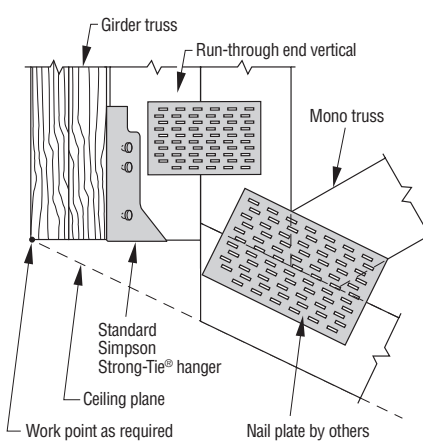
(Do not bend tabs except where noted for straight nailing)

### Proper Installation

Truss shall bear completely on the connector seat, and the gap between the truss end and the header (carrying member) shall not exceed 1/8".



### Using a Standard Connector & Sloped Truss



### The Strong-Drive® SDW TRUSS-PLY and EWP-PLY Screws

These 0.22" diameter, high-strength screws are designed specifically for fastening multi-ply plated wood trusses, engineered lumber products and solid-sawn wood, from one side. See the latest *Fastening Systems* or the latest *Wood Construction Connectors* catalog for additional information.



# Installation Guide For Plated-Truss Connectors



## Adjustable Strap Hangers

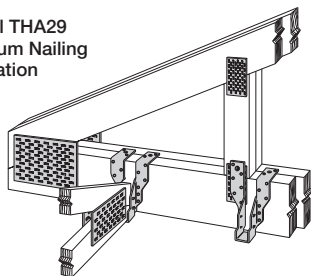
### THA Series

Minimum and maximum nailing options. See design information for correct installation option.

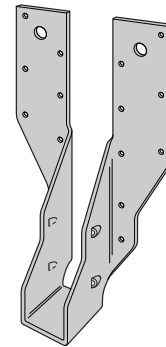
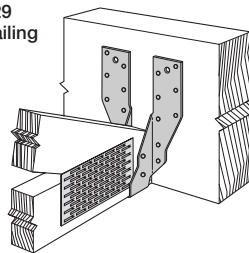
For minimum nailing, straps must be bent over the top of the carrying member a minimum of 2½" for the THA29 and 1½" for the THA213.

Model No.	Fasteners (Quantity & Size)			
	Minimum Nailing Installation (Top Flange)		Maximum Nailing Installation	
	Carrying Member	Carried Member	Carrying Member	Carried Member
THA29	Top: (4) - 0.148"x3" Face: (4) - 0.148"x3"	(4) - 0.148"x3" (slant)	Face: (16) - 0.148"x3"	(4) - 0.148"x3" (slant)
THA213	Top: (4) - 0.148"x3" Face: (2) - 0.148"x3"	(4) - 0.148"x1½" (straight)	Face: (14) - 0.148"x3"	(4) - 0.148"x3" (slant)

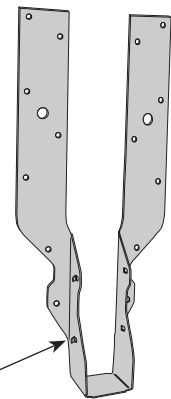
Typical THA29 Minimum Nailing Installation



Typical THA29 Maximum Nailing Installation



THA29



THA213

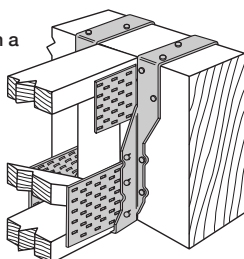
For minimum nailing only, tabs must be straightened so that nails can be driven straight.

## Adjustable Floor-Truss Hangers (THA and THAR/L)

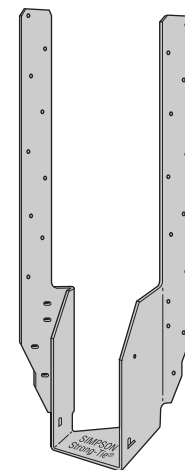
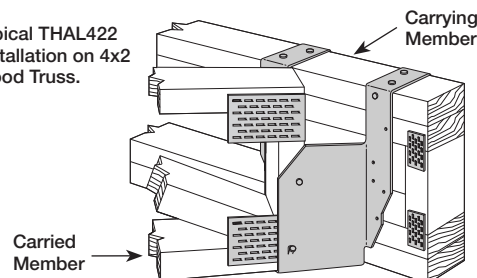
THAR/L has a standard skew of 45°. THAR/L straps must be bent over the carrying member a minimum of 2½". THA straps must be bent a minimum of 2" for the minimum nailing installation.

Model No.	Fasteners (Quantity & Size)			
	Minimum Nailing Installation (Top Flange)		Maximum Nailing Installation	
	Carrying Member	Carried Member	Carrying Member	Carried Member
THA418	Top: (4) - 0.162"x3½" Face: (2) - 0.162"x3½"	(6) - 0.148"x3" (straight)	Face: (22) - 0.162"x3½"	(6) - 0.162"x3½" (slant)
THA422/ THAC422	Top: (4) - 0.162"x3½" Face: (2) - 0.162"x3½"	(6) - 0.148"x3" (straight)	Face: (22) - 0.162"x3½"	(6) - 0.162"x3½" (slant)
THA422-2/ THAC422-2	Top: (4) - 0.162"x3½" Face: (4) - 0.162"x3½"	(6) - 0.162"x3½" (straight)	Face: (30) - 0.162"x3½"	(6) - 0.162"x3½" (slant)
THAR/L422	Top: (4) - 0.148"x3" Face: (2) - 0.148"x3"	(1) - 0.148"x3" (straight) (2) - 0.148"x1½" (slant)	Top: (4) - 0.148"x3" Face: (8) - 0.148"x3"	(1) - 0.148"x3" (straight) (2) - 0.148"x1½" (slant)

Typical THA Installation with a 4x2 Floor Truss



Typical THAL422 Installation on 4x2 Wood Truss.



THAL422

# Installation Guide For Plated-Truss Connectors



## Truss-To-Wall and Valley Truss Connectors

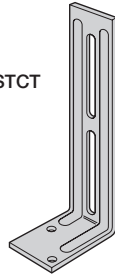
### STC/STCT/DTC/HTC Slotted Truss Clips

Install slot nails in the middle of the slot.

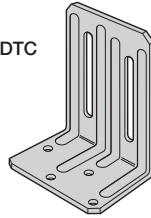
Allow 1/16" under slot nail heads for movement of truss.

Model No.	Fasteners	
	To Wall	To Truss (Slot)
STC	(2) - 0.131"x2½"	(1) - 0.131"x2½"
STCT	(2) - 0.131"x2½"	(1) - 0.131"x2½"
DTC	(4) - 0.131"x2½"	(2) - 0.131"x2½"
HTC	(6) - 0.148"x3"	(3) - 0.148"x3"

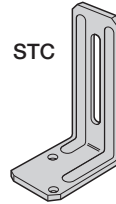
STCT



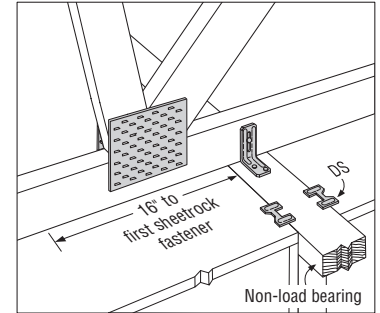
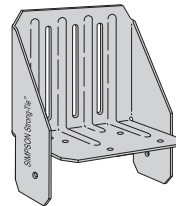
DTC



STC



HTC



Typical STC Installation with DS

To allow vertical truss movement, nails should not be driven completely flush against the connector.

### TBE Truss Bearing Enhancer

Must be installed in pairs.

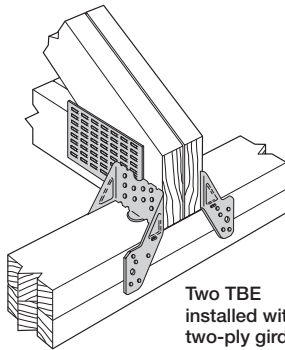
#### Fasteners:

##### 1-ply truss:

Plate: (10)-0.148"x1½"  
Truss: (10)-0.148"x1½"

##### 2 or more plies:

Plate: (10)-0.148"x3"  
Truss: (10)-0.148"x3"



Two TBE installed with two-ply girder truss

### TC Scissor Truss Connector

Install Nails At The Inside Of Slotted Holes And Do Not Set.\*

#### Fasteners:

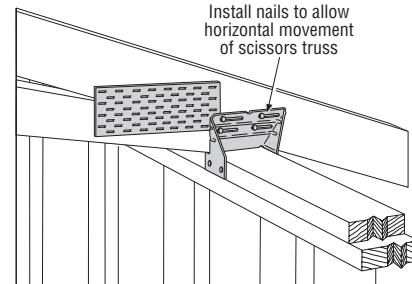
##### TC24:

Plate: (4)-0.148"x3"  
Truss: (4)-0.148"x3"

##### \*TC26 and TC28:

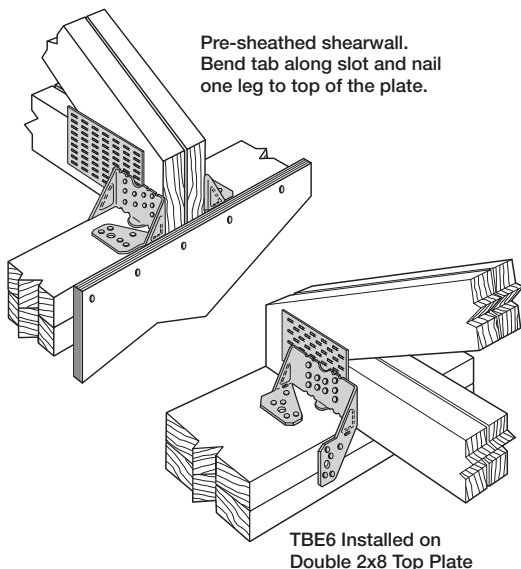
Plate: (6)-0.148"x3"  
Truss: (5)-0.148"x3\*\*

\*Truss nails must be clinched on back side.



Typical TC24 Installation

### TBE Alternate Installation



Pre-sheathed shearwall. Bend tab along slot and nail one leg to top of the plate.

TBE6 Installed on Double 2x8 Top Plate

### VTCR Single-Sided, Valley-Truss Clip

Field Adjustable To Slopes 0:12 Through 12:12.

