

**SIMPSON**

**Strong-Tie**

®



Protect Structural Investments with  
**Stainless-Steel Connections**





U.S.A. joist hanger shown, not available in New Zealand or Australia

## A Superior Level of Protection

When choosing structural connectors for a project, it is important to consider the long-term effects of corrosion. Simpson Strong-Tie® offers a broad variety of stainless-steel connectors designed to provide a superior level of protection and durability against corrosive environments and materials.

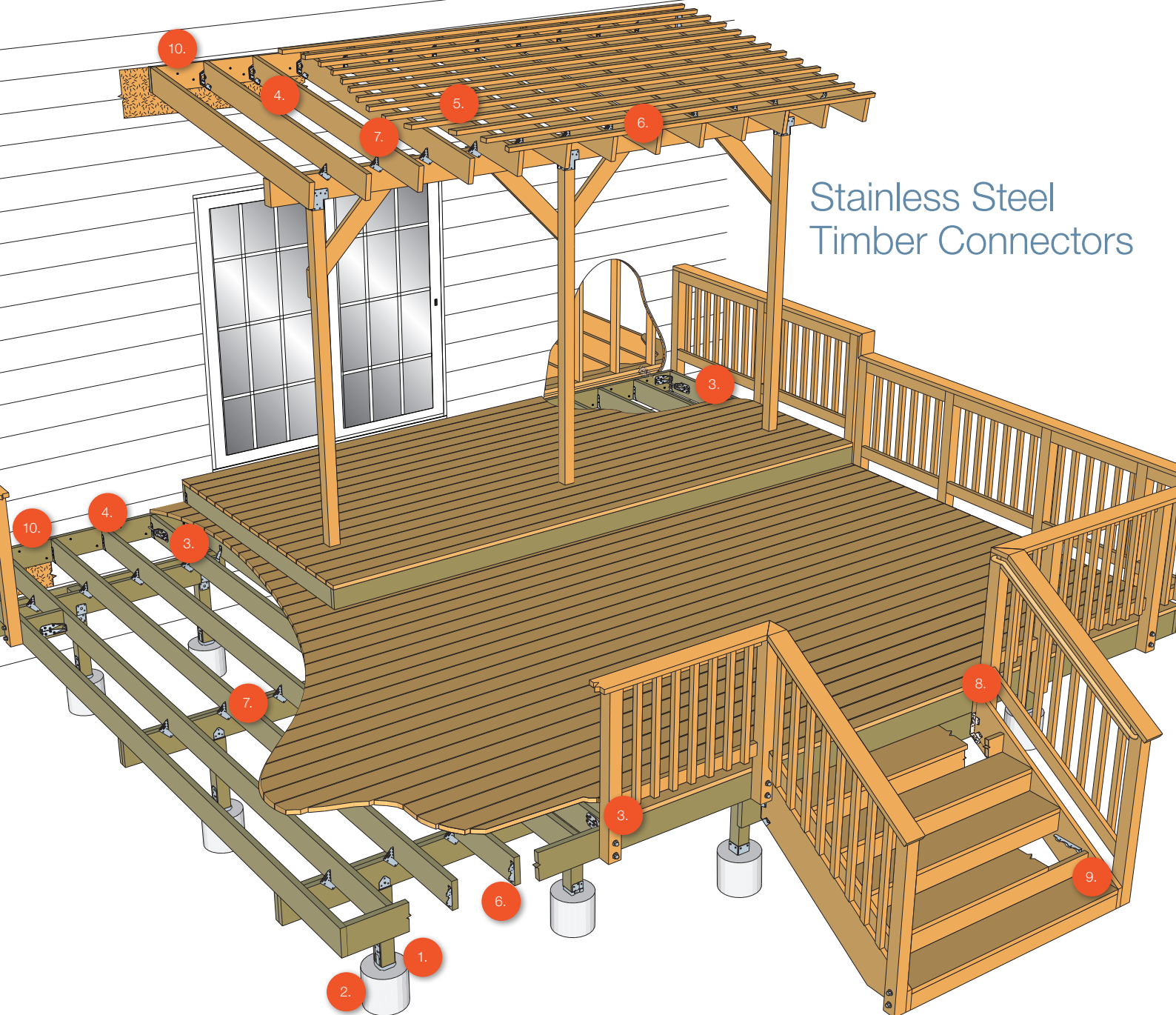
Metal fasteners and anchors will corrode and may lose load carrying capacity when installed in corrosive environments or exposed to corrosive elements. There are a number of factors and environments that can negatively affect structural connections including:

