### General Notes:

Coatings Available Outdoor environments are generally more corrosive to steel. If you choose to use ZMAX® or HDG finish or stainless steel material on an outdoor project, you should periodically inspect your connectors and fasteners or have a professional inspection performed. Regular maintenance, including water-proofing of the wood used in your outdoor project is also a good practice

- which meet the specifications of ASTM A153) ZMAX: Galvanized (G185) 1.85 oz. of zinc per square foot of surface area. (hot-dip galvanized per ASTM A653 total both sides). These products require hot-dip galvanized fasteners (fasteners
- 23 22 HDG - Hot Dip Galvanized: Products are hot-dip galvanized after fabrication (14 ga. and thicker). The coating weight increases with material thickness. The minimum specified coating weight is 2.0 oz. per square foot. (per ASTM A123 total both sides). These products require hot-dip galvanized fasteners (fasteners which meet the specifications of ASTM A153)
- When using stainless steel connectors, use stainless steel fasteners. When applications allow the use of ZMAX/HDG galvanized connectors, use HDG fasteners that meet the specifications of ASTM and are available from Simpson Strong-Tie. SS - Stainless Steel: Connectors are manufactured from Type 316L stainless steel, and provide greater durability against corrosion. Stainless-steel nails are required with stainless-steel products

ယ

- Due to many variables involved with outdoor construction, Simpson Strong-Tie cannot provide estimates on service life of connectors, anchors or fasteners. A153 or equivalent coating offered on Simpson Strong-Tie fasteners.
- 4 0 To obtain optimal performance from Simpson Strong-Tie products, the products must be installed properly and used in accordance with the installation instructions and design limits provided by Simpson
- 9876 Strong-Tie
  - All installation notes and guidelines within the current Wood Construction Connectors catalog shall apply for the connectors, anchors, and fasteners shown
  - Simpson Strong-Tie does not guarantee the performance or safety of products that are modified, improperly installed or not used in accordance with the design Simpson Strong-Tie reserves the right to change the specifications, design and models shown without notice or liability for such changes.
- All references to bolts or machine bolts (MB) are structural quality through bolts (not lag screws or carriage bolts) equal to or better than ASTM A307, grade A. Bolt holes shall be at least a minimum 1/32" and no more than a maximum of 1/16" larger than the bolt diameter per 2005 NDS Section 11.1.2
- 10. Unless noted otherwise, all references to standard cut washers refer to Type A plain washers (W) conforming to the dimensions shown in ASME B18.22.1 for the appropriate rod sizes
- 11. Unless stated otherwise, Simpson Strong-Tie cannot and does not make any representation regarding the suitability of use or load-carrying capacities of connectors installed with improper fasteners

#### D01 General Notes 16d Common 16dx21/2 10dx11/2 8dx11/2 SDS Screw ¼"x various lengths always fill, unless noted requirements: connector. urpose: to fasten a Round Holes Fill requirements always fill tight location easier Obound Holes astening a connector in a urpose: to make FIII requirements: connector to concrete to concrete or masonry fastening a connector always fill when or masonry. Purpose: to fasten a Hexagonal Holes $\bigcirc$ connector's strength or to achieve Max strength. the designer specifies Fill requirements: when Max nailing. Purpose: to increase a Triangular Holes $\triangleright$



Used to temporarily position and secure the connector for easier and aster installation

D02

Fasteners

The specified quantity, type and size of fastener must be installed in the correct holes on the Incorrect fastener selection or installation can compromise connector performance and could 2. Nail diameter assumes no coating. See technical bulletin T-NAILGUIDE for more information.
 The Simpson Strong-Dhive® SD structural-connector screw is the only screw approved for us 4. NAIL reference in tables: 16d = 16d common, 10d = 10d common

) structural-connector screw is the only screw approved for use with our connectors = 16d common, 10d = 10d common

performance and could lead to failure.

connector to achieve published loads

Fastening Identification

Fastener Notes:

0.162"



This feature guides the nail into the joist and header at a 45° angle. Dome Nailing

and header, distributing the load through two points on each joist Double Shear Nailing nail for greater strength The nail is installed in the joist









Installation Details for Simpson Strong-Tie<sup>®</sup> Connectors and Fasteners Used in the Construction of Wood Decks

Fill requirements: none a connector to make installing Purpose: to temporarily faster Diamond Holes



