

CBS/CBSQ

Column Bases



This product is preferable to similar connectors because of (a) easier installation, (b) higher loads, (c) lower installed cost, or a combination of these features.

The CBS column base installs with bolts and provides tested capacity. The CBSQ uses Strong-Drive® SDS Heavy-Duty Connector screws (included), which allow for fast installation, reduced reveal and high capacity, and provides a greater net section area of the column compared to bolts. Both CBS and CBSQ provide 1" standoff to meet code requirements for structural posts installed in basements or exposed to weather or water splash.

Material: See table

Finish: Galvanized; available in HDG

Installation:

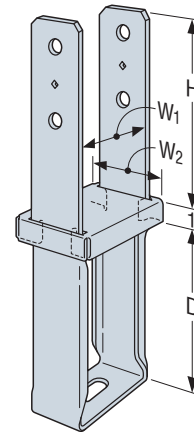
- Use all specified fasteners; see General Notes.
- For CBS, install with two bolts.
- For CBSQ, install ¼" x 2" Strong-Drive SDS Heavy-Duty Connector screws, which are provided with the column base. (Lag screws will not achieve the same load.)
- Install CBS/CBSQ with bottom of standoff flush to top of concrete.
- For full loads, a minimum of 3" side cover shall be provided.
- Post bases do not provide adequate resistance to prevent members from rotating about the base and therefore are not recommended for non-top-supported installations (such as fences or unbraced carports).

Ordering:

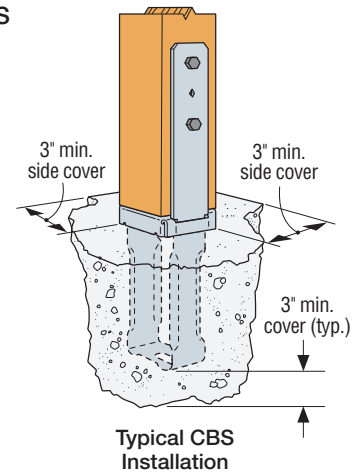
- To order the CBSQ with screws, specify CBSQ-SDS2
- To order the CBSQ without screws, specify CBSQ

Codes: See p. 11 for Code Reference Key Chart

These products are available with additional corrosion protection. For more information, see p. 14.



CBS



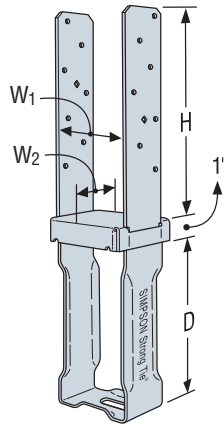
Typical CBS Installation

Model No.	Nominal Column Size	Material		Dimensions (in.)				Machine Bolts		Allowable Loads (DF/SP)			Code Ref.
		Base (ga.)	Strap (ga. x Width)	W ₁	W ₂	D	H	Qty.	Dia. (in.)	Uncracked	Cracked	Download	
										Uplift	Uplift		
Wind and Seismic Design Category A&B													
CBS44	4x4	12	10 ga. x 2¼	3⅝	3½	7⅝	8⅝	2	⅝	5,390	4,650	10,975	—
CBS46	4x6	12	10 ga. x 3	3⅝	5⅝	7⅝	8⅝	2	⅝	5,390	4,650	14,420	
CBS66	6x6	12	10 ga. x 3	5½	5½	6⅞	8¾	2	⅝	4,375	3,060	14,420	
Seismic Design Category C–F													
CBS44	4x4	12	10 ga. x 2¼	3⅝	3½	7⅝	8⅝	2	⅝	5,390	4,070	10,975	—
CBS46	4x6	12	10 ga. x 3	3⅝	5⅝	7⅝	8⅝	2	⅝	5,390	4,070	14,420	
CBS66	6x6	12	10 ga. x 3	5½	5½	6⅞	8¾	2	⅝	3,830	2,680	14,420	

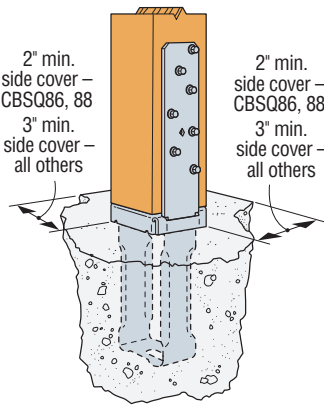
1. Loads may not be increased for duration of load.
2. For higher downloads, pack grout solid under 1" standoff plate before installation. Base download on column or concrete, according to the code.
3. Concrete shall have a minimum compressive strength of $f'_c = 2,500$ psi.
4. Multiply Seismic and Wind ASD uplift and lateral load values by 1.43 or 1.67, respectively, to obtain LRFD capacities.
5. In accordance with IBC, Section 1613.1, detached one- and two-family dwellings in Seismic Design Category (SDC) C may use "Wind and SDC A&B" allowable loads.
6. Downloads shall be reduced where limited by capacity of the post.
7. Designer is responsible for concrete design.
8. Structural composite lumber columns have sides that show either the wide face or the edges of the lumber strands/veneers known as the narrow face. Values in the tables reflect installation into the wide face. See technical bulletin T-C-SCLCLM at strongtie.com for load reductions resulting from narrow-face installations.

CBSQ

Column Bases (cont.)



CBSQ-SDS2



Typical CBSQ-SDS2 Installation

These products are available with additional corrosion protection. For more information, see p. 14.

For stainless-steel fasteners, see p. 21.

	Model No.	Nominal Column Size	Material		Dimensions (in.)				Fasteners (in.)	Allowable Loads DF/SP			Code Ref.
			Base (ga.)	Strap (ga. x Width)	W ₁	W ₂	D	H		Uncracked	Cracked	Download	
										Uplift	Uplift		
Wind and Seismic Design Category A&B													
SS	CBSQ44-SDS2	4x4	12	10 ga. x 2¼	3⅞	3½	7⅛	8¾	(14) ¼ x 2 SDS	5,390	4,650	10,975	IBC, FL, LA
SS	CBSQ46-SDS2	4x6	12	10 ga. x 3	3⅞	5⅝	7⅞	8⅞	(14) ¼ x 2 SDS	5,390	4,650	14,420	
SS	CBSQ66-SDS2	6x6	12	10 ga. x 3	5½	5½	6⅞	8¾	(14) ¼ x 2 SDS	4,375	3,060	14,420	
	CBSQ86-SDS2	6x8	12	8 ga. x 3	7½	5¾	6⅞	8⅞	(12) ¼ x 2 SDS	3,815	2,670	20,915	
	CBSQ88-SDS2	8x8	12	8 ga. x 3	7½	7¾	6⅞	8⅞	(12) ¼ x 2 SDS	3,815	2,670	22,225	
Seismic Design Category C–F													
SS	CBSQ44-SDS2	4x4	12	10 ga. x 2¼	3⅞	3½	7⅛	8¾	(14) ¼ x 2 SDS	5,390	4,070	10,975	IBC, FL, LA
SS	CBSQ46-SDS2	4x6	12	10 ga. x 3	3⅞	5⅝	7⅞	8⅞	(14) ¼ x 2 SDS	5,390	4,070	14,420	
SS	CBSQ66-SDS2	6x6	12	10 ga. x 3	5½	5½	6⅞	8¾	(14) ¼ x 2 SDS	3,830	2,680	14,420	
	CBSQ86-SDS2	6x8	12	8 ga. x 3	7½	5¾	6⅞	8⅞	(12) ¼ x 2 SDS	3,340	2,335	20,915	
	CBSQ88-SDS2	8x8	12	8 ga. x 3	7½	7¾	6⅞	8⅞	(12) ¼ x 2 SDS	3,340	2,335	22,225	

1. Loads may not be increased for duration of load.
2. For higher downloads, pack grout solid under 1" standoff plate before installation. Base download on column or concrete, according to the code.
3. Concrete shall have a minimum compressive strength of $f'_c = 2,500$ psi.
4. Multiply Seismic and Wind ASD uplift and lateral load values by 1.43 or 1.67, respectively, to obtain LRFD capacities.
5. In accordance with IBC, Section 1613.1, detached one- and two-family dwellings in Seismic Design Category (SDC) C may use "Wind and SDC A&B" allowable loads.
6. Downloads shall be reduced where limited by capacity of the post.
7. Designer is responsible for concrete design.
8. Structural composite lumber columns have sides that show either the wide face or the edges of the lumber strands/veneers known as the narrow face. Values in the tables reflect installation into the wide face. See technical bulletin T-C-SCLCLM at strongtie.com for load reductions resulting from narrow-face installations.
9. **Fasteners:** SDS screws are Simpson Strong-Tie® Strong-Drive® SDS Heavy-Duty Connector screws. See pp. 21–22 for fastener information.