- Ocean salt air
- Water
- Preservative-treated timber
- Fire retardant-treated timber
- Pool/Spa chemicals
- Fertilisers
- Soil
- Concrete
- Industrial zones
- Dissimilar metals

## The Science Behind Simpson Strong-Tie Stainless Steel Connectors

Each Simpson Strong Tie® stainless steel connector is made with type 316L stainless steel. Because stainless steel contains nickel and chromium, stainless steel develops a thin layer of chromium oxide on the surface of the metal that protects the connector from corrosive attack. Type 316L stainless steel also includes molybdenum, which helps increase corrosion resistance chloride type areas, such as salt water environments. Type 316L has shown no visible sign of surface red rust after 1,000 hours of an ASTM B117 salt spray test. For more information about corrosion, visit [www.strongtie.com/info](http://www.strongtie.com/info).





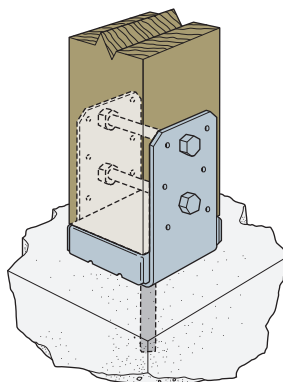
## Stainless Steel Timber Connectors

### 1. ABU Adjustable Post Base with Standoff

Provides a high-strength connection between the post and concrete. Designed to install on hardened concrete with either a cast-in-place or post-installed anchor, the ABU is designed to provide maximum uplift performance for areas where uplift from high winds is a concern.

#### Key Features

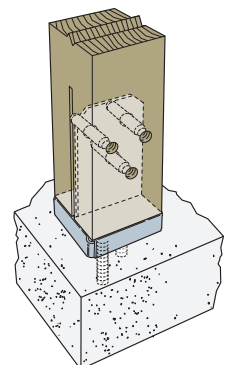
- Slotted base enables flexible positioning around the anchor bolt, making precise post placement easier
- 25 mm standoff helps prevent rot at the end of the post in applications where weather or moisture are present
- Post can be fastened with either nails, bolts or Strong-Drive® SD Connector screws



### 2. CPT90SS Concealed Post Tie (Coming Soon)

Provides a clean, concealed look whilst providing a 25mm standoff above the concrete. This reduces potential for decay at the post end.

- Tested and load-rated for uplift and lateral load
- Anchorage can be cast-in-place or retrofitted with mechanical or adhesive anchors



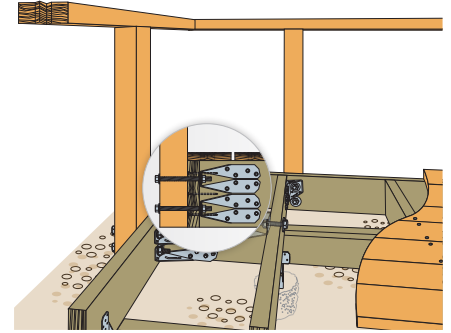
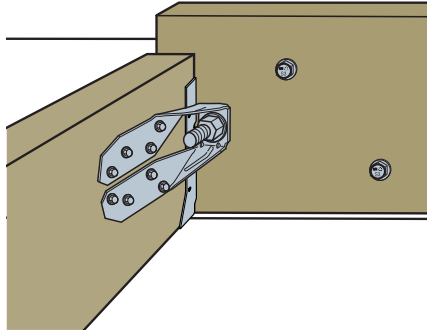


### 3. DTT2SS Tension Tie

Designed for light-duty holdown applications on single or double studs. Also used for lateral load connections between the deck and adjacent structure or for guardrail post connections.

