



TAMLYN[®]
FAMILY. VALUE. SERVICE.

Connectors

2022 PRODUCT CATALOG

WATER MANAGEMENT | XTREMEINTERIOR[™] | XTREMETRIM[®] | XTREMECOLOR[™] FLASHING | SIDING ACCESSORIES | VENTILATION | METAL FLASHING | CONNECTORS



TAMLYN®

FAMILY. VALUE. SERVICE.

TAMLYN was established in May 1971 by Ron Tamlyn, Sr. with \$800 borrowed money and help from his wife, Jean, in a small shed in the back yard of their modest home in Bellaire, Texas. From a small shed, TAMLYN became a multi-million dollar, international business with a product line to match. In 2017, Tom Tamlyn became CEO and Miguel Gonzales now leads TAMLYN as President. Our history is one of quality, innovation, and proven performance. We are proud to represent the manufacturing end of the building products industry, and remain a competitive manufacturer committed to making products in America, giving customers a choice and not putting all their eggs in an uncertain import basket. An overwhelming majority of our products are still made in the USA. We believe it matters in helping America keep control of its destiny.

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INSTALLATION NOTES

1. Use proper safety equipment during connector installation.
2. Dimensions are in inches and loads are in pounds unless specifically noted otherwise.
3. Load values of 8d and 10d nails refer to common wire nails unless otherwise noted. Do not overdrive nails which can reduce allowable loads.
4. The type and quantity of fasteners used to install TAMLYN Products are critical to connector performance. All specified fasteners shall be properly installed if deemed necessary by the engineer.
5. Wood members with which the connectors are used must be nominal dimension lumber or approved composite lumber. For wood members with fire retardant or preservative treated wood, refer to IBC section 2304.9.4, IRC section R319.3 and NDS section 2.3.4. Wood members with moisture content of 19% or more shall be designed with wet service factor as provided for in NDS
6. Unless otherwise permitted, TAMLYN products shall not be bent or cut in the field to facilitate installation. Field alterations can weaken steel and cause premature connector failure at less than allowable loads.
7. Fastener can cause wood to split and reduce load capacity. 2001 NDS section 11.1.5.3 allows predrilled holes not exceeding 75% of the nail diameter.
8. It is permissible to use nail guns to install specified nails through prepunched holes. Fill all specified holes. TAMLYN recommends the use of nail guns with hole locating mechanisms. Always follow nail gun manufacturer's safety guidelines.
9. Always follow tool manufacturer's instructions for safety when installing all fasteners. Pneumatic or Powder actuated fasteners can deflect and injure the operator or others.
10. Joists installed in hangers shall bear fully on the connector seat and shall fit against the header with a gap not exceeding 1/8".
11. Multiple ply members shall be fastened securely to act as one unit. This is the responsibility of the Engineer or Architect of Record. Provide plywood fillers where required to prevent fastener bending.
12. Top mount hangers shall be installed with the face of the hanger tight to the face of the header.
13. Verify that the size of the supporting member can accommodate the connector's specified fasteners.
14. Some hardened fasteners may fail prematurely if exposed to moisture. Use fasteners in dry interior conditions.
15. For all the connectors covered by ICC-ES report# ESR 1347, 10d x 1-1/2" nails can be substituted for 10d x 3" nails. Section 3.8.3 of the report allows the use of both 1-1/2" and 3" nails because the shear capacity of both the nails is the same.

IDENTIFICATION: "TAMLYN" stencil-stamped and/or labeled with permanent marker or labels on structural products identifies TAMLYN as the manufacturer of that product. Inspectors demand the following stencil-identification on all coded listed products: Manufacturer ID (e.g., TAMLYN)/product model ID (e.g., RT2A)/code group ID (e.g., ICC-ES)/compliance # (e.g., ESR-1347). If a company only imprints the company name and product ID, there is no assurance the product has been tested and manufactured in compliance with code regulations.

NOTE: The structural lumber connectors listed in this catalog are manufactured by TAMLYN, also lists additional structural lumber connectors which are manufactured by KC Metal Products, Inc. and Advanced Connector Systems.

Structural Engineering Firm of record for TAMLYN Lenard Gabert and Associates, Inc.; L.M. Gabert, P.E.

CODE EVALUATION

Florida Statewide Product Approvals FL #8283
ICC-ES Evaluation Report No. ESR-1347
ICC-ES Evaluation Report No. ESR-2556
ICC-ES Evaluation Report No. ESR-3635

LIMITED WARRANTY

TAMLYN warrants defective-free products for a period of 10 years for the original purchaser. TAMLYN products are further warranted as to adequacy of design, provided products are properly specified and installed. This warranty does not apply in the event products are altered in any way or are improperly installed. Liability is limited to replacement of products proven to be defective. TAMLYN has made no other warranty, express or implied, regarding its products, including but not limited to, any warranty regarding merchantability or fitness for a specific purpose. Any claim that a product is defective must be brought within 1 month of the date of installation of such products to the original purchaser. Customer hereby agrees that no other incidental or consequential damages are the responsibility of TAMLYN. Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each Tamlyn product. Specifier and user shall determine the suitability of products for specific application and assume all responsibilities in connection there within.

CORROSION RESISTANCE

TAMLYN offers the following coatings for products which require extra corrosion resistance. Deterioration will occur more quickly when hangers and straps are exposed to corrosive environments. Products are available in the standard hot dip galvanized G90 material. If you require additional protection, please contact TAMLYN for pricing and availability on these processes.

HOT DIP GALVANIZING: Many products are available with a hot dip galvanized coating after fabrication. The actual thickness will vary with the material thickness of the part. This process provides the needed extra protection for adverse weather conditions.

STAINLESS STEEL: The best protection from adverse conditions found in the use of stainless steel for manufacture. Tamlyn uses type 316 stainless steel. It is recommended that stainless steel fasteners be used in conjunction with these specially manufactured hardware items.

TRIPLE ZINC (G-185): 1.85 ounces of zinc per square foot of surface area meets the requirements of ASTM A 653. For minimum corrosion protection use Triple Zinc G-185 products.

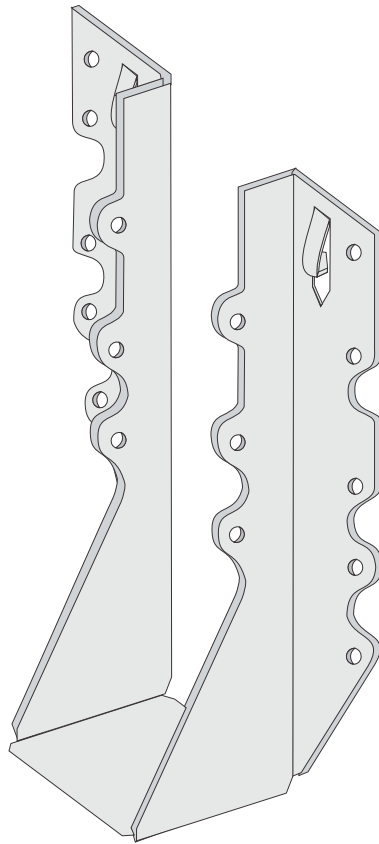
PLEASE NOTE

TAMLYN reserves the right to change designs, specifications and product availability without notice or liability for such changes. Samples of our products are available upon request at no charge.

CONNECTORS

ALPHABETICAL INDEX		REF. CODE
AHTT	Tension Ties.....17	HTT
AHU	Face Mount hangers.....9	HU
ALUS	Face Mount Hangers.....7	LUS
ALUS	Double, Triple, Quad.....8	LUS
ASTHD	Strap Tie Holdowns.....15-16	STHD
BT	Corrugated Wall Ties.....23	BT
CS	Coil Straps.....19	CS
MAS, TMAB	Mudsill Anchors.....21	MAS, MAB
PCSL	Plywood Clip.....22	PCSL
RT,HT	Hurricane Ties.....13-14	H
SJQ	Single Joist Hangers.....6	LU
SS	Hurricane Straps.....18	LSTA
TFAL, AP45	Framing Anchors.....12	LTP4/A35
TLCE4	Post Caps.....11	LCE4
TRSPT-2	Stud Plate Ties.....10	RSP4
WB, WBT	Wall Bracing.....20	WB106, WB126

SJQ



DESIGN FEATURES

TAMLYN custom-die designed and manufactured for quick installation and maximum load value.

MATERIAL

20ga. galvanized steel. Available in G-185 Triple Zinc or Hot-Dip Galvanized. Call for availability.