#### Fasteners:

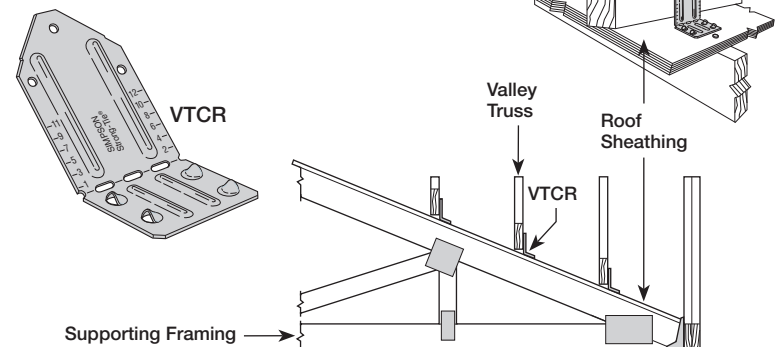
##### Supporting Framing:

(4) 0.148"x3" or (4)-#9x2½" SD connector screws

##### Valley Truss:

(3) 0.148"x1½" or (3)-#9x1½" SD connector screws

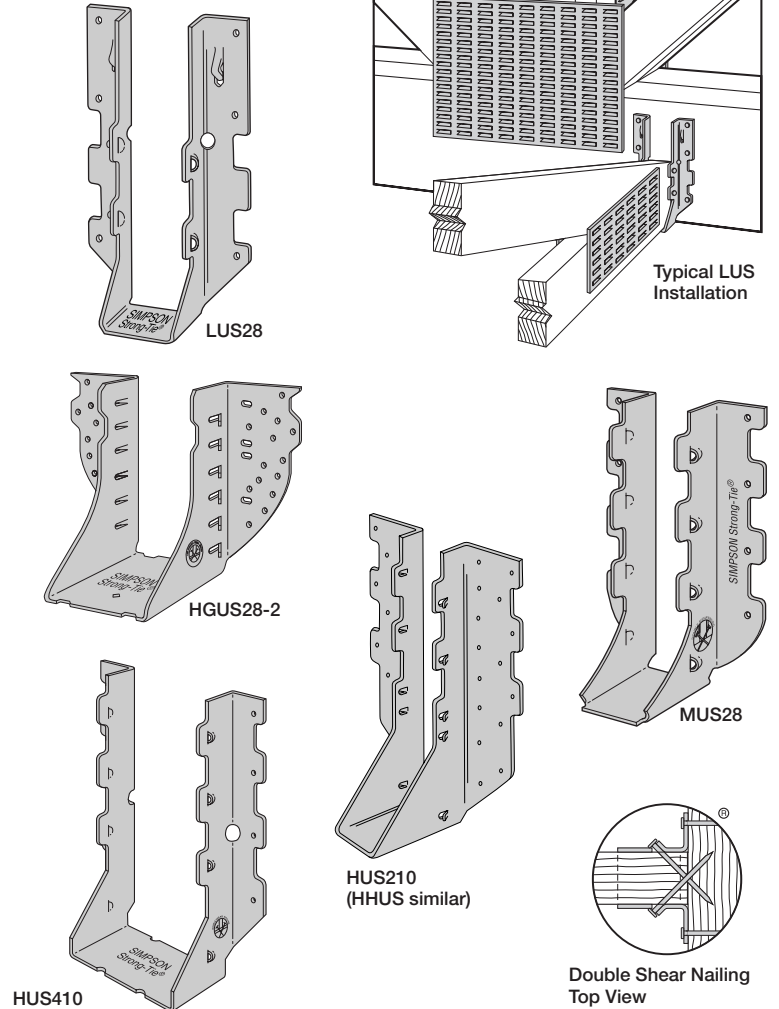
Typical VTCR Installation



## Face-Mount Hangers

### LUS/MUS/HUS/HHUS/HGUS Series

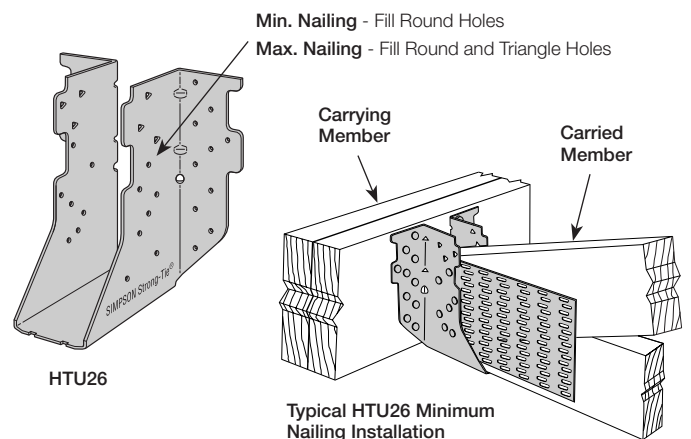
Carried Member	Model No.	Fasteners (Quantity & Size)	
		Carrying Member	Carried Member
1-PLY	LUS24	(4) - 0.148"x3"	(2) - 0.148"x3"
	LUS26	(4) - 0.148"x3"	(4) - 0.148"x3"
	LUS28	(6) - 0.148"x3"	(4) - 0.148"x3"
	LUS210	(8) - 0.148"x3"	(4) - 0.148"x3"
	MUS26	(6) - 0.148"x3"	(6) - 0.148"x3"
	MUS28	(8) - 0.148"x3"	(8) - 0.148"x3"
	HUS26	(14) - 0.162"x3½"	(6) - 0.162"x3½"
	HUS28	(22) - 0.162"x3½"	(8) - 0.162"x3½"
	HUS210	(30) - 0.162"x3½"	(10) - 0.162"x3½"
	HGUS26	(20) - 0.162"x3½"	(8) - 0.162"x3½"
HGUS28	(36) - 0.162"x3½"	(12) - 0.162"x3½"	
2-PLY	HHUS26-2	(14) - 0.162"x3½"	(6) - 0.162"x3½"
	HHUS28-2	(22) - 0.162"x3½"	(8) - 0.162"x3½"
	HHUS210-2	(30) - 0.162"x3½"	(10) - 0.162"x3½"
	HGUS26-2	(20) - 0.162"x3½"	(8) - 0.162"x3½"
	HGUS28-2	(36) - 0.162"x3½"	(12) - 0.162"x3½"
HGUS210-2	(46) - 0.162"x3½"	(16) - 0.162"x3½"	
3-PLY	HGUS26-3	(20) - 0.162"x3½"	(8) - 0.162"x3½"
	HGUS28-3	(36) - 0.162"x3½"	(12) - 0.162"x3½"
	HGUS210-3	(46) - 0.162"x3½"	(16) - 0.162"x3½"
4-PLY	HHUS210-4	(30) - 0.162"x3½"	(10) - 0.162"x3½"
	HGUS26-4	(20) - 0.162"x3½"	(8) - 0.162"x3½"
	HGUS28-4	(36) - 0.162"x3½"	(12) - 0.162"x3½"
	HGUS210-4	(46) - 0.162"x3½"	(16) - 0.162"x3½"
	HGUS212-4	(56) - 0.162"x3½"	(20) - 0.162"x3½"
HGUS214-4	(66) - 0.162"x3½"	(22) - 0.162"x3½"	
4X	HUS410	(8) - 0.162"x3½"	(8) - 0.162"x3½"
	HHUS410	(30) - 0.162"x3½"	(10) - 0.162"x3½"



### HTU Series

Minimum and maximum nailing options. See design information for correct installation option.

Carried Member	Model No.	Fasteners (Quantity & Size)	
		Carrying Member	Carried Member
1-PLY	HTU26	(20) - 0.162"x3½"	(Min: 14) / (Max: 20) - 0.148"x1½"
	HTU28	(26) - 0.162"x3½"	(Min: 14) / (Max: 26) - 0.148"x1½"
	HTU210	(32) - 0.162"x3½"	(Min: 14) / (Max: 32) - 0.148"x1½"
2-PLY	HTU26-2	(20) - 0.162"x3½"	(Min: 14) / (Max: 20) - 0.148"x3"
	HTU28-2	(26) - 0.162"x3½"	(Min: 14) / (Max: 26) - 0.148"x3"
	HTU210-2	(32) - 0.162"x3½"	(Min: 14) / (Max: 32) - 0.148"x3"

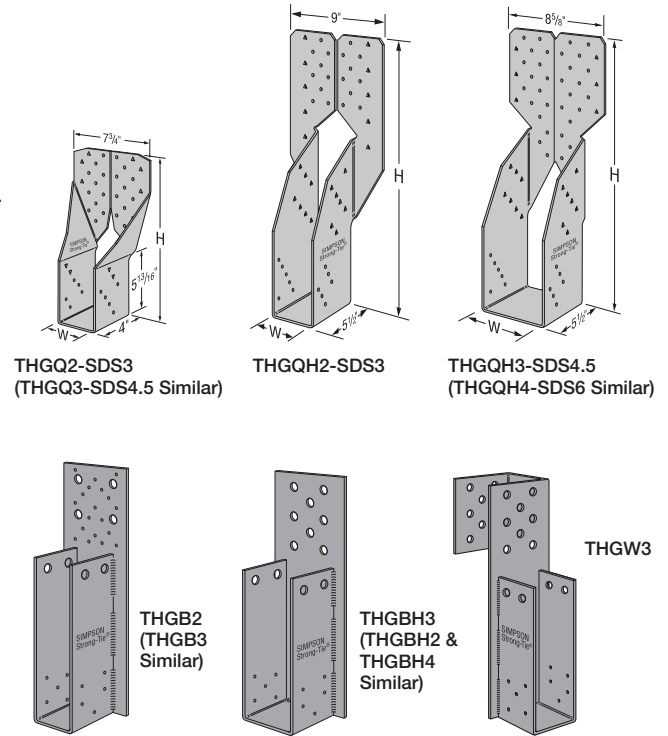


## Heavy-Girder Truss Hangers

### THGB/THGBH/THGW & THGQ/THGQH Series

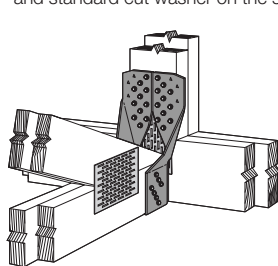
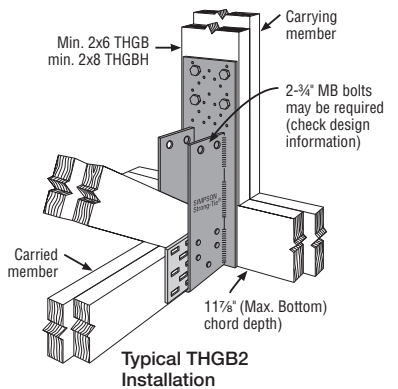
THGB uses Simpson Strong-Tie® Strong-Drive® SDS Heavy-Duty Connector Screws (1/4"x3" or 4 1/2") or bolts into the carrying member. Refer to design information for correct fastener type. Pre-drill for bolts a maximum of 1/16" larger than bolt size. THGQ and THGQH use all SDS screws (supplied with hanger). Minimum and maximum fastening options – see design information for correct installation option.