SIMPSON STRONG-TIE COMPANY INC. NORTHEAST: 2600 International Street, Columbus, Ohio 43228 NORTHWEST: 5151 South Airport Way, Stockton, California 94588 SOUTHEAST: 2221 Country Lane, McKinney, Texas 75069 SOUTHWEST: 12246 Holly Street, Riverside, California 92509

## with SS when ordering. 2. Refer to current Wood Construction Connectors catalog for additional information. Indicates connector is available in stainless steel. Replace Z in model number

odel No.	1 9/16	Typical LI Installe  H H H H H H H H H H H H H H H H H H	Typical LUS28Z Installation Itons (In.)  H  B  H  B  H  13/4	Nalls	For installated recording to the logons with www.si  10x4)  SD #31  SD #31  LUS21  LUS21  Joist	For installations into single 2x headers or leadgers, use the specified full length fasteners into the loist and the following fasteners into the header for reduced loads in accordance with www.strongite.com:  10x11/2 nails for installations with Nails SD #9x11/2 for LUS282 and LUS2102 installations with SD Screws  SD #10x11/2 for LUS26-2Z and LUS210-2Z installations with SD Screws  Fasteners  Fasteners  Joist Header Joist  4-10d	neaders or negative sor neight fasteners asteners into accordance accordance with Nalls 4LUS210Z vs and ith SD Screws  Trews  Joist
odel No.		mensions (i		· Na	.   <del>                                   </del>	SD So	crews
	W	Н	В	Header	Joist	Header	tsioL
26Z	1 9/16	4 3/4	1 3/4	4-10d	4-10d	=	-
28Z	1 9/16	8/5 9	1 3/4	6-10d	4-10d	6-SD #9x21/2	4-SD #9x21
210Z	1 9/16	7 13/16	1 3/4	8-10d	4-10d	8-SD #9x21/2	4-SD #9x21
26-2Z	3 1/8	4 7/8	2	4-16d	4-16d	4-SD #10x21/2	4-SD #10x2
210-2Z	3 1/8	9	2	8-16d	6-16d	8-SD #10x21/2	6-SD #10x2

LUC	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	•	•	•	0	•
Typical HUC Inst				<u></u>	<u> </u>	



LUS hangers install with double shear nailing.

nstallation:

- For HUC installations, models have triangle and Installation: nd and triangle holes (fastener quantities listed fil nd holes. To achieve maximum loads, fill both
- the following fasteners into the header for the specified full length fasteners into the joist installations into single 2x headers or ledgers,
- w strongtie com:

uced loads in accordance with

10dx1½ nails for installations with Nails SD #9x1½ for LUC26Z and LUC210Z installations with SD Screws

	A A	<u></u>		•	z –	_	•	=
Typical HUC Installation		W I FE	a	• For I				
	• •	redu	ਰ ।	ĕ º	¥	≦	≦	

	<u> </u>	neione (	-			Fasteners	
Model No.	Dillio	Dillicitatoria (iii.)	III.)	N	Nails	SD Screws	rews
	M	Н	В	Header	Joist	Header	Joist
 LUC26Z	1 9/16	4 3/4	1 3/4	6-10d	4-10dx1½	1 9/16   4 3/4   1 3/4   6-10d   4-10dx1½   6-SD #9x2½	4-SD #9x11/2
 LUC210Z	1 9/16	1 9/16 7 3/4	1 3/4	10-10d	6-10dx1½	1 3/4   10-10d   6-10dx1½   10-SD #9x2½	6-SD #9x1½
HUC26-2Z	3 1/8	5 3/8	2 1/2	3 1/8 5 3/8 2 1/2 12-16d 6-10d	6-10d	ı	-
 HUC28-2Z	3 1/8	7	2 1/2	2 1/2 14-16d	6-10d	ı	ı
 NUC210-2Z 3 1/8 8 13/16 2 1/2 18-16d 10-10d	3 1/8	8 13/16	2 1/2	18-16d	10-10d	-	ı
1. D indicates connector is available in stainless steel. Replace Z in model number	onnector is	available i	n stainle:	ss steel. Rep	lace Z in mode	number	

 $\bigcirc$ 

6-SD #10x21/2 4-SD #10x21/2 4-SD #9x21/2 4-SD #9x21/2

00

2. Refer to current Wood Construction Connectors catalog for additional information. with SS when ordering.

## D04 LUC, **HUC Joist Hangers**

Joist must be constrained against rotation (for example, with solid blocking) when using a single LS per connection.