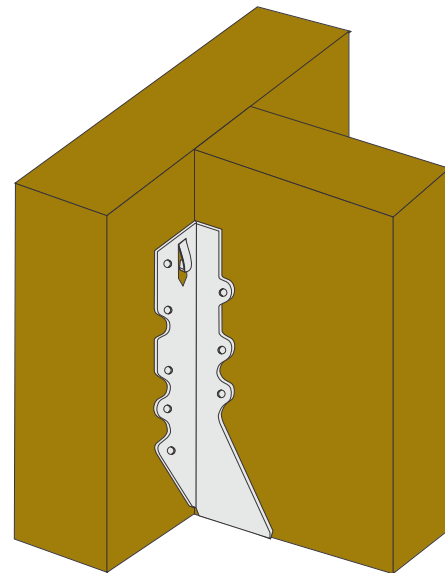
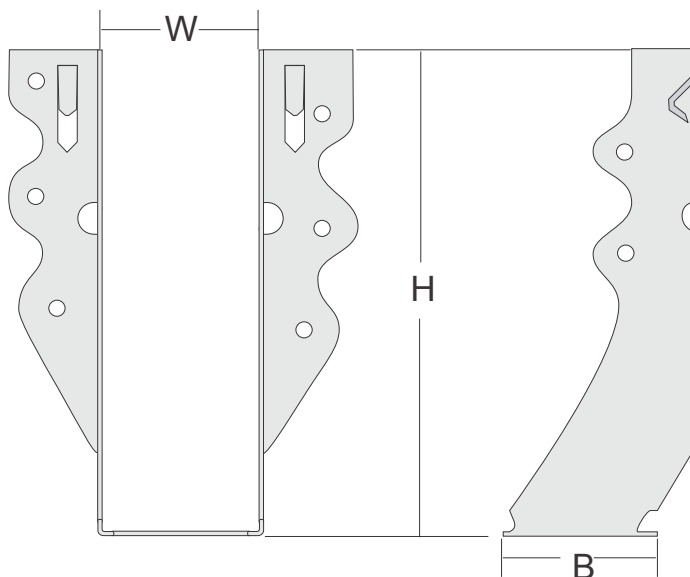
CODES

FL Approval #8283, ICC ESR-1347

NOTES

1. Nails are 10d by 1-1/2 inch joist hanger nails.
2. Allowable loads are for hangers nailed into wood or structural composite lumber having an effective specific gravity of 0.55 (such as Southern Pine) or greater.
3. Allowable gravity (bearing) loads have been adjusted by load duration factors, CD, of 1.0 (100%), 1.15 (115%), and 1.25 (125%), corresponding to the typical durations of occupancy live loads, snow loads and construction loads, respectively. No further increases in allowable loads are permitted.

ITEM ID	REF	JOINT SIZE	DIMENSIONS			NAIL SCHEDULE ¹		ALLOWABLE LOADS - SYP ² (LBF)		
			W	H	B	Joist	Header	Gravity ³ 100%	Gravity ³ 115%	Gravity ³ 125%
SJQ24	LU24	2X4	1-5/8"	3-1/8"	1-1/2"	2	4	504	580	623
SJQ26	LU26	2X6, 8	1-5/8"	4-3/4"	1-1/2"	4	6	756	869	945
SJQ28	LU28	2X8, 10	1-5/8"	7"	1-1/2"	6	8	1008	1159	1260
SJQ210	LU210	2X10, 12, 14	1-5/8"	7-7/8"	1-1/2"	6	10	1260	1449	1575



DESIGN FEATURES

Provide proper balance between load-carrying capacity of hanger and the truss it supports.

MATERIAL

18ga. galvanized steel. Available in G-185 Triple Zinc or Hot-Dip Galvanized. Call for availability.

LOADS

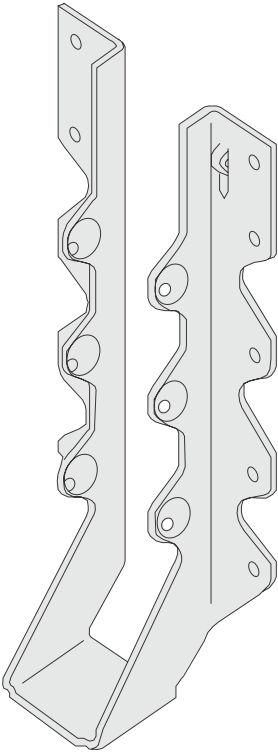
Larger seat-bearing and designed direct nailing provide proper installation of all nails into joist hangers.

CODES

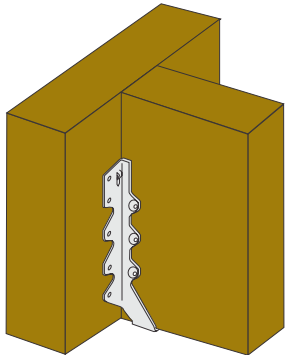
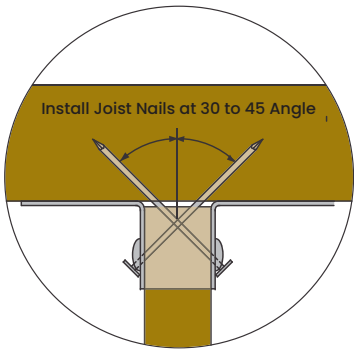
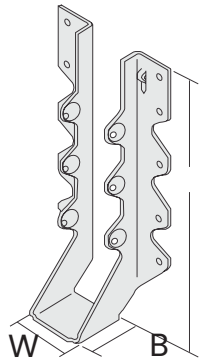
ICC ESR-2556

NOTES

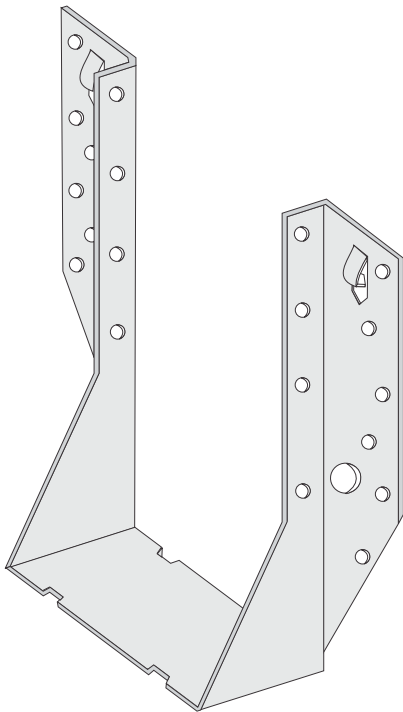
- 1. Allowable loads are for hangers nailed into wood or structural composite lumber having an effective specific gravity of 0.55 (such as Southern Pine) or greater.
- 2. Allowable uplift loads have been adjusted by a load duration factor CD, of 1.6 (160%), corresponding to the typical duration of wind and earthquake loads.
- 3. Allowable gravity (bearing) loads have been adjusted by load duration factors, CD, of 1.0 (100%), 1.15 (115%), and 1.25 (125%), corresponding to the typical durations of occupancy live loads, snow loads and construction loads, respectively.
- 4. Tabulated loads are without 33% steel stress increase.
- 5. Joist nails must be driven at a 45 to degree angle through the joist into the header/beam (double shear nailing) to achieve the tabulated loads.
- 6. Allowable uplift loads have been increased for wind or earthquake loading with no further increase allowed. The allowable uplift loads must be reduced when other load durations govern.



ITEM ID	REF	JOIST SIZE	DIMENSIONS ¹			NAIL SCHEDULE ²		ALLOWABLE LOADS ^{3,4} (LBS)			
								UPLIFT ⁶		DOWNLOAD	
			W	H	B	Joist ⁵	Header	C _D =1.6	C _D =1.0	C _D =1.15	C _D =1.25
ALUS24	LUS24	2x4	1-9/16"	3-5/16"	1-1/2"	2-10d	4-10d	620	710	810	875
ALUS26	LUS26	2x6	1-9/16"	4-7/8"	1-1/2"	4-10d	6-10d	1145	1180	1350	1460
ALUS28	LUS28	2x8	1-9/16"	6-1/2"	1-1/2"	6-10d	8-10d	1830	1655	1765	1765
ALUS210	LUS210	2x10	1-9/16"	7-1/2"	1-1/2"	6-10d	10-10d	1830	1815	1815	1815



ALUS



DESIGN FEATURES

TAMLYN custom-die designed and manufactured for quick installation and maximum load value.

MATERIAL

18ga. galvanized steel. Available in G-185 Triple Zinc or Hot-Dip Galvanized. Call for availability.

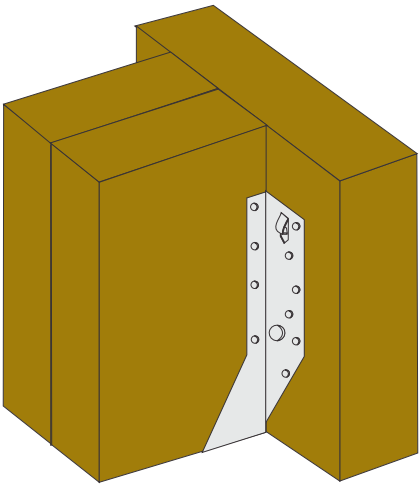
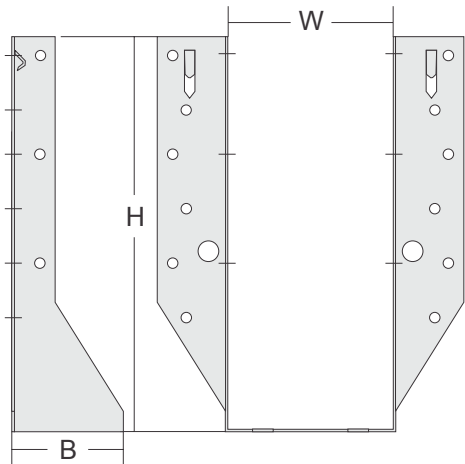
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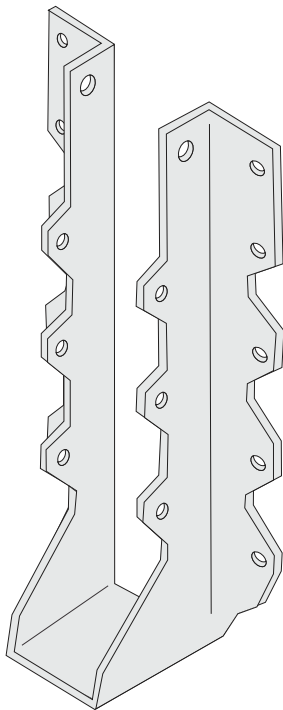
FL Approval #8283, ICC ESR-1347

NOTES

- 1. Allowable loads are for hangers nailed into wood or structural composite lumber having an effective specific gravity of 0.55 (such as Southern Pine) or greater.
- 2. Allowable uplift loads have been adjusted by a load duration factor CD, of 1.6 (160%), corresponding to the typical duration of wind and earthquake loads.
- 3. Allowable gravity (bearing) loads have been adjusted by load duration factors, CD, of 1.0 (100%), 1.15 (115%), and 1.25 (125%), corresponding to the typical durations of occupancy live loads, snow loads and construction loads, respectively. No further increases in allowable loads are permitted.