Carried Member	Model No.	Fasteners (Quantity & Size)	
		Carrying Member	Carried Member
2-PLY	THGB2	(19) - SDS 1/4"x3" or (4) - 3/4" MB	(10) - 0.148"x3"
	THGBH2	(8) - 3/4" MB	(10) - 0.148"x3"
	THGQ2-SDS3	2x6 vert: (22) - SDS 1/4"x3" 2x8 vert: (28) - SDS 1/4"x3"	(Min: 10) / (Max: 14) SDS 1/4"x3"
	THGQH2-SDS3	2x6 vert: (18) - SDS 1/4"x3" 2x8 vert: (28) - SDS 1/4"x3"	(Min: 12) / (Max: 26) SDS 1/4"x3"
3-PLY	THGB3	(19) - SDS 1/4"x4 1/2" or (4) - 3/4" MB	(10) - 0.148"x3"
	THGBH3	(8) - 3/4" MB	(10) - 0.148"x3"
	THGW3	(8) - 3/4" MB	(10) - 0.148"x3"
	THGQ3-SDS4.5	2x6 vert: (22) - SDS 1/4"x4 1/2" 2x8 vert: (28) - SDS 1/4"x4 1/2"	(Min: 10) / (Max: 14) SDS 1/4"x4 1/2"
	THGQH3-SDS4.5	2x8 vert: (32) - SDS 1/4"x4 1/2" 2x10 vert: (38) - SDS 1/4"x4 1/2"	(Min: 12) / (Max: 26) SDS 1/4"x4 1/2"
4-PLY	THGBH4	(8) - 3/4" MB	(10) - 0.148"x3"
	THGW4	(8) - 3/4" MB	(10) - 0.148"x3"
	THGQH4-SDS6	2x8 vert: (34) - SDS 1/4"x6" 2x10 vert: (40) - SDS 1/4"x6"	(Min: 12) / (Max: 26) SDS 1/4"x6"

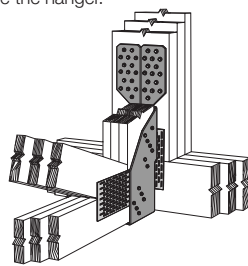


1. MB (machine bolts) refer to A307 Grade A through bolts (not lag screws).
2. Machine bolts in THGB and THGBH hangers shall be installed with a nut and standard cut washer on the side opposite the hanger.

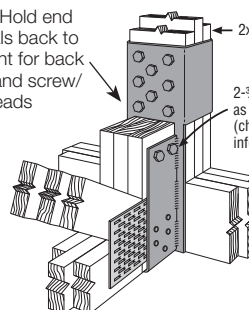
**Note:** Hold end verticals back to account for back plate and screw/bolt heads  
2x8 min.  
2-3/4" MB bolts as required (check design information)



Typical THGQ2-SDS3 Installation



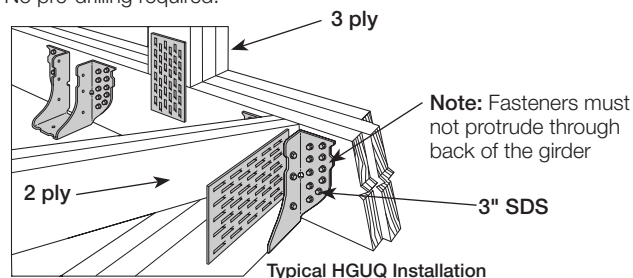
Typical THGQH3-SDS3 Installation



Typical THGW3-3 Installation

### HGUQ Series

Strong-Drive® SDS screws supplied with hanger.  
No pre-drilling required.



Carried Member	Model No.	Fasteners (Quantity & Size)	
		Carrying Member	Carried Member
2-PLY	HGUQ26-2-SDS3	(12) - SDS 1/4"x3"	(4) - SDS 1/4"x3"
	HGUQ28-2-SDS3	(20) - SDS 1/4"x3"	(6) - SDS 1/4"x3"
	HGUQ210-2-SDS3	(28) - SDS 1/4"x3"	(8) - SDS 1/4"x3"
3-PLY	HGUQ26-3-SDS4.5	(12) - SDS 1/4"x4 1/2"	(4) - SDS 1/4"x4 1/2"
	HGUQ28-3-SDS4.5	(20) - SDS 1/4"x4 1/2"	(6) - SDS 1/4"x4 1/2"
	HGUQ210-3-SDS4.5	(28) - SDS 1/4"x4 1/2"	(8) - SDS 1/4"x4 1/2"
4-PLY	HGUQ26-4-SDS6	(12) - SDS 1/4"x6"	(4) - SDS 1/4"x6"
	HGUQ28-4-SDS6	(20) - SDS 1/4"x6"	(6) - SDS 1/4"x6"
	HGUQ210-4-SDS6	(28) - SDS 1/4"x6"	(8) - SDS 1/4"x6"

# Installation Guide For Plated-Truss Connectors

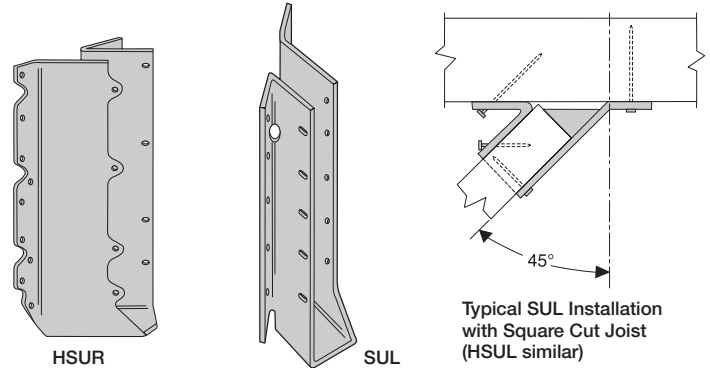


## Skewed and Field-Skewable Hangers

### SUR/L & HSUR/L

Standard 45° skew.

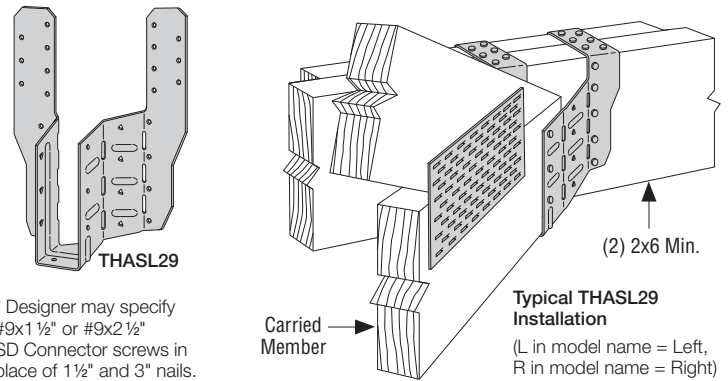
Carried Member	Model No.	Fasteners (Quantity & Size)	
		Carrying Member	Carried Member
1-PLY	SUR/L24	(4) - 0.162"x3½"	(4) - 0.148"x1½"
	SUR/L26	(6) - 0.162"x3½"	(6) - 0.148"x1½"
	SUR/L210	(10) - 0.162"x3½"	(10) - 0.148"x1½"
2-PLY	HSUR/L26-2	(12) - 0.162"x3½"	(4) - 0.162"x2½"
	HSUR/L210-2	(20) - 0.162"x3½"	(6) - 0.162"x2½"



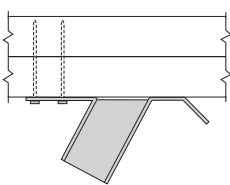
### THASR/L

22½° skewed, field skewable from 22½° to 75°. For 45° floor truss hanger, see THAR/L Adjustable Strap Hanger.

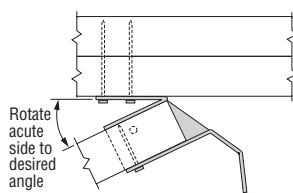
Carried Member	Model No.	Fasteners (Quantity & Size)*	
		Carrying Member	Carried Member
1-PLY	THASR/L29	Top: (4) - 0.148"x3" Face: (6) - 0.148"x3"	(6) - 0.148"x1½"
2-PLY	THASR/L29-2	Top: (4) - 0.148"x3" Face: (8) - 0.148"x3"	(6) - 0.148"x1½"
4X	THASR/L422	Top: (4) - 0.148"x3" Face: (4) - 0.148"x3"	(8) - 0.148"x3"



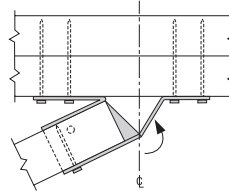
#### INSTALLATION SEQUENCE FOR SKEWS > 22½°



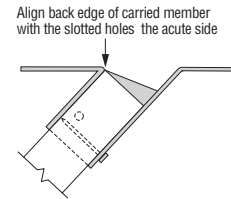
**Step 1:** Install acute side top and/or face header fasteners.



**Step 2:** Utilizing a piece of scrap fastened to the hanger (on obtuse side only), bend the hanger along the acute side bend line to the desired angle.



**Step 3:** Bend the obtuse side of the hanger back toward the header until the narrow nailing flange lies flat against the header, and install obtuse side header top and/or face fasteners.



**Step 4:** Install joist/truss and install the carried member fasteners on the obtuse side and seat only.

### TJC37

Field skewable from 0° to 67½°. Bend one time only. Minimum and maximum nailing options (check design information).

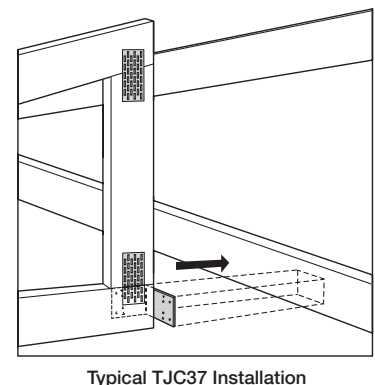
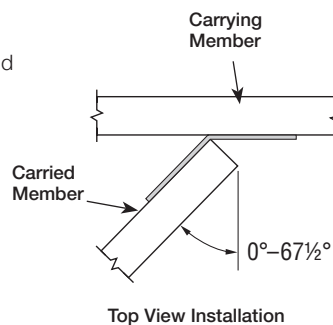
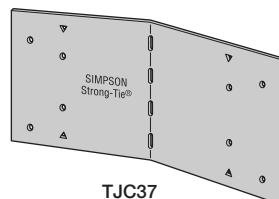
#### Fasteners:

##### Carried Member:

Min: (4)-0.131"x1½"  
Max: (6)-0.131"x1½"

##### Carrying Member:

Min: (4)-0.131"x1½"  
Max: (6)-0.131"x1½"