H/TSP

Seismic and Hurricane Ties

Simpson Strong-Tie hurricane ties provide a positive connection between truss/rafter and the wall of the structure to resist wind and seismic forces.

Material: See table

Finish: Galvanized. H1.81Z, H7Z and H11Z — ZMAX® coating. Some models available in stainless steel or ZMAX; **H1A, H2.5A** also available (in Spring 2026) in black powder coat (H1APC, H2.5APC)

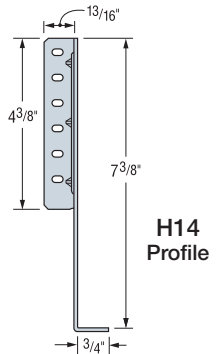
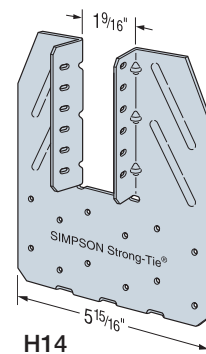
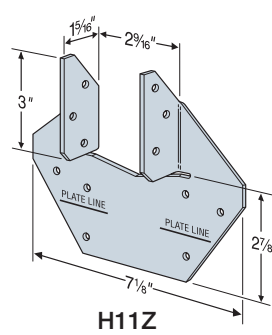
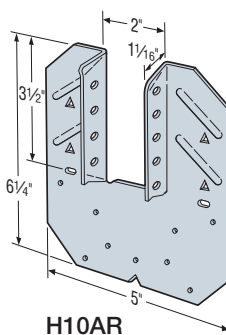
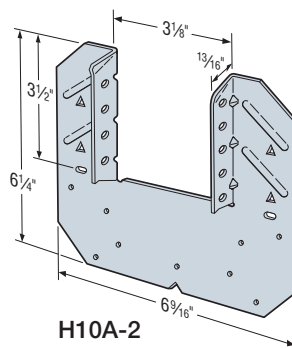
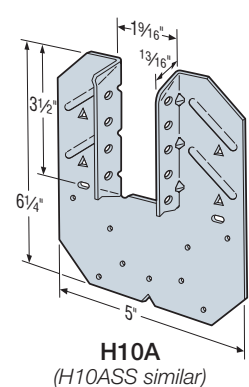
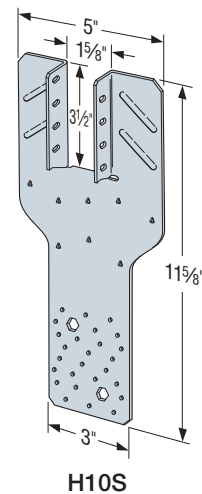
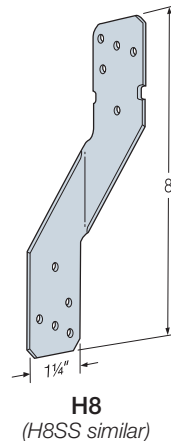
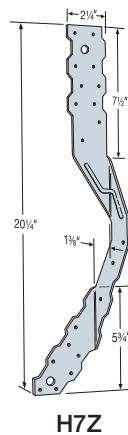
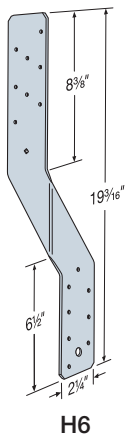
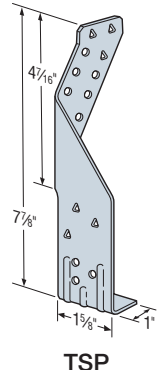
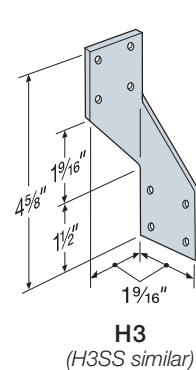
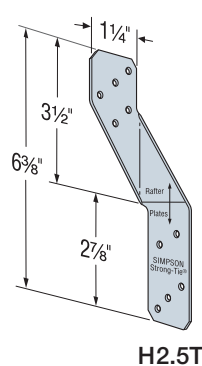
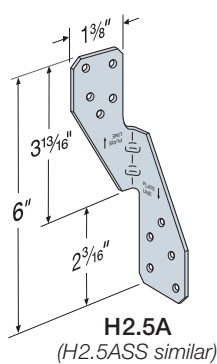
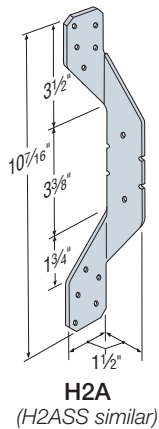
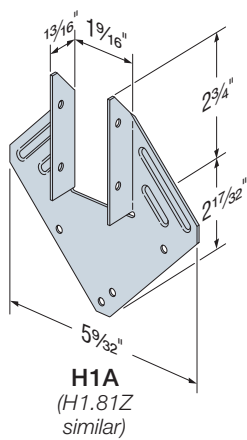
Installation:

- Use all specified fasteners; see General Notes.
- Hurricane ties can be installed with flanges facing inward or outward.
- H2.5T, H3 and H6 ties are shipped in equal quantities of right and left versions (right versions shown).

- Hurricane ties do not replace solid blocking.
- When installing ties on plated trusses (on the side opposite the truss plate) do not fasten through the truss plate from behind. This can force the truss plate off of the truss and compromise truss performance.
- H10A optional nailing to connect shear blocking, use 0.131" x 2½" nails. Slots allow maximum field bending up to a pitch of 6:12, use H10A sloped loads for field-bent installation.

Codes: See p. 12 or Code Reference Key Chart

Web Applications: Visit app.strongtie.com/rws to access our Roof-to-Wall Selector web application.



H/TSP

Seismic and Hurricane Ties (cont.)

These products are available with additional corrosion protection. For more information, see pp. 13–19.

SS For stainless-steel fasteners, see p. 25.

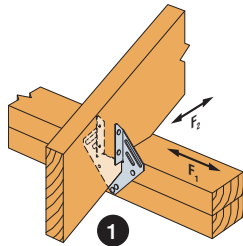
SD Many of these products are approved for installation with Strong-Drive® SD Connector screws. See pp. 380–382 for more information.

	Model No.	Ga.	Fasteners (in.)			DF/SP Allowable Loads			Uplift with 0.131" x 1 ½" Nails (160)	SPF/HF Allowable Loads			Uplift with 0.131" x 1 ½" Nails (160)	Code Ref.
			To Rafters/Truss	To Plates	To Studs	Uplift (160)	Lateral (160)			Uplift (160)	Lateral (160)			
							F ₁	F ₂			F ₁	F ₂		
🔵	H1A	18	(4) 0.131 x 1 ½	(4) 0.131 x 1 ½	—	545	420	265	—	470	360	205	—	IBC, FL, LA
🔵	H1.81Z	18	(6) 0.131 x 1 ½	(4) 0.131 x 2 ½	—	540	440	170	460	465	380	130	395	—
🔵	H2A	18	(5) 0.131 x 1 ½	(2) 0.131 x 1 ½	(5) 0.131 x 1 ½	525	130	55	—	495	130	55	—	IBC, FL, LA
SS	H2ASS	18	(5) 0.131 x 1 ½	(2) 0.131 x 1 ½	(5) 0.131 x 1 ½	400	130	55	400	345	130	55	345	—
🔵	H2.5A	18	(5) 0.131 x 2 ½	(5) 0.131 x 2 ½	—	700	110	110	625	615	110	110	540	IBC, FL, LA
SS	H2.5ASS	18	(5) 0.131 x 2 ½	(5) 0.131 x 2 ½	—	440	75	70	365	380	75	70	310	—
	H2.5T	18	(5) 0.131 x 2 ½	(5) 0.131 x 2 ½	—	590	135	145	480	565	135	145	475	IBC, FL, LA
🔵	H3	18	(4) 0.131 x 2 ½	(4) 0.131 x 2 ½	—	400	210	170	400	365	180	145	290	
SS	H3SS	18	(4) 0.131 x 2 ½	(4) 0.131 x 2 ½	—	280	145	120	275	225	100	85	210	—
🔵	H6 (to Plates)	16	—	(8) 0.131 x 2 ½	(8) 0.131 x 2 ½	930	—	—	—	800	—	—	—	IBC, FL, LA
🔵	H6 (to Rim)	16	(8) 0.131 x 2 ½	—	(8) 0.131 x 2 ½	1,230	—	—	—	1,065	—	—	—	
🔵	H7Z	16	(4) 0.131 x 2 ½	(2) 0.131 x 1 ½	(8) 0.131 x 2 ½	830	410	—	—	715	355	—	—	
🔵	H8	18	(5) 0.148 x 1 ½	(5) 0.148 x 1 ½	—	780	95	90	630	710	95	90	510	
SS	H8SS	18	(5) 0.148 x 1 ½	(5) 0.148 x 1 ½	—	610	90	120	440	370	90	55	335	—
🔵	H10A Field Bent	18	(9) 0.148 x 1 ½	(9) 0.148 x 1 ½	—	780	565	285	—	760	485	285	—	IBC, FL, LA
🔵	H10A	18	(9) 0.148 x 1 ½	(9) 0.148 x 1 ½	—	1,040	565	285	—	1,015	485	285	—	—
SS	H10ASS	18	(9) 0.148 x 1 ½	(9) 0.148 x 1 ½	—	970	565	170	—	835	485	170	—	
	H10AR	18	(9) 0.148 x 1 ½	(9) 0.148 x 1 ½	—	1,050	490	285	—	905	420	285	—	
	H10S	18	(8) 0.131 x 1 ½	(8) 0.131 x 1 ½	(8) 0.131 x 2 ½	910	660	215	550	785	570	185	475	IBC, FL, LA
🔵	H10A-2	18	(9) 0.148 x 1 ½	(9) 0.148 x 1 ½	—	1,080	680	260	—	930	585	225	—	—
🔵	H11Z	18	(6) 0.162 x 2 ½	(6) 0.162 x 2 ½	—	830	525	760	—	715	450	655	—	
	H14	18	(12) 0.131 x 1 ½	(13) 0.131 x 2 ½	—	1,275	725	285	—	1,050	480	245	—	IBC, FL, LA
			(12) 0.131 x 1 ½	(15) 0.131 x 2 ½	—	1,340	670	230	—	1,050	480	245	—	
	TSP	16	(9) 0.148 x 1 ½	(6) 0.148 x 1 ½	—	755	310	190	—	650	265	160	—	
			(9) 0.148 x 1 ½	(6) 0.148 x 3	—	1,015	310	190	—	875	265	160	—	