ITEM ID	DIMENSIONS			STEEL GAGE NO.	NAIL SCHEDULE ¹		ALLOWABLE LOADS ² (LBF)		
	H	W	B		Joist	Header	Download		
							C ³ =1.0	C ³ =1.15	C ³ =1.25
ALUS26-2	5-1/2"	3-1/8"	2"	18	4	8	935	935	935
ALUS28-2	7-1/4"	3-1/8"	2"	18	6	12	1548	1757	1757
ALUS210-2	8-1/2"	3-1/8"	2"	18	8	14	1806	1983	1983
ALUS210-3	7-3/4"	7-3/4"	2"	18	8	14	1806	2000	2000
ALUS46	7"	3-1/2"	2"	18	6	12	1548	1780	1870
ALUS410	8-3/8"	3-1/2"	2"	18	8	14	1806	1842	1842
AU410	10"	6"	3-1/2"	18	4	6	774	890	968





DESIGN FEATURES

Most models have triangle and round holes. To achieve maximum loads, fill both round and triangle holes with common nails. These heavy-duty connectors are designed for schools and other structures requiring additional strength, longevity and safety factors.

MATERIAL

14ga. galvanized steel Available in G-185 Triple Zinc or Hot-Dip Galvanized. Call for availability.

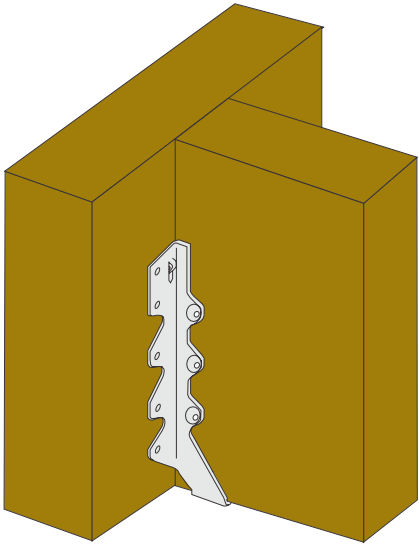
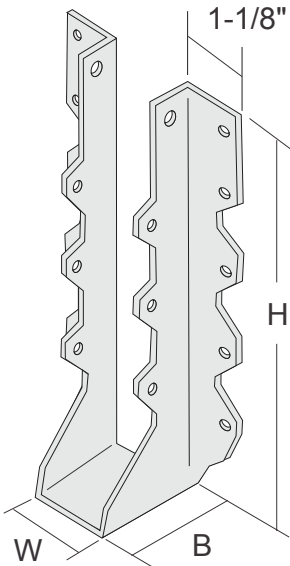
CODES

ICC ESR-2556

NOTES

- 1. Allowable loads are for hangers nailed into wood or structural composite lumber having an effective specific gravity of 0.55 (such as Southern Pine) or greater.
- 2. Allowable uplift loads have been adjusted by a load duration factor CD, of 1.6 (160%), corresponding to the typical duration of wind and earthquake loads.
- 3. Allowable gravity (bearing) loads have been adjusted by load duration factors, CD, of 1.0 (100%), 1.15 (115%), and 1.25 (125%), corresponding to the typical durations of occupancy live loads, snow loads and construction loads, respectively.
- 4. Tabulated loads are without 33% steel stress increase.

ITEM ID	TABLE 6A ² REF. NO.	DIMENSIONS ¹		FASTENERS ² (Quantity-Type)		ALLOWABLE LOADS ^{4,5,6} (LBS)			
						UPLIFT		DOWNLOAD	
		W	H	Header	Joist	C _D =1.6	C _D =1.0	C _D =1.15	C _D =1.25
AHU26	1	1-9/16"	3"	4-16d	2-10d x 1-1/2	295	595	670	725
AHU28	2	1-9/16"	4-5/8"	6-16d	4-10d x 1-1/2	585	895	1,010	1,085
AHU210	4	1-9/16"	6-3/8"	8-16d	6-10d x 1-1/2	1,005	1,190	1,345	1,445
AHU212	6	1-9/16"	7-3/4"	10-16d	6-10d x 1-1/2	1,005	1,490	1,680	1,805
AHU214	7	1-9/16"	10-1/8"	12-16d	6-10d x 1-1/2	1,005	1,785	2,015	2,030



TRSPT-2

DESIGN FEATURES

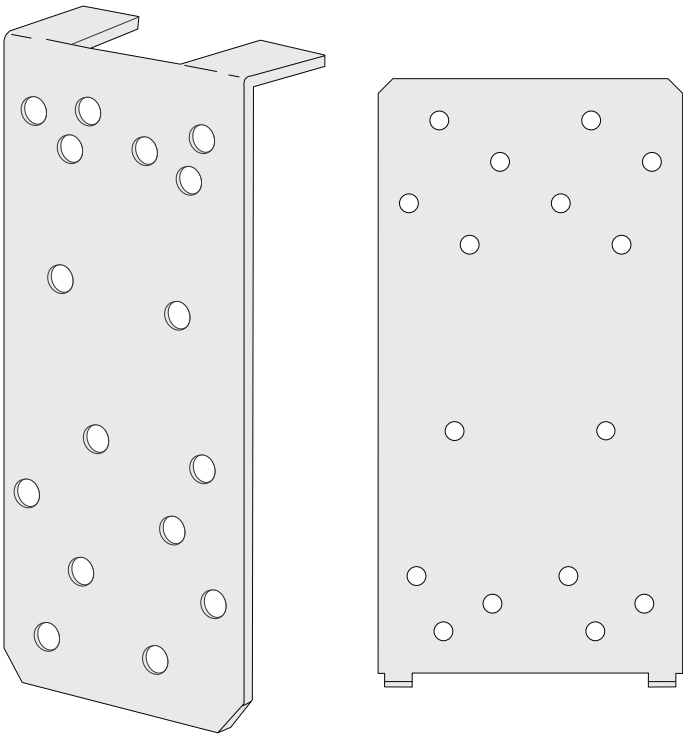
Used for wind resistance or seismic conditions. The Stud Plate Ties fasten the bottom plate or the top plate (double plate) to the studs.

MATERIAL

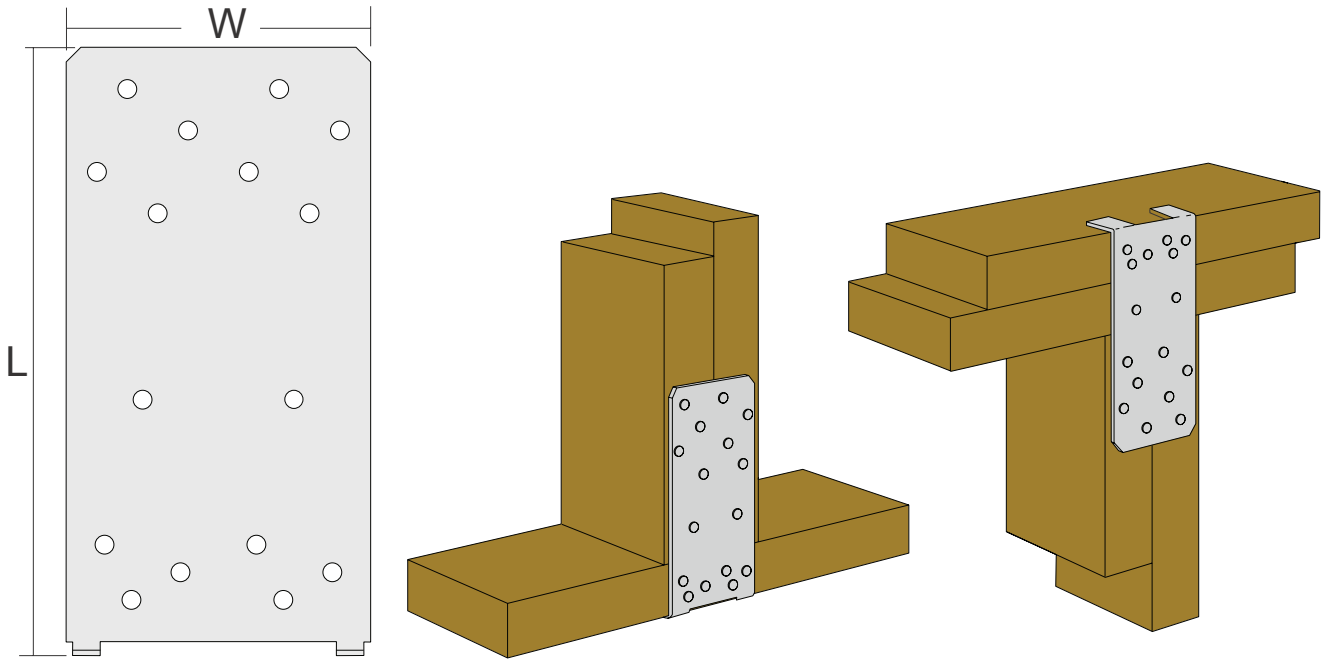
18 GA Galvanized Steel

CODES

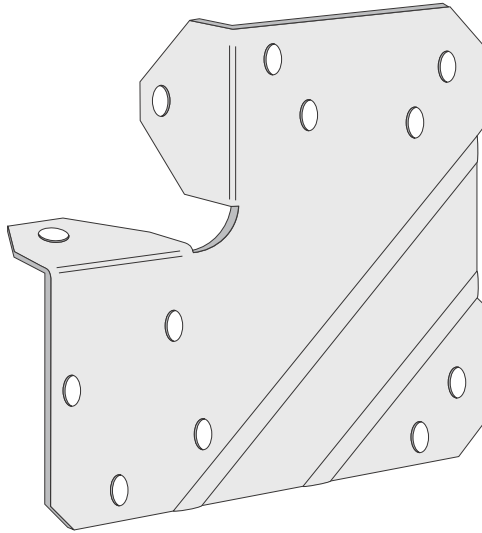
ICC ESR-1347



ITEM ID	CONNECTION ACHIEVED	STEEL GAGE NO.	HEIGHT	WIDTH	NAIL SCHEDULE ¹		ALLOWABLE UPLIFT LOADS ⁴ (lbf)	
					To Plate	To Stud	DFL ²	SYP ³
TRSPT6-2	Stud to double plate for high wind	18	5-1/2"	2-3/4"	6-10d	8-10d	652	837
	Stud to single plate				6-10d	8-10d	394	394



TLCE4



DESIGN FEATURES

Designed to connect wood post and beam members. Can be installed on a left or right. For use with 4x or 6x post.