# Installation Guide For Plated-Truss Connectors

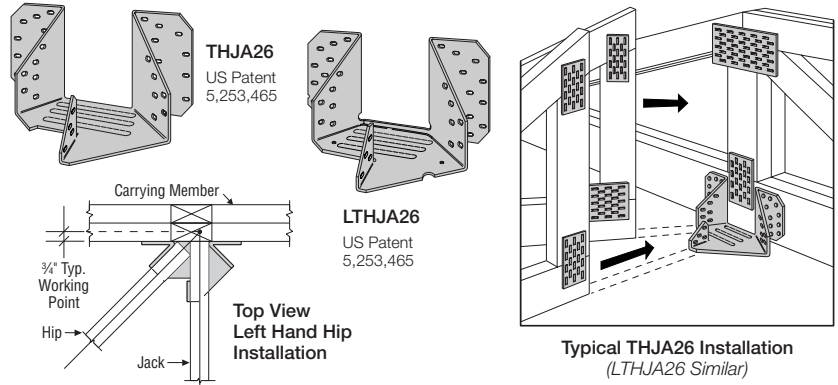


## Multiple-Truss Hangers

### THJA26/LTHJA26

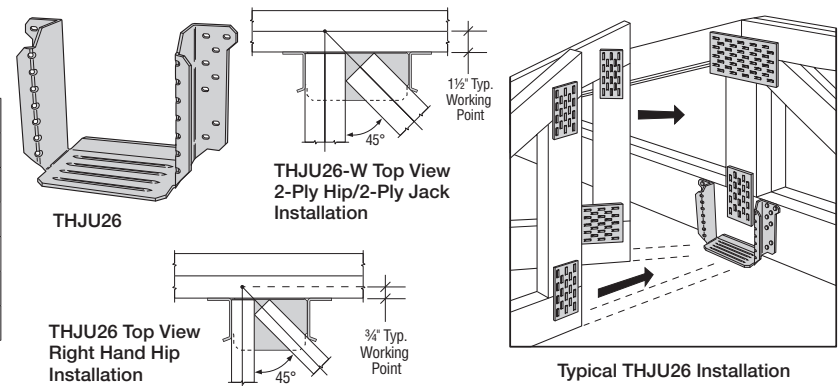
Model No.	Fasteners (Quantity & Size)		
	Carrying Member	Carried Member	
		Hip <sup>1</sup>	Jack
THJA26	(20) - 0.162"x3 1/2"	(6) - 0.148"x1 1/2"	(4) - 0.148"x1 1/2"
LTHJA26	(20) - 0.148"x3"	(7) - 0.148"x1 1/2"	(4) - 0.148"x1 1/2"

1. For the LTHJA26, one 0.148x1 1/2 nail must be installed into the bottom of each hip through bottom of hanger seat.



### THJU26/THJU26W

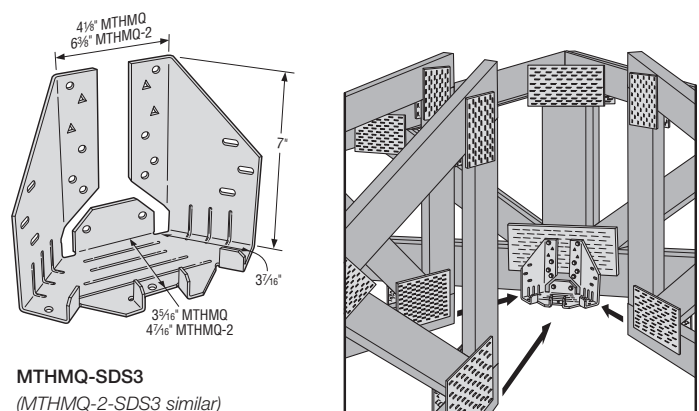
Model No.	Min. Heel Height	Fasteners (Quantity & Size)		
		Carrying Member	Carried Member	
			Hip	Jack
THJU26	3 1/2"	(16) - 0.148"x3"	(4) - 0.148"x3"	(4) - 0.148"x3"
	5 1/2"	(16) - 0.148"x3"	(7) - 0.148"x3"	(7) - 0.148"x3"
THJU26-W	3 1/2"	(16) - 0.148"x3"	(4) - 0.148"x3"	(4) - 0.148"x3"
	5 1/2"	(16) - 0.148"x3"	(7) - 0.148"x3"	(7) - 0.148"x3"



### MTHMQ/MTHMQ-2

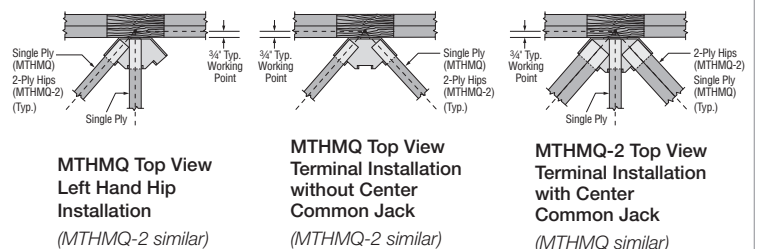
Right- or Left-Hand Hip Installation (Two-Member Connection)

Model No.	Min. Carrying Member <sup>2,3</sup>	Fasteners		
		Carrying Member	Hip	Jack
MTHMQ-SDS3 (Min)	(2)-2x6	10-SDS 1/4"x3"	4-SDS 1/4"x3"	1-SDS 1/4"x3"
MTHMQ-SDS3 (Max)	(2)-2x8	14-SDS 1/4"x3"	4-SDS 1/4"x3"	1-SDS 1/4"x3"
MTHMQ-2-SDS3 (Min)	(2)-2x6	12-SDS 1/4"x3"	5-SDS 1/4"x3"	1-SDS 1/4"x3"
MTHMQ-2-SDS3 (Max)	(2)-2x8	16-SDS 1/4"x3"	5-SDS 1/4"x3"	1-SDS 1/4"x3"



Terminal Type Installation (Three-Member Connection)

Model No.	Min. Carrying Member <sup>2,3</sup>	Fasteners		
		Carrying Member	Hips (Total)	Jack
MTHMQ-SDS3 (Min)	(2)-2x6	10-SDS 1/4"x3"	8-SDS 1/4"x3"	1-SDS 1/4"x3"
MTHMQ-SDS3 (Max)	(2)-2x8	14-SDS 1/4"x3"	8-SDS 1/4"x3"	1-SDS 1/4"x3"
MTHMQ-2-SDS3 (Min)	(2)-2x6	12-SDS 1/4"x3"	10-SDS 1/4"x3"	1-SDS 1/4"x3"
MTHMQ-2-SDS3 (Max)	(2)-2x8	16-SDS 1/4"x3"	10-SDS 1/4"x3"	1-SDS 1/4"x3"





# Conectores para cerchas de placas dentadas

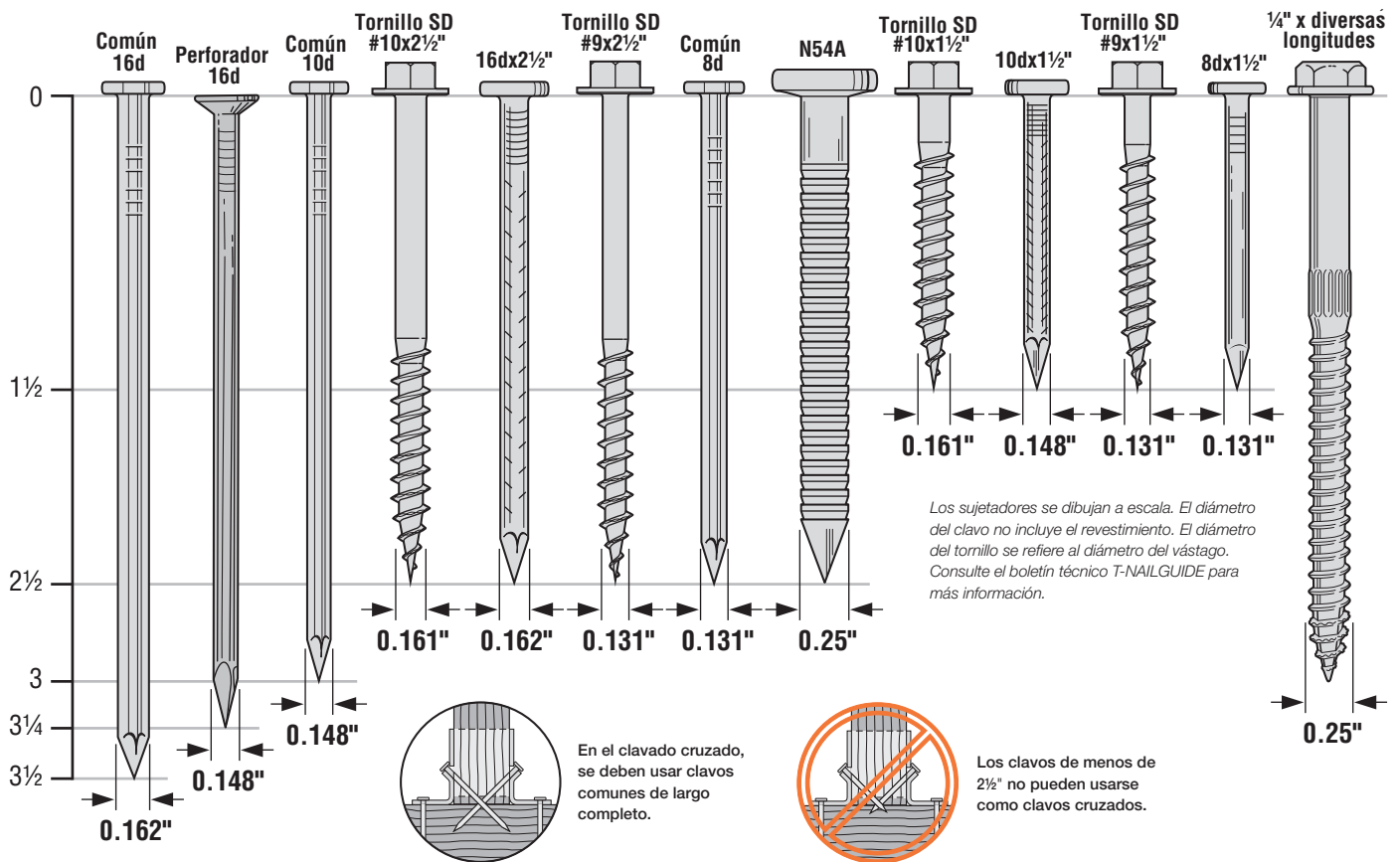
## Notas generales

¡Esta guía solamente se aplica a los conectores estructurales Simpson Strong-Tie®!

1. Vea el catálogo actual de conectores para construcción con madera para información sobre el diseño del soporte.
2. El fabricante del componente estructural es la fuente principal de información con respecto al uso de sus productos. Simpson Strong-Tie no expresa ni acepta ninguna responsabilidad por ningún componente de madera manufacturado.
3. Todos los sujetadores especificados deben instalarse de acuerdo con las instrucciones de esta guía de instalación y en el actual catálogo de conectores para construcción con madera. La cantidad, el tamaño, tipo, material o acabado incorrecto del sujetador puede causar una falla en la conexión.
4. Instale todos los sujetadores antes de cargar la conexión.
5. El soporte debe ser del tamaño correcto para la cercha de madera que se está utilizando.
6. Los elementos múltiples se deben unir para que actúen como una unidad y para que puedan resistir las cargas aplicadas.

## Sujetadores

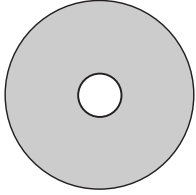
Utilice solo el tamaño, el tipo y la cantidad especificada de sujetadores. Los perforadores 16d (0,148 x 3/4) pueden sustituirse por clavos comunes 10d (0,148 x 3). No se permiten otras sustituciones, excepto que estén aprobadas y especificadas por el proyectista.