Field skewable, bend one time only.

nstal ation:

D03

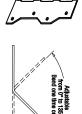
**LUS Joist Hangers** 

Installation:

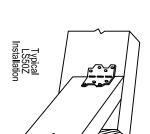
or bevel cut. The joist may be square cut

skew

accommodate a 40° to 50° These hangers will normally









S

	Model No.	L (in)	Fasteners
	LS30Z	3 3/8	6-10d
V	LS50Z	4 7/8	8-10d
	Z02ST	6 3/8	10-10d

with SS when ordering.

2. Refer to current Wood Construction Connectors catalog for additional information. Indicates connector is avalable in stainless steel. Replace Z in model number

D05

SUR/SUL

. 45°

**Skewed Joist Hangers** 

D06

S

Framing Angles

2. Refer to current Wood Construction Connectors catalog for additional information.

☐ indicates connector is available in stainless steel. Replace Z in model number

8 11/16 8 1/8 S

2 5/8

1 7/16

2 3/8

14-16d 10-16d 6-16d Header

6-16dx21/2 10-10dx1½ 6-10dx11/2 Joist

with SS when ordering.

SUR/L210-2Z SUR/L210Z SUR/L26Z

2x10, 12 (2) 2x10, 12

1 9/16 3 1/8

> 2 ~

1 1/8

1 5/16 1 5/16

1 1/8 2

2x6, 8

9/16 ≶

Model No.

Joist Size

Dimensions (in.)

**Fasteners** 

σ

₽

SUL Skewed Left Hanger (SUR is Skewed Right)

Typical SUR Installation

Installation Details for Simpson Strong-Tie® Connectors and Fasteners Used in the Construction of Wood Decks



#### SIMPSON STRONG-TIE COMPANY INC.

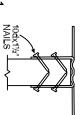
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# 45°up or down. LSSU210Z

### Installation:

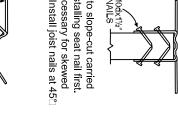
- Follow 3-step installation sequence for skewed or sloped/skewed applications
- Do not substitute 10dx1½ nails for face nails
- To see an installation video on this product, visit www.strongtie.com



STEP 1

member, installing seat nail first installation. Install joist nails at 45° No bevel necessary for skewed Nail hanger to slope-cut carried





STEP 3

(see footnote 1). Install nails at an member, acute angle side first Attach hanger to the carrying



the header. Bend one time only. centerline of slots until it meets other flange back along

D07

LSU,

LSSU Adjustable Joist Hangers

nstallation:

. Refer to current Wood Construction Connectors catalog for additional information . For skewed LSSU, the inner most face fasteners on the acute angle side are not LSSU210Z

1 9/16

8 1/2 4 7/8 I

10-10d 6-10d

7-10dx1 1/2

9/16 ≶

1 1/2 1 5/8

5-10dx1 1/2

⊳

Header

Joist

Model No.

Dimensions (in.)

**Fasteners** 

ABA44Z

ABU44Z

Typical ABA Installation (ABU Similar)

requires a standard cut washer

in accordance with www.strongtie.com. or mechanical anchors, select and instal anchors. For Simpson Strong-Tie epoxy ABA, ABU - for pre-pour installed

nut and the base. Washers are supplied Products require washers between the with the ABU but not the ABA, which

Mode <u>S</u>

Dimensions (in )

Post Size

I

픎

D<sub>a</sub>

Nails

Anchor

4x4

9/16 ≶

3 1/8

1/16

1/2

ယ

1 3/4

12-16d 6-10d

8-SD #10x11/2

# 0

### nstallation:

- Embed into wet concrete up to the bottom of the 1" standoff base plate. A 2" load. Holes in the bottom of required to obtain the full minimum side cover is
- before installation of the Allow concrete to cure concrete flow.

the straps allow for free

### 12-SD #10x11/2 6-SD #9x11/2 SD Screws Post Fasteners Machine Bolts Š N Da. 1/2 Typical PBS

		_	Dimensions (in.)	ons (in			Post Fasteners	);s	
	Model No.	W	-	<b>-</b>	6	Naile	en earnin	Machine Bolts	ne Bol
		*	-	-	ПВ	NallS	3D 3Clews	Qty.	Dia.
	PBS44AHDG	3 9/16	3 1/2	6 1/4	3 7/16	14-16d	PBS44AHDG 3 9/16 3 1/2 6 1/4 3 7/16 14-16d 14-SD #10x11½	2	1/2
	PBS66HDG	5 1/2	5 3/8	6 1/2	5 1/2   5 3/8   6 1/2   3 11/16   14-16d	14-16d	-	2	1/2
	<ol> <li>Refer to current Wood Construction Connectors catalog for additional information.</li> </ol>	Vood Constr	ruction Cor	nnectors o	atalog for ac	lditional infon	nation.		
60U	D09  PBS Post Bases	Post	Bas	Ses					