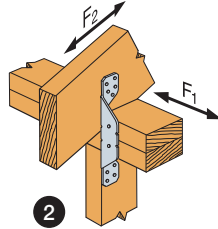
- See pp. 288–289 for Straps and Ties General Notes.
- Allowable loads are for one anchor. A minimum rafter thickness of 2 1/2" must be used when framing anchors are used on each side of the joist and on the same side of the plate (exception: connectors installed such that nails on opposite side don't interfere).
- Allowable DF/SP uplift load for stud-to-bottom plate installation (see detail 12) is 390 lb. (H2.5A); 265 lb. (H2.5ASS); and 310 lb. (H8). For SPF/HF values, multiply these values by 0.86.
- Allowable loads in the F₁ direction are not intended to replace diaphragm boundary members and do not account for possible cross-grain bending of the truss or rafter members.
- When cross-grain bending or cross-grain tension cannot be avoided in the members, mechanical reinforcement to resist such forces shall be considered by the designer.
- Southern pine allowable uplift loads for H10A = 1,105 lb. (160), H2.5A with 0.131" x 1 1/2" nails = 635 lb. (160) and H2.5A with 0.131" x 2 1/2" nails = 730 lb. (160).
- H10S can have the stud offset a maximum of 1" from the rafter (center to center) for a reduced uplift of 890 lb. (DF/SP) and 765 lb. (SPF).
- H10S nails to plates are optional for uplift but required for lateral loads.
- Some load values for the stainless-steel connectors shown here are lower than those for the carbon-steel versions. Ongoing test programs have shown this also to be the case with other stainless-steel connectors in the product line that are installed with nails. Visit strongtie.com/corrosion for updated information.
- The allowable loads of stainless-steel connectors match carbon-steel connectors when installed with stainless-steel Strong-Drive SCNR™ Ring-Shank Connector nails. For more information, refer to engineering letter L-F-SSNAILS at strongtie.com.
- Simpson Strong-Tie offers stainless-steel Strong-Drive SCNR Ring-Shank Connector nails. For bulk SCNR nails, see p. 375; for collated SCNR nails, see p. 376. For general fastener information, see pp. 25–26.
- Allowable DF/SP/SPF uplift load for the H2.5A fastened to a 2x4 truss bottom chord and double top plates using five 0.131" x 1 1/2" nails in the top plates and three 0.131" x 1 1/2" nails in the lowest three flange holes into the truss bottom chord is 260 lb. (160).
- For TSP installed stud to single plate see pp. 303–305.
- Fasteners:** Nail dimensions are listed diameter by length. See pp. 25–26 for fastener information.
- Using Strong-Drive SD Connector (SD9112) for 0.131" x 1 1/2" and 0.148" x 1 1/2", Strong-Drive SD Connector (SD9212) for 0.131" x 2 1/2" (and longer) and 0.148" x 2 1/2" (and longer), Strong-Drive SD Connector (SD10212) for 0.162" x 2 1/2" (and longer) will get the same load as nails.

H/TSP

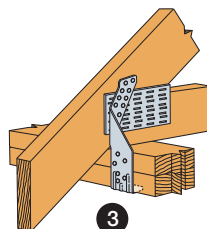
Seismic and Hurricane Ties (cont.)



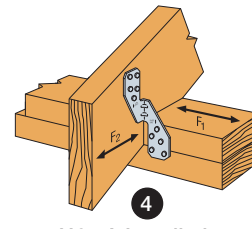
1
H1A Installation
(H1.81Z similar)



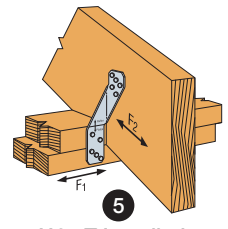
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H2A Installation



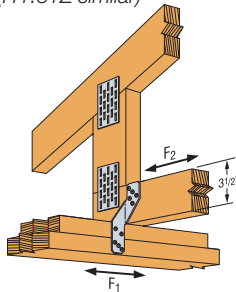
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TSP Installation



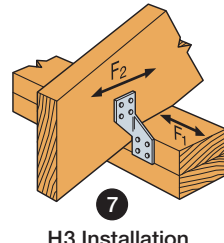
4
H2.5A Installation
(nails into both
top plates)



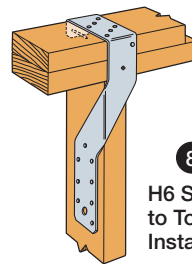
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H2.5T Installation
(nails into both
top plates)



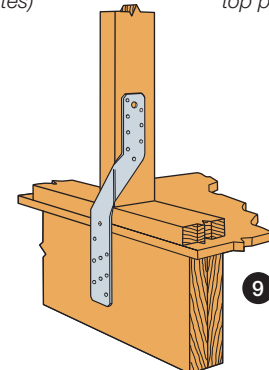
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H2.5T Installation



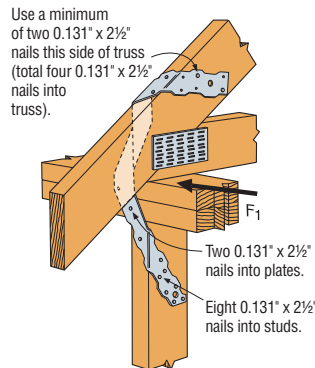
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H3 Installation
(nails into upper top plate)



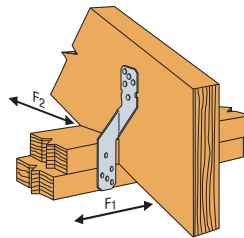
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H6 Stud
to Top Plate
Installation



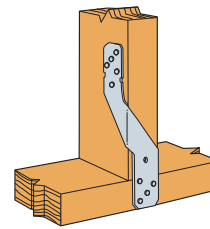
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H6 Stud to
Rim Board
Installation



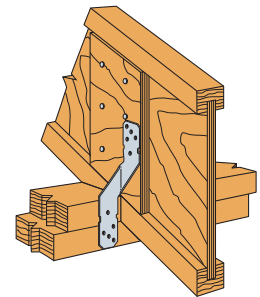
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H7Z Installation



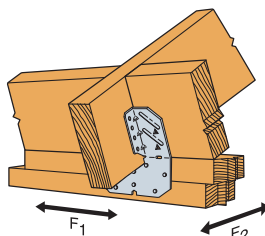
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H8 Attaching
Rafter to Double
Top Plates



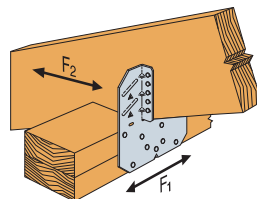
12
H8 attaching Stud to Sill
(4) 0.131" x 2 1/2" nails into plate,
(5) 0.131" x 2 1/2" nails into stud,
refer to footnote 3 for loads)



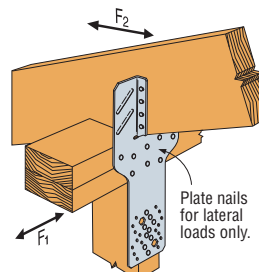
13
H8 attaching I-Joist
to Double Top Plates



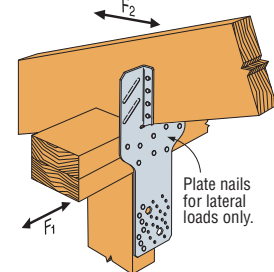
14
H10A Field-Bent
Installation



15
H10A
Installation



16
H10S Installation

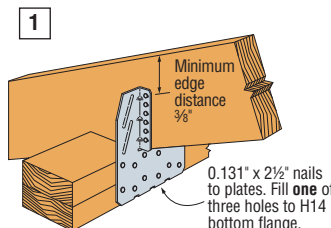


17
H10S Installation
with Stud Offset

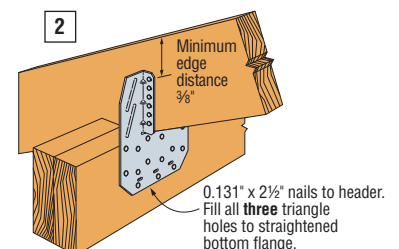
H10A optional nailing connects shear blocking to rafter. Use 0.131" x 2 1/2" nails. Slot allows maximum field-bending up to a pitch of 6:12, bend one time only.