Los tornillos conectores SD Strong-Drive® Simpson Strong-Tie y los tornillos para conectores estructurales SDS de alta resistencia son los únicos aprobados para su uso con nuestros conectores.

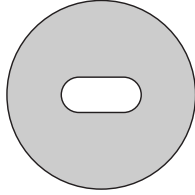
# Instalación general de conectores

## Formas de los orificios de los sujetadores



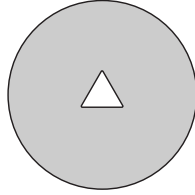
**Orificios redondos**

Todos los orificios se deben rellenar excepto cuando se utilice el soporte de altura ajustable THA.



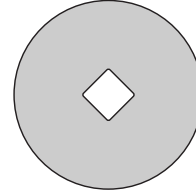
**Orificios rectangulares redondeados**

Se utilizan para proporcionar un acceso de lavado fácil en un lugar estrecho. Los sujetadores pueden instalarse en ángulo. Se deben rellenar los orificios.



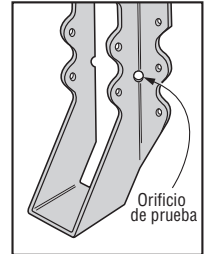
**Orificios triangulares**

Ofrecido con algunos productos, además de con orificios redondos, para resistir cargas adicionales. Los orificios redondos y triangulares deben rellenarse para alcanzar el valor de carga máximo.



**Orificios en rombo**

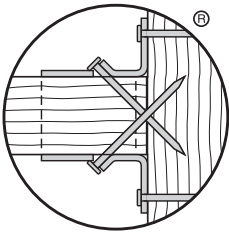
Son orificios opcionales que se utilizan durante la instalación para sujetar temporalmente los conectores al elemento.



**Orificios piloto**

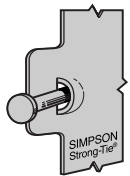
Orificios de maquinado para propósitos de fabricación. No se requieren sujetadores.

## Clavado cruzado

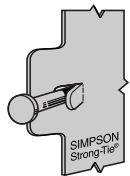


**Vista superior del clavado cruzado**

(Se coloca el clavo en la cercha portada y en el travesaño)



**Clavado cruzado en domo**

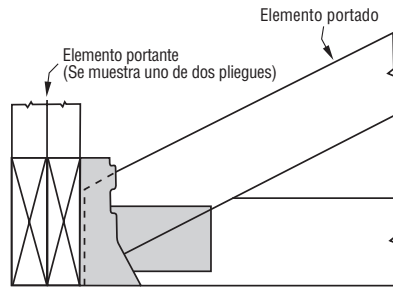


**Clavado cruzado en pestaña**

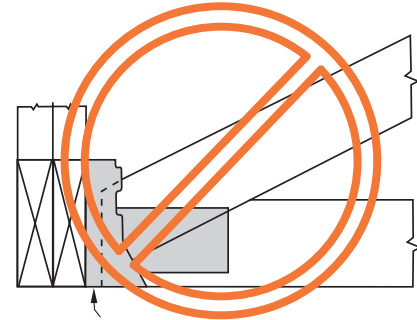
(No doble las pestañas excepto cuando se indique con clavado derecho)

## Instalación correcta

La cercha debe apoyarse por completo sobre el asiento del conector, y el espacio entre el extremo de la cercha y el travesaño (elementos portantes) no puede superar 1/8".

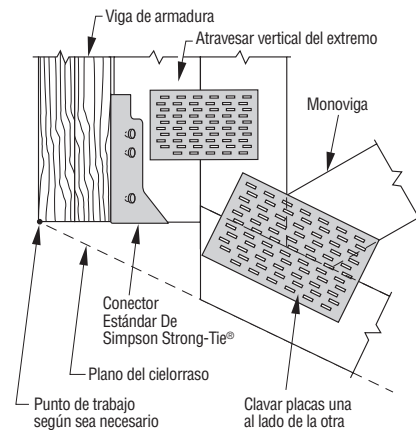


Separación máxima de 1/8" entre el extremo de la viga armada y el elemento portante



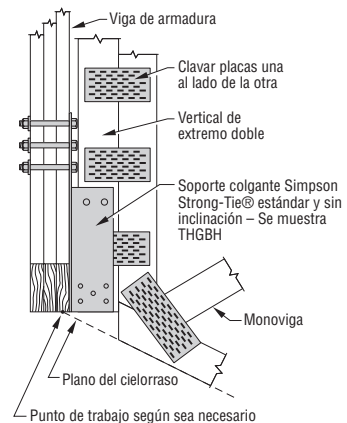
La separación entre el extremo de la viga armada y el elemento portante es demasiado grande

## Uso de conector estándar y cercha con pendiente



Punto de trabajo según sea necesario

Clavar placas una al lado de la otra



Punto de trabajo según sea necesario

## Tornillos SDW TRUSS-PLY y EWP-PLY de Strong-Drive®

Estos tornillos de alta resistencia de 0,22" de diámetro fueron diseñados específicamente para sujetar cerchas de madera de placas dentadas con varias capas, productos fabricados con maderas especialmente diseñadas y maderas aserradas sólidas, por un lado. Para más información, vea el último catálogo de *Sistemas de sujeción* o de *Conectores para construcción con madera*.



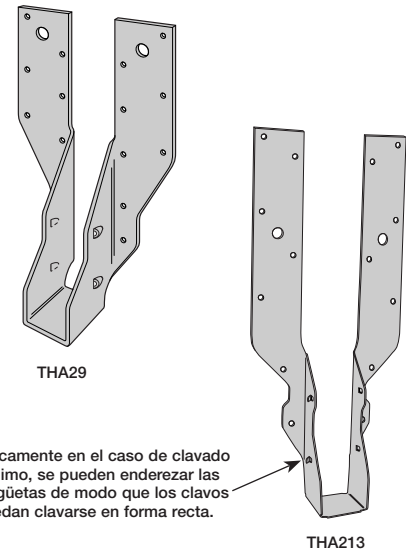
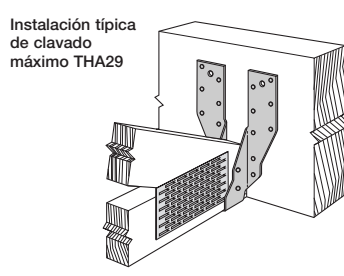
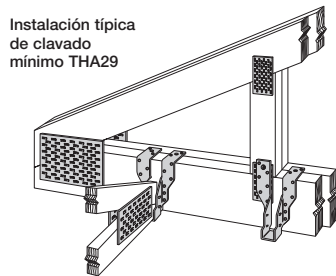
# Soportes colgantes con correas ajustables

## Serie THA

Opciones de clavado mínimo y máximo. Consulte la información de diseño para determinar la opción de instalación correcta.

En el caso del clavado mínimo, las correas se deben doblar sobre la parte superior del elemento portante con un mínimo de 2 1/2" para THA29 y de 1 1/2" para THA213.

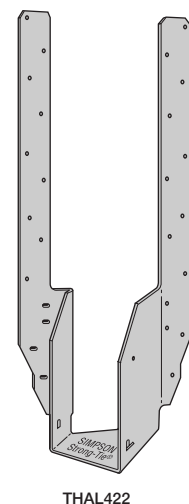
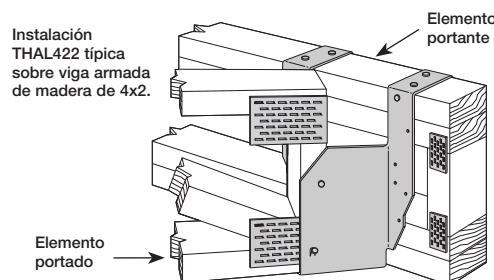
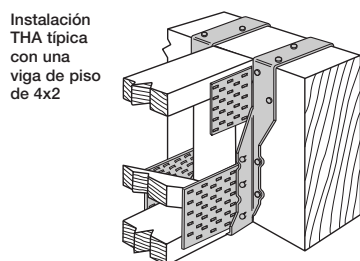
Modelo N.º	Elementos de sujeción (cantidad y tamaño)			
	Instalación de clavado mínimo (brida superior)		Instalación de clavado máximo	
	Elemento portante	Elemento portado	Elemento portante	Elemento portado
THA29	Parte superior: (4) - 0.148"x3" Cara: (4) - 0.148"x3"	(4) - 0.148"x3"(inclinado)	Cara: (16) - 0.148"x3"	(4) - 0.148"x3"(inclinado)
THA213	Parte superior: (4) - 0.148"x3" Cara: (2) - 0.148"x3"	(4) - 0.148"x1 1/2"(recto)	Cara: (14) - 0.148"x3"	(4) - 0.148"x3"(inclinado)



## Soportes colgantes para las vigas de piso ajustables (THA y THAR/L)

THAR/L tiene un sesgo estándar de 45°. Las correas THAR/L se deben doblar por encima del elemento portante un mínimo de 2 1/2". Las correas THA se deben doblar un mínimo de 2" para la instalación con clavado máximo.

Modelo N.º	Elementos de sujeción (cantidad y tamaño)			
	Instalación de clavado mínimo (brida superior)		Instalación de clavado máximo	
	Elemento portante	Elemento portado	Elemento portante	Elemento portado
THA418	Parte superior: (4) - 0.162"x3 1/2" Cara: (2) - 0.162"x3 1/2"	(6) - 0.148"x3" (recto)	Cara: (22) - 0.162"x3 1/2"	(6) - 0.162"x3 1/2" (inclinado)
THA422/ THAC422	Parte superior: (4) - 0.162"x3 1/2" Cara: (2) - 0.162"x3 1/2"	(6) - 0.148"x3" (recto)	Cara: (22) - 0.162"x3 1/2"	(6) - 0.162"x3 1/2" (inclinado)
THA422-2/ THAC422-2	Parte superior: (4) - 0.162"x3 1/2" Cara: (4) - 0.162"x3 1/2"	(6) - 0.162"x3 1/2" (recto)	Cara: (30) - 0.162"x3 1/2"	(6) - 0.162"x3 1/2" (inclinado)
THAR/L422	Parte superior: (4) - 0.148"x3" Cara: (2) - 0.148"x3"	(1) - 0.148"x3" (recto) (2) - 0.148"x1 1/2" (inclinado)	Parte superior: (4) - 0.148"x3" Cara: (8) - 0.148"x3"	(1) - 0.148"x3" (recto) (2) - 0.148"x1 1/2" (inclinado)

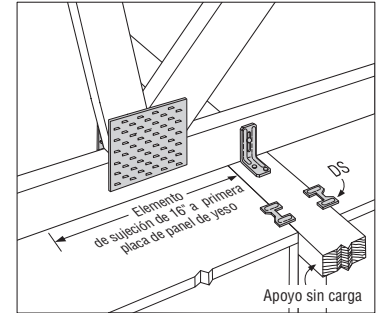
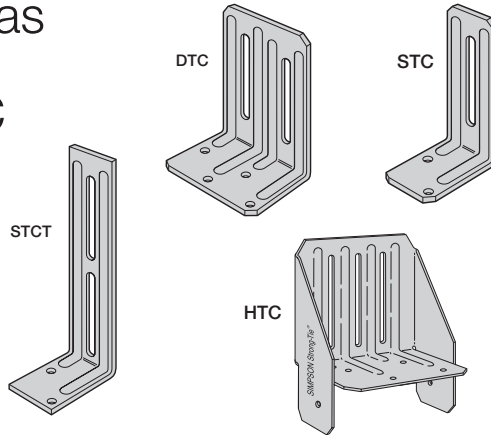


# Conectores de cercha de limahoya y a pared

## Abrazaderas ranuradas para cerchas STC/STCT/DTC/HTC

Instale los clavos de ranura en el medio de la ranura. Deje 1/16" debajo de las cabezas de los clavos en las ranuras para permitir el movimiento de la cercha.