#### Key Features

- Stronger more reliable connection than through bolts or lag screws
- Includes SDS connector screws



### 4. SAE Face Mount Joist Hanger

Designed for applications where extra load resistance is needed.

#### Key Features

- May be fastened to the header material with either nails or bolts.
- Can be installed on timber header or concrete/masonry wall.

#### SAE250/46/1, 5SS

Suits 45 x 115 – 150 mm joist

#### SAE340/46/1, 5SS

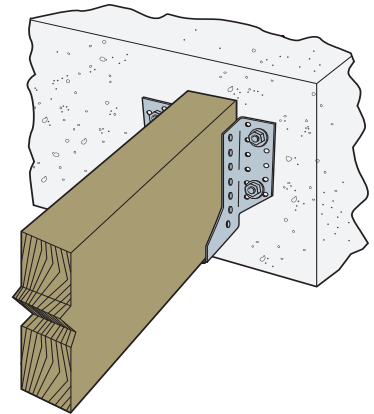
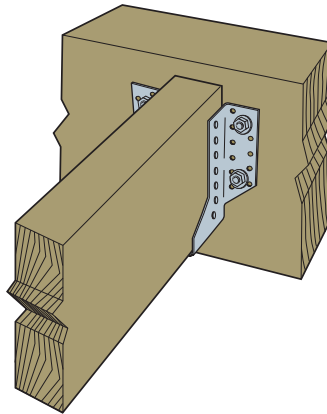
Suits 45 x 160 – 220 mm joist

#### SAE250/50/1, 5SS

Suits 50 x 115 – 150 mm joist

#### SAE340/50/1, 5SS

Suits 50 x 160 – 215 mm joist

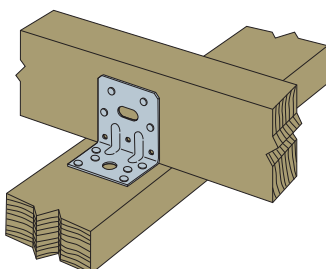


### 5. E5SS Angle Bracket

A 90 degree angle bracket for truss/rafter to the top plate connections.

#### Key Features

- 75 mm angle bracket
- Gussets for added stability and rigidity

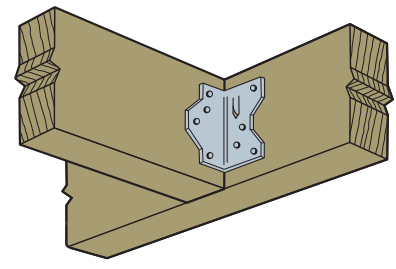
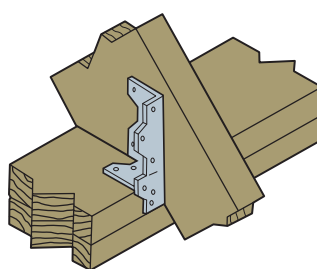


### 6. A34SS and A35SS Framing Angles

The A35 anchor's exclusive bending slot allows instant, accurate field bends for all two- and three-way ties.

#### Key Features

- Reversible design permits the A35 to secure a great variety of connections
- Also available in 90 degree connection — A34