MATERIAL

20ga. galvanized steel

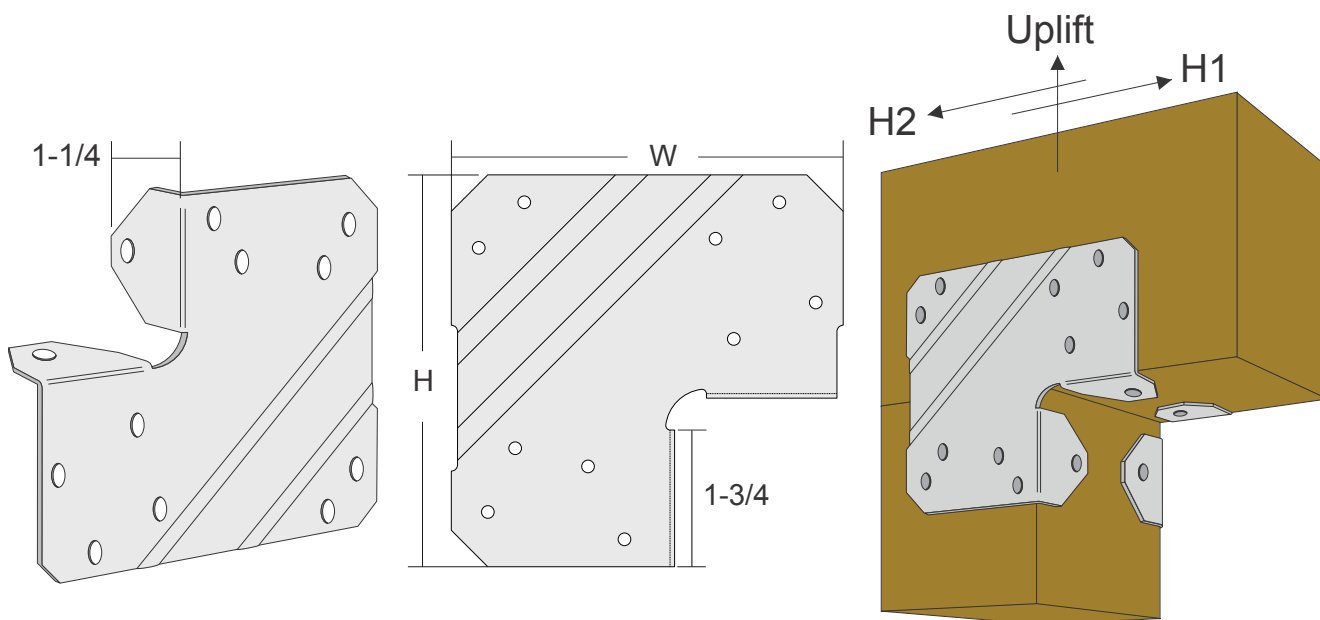
CODES

ICC ESR-1347

NOTES

1. Nails are 16d by 3-1/2 inch common nails.
2. Allowable loads are for hangers nailed into wood or structural composite lumber having an effective specific gravity of 0.50 (such as Douglas Fir Larch) or greater.
3. Allowable gravity (bearing) loads have been adjusted by load duration factors, CD, of 1.6 (160%) corresponding to the typical durations of occupancy live loads, snow loads and construction loads, respectively.

ITEM ID	DIMENSIONS			STEEL GAGE NO.	NAIL SCHEDULE ^{1,4}		ALLOWABLE LOADS - DFL ² (lbf)		
	H	W	B		BEAM ⁴	POST ⁴	UPLIFT	LATERAL H1 ³	LATERAL H2 ³
TLCE4	5-3/8"	5-3/8"	1-1/4"	20	14	10	1835	1894	1180



TFAL, AP45

DESIGN FEATURES

Provides a plate to transfer the shear force to the blocking connection or rim joist from the top plate. The improved nail pattern helps prevent splitting of the wood members for both single/double top plate situations.

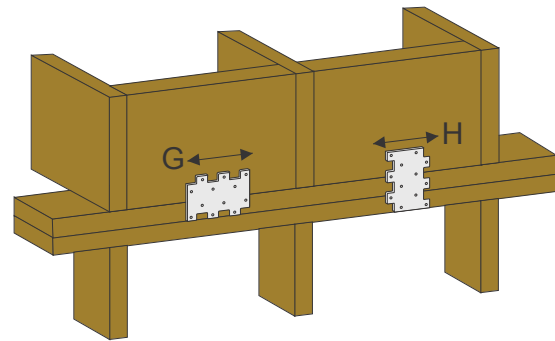
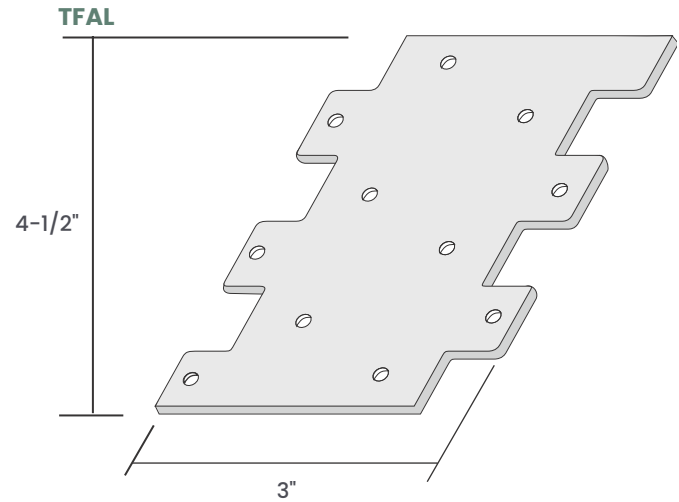
These anchors provide the builder with the industry's most versatile framing anchor including: Bending slots - make accurate bends for all 2 and 3-way anchoring ties on the job.

MATERIAL

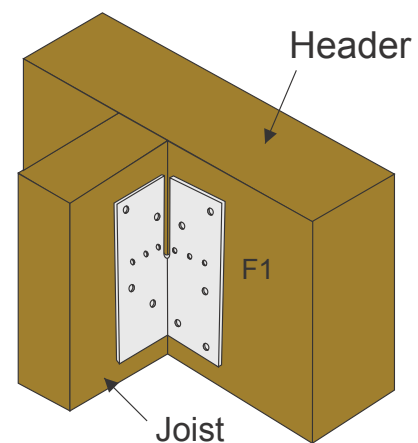
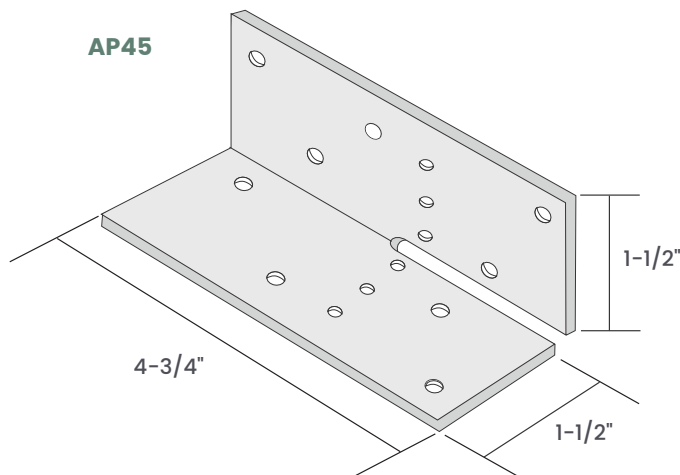
18 ga. galvanized steel Available in G-185 Triple Zinc or Hot-Dip Galvanized. Call for availability.