Modelo N.º	Sujetadores	
	A la pared	A la cercha (ranura)
STC	(2) - 0,131"x2 1/2"	(1) - 0,131"x2 1/2"
STCT	(2) - 0,131"x2 1/2"	(1) - 0,131"x2 1/2"
DTC	(4) - 0,131"x2 1/2"	(2) - 0,131"x2 1/2"
HTC	(6) - 0,148"x3"	(3) - 0,148"x3"



Instalación típica de STC con DS

Para permitir el movimiento vertical de la cercha, los clavos no se deben insertar completamente a nivel contra el conector.

## Refuerzo para soporte de cercha TBE

Se debe instalar en pares.

### Sujetadores:

#### Cercha de 1 capa:

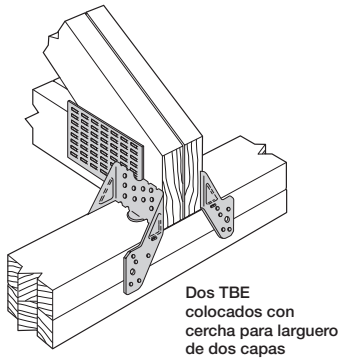
Solera: (10)-0,148"x1 1/2"

Cercha: (10)-0,148"x1 1/2"

#### 2 capas o más:

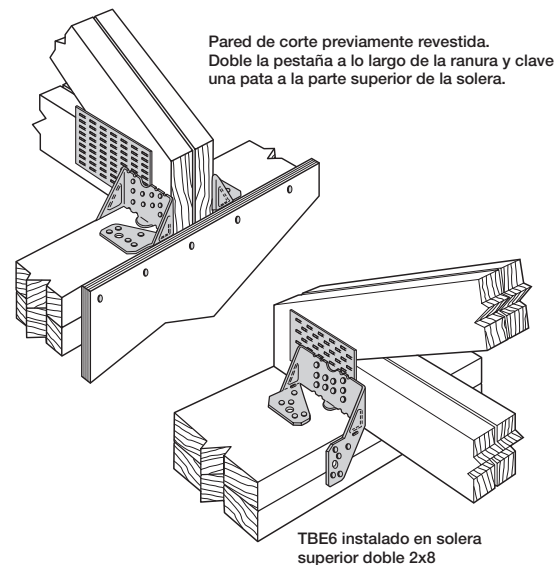
Solera: (10)-0,148"x3"

Cercha: (10)-0,148"x3"



Dos TBE colocados con cercha para larguero de dos capas

## Instalación alternativa para TBE



Pared de corte previamente revestida. Doble la pestaña a lo largo de la ranura y clave una pata a la parte superior de la solera.

TBE6 instalado en solera superior doble 2x8

## Conectores para cerchas de tijeras TC

Coloque los clavos en el interior de los orificios ranurados y nos los fije.\*

### Sujetadores:

#### TC24:

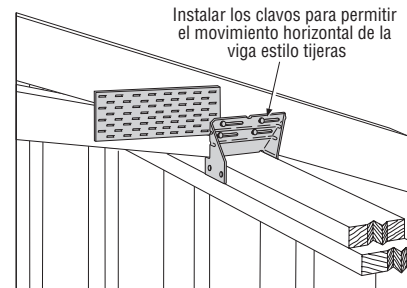
Solera: (4)-0,148"x3"

Cercha: (4)-0,148"x3"

#### \*TC26 y TC28:

Solera: (6)-0,148"x3"

Cercha: (5)-0,148"x3\*\*



Instalar los clavos para permitir el movimiento horizontal de la viga estilo tijeras

\*Los clavos de las cerchas se deben remachar en la parte posterior.

Instalación típica para TC24

## VTCR Abrazaderas para cerchas de limahoya de un solo lateral

Ajustable en obra con pendientes 0:12 hasta 12:12.

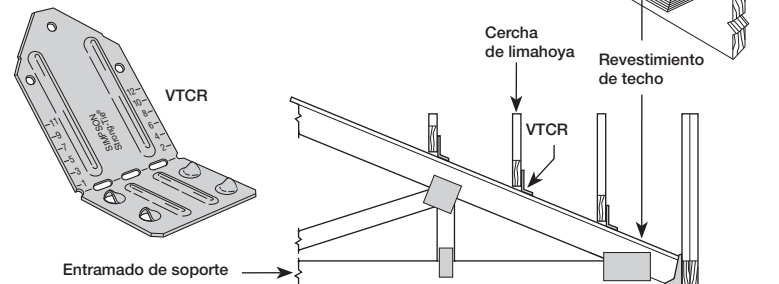
### Sujetadores:

#### Entramado de soporte:

(4) tornillos para conectores SD 0,148"x3" o (4)-#9x2 1/2"

#### Cercha de limahoya:

(3) tornillos para conectores SD 0,148"x1 1/2" o (3)-#9x1 1/2"



Instalación típica de VTCR

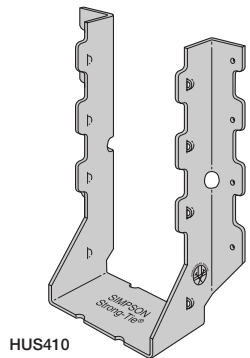
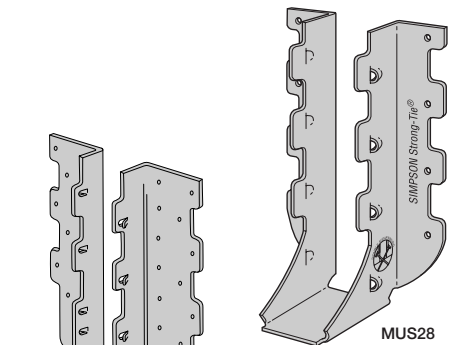
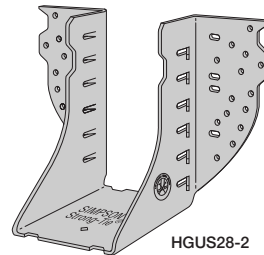
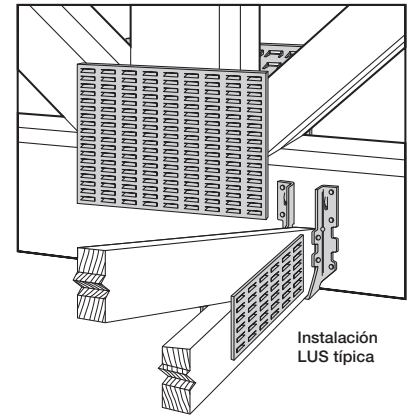
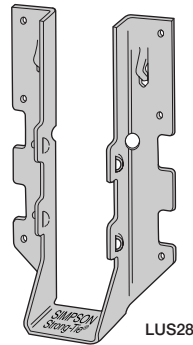
Cercha de limahoya  
Revestimiento de techo

Entramado de soporte

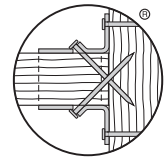
# Soportes colgantes con montaje en cara

## Series LUS/MUS/HUS/HHUS/HGUS

Elemento portado	Modelo N.º	Elementos de sujeción (cantidad y tamaño)	
		Elemento portante	Elemento portado
1 PLIEGUE	LUS24	(4) - 0.148"x3"	(2) - 0.148"x3"
	LUS26	(4) - 0.148"x3"	(4) - 0.148"x3"
	LUS28	(6) - 0.148"x3"	(4) - 0.148"x3"
	LUS210	(8) - 0.148"x3"	(4) - 0.148"x3"
	MUS26	(6) - 0.148"x3"	(6) - 0.148"x3"
	MUS28	(8) - 0.148"x3"	(8) - 0.148"x3"
	HUS26	(14) - 0.162"x3½"	(6) - 0.162"x3½"
	HUS28	(22) - 0.162"x3½"	(8) - 0.162"x3½"
	HUS210	(30) - 0.162"x3½"	(10) - 0.162"x3½"
	HGUS26	(20) - 0.162"x3½"	(8) - 0.162"x3½"
2 PLIEGUES	HHUS26-2	(14) - 0.162"x3½"	(6) - 0.162"x3½"
	HHUS28-2	(22) - 0.162"x3½"	(8) - 0.162"x3½"
	HHUS210-2	(30) - 0.162"x3½"	(10) - 0.162"x3½"
	HGUS26-2	(20) - 0.162"x3½"	(8) - 0.162"x3½"
	HGUS28-2	(36) - 0.162"x3½"	(12) - 0.162"x3½"
	HGUS210-2	(46) - 0.162"x3½"	(16) - 0.162"x3½"
3 PLIEGUES	HGUS26-3	(20) - 0.162"x3½"	(8) - 0.162"x3½"
	HGUS28-3	(36) - 0.162"x3½"	(12) - 0.162"x3½"
	HGUS210-3	(46) - 0.162"x3½"	(16) - 0.162"x3½"
4 PLIEGUES	HHUS210-4	(30) - 0.162"x3½"	(10) - 0.162"x3½"
	HGUS26-4	(20) - 0.162"x3½"	(8) - 0.162"x3½"
	HGUS28-4	(36) - 0.162"x3½"	(12) - 0.162"x3½"
	HGUS210-4	(46) - 0.162"x3½"	(16) - 0.162"x3½"
	HGUS212-4	(56) - 0.162"x3½"	(20) - 0.162"x3½"
	HGUS214-4	(66) - 0.162"x3½"	(22) - 0.162"x3½"
4X	HUS410	(8) - 0.162"x3½"	(8) - 0.162"x3½"
	HHUS410	(30) - 0.162"x3½"	(10) - 0.162"x3½"



HUS210 (Similar a HHUS)

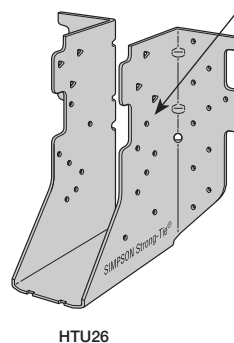


Clavado de doble corte Vista superior

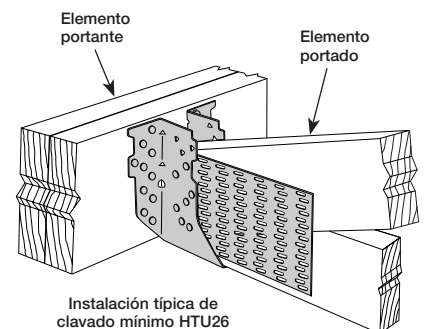
## Serie HTU

Opciones de clavado mínimo y máximo. Consulte la información de diseño para determinar la opción de instalación correcta.