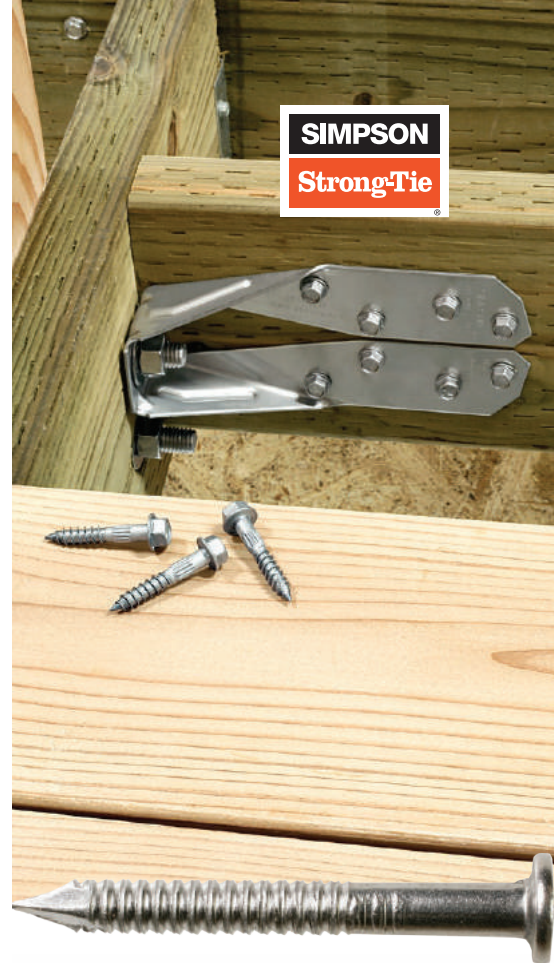
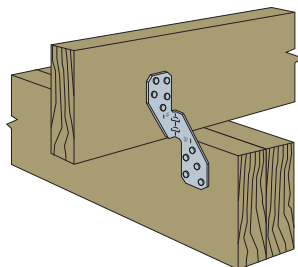


## 7. H2.5ASS and H3SS Hurricane Ties

Provide a positive connection between the truss/rafter and the wall of the structure to resist wind and seismic forces.

### Key Features

- The H2.5A and H3 connects the truss/rafter to the top plate



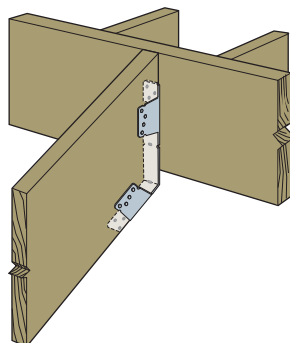
**SIMPSON**  
**Strong-Tie**

## 8. LSCSS Adjustable Stair-Stringer Connector

Offers a versatile, concealed connection between the stair stringer and the carrying header or rim joist while replacing costly framing. Field slopeable to all common stair-stringer pitches, the LSC connector is suitable for either solid or notched stringers.

### Key Features

- Replaces additional framing and toenailing and may be installed flush with the top of the carrying member or lower on the face.
- Suitable for most installations on 45 x 250 mm or 45 x 300 mm header/rim joist.



### Complete the Connection

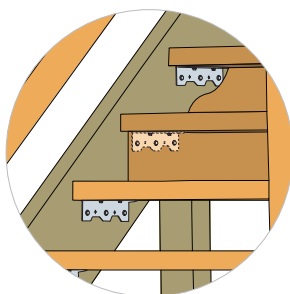
Always use stainless-steel fasteners with stainless-steel connectors. Even with the protection of stainless-steel connections, structures in corrosive environments can be compromised over time when these connectors are installed with fasteners that are not stainless steel. Carbon-steel fasteners with coatings such as hot-dip galvanisation will corrode faster than the stainless-steel connectors that they fasten. This can create a weak link that can eventually lead to failure. Likewise, fasteners made from a lower grade of stainless steel can also corrode at a faster rate than our type 316L stainless-steel connectors. Type 316 stainless-steel nails or screws protect the integrity of the structure and the investment made in stainless-steel connectors. Simpson Strong-Tie offers type 316 stainless-steel nails and Strong-Drive SDS screws that fasten our stainless-steel connectors.

## 9. TA9S Staircase Angles

Make it easier to build structurally sound stairs.

### Key Features

- Installing stair treads with TA angles instead of notching the stringers saves time and results in a full cross-section stringer.
- Installs easily with Strong-Drive® SDS Heavy-Duty Connector screws; no pre-drilling required.



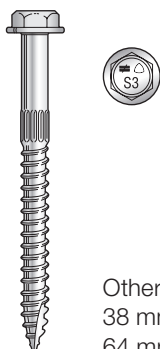
## 10. Strong-Drive® SDS Heavy-Duty Connector Screw

Correct ledger attachment is crucial when building a deck that is attached to another structure. One of the most common causes for deck failure are ledgers that pull away from the primary structure, resulting in complete collapse.