CODES

ICC ESR-2556

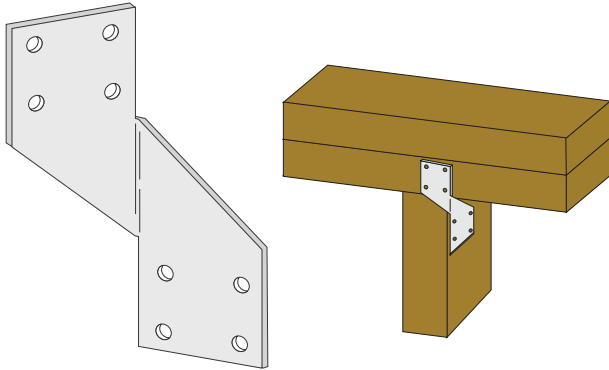


ITEM ID	FASTENERS		DIRECTION OF LOAD ^{1,2}	ALLOWABLE LOAD ^{3,4,5}			
	Joist, Rim Joist or Blocking	Header or Plate(s)		C=1.0	C=1.15	C=1.25	C=1.6
TFAL	6-8d x 1-1/2	6-8d x 1-1/2	G or H	595	670	730	910
AP45	6-8d x 1-1/2	6-8d x 1-1/2	F1	590	650	650	650

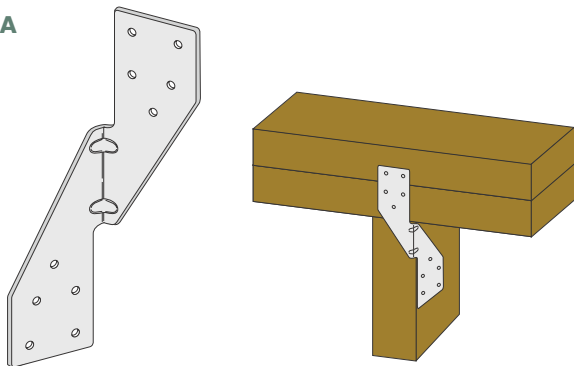


RT, HT

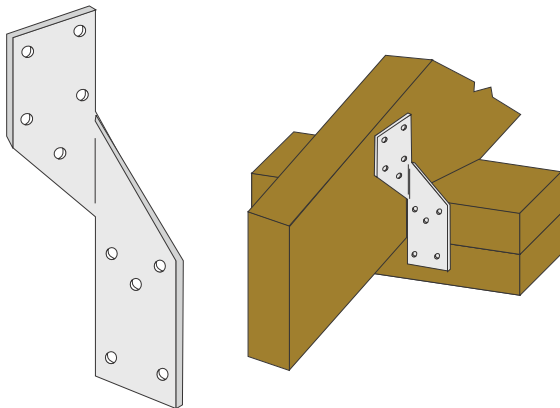
RT1



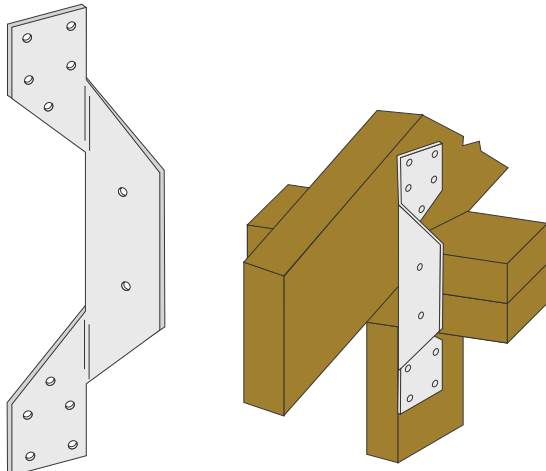
RT2A



RT2LR



RT9



DESIGN FEATURES

Eliminate expensive, time consuming rafter notching ... provide wind and seismic ties for trusses and rafters ... fulfill specifications for resistance to lateral and uplift conditions ... also for general purpose tie use, strongback or attachments where one member crosses another.

RT1 - rafter to single plate

RT2A - universal rafter to double, plate/top plates to stud/stud to sill plate. Ergonomic design improves/ speeds up and ease of installation.

RT2LR - rafter to double, plate/top plates to stud/stud to sill plate

RT9 - rafter to stud (alignment required)

RT15 and RT16 - rafter to double plate for high wind

HT8 and HT12 - the largest of all hurricane ties, made from 18 ga. galvanized steel for high load capacity, and used to tie joists, studs, trusses, plates and all other wood members.

MATERIAL

12 ga. galvanized steel with a 12ga. galvanized stand-off plate Available in G-185 Triple Zinc or Hot-Dip Galvanized. Call for availability.

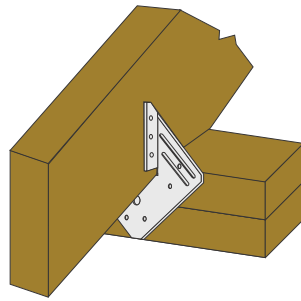
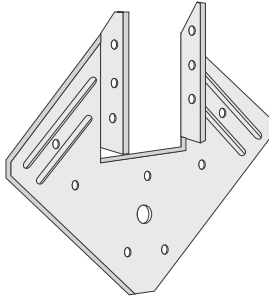
CODES

FL Approval #8283, ICC ESR-1347

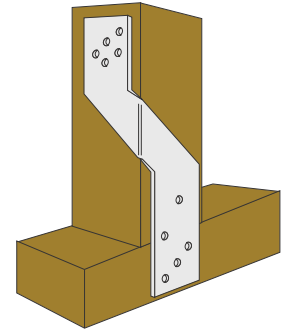
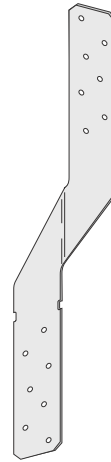
NOTES

1. Nails are 8d or 10d common wire nails or 1-1/2 inch joist hanger nails.
2. Allowable loads are for hangers nailed into wood or structural composite lumber having an effective specific gravity of 0.50 (such as Douglas-fir-Larch) or greater.
3. Allowable loads are for hangers nailed into wood or structural composite lumber having an effective specific gravity of 0.55 (such as Southern Pine) or greater.
4. Allowable uplift loads have been adjusted by a load duration factor CD, of 1.6 (160%), corresponding to the typical duration of wind and earthquake loads. No further increases in allowable loads are permitted.

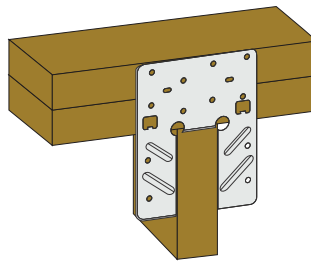
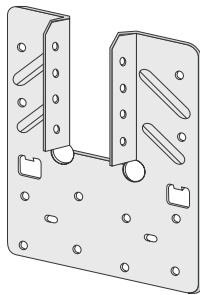
RT15



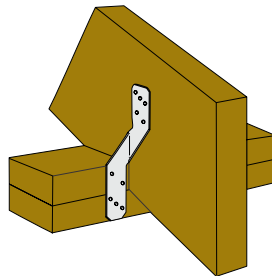
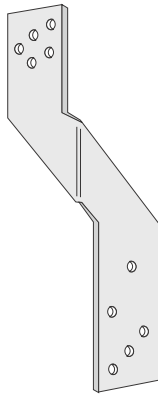
HT12



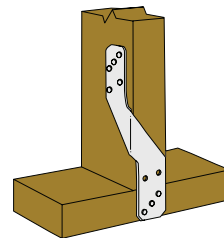
RT16



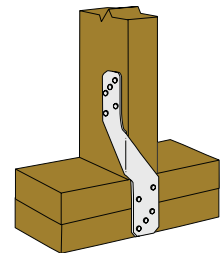
HT8



HT8 - Rafter to double plate



HT8 - Stud to sill plate



HT8 - Stud to double plate

ITEM ID	CONNECTION ACHIEVED	STEEL GAGE	H	NAIL SCHEDULE ¹			Allowable Uplift Loads ⁴ (lbf)	
				TO RAFTERS	TO PLATES	TO STUDS	DFL ²	SYP ³
RT1	Stud to double plate	18	4-3/8"	-	4-10d	4-10d	-	291
RT2L RT2R	Rafter to double plate	18	5-3/8"	5-8d	5-8d	-	221	221
RT2A	Rafter to double plate	18	6"	5-10d	5-10d	-	413	413
	Stud to double plate			-	5-10d	5-10d	650	650
RT9	Rafter to stud (alignment required)	18	9-7/16"	5-8d	2-8d	5-8d	-	299
RT15	Stud to double plate for high wind	18	5-1/4"	-	4-10d	4-10d	419	419
RT16	Stud to double plate for high wind	18	6-1/4"	-	8-10d	8-10d	1369	1369
HT8	Stud to double plate for high wind	18	8"	-	5-10d	5-10d	717	717
	Stud to single plate	18	8"	-	3-10d	3-10d	342	342
HT12	Stud to double plate	18	12"	-	7-10d	7-10d	873	873

ASTHD

DESIGN FEATURES

The ASTHD holdowns embed into concrete foundations and nail to shear panel perimeter members to resist uplift load caused by earthquake and hurricane forces on a structure. They are an economical, high load connector preferred by contractors. The nail pattern facilitates nailing to the edges of double 2x members.

MATERIAL

12 ga. galvanized steel Available in G-185 Triple Zinc or Hot-Dip Galvanized. Call for availability.

LOADS

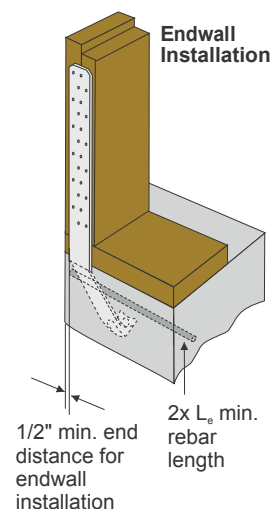
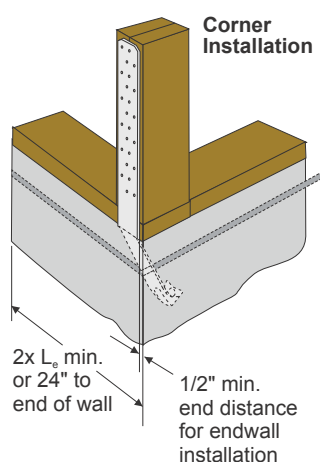
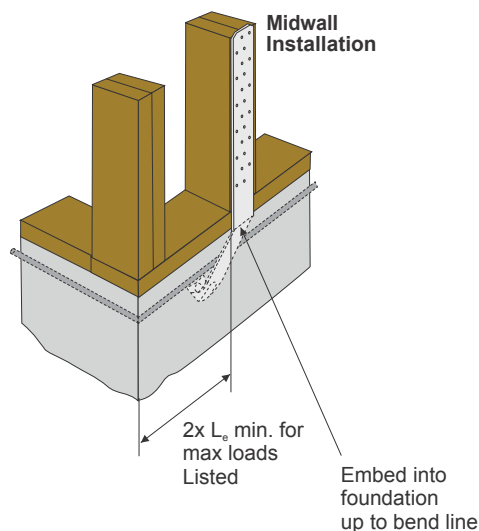
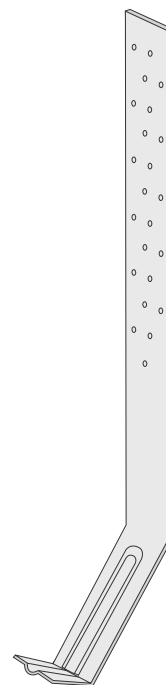
Larger seat-bearing and designed direct nailing provide proper installation of all nails into joist hangers.