Visit app.strongtie.com/rws
to access our Roof-to-Wall
Selector web application.



18
H14 Installation to
Double Top Plates



19
H14 Installation
to Double 2x Header

Outdoor Accents®

Decorative Hardware

The Outdoor Accents decorative hardware product line features connectors and fasteners that bring beauty and strength to custom outdoor living structures. The hardware comes in a range of styles: the Mission Collection®, featuring a tasteful, traditional look; the Avant Collection™, for a clean, modern aesthetic; and the Sage System™, featuring innovative modular connectors that make it easy to build a simple pergola in an afternoon.

Both the Mission and Avant collections feature strong, structural connectors that install with an innovative, load-rated hex-head washer and fastener combination, delivering the appearance of a bolt while providing the easy installation and convenience of a screw. Both hardware lines include

- Angles to make connections between beams and posts stronger and provide straighter more consistent for a variety of outdoor projects
- Flat T and L straps to provide reinforcement for connections where one lumber piece intersects another at a 90° angle
- Deck joist ties to attach 2x joists to the side of 4x or larger support posts
- Post bases to secure wood columns to concrete while providing a 1" standoff height that helps reduce decay from standing moisture
- Gable plates and decorative washers to add flair to any outdoor living project

The Sage System features an innovative open-top connector design, available for both 4x and 6x lumber, that simplifies installation, adapts to various build methods, and handles lumber variances. The system includes:

- Corner connectors for post-to-beam connections
- Middle-T connectors for mid-span support
- Post bases with outside flanges for easy placement and installation on a concrete foundation
- A UV-protected sunshade, available in two sizes, for an easy shade option

Additionally, Outdoor Accents includes Essentials, featuring all of the Outdoor Accents screws and washers as well as concealed flange hangers that work with both connector styles; and Accessories that add decorative accents to any project.

All Outdoor Accents connectors are made with ZMAX®-galvanized steel for superior corrosion resistance.

Material: See tables

Finish: ZMAX® coating with black powder coat

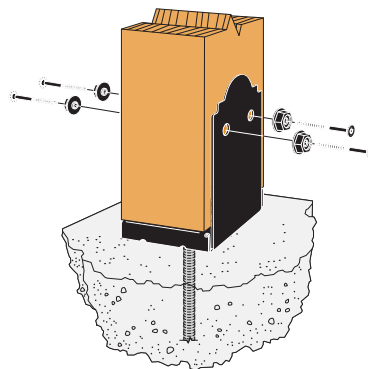
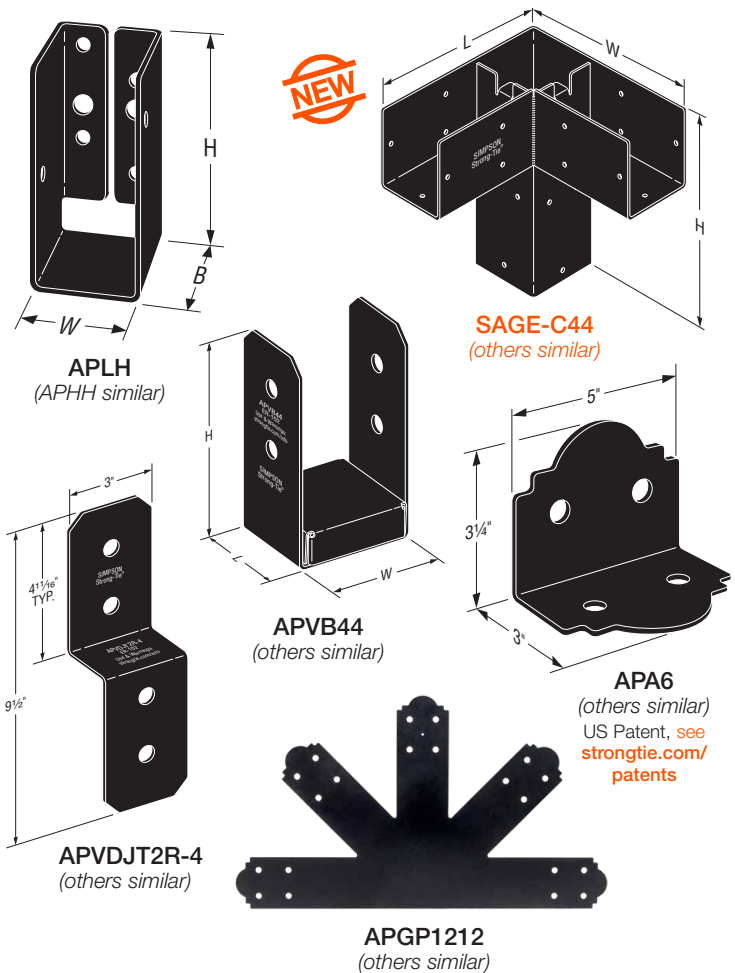
Installation:

- Use all specified fasteners; see General Notes.
- Outdoor Accents **Mission and Avant** connectors install with the Hex-Head Washer (STN22) and Structural Wood screw (SDWSDBB) combination. Some items require Outdoor Accents connector screws.

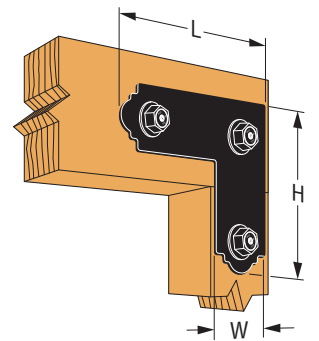
Codes: See p. 12 for Code Reference Key Chart

Web Applications:

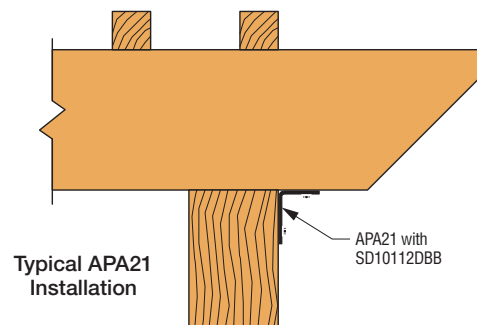
- Visit app.strongtie.com/pps to access our Pergola Planner Software™.
- Visit app.strongtie.com/agpd to access our Architectural Gable Plate Designer.



Typical APB Installation



Typical APL4 Installation



Typical APA21 Installation

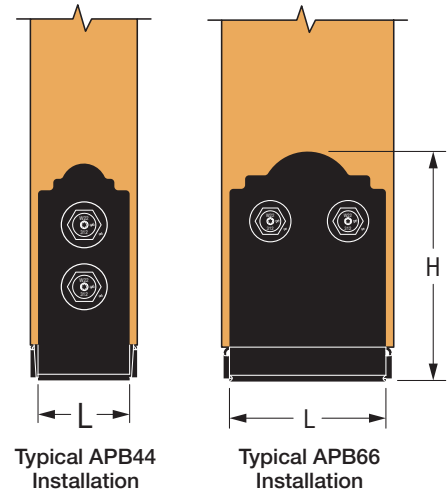
APA21 with SD10112DBB

Outdoor Accents® — Mission Collection®

Decorative Hardware

Post Bases

Model No.	Ga.		Dimensions (in.)			Fastener Qty.		DF/SP Allowable Loads		Code Ref.
	Base	Strap	L	W	H	Column	Anchor	Uplift (160)	Down (100)	
APB3.75	16	12	3	3¾	6⅞	4	(1) ⅝	1,035	6,725	IBC, FL, LA
APB44	16	12	3	3⅝	7	4	(1) ⅝	1,035	6,725	
APB44R	16	12	3	4⅞	6¾	4	(1) ⅝	1,035	6,725	
APB66	12	12	5	5½	7½	4	(1) ⅝	1,260	11,450	
APB66R	12	12	5	6	7¼	4	(1) ⅝	1,260	11,450	
APB88	14	12	7	7½	10⅞	8	(2) ⅝	2,670	22,255	
APB88R	14	12	7	8	10⅞	8	(2) ⅝	2,670	22,255	
APB1010	14	12	9	9½	11	8	(2) ⅝	2,365	23,725	
APB1010R	14	12	9	10	10¾	8	(2) ⅝	2,365	23,725	