Elemento portado	Modelo N.º	Elementos de sujeción (cantidad y tamaño)	
		Elemento portante	Elemento portado
1 PLIEGUE	HTU26	(20) - 0.162"x3½"	(Mín.: 14)/(Máx.: 20) - 0.148"x1½"
	HTU28	(26) - 0.162"x3½"	(Mín.: 14)/(Máx.: 26) - 0.148"x1½"
	HTU210	(32) - 0.162"x3½"	(Mín.: 14)/(Máx.: 32) - 0.148"x1½"
2 PLIEGUES	HTU26-2	(20) - 0.162"x3½"	(Mín.: 14)/(Máx.: 20) - 0.148"x3"
	HTU28-2	(26) - 0.162"x3½"	(Mín.: 14)/(Máx.: 26) - 0.148"x3"
	HTU210-2	(32) - 0.162"x3½"	(Mín.: 14)/(Máx.: 32) - 0.148"x3"



Clavado mínimo - Rellenar orificios redondos  
Clavado máximo - Rellenar orificios redondos y triangulares

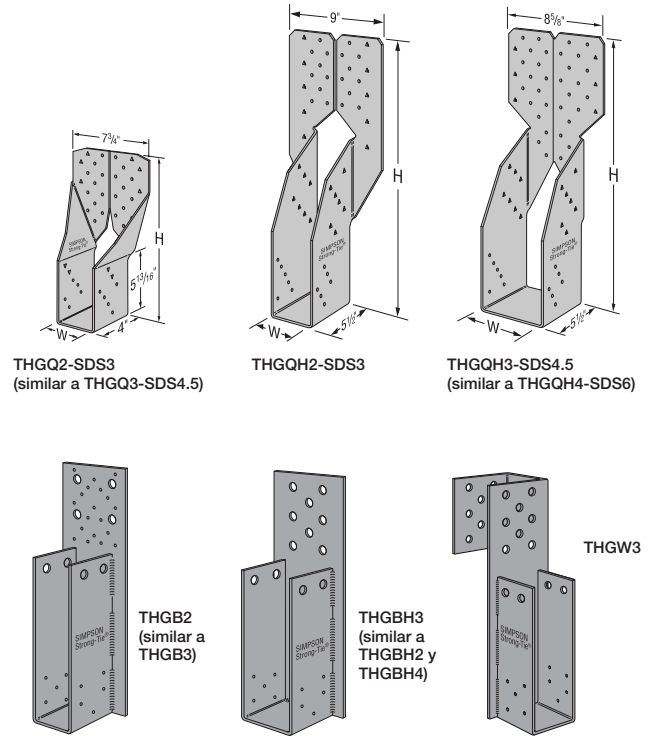


# Soportes para cerchas para largueros

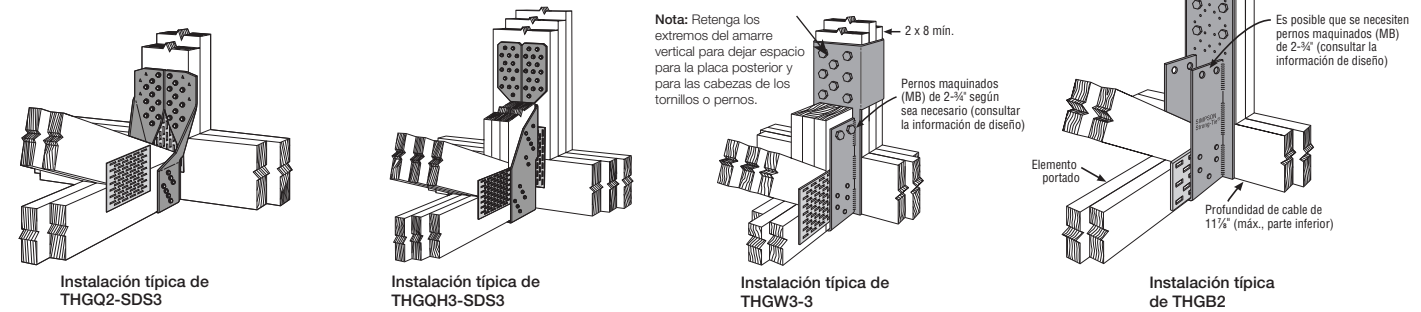
## SERIES THGB/THGBH/THGW Y THGQ/THGQH

THGB utiliza tornillos para conectores de alta resistencia (1/4"x3" o 4 1/2") Simpson Strong-Tie® Strong-Drive® SDS o pernos en el elemento portante. Refiérase a la información de diseño para el tipo correcto de sujetador. Perfore previamente un máximo de 1/16" más que el tamaño del perno. THGQ y THGQH utilizan todos los tornillos SDS (suministrados con los soportes). Para las opciones mínimas y máximas de fijación, vea la información de diseño para la opción correcta de instalación.

Elemento portado	Modelo N.º	Sujetadores (cantidad y tamaño)	
		Elemento portante	Elemento portado
2 CAPAS	THGB2	(19) - SDS 1/4"x3" o (4) - MB 3/4"	(10) - 0,148"x3"
	THGBH2	(8) - MB 3/4"	(10) - 0,148"x3"
	THGQ2-SDS3	2x6 vert.: (22) - SDS 1/4"x3" 2x8 vert.: (28) - SDS 1/4"x3"	(Mín.: 10) / (Máx.: 14) SDS 1/4"x3"
	THGQH2-SDS3	2x6 vert.: (18) - SDS 1/4"x3" 2x8 vert.: (28) - SDS 1/4"x3"	(Mín.: 12) / (Máx.: 26) SDS 1/4"x3"
3 CAPAS	THGB3	(19) - SDS 1/4"x4 1/2" o (4) - MB 3/4"	(10) - 0,148"x3"
	THGBH3	(8) - MB 3/4"	(10) - 0,148"x3"
	THGW3	(8) - MB 3/4"	(10) - 0,148"x3"
	THGQ3-SDS4.5	2x6 vert.: (22) - SDS 1/4"x4 1/2" 2x8 vert.: (28) - SDS 1/4"x4 1/2"	(Mín.: 10) / (Máx.: 14) SDS 1/4"x4 1/2"
	THGQH3-SDS4.5	2x8 vert.: (32) - SDS 1/4"x4 1/2" 2x10 vert.: (38) - SDS 1/4"x4 1/2"	(Mín.: 12) / (Máx.: 26) SDS 1/4"x4 1/2"
4 CAPAS	THGBH4	(8) - MB 3/4"	(10) - 0,148"x3"
	THGW4	(8) - MB 3/4"	(10) - 0,148"x3"
	THGQH4-SDS6	2x8 vert.: (34) - SDS 1/4"x6" 2x10 vert.: (40) - SDS 1/4"x6"	(Mín.: 12) / (Máx.: 26) SDS 1/4"x6"

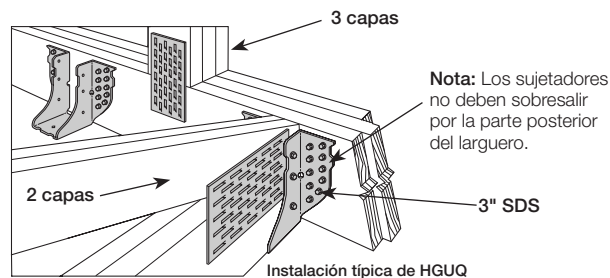


1. MB (pernos torneados) se refiere a pernos pasantes A307 Grado A (no tirafondos).
2. Los pernos torneados en los soportes THGB y THGBH deben instalarse con una tuerca y con una arandela de corte estándar en el lado opuesto del soporte.



## Serie HGUQ

Los tornillos Strong-Drive® SDS se proporcionan con el soporte. No requiere perforar previamente.



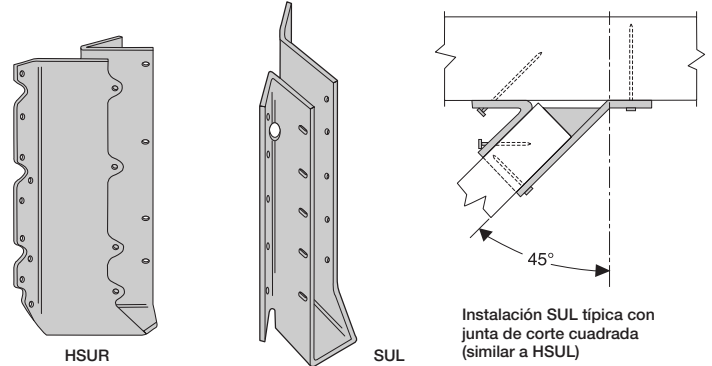
Elemento portado	Modelo N.º	Sujetadores (cantidad y tamaño)	
		Elemento portante	Elemento portado
2 CAPAS	HGUQ26-2-SDS3	(12) - SDS 1/4"x3"	(4) - SDS 1/4"x3"
	HGUQ28-2-SDS3	(20) - SDS 1/4"x3"	(6) - SDS 1/4"x3"
	HGUQ210-2-SDS3	(28) - SDS 1/4"x3"	(8) - SDS 1/4"x3"
3 CAPAS	HGUQ26-3-SDS4.5	(12) - SDS 1/4"x4 1/2"	(4) - SDS 1/4"x4 1/2"
	HGUQ28-3-SDS4.5	(20) - SDS 1/4"x4 1/2"	(6) - SDS 1/4"x4 1/2"
	HGUQ210-3-SDS4.5	(28) - SDS 1/4"x4 1/2"	(8) - SDS 1/4"x4 1/2"
4 CAPAS	HGUQ26-4-SDS6	(12) - SDS 1/4"x6"	(4) - SDS 1/4"x6"
	HGUQ28-4-SDS6	(20) - SDS 1/4"x6"	(6) - SDS 1/4"x6"
	HGUQ210-4-SDS6	(28) - SDS 1/4"x6"	(8) - SDS 1/4"x6"

# Soportes colgantes sesgados y que pueden sesgarse en la obra

## SUR/L Y HSUR/L

Sesgo estándar de 45°

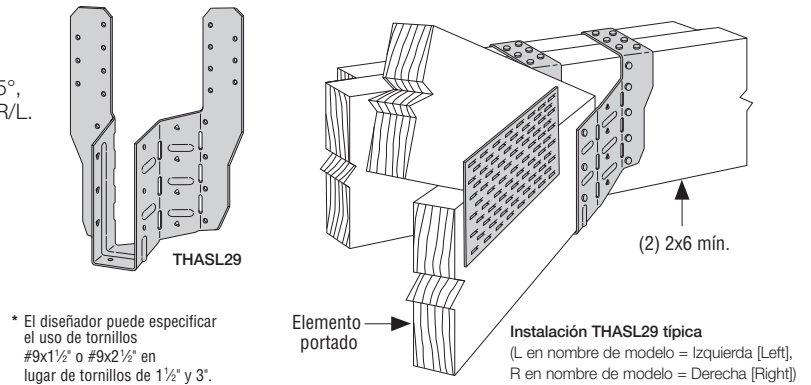
Elemento portado	Modelo N.º	Elementos de sujeción (cantidad y tamaño)	
		Elemento portante	Elemento portado
1 PLIEGUE	SUR/L24	(4) - 0.162"x3½"	(4) - 0.148"x1½"
	SUR/L26	(6) - 0.162"x3½"	(6) - 0.148"x1½"
	SUR/L210	(10) - 0.162"x3½"	(10) - 0.148"x1½"
2 PLIEGUES	HSUR/L26-2	(12) - 0.162"x3½"	(4) - 0.162"x2½"
	HSUR/L210-2	(20) - 0.162"x3½"	(6) - 0.162"x2½"



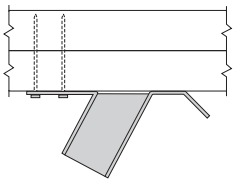
## THASR/L

22½° sesgado, que puede sesgarse en la obra de 22½° a 75°. En el caso del soporte colgante para vigas armadas de piso de 45°, consulte la sección Soporte colgante con correas ajustables THAR/L.