CODES

ICC ESR-3635

NOTES

1. See drawing for L and S dimension, and installation requirements.
2. 10d common (3-inch long x 0.148-inch diameter) may be used with no load reduction.
3. Deflection at highest allowable loads (ASD) are as follows: ASTHD10 = 0.067-inch, ASTHD14 = 0.084-inch.
4. Multiply seismic and wind ASD loads by 1.4 and 1.6, respectively, to obtain LRFD capacities. LRFD for ASTHD10 and ASTHD14 must not exceed 7700 pounds and 8250 pounds, respectively, with time effect factor of 1.0.
5. In accordance with IBC Section 1613.1, detached one- and two- family dwellings in Seismic Design Category ((SDC) C (and under) may use design loads for SDCs A, B.
6. Minimum center-to-center spacing is 3 times the required embedment ($S_{min} = 3 \times L_E$) for the hold-downs acting in tension simultaneously. Mid-wall location is based on $1.5 \times L_E$ end distance.



SDC A & B - Allowable Tension Leads For Doug Fir & Southern Pine (160) ^{4,5}														
Min. Stem Wall Width (in)	ITEM ID		Dimensions					Req'd Nails ^{2,7}	Allowable Tension Loads					
	Standard	Rim Joist	Standard		Rim Joist		le		Non-Cracked			Cracked		
			Length (L)	S	Length (L)	S			Midwall	Corner	Endwall	Midwall	Corner	Endwall
6	ASTHD10	ASTHD10RJ	24-3/8"	4-1/8"	39-3/8"	19-1/8"	10"	24-16d Sinkers	4640	3940	2300	4640	3940	2300
	ASTHD14	ASTHD14RJ	27-1/2"	5-1/4"	41-3/8"	18-1/8"	14"	32-16d Sinkers	7010	5780	3940	7010	5780	3940
8	ASTHD10	ASTHD10RJ	24-3/8"	4-1/8"	39-3/8"	19-1/8"	10"	28-16d Sinkers	5850	3885	2995	5850	3885	2995
	ASTHD14	ASTHD14RJ	27-1/2"	5-1/4"	41-3/8"	18-1/8"	14"	32-16d Sinkers	7010	5780	4100	7010	5780	4100
SDC C through F - Allowable Tension Leads For Doug Fir & Southern Pine (160) ^{4,5}														
Min. Stem Wall Width (in)	ITEM ID		Dimensions					Req'd Nails ^{2,7}	Allowable Tension Loads					
	Standard	Rim Joist	Standard		Rim Joist		le		Non-Cracked			Cracked		
			Length (L)	S	Length (L)	S			Midwall	Corner	Endwall	Midwall	Corner	Endwall
6	ASTHD10	ASTHD10RJ	24-3/8"	4-1/8"	39-3/8"	19-1/8"	10"	18-16d Sinkers	3480	2815	1640	3480	2815	1640
	ASTHD14	ASTHD14RJ	27-1/2"	5-1/4"	41-3/8"	18-1/8"	14"	28-16d Sinkers	5010	4130	2815	5010	4130	2815
8	ASTHD10	ASTHD10RJ	24-3/8"	4-1/8"	39-3/8"	19-1/8"	10"	20-16d Sinkers	4180	2775	2140	4180	2775	2140
	ASTHD14	ASTHD14RJ	27-1/2"	5-1/4"	41-3/8"	18-1/8"	14"	28-16d Sinkers	5010	4130	2925	5010	4130	2925
WIND - Allowable Tension Leads For Doug Fir & Southern Pine (160) ^{4,5}														
Min. Stem Wall Width	ITEM ID		Dimensions					Req'd Nails ^{2,7}	Allowable Tension Loads					
	Standard	Rim Joist	Standard		Rim Joist		le		Non-Cracked			Cracked		
			Length (L)	S	Length (L)	S			Midwall	Corner	Endwall	Midwall	Corner	Endwall
6"	ASTHD10	ASTHD10RJ	24-3/8"	4-1/8"	39-3/8"	19-1/8"	10"	24-16d Sinkers	3970	3561	2110	3970	3560	2110
	ASTHD14	ASTHD14RJ	27-1/2"	5-1/4"	41-3/8"	18-1/8"	14"	32-16d Sinkers	7010	5590	3510	7010	5590	3510
8"	ASTHD10	ASTHD10RJ	24-3/8"	4-1/8"	39-3/8"	19-1/8"	10"	28-16d Sinkers	5850	3665	2925	5850	3665	2925
	ASTHD14	ASTHD14RJ	27-1/2"	5-1/4"	41-3/8"	18-1/8"	14"	32-16d Sinkers	7010	5590	3870	7010	5590	3870

AHTT

DESIGN FEATURES

The AHTT series tension ties provide a full range of load capacity for retrofitting or new construction. Tension ties connect shear panels to the foundation and can be installed after the pour.

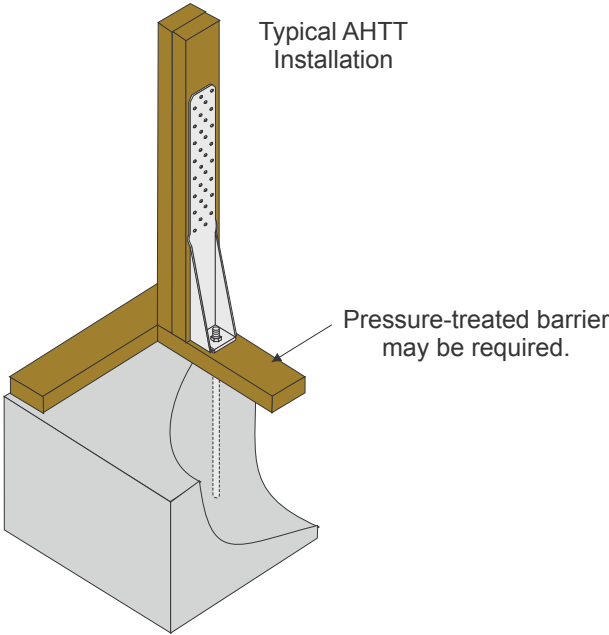
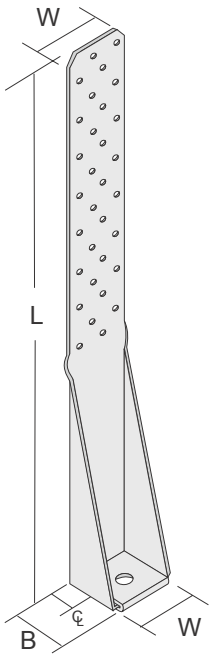
MATERIAL

11 ga. galvanized steel Available in G-185 Triple Zinc or Hot-Dip Galvanized. Call for availability.

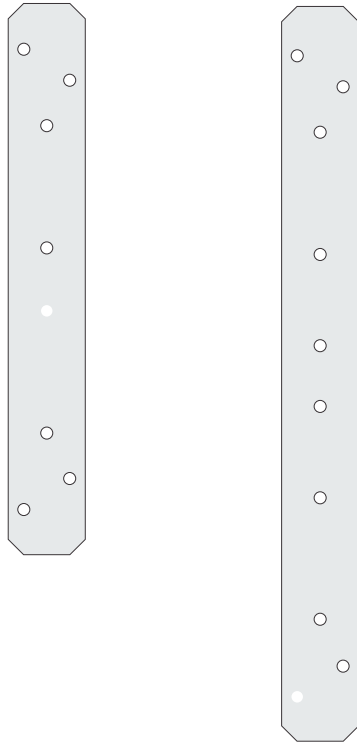
NOTES

- 1. AHTT tension ties are attached to approved anchor bolts of the diameter specified with a capacity equal to or greater than the allowable holddown capacity. Concrete compressive strength must be a minimum of 2,000 psi at 28 days. Side cover and embedment depth requirements in accordance with the approved anchor bolt requirements.
- 2. Nail lengths are minimum penetration into the structural wood member (minus steel thickness). Longer nails may be used at the same load values.
- 3. Uplift loads have been increased 33% and 60% (C = 1.33 or 1.60, for fastener design in wood) D for short-term wind and earthquake loading for recognition under UBC and IBC/IRC, respectively. No further increase is permitted.
- 4. Allowable loads are based on the use of either nails or bolts, and are not otherwise cumulative.