The SDS provide an easy-to-install, high-strength alternative to lag screws and through-bolts

### SDS25300SS-R25












- 6.4 x 76 mm, 316 Stainless Steel



Other lengths available:  
38 mm — SDS25112SS-R25  
64 mm — SDS25212SS-R25

# Stainless-Steel Connectors for Corrosive Environments

Protect Structural Investments with Stainless-Steel Connections

Image	Model Number	Description	Thickness (mm)	Finish	Box Qty	Suitable Stainless Steel Fastener
Tension Tie						
	DTT2SS	85 x 175 x 40 mm	2	316L Stainless Steel	4	8 – SDS25112SS (screws and washer included)
Adjustable Post Base						
	ABU44SS	Suits 90 mm sq. post	Base 1.6 Strap 2.7	316L Stainless Steel	6	2 – M12 x 120 mm SS 316 Machine Bolts (by others)
	ABU66SS	Suits 140 mm sq. post	Base 2.7 Strap 3.5			2 – M12 x 170 mm SS 316 Machine Bolts (by others)
Concealed Post Base						
	CPT90SS	Suits 90 mm sq. post 3 – ½" (12.7mm) x 70 mm dowels included	Base 2.7 Knife Plate 3.5	316L Stainless Steel	6	2 – M12 SS 316 Anchor Bolts (by others)
Face Mount Joist Hanger						
	SAE250/46/1,5SS	Suits 45 x 115 – 150 mm joist	1.5	316L Stainless Steel	25	SSNA10; 12 – Face, 7 – Joist
	SAE340/46/1,5SS	Suits 45 x 160 – 220 mm joist				SSNA10; 22 – Face, 12 – Joist
	SAE250/50/1,5SS	Suits 50 x 115 – 150 mm joist				SSNA10; 12 – Face, 7 – Joist
	SAE340/50/1,5SS	Suits 50 x 160 – 215 mm joist				SSNA10; 22 – Face, 12 – Joist
Angle Bracket						
	E5SS	Reinforced Angle Bracket 65 x 75 x 48 mm	1.5	316L Stainless Steel	25	CSA5,0X35S
Framing Angle						
	A34SS	35 x 35 x 65 mm	1.5	316L Stainless Steel	25	8 – SSNA8
	A35SS	35 x 35 x 115 mm				9 or 12 – SSNA8 — depending on connection (refer to catalogue C-C-AU16 Rev 1.)
Hurricane Tie						
	H2.5ASS	35 x 35 x 150 mm	1.3	316L Stainless Steel	100	SSNA8; 5 – Rafter/Truss, 5 – Plates
	H3SS	40 x 40 x 115 mm				SSNA8; 4 – Rafter/Truss, 4 – Plates
Staircase Angle						
	TA9S	40 x 40 x 210 mm	2.7	316L Stainless Steel	20	SDS25112SS; 3 – Stringer, 2 – Tread
Adjustable Stair Stringer Connector						
	LSCSS	40 x 40 x 280 mm	1.3	316L Stainless Steel	10	SSNA10D — quantity dependant on configuration (refer to catalogue C-C-AU16 Rev 1.)
Image	Description	Finish	Dimensions	Model Number	Box Qty	Box / Ctn
Strong-Drive® SCNR Ring-Shank Connector Nail						
	Full round-smooth head, Annular-Ring Shank, Diamond point	316 Stainless Steel	40 mm x 3.75 mm	SSNA10D	126	10
				SSNA10D5	630	6
			40 mm x 3.32mm	SSNA8D	147	10
				SSNA8D5	735	6
Strong-Drive® SDS Heavy-Duty Connector Screw						
	¾" Hex Head Serrated threads, Patented 4-Cut® tip	316 Stainless Steel	6.4 mm x 38 mm	SDS25112SS-R25	25	10
			6.4 mm x 64 mm	SDS25212SS-R25	25	
			6.4 mm x 76 mm	SDS25300SS-R25	25	