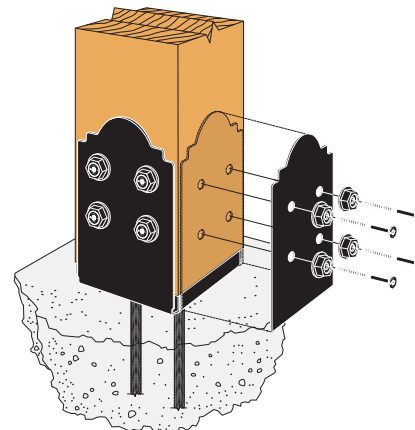


1. Uplift loads have been increased for earthquake or wind loading with no further increase allowed. Reduce where other loads govern.
2. Downloads may not be increased for short-term loading.
3. Specifier is to design concrete and anchorage for uplift loads. Visit strongtie.com for more information about mechanically galvanized or stainless-steel Titen HD® or SET-3G® applications.
4. Downloads shall be reduced where limited by capacity of the post.
5. All post fasteners are Outdoor Accents SDWS22312DBB structural wood screws inserted through an STN22 hex-head washer.
6. Post bases do not provide adequate resistance to prevent members from rotating about the base and therefore are not recommended for installations that lack top support (such as fences or unbraced carports).
7. Fasteners sold separately.

Decorative Side Plates

Model No.	Ga.	Dimensions (in.)		Fastener Qty.
		W	H	Column
APB44DSP	12	3	6¾	4
APB66DSP		5	7¼	
APB88DSP		7	10⅞	8
APB1010DSP		9	10¾	

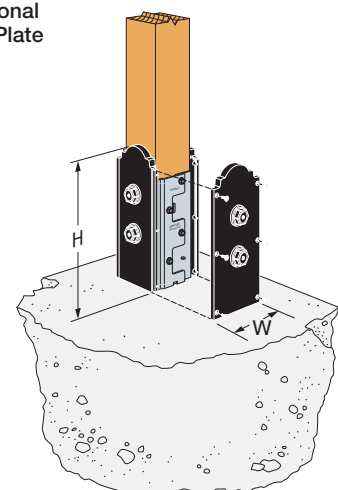
1. All fasteners are a Outdoor Accents SDWS22312DBB inserted through an STN22 hex-head washer. Quantities listed are for two parts.
2. Install top of decorative side plates flush to top of post base strap legs. Decorative side plates installed on APB post bases will be raised up ¼" from the bottom of the post base, while installations on rough models will not.
3. Fasteners sold separately.



Decorative Post Base Wrap

Model No.	Post Size	Width (in.)	Height (in.)	Installs With	Coating Material	Packaging Quantity
APBDW44	4x4 post	4¾	10⅞	(12) black screws (included)	Composite plastic	(1) 4-sided set
APBDW66	6x6 post	6⅞	11⅞			

1. Wraps around the MPBZ® moment post base as well as the CBSQ, ABUZ, ABWZ and ABAZ post bases (only with screw and nail applications; will not work over bolts).



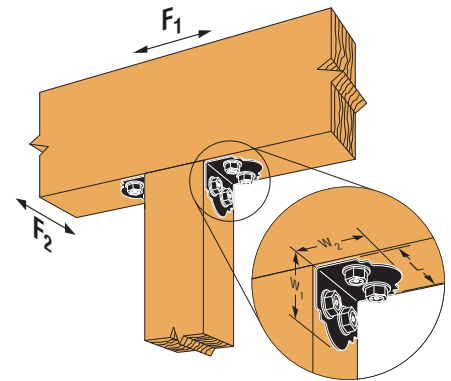
Outdoor Accents® — Mission Collection®

Decorative Hardware

Heavy Angles

Model No.	Ga.	Dimensions (in.)			Fastener Qty.		DF/SP Allowable Loads			Code Ref.
		L	W ₁	W ₂	Column	Beam	Uplift (160)	F ₁ (160)	F ₂ (100/160)	
APA4	12	3	3¼	3	2	2	710	1,220	380	IBC, FL, LA
APA6	12	5	3¾	3½	4	4	1,350	1,985	1,215	

1. Allowable loads have been increased for wind or earthquake loading with no further increase allowed. Reduce where other loads govern.
2. Connector table loads and fastener quantities are listed for two parts. For single part installations, use half the listed values.
3. All fasteners are Outdoor Accents SDWS22312DBB structural wood screws inserted through an STN22 hex-head washer.
4. Fasteners sold separately.

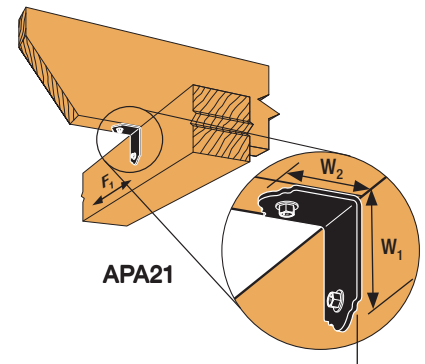


APA6

Light Rafter Tie

Model No.	Ga.	Dimensions (in.)			Fastener Qty.		DF/SP Allowable Loads		Code Ref.
		L	W ₁	W ₂	Column	Beam	Uplift (160)	F ₁ (160)	
APA21	14	1¾	2	1½	1	1	200	120	IBC, FL, LA

1. Allowable loads have been increased for wind or earthquake loading with no further increase allowed. Reduce where other loads govern.
2. Allowable loads and fastener quantities are for a single part.
3. All fasteners are Outdoor Accents #10 x 1½" connector screws (SD10112DBB).
4. Fasteners sold separately.

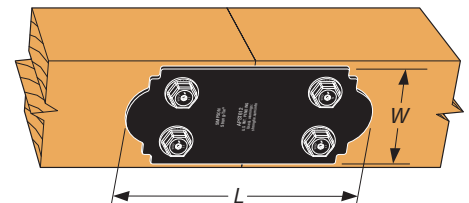


APA21

Beam-to-Column Ties and Flat Straps

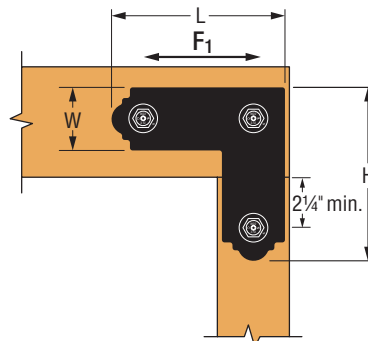
Model No.	Ga.	Dimensions (in.)			Fastener Qty.		DF/SP Allowable Loads		Code Ref.
		W	L	H	Column	Beam	Uplift/Tension (160)	F ₁ (160)	
APL4	12	3	8¼	8¼	2	4	1,155	670	IBC, FL, LA
APL6	12	5	11¼	11¼	4	6	1,905	1,340	
APT4	12	3	13½	8¼	2	4	1,330	1,015	
APT6	12	5	17½	11¼	4	8	2,130	1,425	
APST412	12	3	11¼	—	—	8	850	—	—
APST612	12	5	11¼	—	—	8	1,505	—	

1. Allowable loads have been increased for wind or earthquake loading with no further increase allowed. Reduce where other loads govern.
2. Connector table loads and fastener quantities are listed for two parts. For single part installations, use half the listed values.
3. All fasteners are Outdoor Accents SDWS22312DBB structural wood screws inserted through an STN22 hex-head washer.
4. Fasteners sold separately.

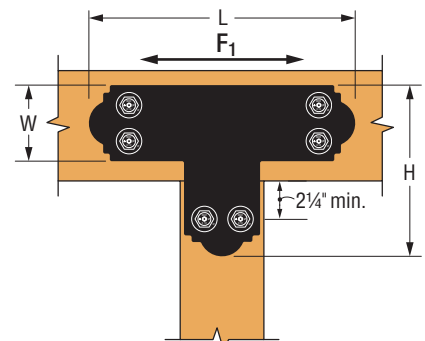
Typical APST612 Installation
(APST412 similar)

Web Applications:

- Visit app.strongtie.com/pbs to access our Post-to-Beam Selector.
- Visit app.strongtie.com/agpd to access our Architectural Gable Plate Designer.