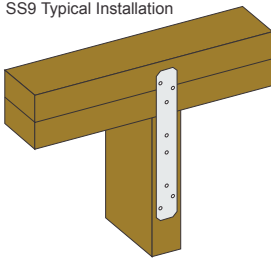
ITEM ID	REF.	MATERIAL (GA)	DIMENSIONS				FASTENERS		ALLOWABLE TENSION LOADS	
			W	L	B	C	ANCHOR BOLTS	NAILS	133%	160%
AHTT16	HTT16	11	2-1/2"	16"	2"	1-3/16"	5/8	18-16 X 2-1/2	3495	4195



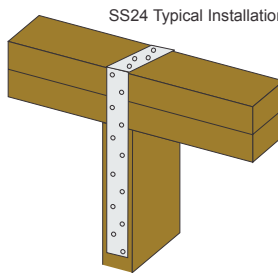
SS



SS9 Typical Installation



SS24 Typical Installation

**DESIGN FEATURES**

Provide the builder with a complete range of tie straps to meet a variety of application and design load conditions and specifications.

APPLICATIONS

Use as all-purpose ties to connect studs to sill, rafters to plates and beams, wall intersections, ridges, upper floor to lower floor wall studs, window reinforcement. All nail holes must be filled to achieve published uplift values. Special lengths available based upon your specifications (not specifically code listed due to many length combinations). Considered essential by code officials and insurance companies in maintaining a continuous load path, therefore mitigating destruction from high winds and seismic activity. SS18/24 have notched corners (more user friendly) SS9/12 have 4 holes within 1-1/2" of one end to enable 4 nails to enter a bottom plate per TDI request.

MATERIAL

20 ga. & 18 ga. galvanized steel

CODES

FL Approval #8283, ICC ESR-1347

NOTES

1. Nails are 10d by 3 inch joist hanger nails complying with section 3.8.3. Allowable tension loads are based on conditions with an equal number of nails on either side of the connection. In cases where this condition is not met, allowable tension loads must be based on the side of the connection having the fewest nails. 10d x 1-1/2" nails can be substituted for 10d x 3" nails. Section 3.8.3 of the report allows the use of both 1-1/2" and 3" nails because the shear capacity of both the nails is the same.

2. Allowable tension loads include load duration factor of 1.6 per section 2.3.2 of NDS 2001. No further increases in allowable loads are permitted.

3. Allowable tension loads are based on Southern Pine (SYP) with a specific gravity of 0.55, Douglas Fir-Larch (DFL) with specific gravity 0.50, and Spruce-Pine-Fir (SPF) or Hem-Fir (HF) with specific gravity of 0.42.

4. Tabulated loads are for ASTM A653 Steel with $F_y=33$ ksi and $F_u=45$ ksi.

ITEM ID	STEEL YIELD AND TENSILE STRENGTHS (ksi)	STEEL GAUGE	DIMENSIONS (INCHES)	10d NAILS ¹ (Quantity Each End)
SS9	$F_y = 33$ ksi, $F_u = 45$ ksi	20	1-1/4 x 10"	3, 4
SS12	$F_y = 33$ ksi, $F_u = 45$ ksi	20	1-1/4 x 12"	3, 4, 5
SS18	$F_y = 33$ ksi, $F_u = 45$ ksi	20	1-1/4 x 18"	3, 4, 5, 6, 7, 8
SS24	$F_y = 33$ ksi, $F_u = 45$ ksi	20	1-1/4 x 24"	5, 6, 7, 8, 9, 10, 11
SS30	$F_y = 33$ ksi, $F_u = 45$ ksi	20	1-1/4 x 30"	7, 8, 9, 10, 11
SS36	$F_y = 33$ ksi, $F_u = 45$ ksi	20	1-1/4 x 36"	8, 9, 10, 11, 12, 14

DESIGN FEATURES

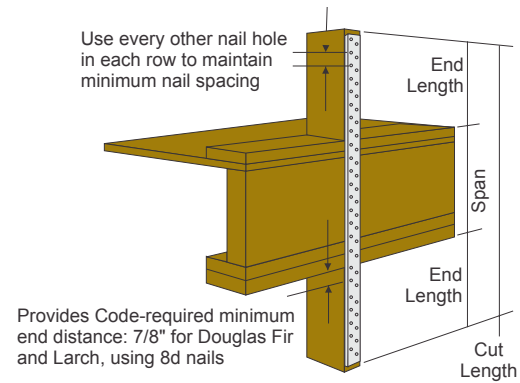
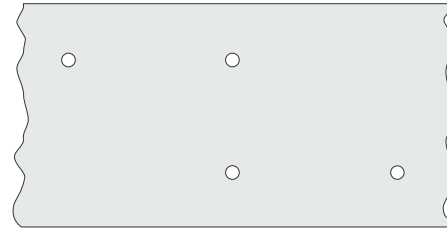
Coiled strapping consists of continuous coils which are designed to be cut to length on the job as required. No need to order 10", 18" or 24" straps, etc. Staggered hole pattern reduces wood splitting. Used to secure or wrap existing buildings for seismic upgrade, to tie water heaters to floors and walls and for utility purposes such as hanging pipes from rafters, studs or joists, boxed for easier usage and storage.

MATERIAL

20 ga., 18 ga. and 16 ga. galvanized steel

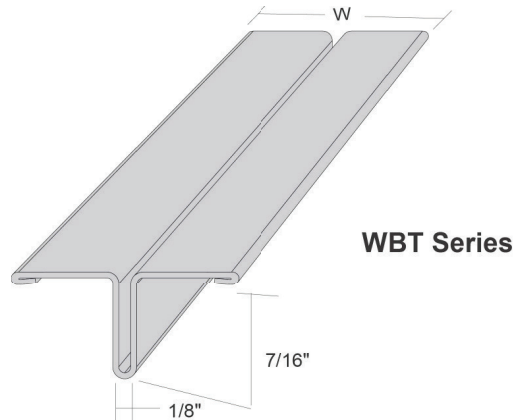
NOTES

1. Base metal thickness are 22 gage (0.030 in), 20 gage (0.048 in.), and 16 gage (0.60 in.).
2. Nails are 8d and 10d by 1-1/2 inch joist hanger nails. Allowable tension loads are based on conditions with an equal number of nails on either side of the connection. In cases where this condition is not met, allowable tension loads must be based on the side of the connection having the fewest nails.
3. Allowable tension loads include load duration factor of 1.6. No further increases in allowable loads are permitted.
4. Allowable tension loads are based on Southern Pine (SYP) with a specific gravity on 0.55, Douglas Fir-Larch (DFL) with specific gravity 0.50, and Spruce-Pine-Fir (SPF) or Hem-Fir (HF) with specific gravity of 0.42.
5. Tabulated loads are for ASTM A653 Steel with $F_y = 33$ ksi and $F_U = 45$ ksi.



ITEM ID	STEEL ¹ GAGE NO.	TOTAL LENGTH	WIDTH	END LENGTH	CUT TO LENGTH	TOTAL FASTENERS	ALLOWABLE TENSION LOADS ^{3,4,5} (LBF)		
							SYP	DFL	SPF/HF
CS150	16	150'	1-1/4"	14"	CLEAR SPAN + 28"	13-8d x 1-1/2	1336	1336	1336
				11"	CLEAR SPAN + 22"	12-8d x 1-1/2	1336	1336	1336
CS250	20	250'	1-1/4"	7-1/2"	CLEAR SPAN + 15"	7-8d x 1-1/2	801	801	801
				7"	CLEAR SPAN + 14"	7-8d x 1-1/2	801	801	801

WB, WBT



DESIGN FEATURES

WB Series: We recommend metal bracing only be used to serve as temporary bracing to prevent racking before structural sheathing is applied. Metal bracing should never be used as a substitute for shear wall sheathing, as it offers only about one-tenth the resistance to racking as 3/8" plywood.

WBT Series: T wall brace extra-rigid lengths won't bend as easily as flat brace, making installation easier. No X-pattern installation needed.

MATERIAL

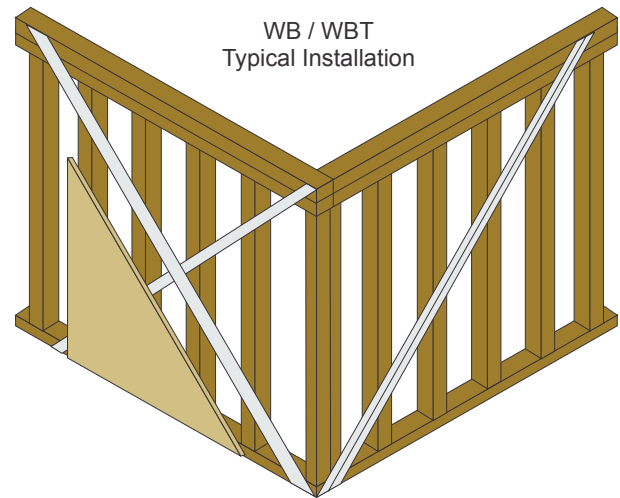
WB 16 ga. galvanized steel

WBT 22 ga. galvanized steel

CODES

FL Approval #8283, ICC ESR-1347

ITEM ID	Length	Steel Gauge No.	Width	Angle / Wall Height	Nail Schedule ¹	
					Plate	Stud
WB10	9'3"	16	1-1/4"	60° / 8 feet	3-10d	1-10d
WB12	11'5"	16	1-1/4"	45° / 8 feet	3-10d	1-10d
WB14	13'6"	16	1-1/4"	45° / 10 feet	3-10d	1-10d
WB16	15'6"	16	1-1/4"	45° / 12 feet	3-10d	1-10d
WBT10	9'6"	22	2"	60° / 8 feet	4-8d	1-8d
WBT12	11'4"	22	2"	45° / 8 feet	4-8d	1-8d



WB / WBT
Typical Installation

MAS, TMAB

DESIGN FEATURES

Provide for faster, more economical and secure method for anchoring wood framing to masonry or concrete.