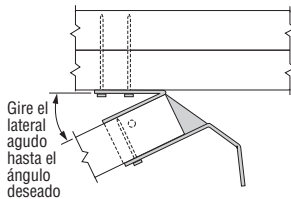
Elemento portado	Modelo N.º	Elementos de sujeción (cantidad y tamaño)*	
		Elemento portante	Elemento portado
1 PLIEGUE	THASR/L29	Parte superior: (4) - 0.148"x3" Cara: (6) - 0.148"x3"	(6) - 0.148"x1½"
2 PLIEGUES	THASR/L29-2	Parte superior: (4) - 0.148"x3" Cara: (8) - 0.148"x3"	(6) - 0.148"x1½"
4X	THASR/L422	Parte superior: (4) - 0.148"x3" Cara: (4) - 0.148"x3"	(8) - 0.148"x3"



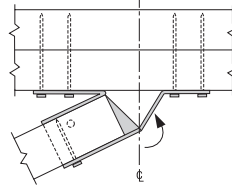
### FRECUENCIA DE INSTALACIÓN PARA LOS SESGOS > 22½°



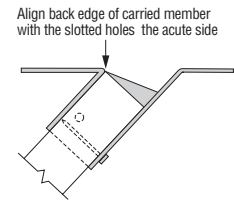
**Paso 1:** Instalar elementos de sujeción superiores o frontales para vigas principales de laterales agudos.



**Paso 2:** Utilizar un fragmento de rebaba sujeta al soporte colgante (únicamente en el lateral obtuso) y doblar el soporte colgante a lo largo de la línea de doblez del lateral agudo hasta obtener el ángulo deseado.



**Paso 3:** Doblar el lateral obtuso del soporte colgante nuevamente en dirección a la viga principal hasta que la brida de clavado estrecha quede plana contra la viga principal e instalar elementos de sujeción superiores o frontales para vigas principales de laterales obtusos.



**Paso 4:** Instalar la junta o la viga armada y los sujetadores para elementos portados sobre el lateral obtuso y la base únicamente.

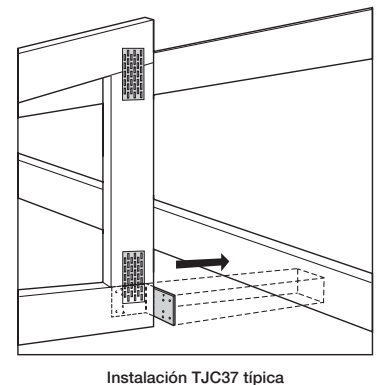
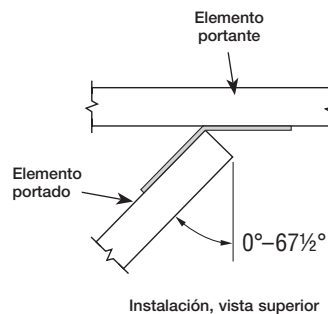
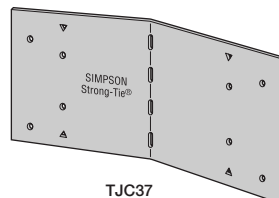
## TJC37

Que puede sesgarse en la obra de 0° a 67½°. Doblar una sola vez. Opciones de clavado mínimo y máximo (consultar información de diseño).

**Elementos de sujeción:**

**Elemento portado:**  
Mín.: (4) - 0.131"x1½"  
Máx.: (6) - 0.131"x1½"

**Elemento portante:**  
Mín.: (4) - 0.131"x1½"  
Máx.: (6) - 0.131"x1½"

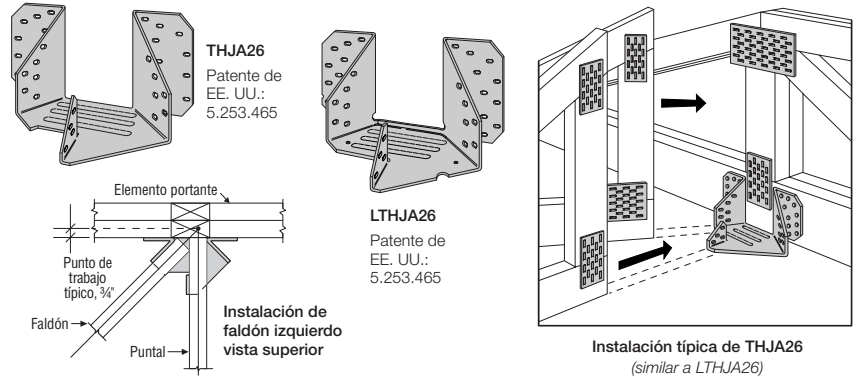


# Soportes para varias cerchas

## THJA26/LTHJA26

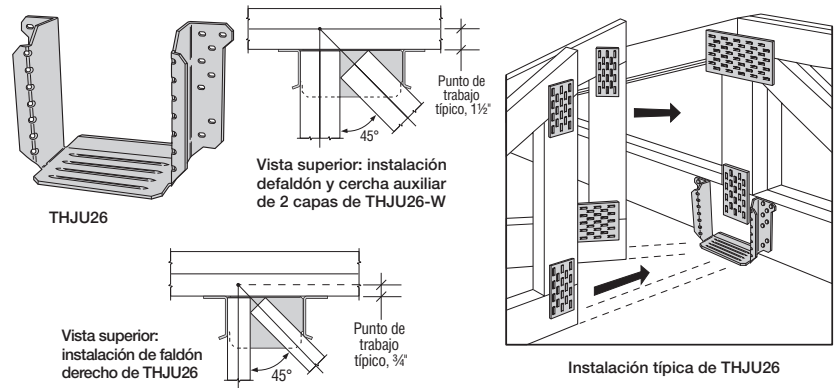
Modelo N.º	Sujetadores (cantidad y tamaño)		
	Elemento portante	Elemento portado	
		Faldón	Cercha auxiliar
THJA26	(20) - 0,162"x3 1/2"	(6) - 0,148"x1 1/2"	(4) - 0,148"x1 1/2"
LTHJA26	(20) - 0,148"x3"	(7) - 0,148"x1 1/2"	(4) - 0,148"x1 1/2"

1. Para el LTHJA26, debe colocarse un clavo de 0,148x1 1/2 en la parte inferior de cada faldón a través de la parte inferior del asiento del soporte.



## THJU26/THJU26W

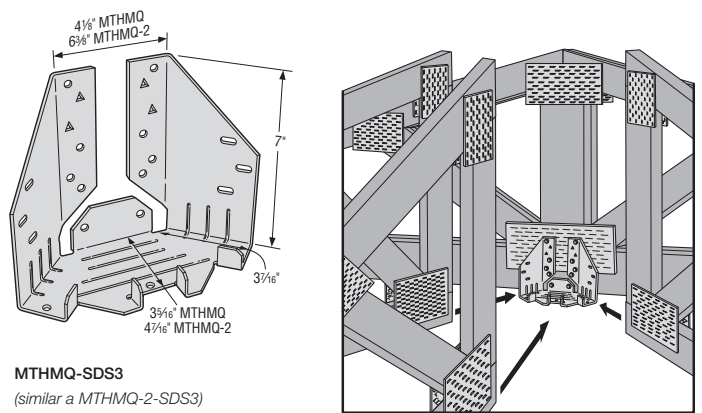
Modelo N.º	Altura mín. del talón	Sujetadores (cantidad y tamaño)		
		Elemento portante	Elemento portado	
			Faldón	Cercha auxiliar
THJU26	3 1/2"	(16) - 0,148"x3"	(4) - 0,148"x3"	(4) - 0,148"x3"
	5 1/2"	(16) - 0,148"x3"	(7) - 0,148"x3"	(7) - 0,148"x3"
THJU26-W	3 1/2"	(16) - 0,148"x3"	(4) - 0,148"x3"	(4) - 0,148"x3"
	5 1/2"	(16) - 0,148"x3"	(7) - 0,148"x3"	(7) - 0,148"x3"



## MTHMQ/MTHMQ-2

Instalación de faldón derecho o izquierdo (conexión de dos elementos)

N.º de modelo	Mín. elemento portante <sup>2,3</sup>	Sujetadores		
		Elemento portante	Faldón	Cercha auxiliar
MTHMQ-SDS3 (Mín.)	(2)-2x6	10-SDS 1/4"x3"	4-SDS 1/4"x3"	1-SDS 1/4"x3"
MTHMQ-SDS3 (Máx.)	(2)-2x8	14-SDS 1/4"x3"	4-SDS 1/4"x3"	1-SDS 1/4"x3"
MTHMQ-2-SDS3 (Mín.)	(2)-2x6	12-SDS 1/4"x3"	5-SDS 1/4"x3"	1-SDS 1/4"x3"
MTHMQ-2-SDS3 (Máx.)	(2)-2x8	16-SDS 1/4"x3"	5-SDS 1/4"x3"	1-SDS 1/4"x3"



Instalación de tipo de extremo (conexión de tres elementos)

N.º de modelo	Mín. elemento portante <sup>2,3</sup>	Sujetadores		
		Elemento portante	Faldones (Total)	Cercha auxiliar
MTHMQ-SDS3 (Mín.)	(2)-2x6	10-SDS 1/4"x3"	8-SDS 1/4"x3"	1-SDS 1/4"x3"
MTHMQ-SDS3 (Máx.)	(2)-2x8	14-SDS 1/4"x3"	8-SDS 1/4"x3"	1-SDS 1/4"x3"
MTHMQ-2-SDS3 (Mín.)	(2)-2x6	12-SDS 1/4"x3"	10-SDS 1/4"x3"	1-SDS 1/4"x3"
MTHMQ-2-SDS3 (Máx.)	(2)-2x8	16-SDS 1/4"x3"	10-SDS 1/4"x3"	1-SDS 1/4"x3"