Typical APL4 Installation



Typical APT6 Installation

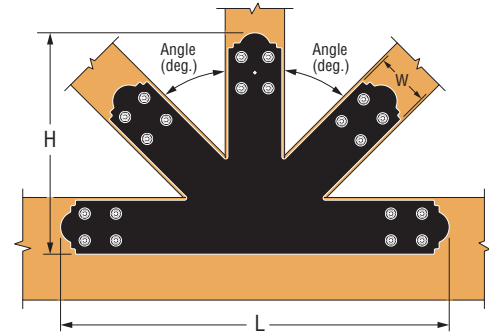
Outdoor Accents® — Mission Collection®

Decorative Hardware

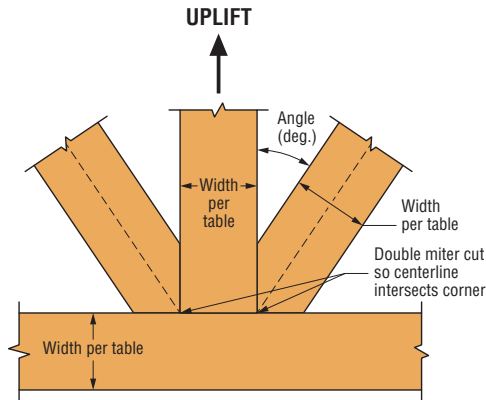
Gable Plates

Model No.	Ga.	Roof Pitch	Angle (deg.)	Wood Member Width (in.)	Dimensions (in.)			Fastener Qty.			DF/SP Allowable Loads	Code Ref.
					W	H	L	Beam	Center Column	Angled Struts	Uplift (160)	
APGP612	12	6:12	27°	5½	5	20½	36	16	8	16	3,925	—
APGP812		8:12	34°	5½								
APGP1212		12:12	45°	5½								

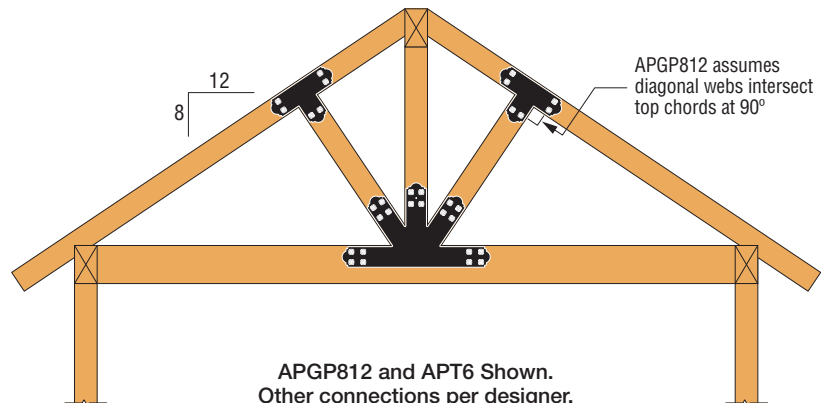
- Allowable loads have been increased for wind or earthquake loading with no further increase allowed. Reduce where other loads govern.
- Connector table loads and fastener quantities are listed for two parts. For single part installations, use half the listed values.
- Uplift loads apply to the connection between the center vertical post and the beam.
- All fasteners are a Outdoor Accents SDWS22312DBB inserted through an STN22 hex-head washer. Quantities listed are for two parts.
- Fasteners sold separately.



APGP1212



Note: 12:12 will have equal cuts.
Other sizes will have unequal cuts.

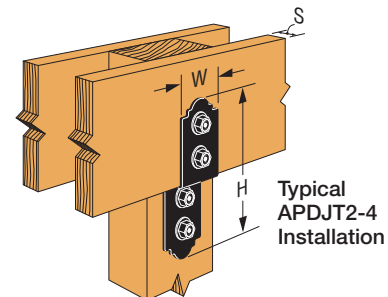


APGP812 and APT6 Shown.
Other connections per designer.

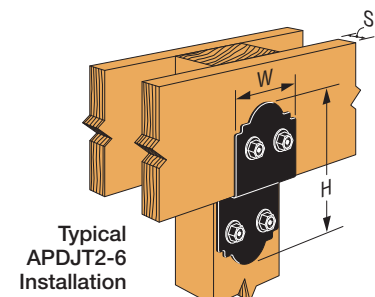
Deck Joist Tie

Model No.	Ga.	Dimensions (in.)			Fastener Quantity and Length		DF/SP Allowable Down Loads		Code Ref.
		S	W	H	Column	Joist	Floor (100)	Roof (125)	
APDJT2-4	12	1½	3	10	(2) 3½"	(2) 5½"	1,870	2,340	IBC, FL, LA
APDJT1.75-4	12	1¾	3	9¾	(2) 3½"	(2) 5½"	1,870	2,340	
APDJT2R-4	12	2	3	9½	(2) 3½"	(2) 5½"	1,870	2,340	
APDJT2-6	12	1½	5	10	(2) 3½"	(2) 5½"	1,870	2,340	
APDJT1.75-6	12	1¾	5	9¾	(2) 3½"	(2) 5½"	1,870	2,340	
APDJT2R-6	12	2	5	9½	(2) 3½"	(2) 5½"	1,870	2,340	

- Roof loads are 125% of floor loads unless limited by other criteria. Floor loads may be adjusted for load durations according to the code provided they do not exceed those in the roof column.
- Allowable loads and fastener quantities are per part. APDJT1.75 model loads for Western Red Cedar are 1,430 lb. floor (100) and 1,790 lb. roof (125).
- Joist fastener is an Outdoor Accents SDWS22512DBB structural wood screw inserted through an STN22 hex-head washer. Post fastener is an SDWS22312DBB structural screw inserted through an STN22 hex-head washer.
- Fasteners sold separately.



Typical
APDJT2-4
Installation



Typical
APDJT2-6
Installation

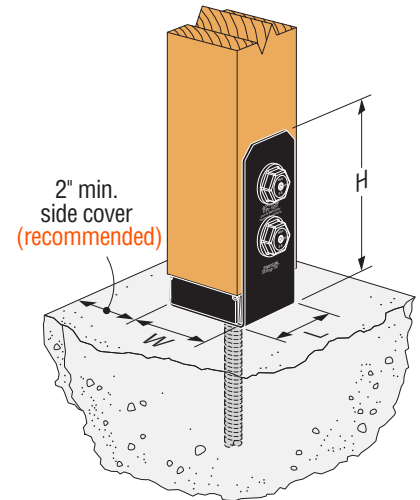
Outdoor Accents® — Avant Collection™

Decorative Hardware

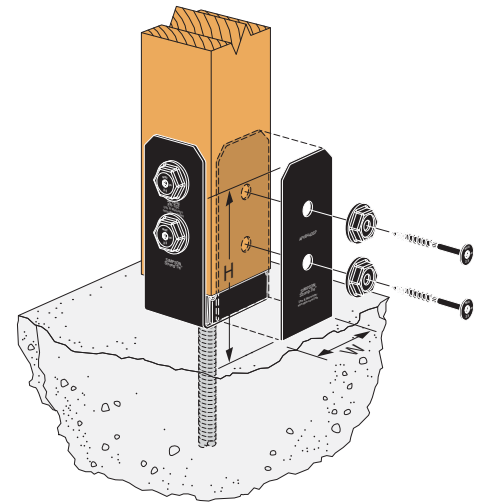
Post Base

Model No.	Ga.		Dimensions (in.)			Fastener Qty.		DF/SP Allowable Loads		Code Ref.
	Base	Strap	L	W	H	Column	Anchor Dia. (in.)	Uplift (160)	Down (100)	
APVB44	16	12	3	3 ⁹ / ₁₆	6 ³ / ₄	4	(1) ⁵ / ₈	1,035	6,725	IBC, FL, LA
APVB44R	16	12	3	4 ¹ / ₁₆	6 ¹ / ₂	4	(1) ⁵ / ₈	1,035	6,725	
APVB66	12	12	5	5 ¹ / ₂	6 ¹³ / ₁₆	4	(1) ⁵ / ₈	1,260	11,450	
APVB66R	12	12	5	6	6 ⁹ / ₁₆	4	(1) ⁵ / ₈	1,260	11,450	
APVB88	14	12	7	7 ¹ / ₂	9 ⁷ / ₈	8	(2) ⁵ / ₈	2,670	22,255	
APVB88R	14	12	7	8	9 ⁵ / ₈	8	(2) ⁵ / ₈	2,670	22,255	
APVB1010	14	12	9	9 ¹ / ₂	9 ³ / ₄	8	(2) ⁵ / ₈	2,365	23,725	
APVB1010R	14	12	9	10	9 ¹ / ₂	8	(2) ⁵ / ₈	2,365	23,725	

- Uplift loads have been increased for wind or earthquake loading with no further increase allowed. Reduce where other loads govern.
- Downloads may not be increased for short-term loading.
- Specifier is to design concrete and anchorage for uplift loads. Visit strongtie.com for more information about mechanically galvanized or stainless-steel Titen HD® or SET-3G® applications.
- Downloads shall be reduced where limited by capacity of the post.
- All column fasteners are Outdoor Accents SDWS22312DBB structural wood screws inserted through an STN22 hex-head washer.
- Column bases do not provide adequate resistance to prevent members from rotating about the base and therefore are not recommended for installations that lack top support (such as fences or unbraced carports).
- Fasteners sold separately.