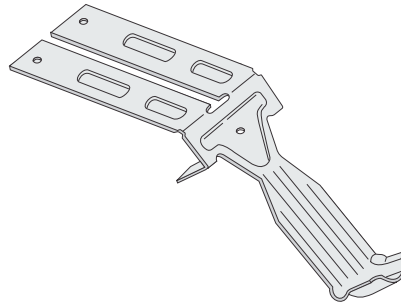
TMAB1 – For installation into concrete slab or poured stemwalls. Features a pre-bent base flange to assure proper anchoring into concrete. When a 2 x 8 mudsill is used for TMAB1 maximum spacing is 3 feet. Loads and installation for TMAB1 assumes nominal 2 x 4 or 2 x 6 mudsill, when used as a direct substitution for 1/2" anchor bolt 6' o.c.

MAS – For installation into concrete slabs. MAS features a split flange for nailing to both mudsill and stud for greater framing versatility. Install before pouring the concrete by nailing to the form or after the pour by inserting the MAS into the concrete. There is fast and simple nail attachment – only six code-spaced nails are needed to drive either to the mudsill or directly to the stud.

MATERIAL

MAS 16ga. galvanized steel, TMAB 18ga. galvanized steel. Available in G-185 Triple Zinc or Hot-Dip Galvanized. Call for availability.

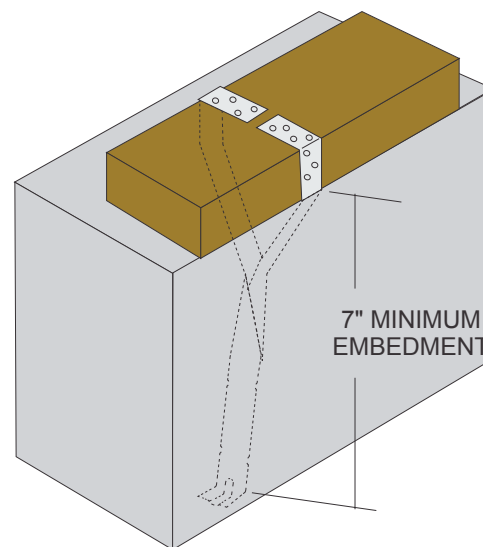
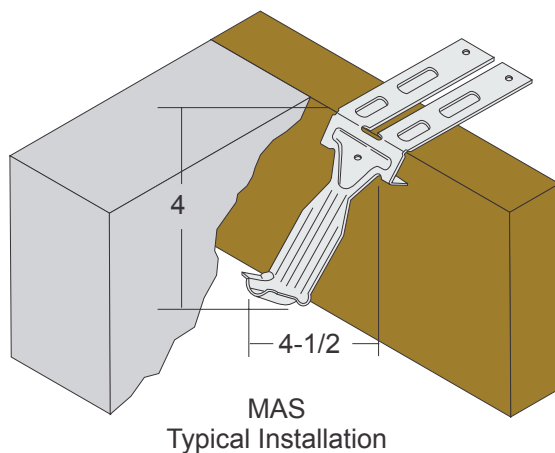
MAS



TMAB

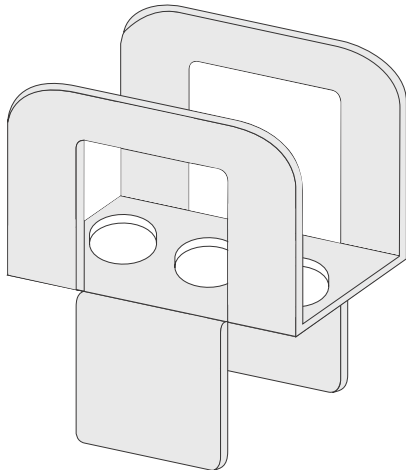


ITEM ID	REF	LENGTH	MUDSILL SIZE	NAIL SCHEDULE		ALLOWABLE UPLIFT (LBS)	
				SIDES	TOP	SYP	DFL
TMAB1	MAB15	12-1/2"	2 x 4", 6"	6	8	980	980
MAS	MAS		2 x 4", 6"	2	4	815	703
				4	2	815	815



TMAB1 Typical
Installation in Concrete

PCSL



DESIGN FEATURES

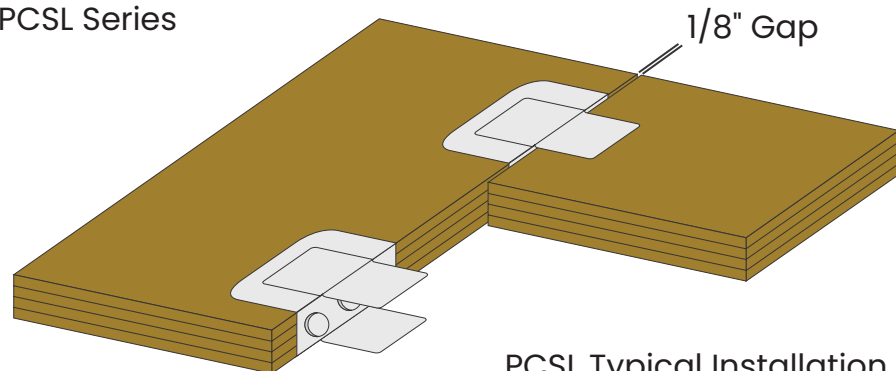
For quick, easy installation between plywood panels for roof sheathing or panelized construction .. provide structural support .. reduce normal plywood deflection between panels .. embossed dimples/built-in spacer type feature provide APA recommended 1/8" gap.

MATERIAL

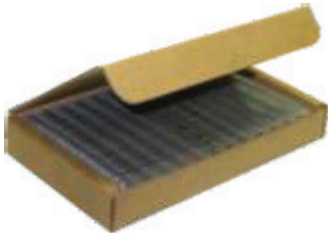
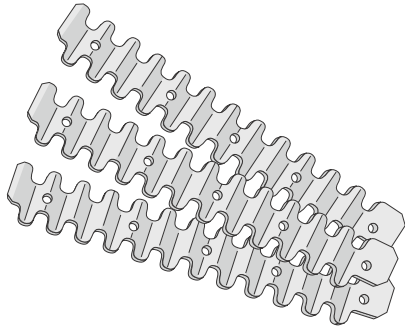
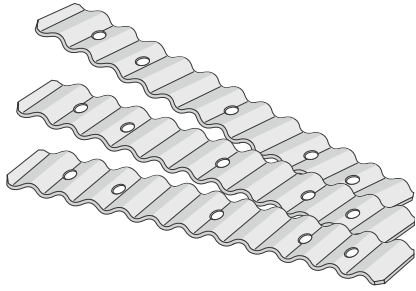
20 ga. galvanized steel

ITEM ID	REF.	MATERIAL	PANEL THICKNESS	Sheathing		NUMBER OF PC OR PCS PER SPAN
				With Clip	Without Clip	
PCSL716	PSCL 7/16	GALV. STEEL	7/16	24	24	1
PCSL1532	PSCL 15/32	GALV. STEEL	15/32	32	28	1
PCSL12	PSCL 1/2	GALV. STEEL	1/2	32	28	1
PCSL58	PSCL 5/8	GALV. STEEL	5/8	40	32	1
PCSL1932	PSCL 19/32	GALV. STEEL	19/32	40	32	1
PCSL34	PSCL 3/4	GALV. STEEL	3/4	48	36	2
PCSL2332		GALV. STEEL	23/32	48	36	2

PCSL Series



PCSL Typical Installation

**DESIGN FEATURES**

Ties masonry to wall studs.

PACKAGING

Corrugated wall ties available in Stackpack® pioneered by Tamlyn (lined up tightly in box) or bulk (loose in box). Suppliers can sell stackpack by the sleeve or even by the piece count (250 or 500) and store 5 pallets on top of each other. Also available in retail pack of 100.

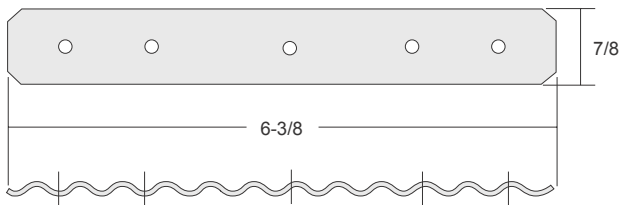
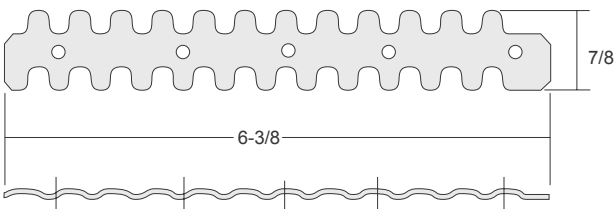
WARNING

Repeated bending of steel is unnecessary, will weaken the strength of the product, may create fracture at the bend line, and is considered an abuse of the product, voiding any performance warranty. Fractured steel will not perform as designed and should be discarded immediately. Only one bend of the product to the desired 90° form should be required.

MATERIAL

22 ga. and 28 ga. Galvanized Steel. Also available in hot dip galvanized after fabrication (in accordance with ASTM A153 B3) and stainless steel (type 3042B) for optimal corrosion resistance. Stainless steel is absolutely the best material for longevity. Field studies show regular galvanized wall ties can deteriorate and fail within 10 years. Be certain compatible fasteners are used (e.g., stainless steel nails with stainless steel wall ties). Painted steel over galvanized is acceptable and actually superior.

ITEM ID	TYPE	GAUGE	MATERIAL	LOAD @ FAILURE	PACKAGING
BT22SP	STRAIGHT	22	GALVANIZED	1370	STACKPACK*
BT22ZZSP	ZIGZAG	22	GALVANIZED	1370	STACKPACK*
BT28500SP	STRAIGHT	28	GALVANIZED	604	STACKPACK*
BT28ZZ5SP	ZIGZAG	28	GALVANIZED	604	STACKPACK*

**BT (Straight) Series****BTZZ (Zig-Zag) Series**

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