APVB44

APVB44DSDSP shown with
APVB44 post base

Decorative Side Plates

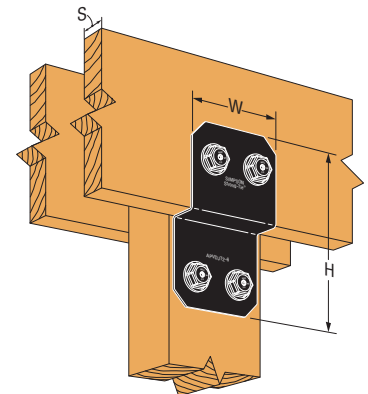
Model No.	Ga.	Dimensions (in.)		Fastener Qty.
		W	H	
APVB44DSDSP	12	3	6 ¹ / ₂	4
APVB66DSDSP		5	6 ⁹ / ₁₆	
APVB88DSDSP		7	9 ⁵ / ₈	8
APVB1010DSDSP		9	9 ¹ / ₂	

- All fasteners are Outdoor Accents SDWS22312DBB inserted through an STN22 hex-head washer. Quantities listed are for two parts.
- Install top of decorative side plates flush to top of post base strap legs. Decorative side plates installed on APVB post bases will be raised up ¹/₄" from the bottom of the post base, while installations on rough models will not.
- Fasteners sold separately.

Deck Joist Tie

Model No.	Ga.	Dimensions (in.)			Fastener Quantity and Length		DF/SP Allowable Down Loads		Code Ref.
		S	W	H	Column	Joist	Floor (100)	Roof (125)	
APVDJT2-4	12	1 ¹ / ₂	3	10	(2) 3 ¹ / ₂ "	(2) 5 ¹ / ₂ "	1,870	2,340	IBC, FL, LA
APVDJT1.75-4	12	1 ³ / ₄	3	9 ³ / ₄	(2) 3 ¹ / ₂ "	(2) 5 ¹ / ₂ "	1,870	2,340	
APVDJT2R-4	12	2	3	9 ¹ / ₂	(2) 3 ¹ / ₂ "	(2) 5 ¹ / ₂ "	1,870	2,340	
APVDJT2-6	12	1 ¹ / ₂	5	8 ¹ / ₂	(2) 3 ¹ / ₂ "	(2) 5 ¹ / ₂ "	1,870	2,340	
APVDJT1.75-6	12	1 ³ / ₄	5	8 ¹ / ₄	(2) 3 ¹ / ₂ "	(2) 5 ¹ / ₂ "	1,870	2,340	
APVDJT2R-6	12	2	5	8	(2) 3 ¹ / ₂ "	(2) 5 ¹ / ₂ "	1,870	2,340	

- Roof loads are 125% of floor loads unless limited by other criteria. Floor loads may be adjusted for load durations according to the code, provided they do not exceed those in the roof column.
- Allowable loads and fastener quantities are per part. APVDJT1.75 model loads for Western Red Cedar are 1,430 lb. floor (100) and 1,790 lb. roof (125).
- Joist fastener is an Outdoor Accents SDWS22512DBB structural wood screw inserted through an STN22 hex-head washer. Column fastener is an SDWS22312DBB structural screw inserted through an STN22 hex-head washer.
- Fasteners sold separately.



APVDJT2-6

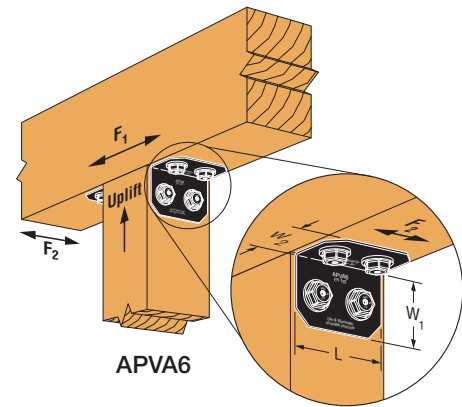
Outdoor Accents® — Avant Collection™

Decorative Hardware

Heavy Angles

Model No.	Ga.	Dimensions (in.)			Fastener Quantity		DF/SP Allowable Loads			Code Ref.
		L	W ₁	W ₂	Column	Beam	Uplift (160)	F ₁ (160)	F ₂ (100/160)	
APVA4	12	3	3¼	3	2	2	710	1,220	380	IBC, FL, LA
APVA6	12	5	3¼	3	4	4	1,350	1,985	1,215	

1. Allowable loads have been increased for wind or earthquake loading with no further increase allowed. Reduce where other loads govern.
2. Connector table loads and fastener quantities are listed for two parts. For single part installations, use half the listed values.
3. All fasteners are Outdoor Accents SDWS22312DBB structural wood screws inserted through an STN22 hex-head washer.
4. Fasteners sold separately.

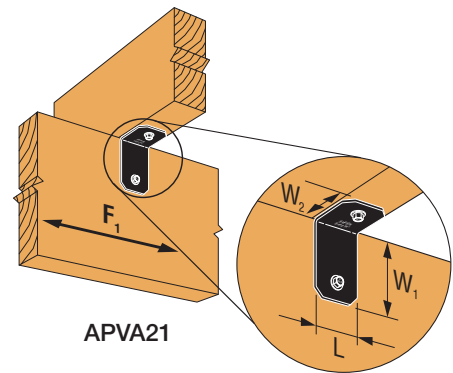


APVA6

Light Rafter Tie

Model No.	Ga.	Dimensions (in.)			Fastener Quantity		DF/SP Allowable Loads		Code Ref.
		L	W ₁	W ₂	Column	Beam	Uplift (160)	F ₁ (160)	
APVA21	14	1½	2	1½	1	1	200	120	IBC, FL, LA

1. Allowable loads have been increased for wind or earthquake loading with no further increase allowed. Reduce where other loads govern.
2. Allowable loads and fastener quantities are for a single part.
3. All fasteners are Outdoor Accents #10 x 1½" connector screws (SD10112DBB).
4. Fasteners sold separately.

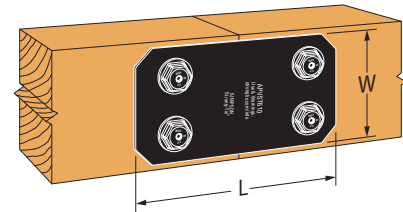
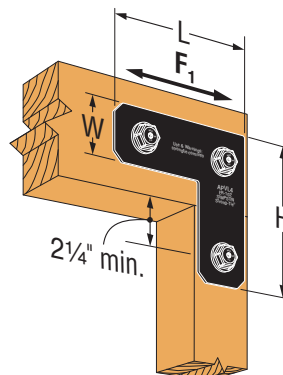


APVA21

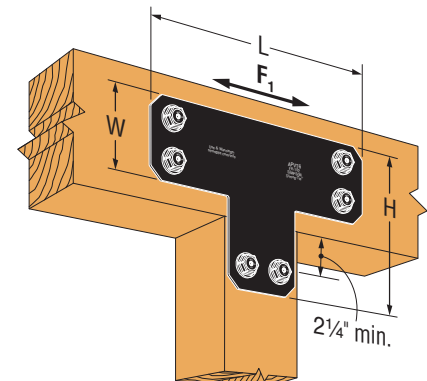
Beam-to-Column Ties and Flat Straps

Model No.	Ga.	Dimensions (in.)			Fastener Quantity		DF/SP Allowable Loads		Code Ref.
		W	L	H	Column	Beam	Uplift (160)	F ₁ (160)	
APVL4	12	3	8¼	8¼	2	4	1,155	670	IBC, FL, LA
APVL6	12	5	10½	10½	4	6	1,905	1,340	
APVT4	12	3	13½	8¼	2	4	1,330	1,015	
APVT6	12	5	16	10½	4	8	2,130	1,425	
APVST412	12	3	11¼	—	—	8	850	—	—
APVST610	12	5	9¼	—	—	8	1,505	—	

1. Allowable loads have been increased for wind or earthquake loading with no further increase allowed. Reduce where other loads govern.
2. Connector table loads and fastener quantities are listed for two parts. For single part installations, use half the listed values.
3. All fasteners are Outdoor Accents SDWS22312DBB structural wood screws inserted through an STN22 hex-head washer.
4. Fasteners sold separately.

APVST610
(APVST412 similar)

APVL4



APVT6

Web Applications:

- Visit app.strongtie.com/pbs to access our Post-to-Beam Selector.
- Visit app.strongtie.com/agpd to access our Architectural Gable Plate Designer.



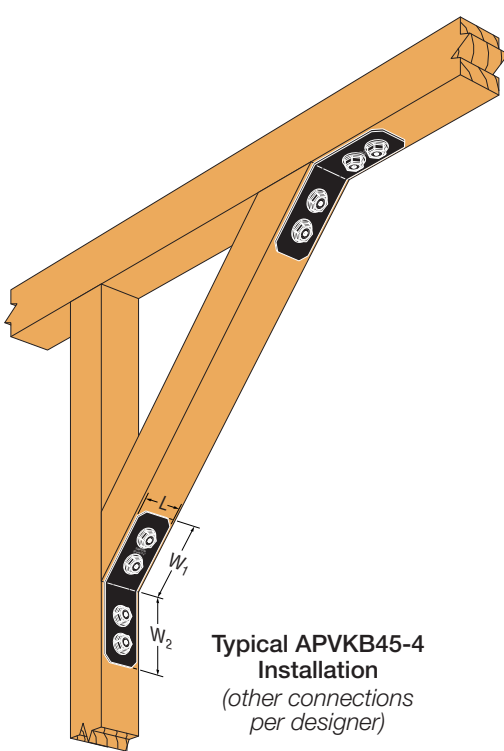
Outdoor Accents® — Avant Collection™

Decorative Hardware

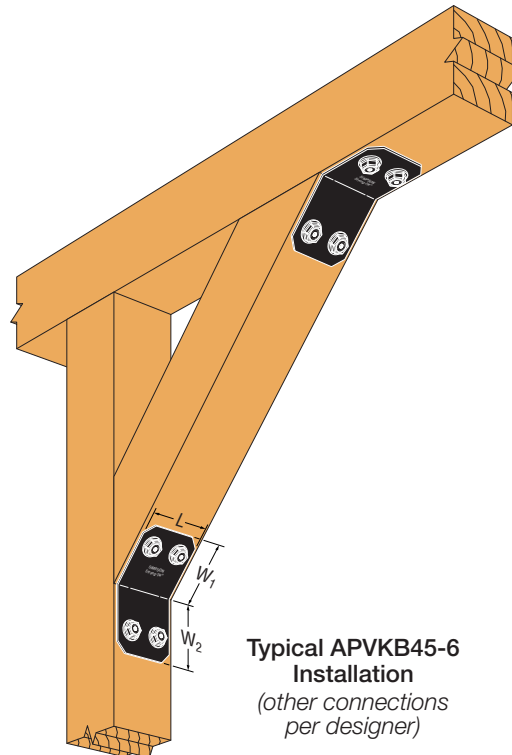
Knee Braces

Model No.	Ga.	Dimensions (in.)			Fastener Quantity	
		L	W ₁	W ₂	Column or Beam	Knee Brace
APVKB45-4	12	3	5 $\frac{5}{8}$	5 $\frac{5}{8}$	2	2
APVKB45-6	12	5	4 $\frac{7}{8}$	4 $\frac{7}{8}$	2	2

1. All fasteners are Outdoor Accents SDWS22312DBB inserted through an STN22 hex-head washer. Quantities listed are for one part.
2. Fasteners sold separately.



Typical APVKB45-4
Installation
(other connections
per designer)



Typical APVKB45-6
Installation
(other connections
per designer)

Outdoor Accents

DIY Pergola Hardware Kit

The Outdoor Accents DIY pergola hardware kit makes it easy for homeowners and DIYers to build a strong, stylish pergola up to 10' x 10' with all the connectors and fasteners packaged in one box. The kit features the Avant Collection APVL4 L strap ties, APVB4 post bases, and APVA4 4x angle connectors. Also included is our structural fastener and hex-head washer combo, that resembles a bolted connection but installs as easily as a screw. For more information, see strongtie.com/pergolakit.



Outdoor Accents® — Avant Collection™

Decorative Hardware

Gable Plates

Model No.	Ga.	Roof Pitch	Angle (deg.)	Wood Member Width (in.)	Dimensions (in.)			Fastener Quantity			DF/SP Allowable Loads	Code Ref.
					W	H	L	Beam	Center Column	Angled Struts	Uplift (160)	
APVGP612	12	6:12	27°	5½	5	19¾	34½	16	8	16	3,925	—
APVGP812		8:12	34°	5½								
APVGP1212		12:12	45°	5½								
APVGP1212-4		12:12	45°	3½	3	11½	20	8	4	8	2,195	

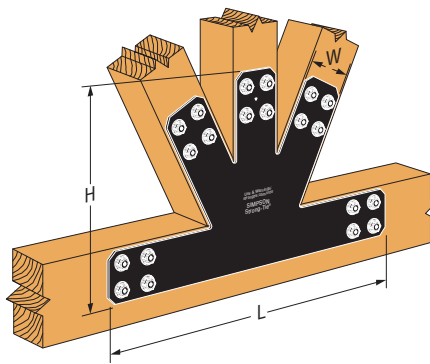
1. Allowable loads have been increased for wind or earthquake loading with no further increase allowed. Reduce where other loads govern.

2. Connector table loads and fastener quantities are listed for two parts. For single part installations, use half the listed values.

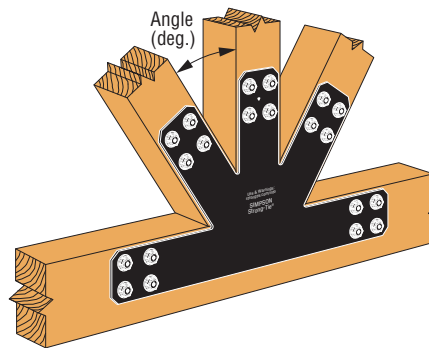
3. Uplift loads apply to the connection between the center vertical post and the beam.

4. All fasteners are Outdoor Accents SDWS22312DBB inserted through an STN22 hex-head washer. Quantities listed are for two parts.

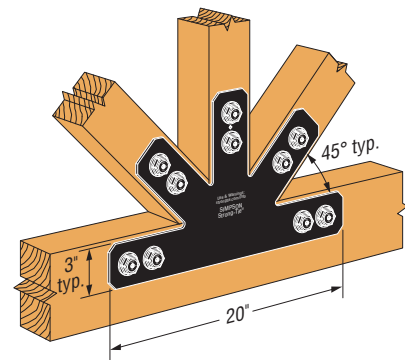
5. Fasteners sold separately.



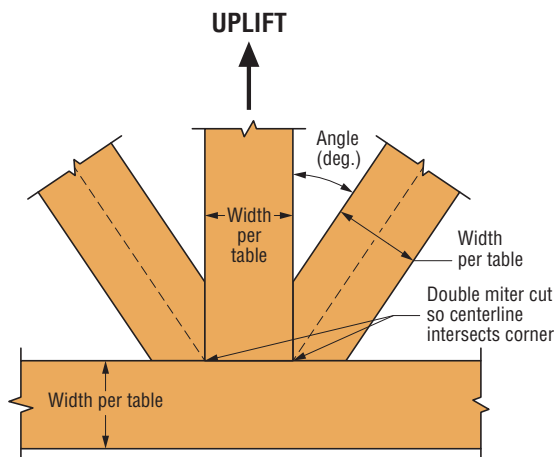
APVGP612



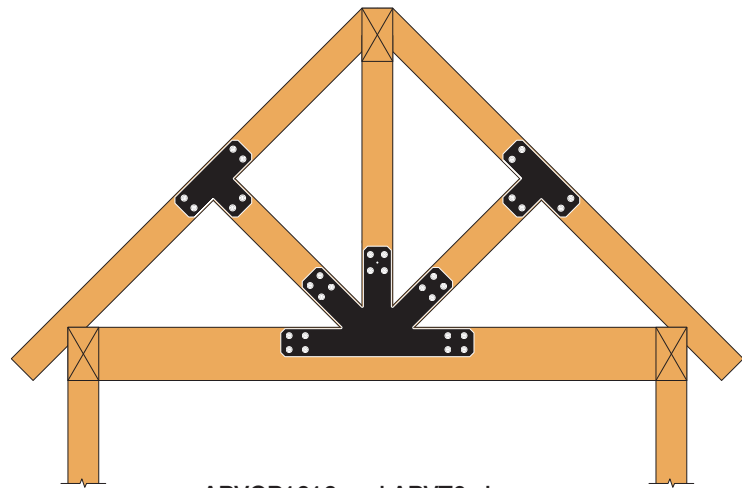
APVGP812



APVGP1212-4



Note: 12:12 will have equal cuts.
Other sizes will have unequal cuts.



APVGP1212 and APVT6 shown.
(other connectors not shown for clarity,
connections and roof pitch designed by others.)



Visit app.strongtie.com/agpd to access Architectural Gable Plate Designer web application for specifying Outdoor Accents gable plates.



Visit app.strongtie.com/pps to access prebuilt templates for your project in Pergola Planner Software™.