D08

ABA,

**ABU Post Bases** 

2. Refer to current Wood Construction Connectors catalog for additional information. I. 
 Indicates connector is available in stainless steel. Replace Z in model number

ABA66Z ABU46Z

5 1/4 5

3 1/8

ABA46Z ABU44Z ABA44Z

5 3/16

3 1/8 5 1/2

4x6 4x6 4x4

3 9/16 3 9/16 3 9/16

5

2 5/8

12-16d 8-16d

1/2

8-SD #10x11/2

N

1/2

ABU88Z ABU66Z

8x8

7 1/2 5 1/2 5 1/2

6x6 6x6

6 1/16

1 3/4

2 - 5/8 5/8 5/8 5/8 5/8 5/8

18-16d 12-16d 8-16d

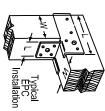
Installation Details for Simpson Strong-Tie<sup>®</sup> Connectors and Fasteners Used in the Construction of Wood Decks

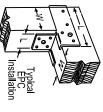


#### SIMPSON STRONG-TIE COMPANY INC.

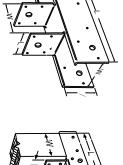
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#### D12 D10 $\Box$ $\Box$ CBSQ44-SDS2HDG $\Box$ number with SS when ordering. LPC6Z Refer to current Wood Construction Connectors catalog for additional information indicates connector is available in stainless steel. Replace -SDS2HDG in model CBSQ46-SDS2HDG 2. Refer to current Wood Construction Connectors catalog for additional information CBSQ66-SDS2HDG LPC4Z AC6Z AC4Z CBSQ88-SDS2HDG CBSQ86-SDS2HDG I. Indicates connector is available in stainless steel. Replace Z in model number LCE4Z Model No. AC CBSQ Post Bases AC, ГурісаІ CBSC Model No. LPC, 5 9/16 3 9/16 Dimensions (in.) 5 1/2 9/16 ≨ LPCZ Post Size 8x8 6x8 6x6 4x6 4x4 LCE Post Caps 5 3/8 5 8 1/2 6 1/2 1/2 1/2 3 9/16 3 9/16 S Beam 14-16d 8-10d 14-16d 14-16d 8-10d ≦ 1/2 1/2 1/2 Nails Typical LCE4Z Installation 5 5/16 7 3/8 5 3/8 5 1/2 3 1/2 Dimensions (in.) 10-16d 8-10d 14-16d 14-16d **∑** 8-10d Post 7 13/16 For full loads, a minimum of 3" Installation: Install Simpson Strong-Tie SDS 6 6 7 1/8 6 14-SD #10x1½ side cover shall be provided. installation of the post. load.) 14-SD #10x1½ 14-SD #10x11/2 Allow concrete to cure before screws will not achieve the same with a %" hex head driver. (Lag provided with the column base, 1/4" x 2" wood screws, which are o 8-SD #9x11/2 **Fasteners** 1/8 1/8 7/8 Beam Install in pairs. Installation: For LCE4Z installations on for more information. refer to www.strongtie.com mitered corner conditions, 8 11/16 8 11/16 8 11/16 ∞ ∞ SD Screws 3/8 3/4 10-SD #10x11/2 14-SD #10x11/2 14-SD #10x11/2 8-SD #9x11/2 12-SDS 1/4"x2" 12-SDS 1/4"x2" 14-SDS 1/4"x2" 14-SDS 1/4"x2" 14-SDS 1/4"x2" Number of SDS Screws Post









			Dlmer	Dimensions (in.)	2				F,	Fasteners		
Model	Post							Nalls			SD Screws	, 
No.	Size	٧í	W2	Ξ	7	2	P	Beam	m	Page 1	Beam	ME
							160.1	ЭЧ	EPC	rost	PC	EPC
PC44-16Z	4x4	3 9/16	3 9/16	2 5/8	11	7 5/16	8-16d	3 9/16   3 9/16   2 5/8   11   7 5/16   8-16d   12-16d   8-16d		8-SD #10x1½	8-SD 12-SD #10x1½ #10x1½	8-SD #10x1½
PC46-16Z	4x6	3 9/16 5 1/2	5 1/2	2 5/8	13	9 1/4	8-16d	25/8 13 91/4 8-16d 12-16d 8-16d	8-16d	-	-	1
PC66-16Z 6x6 5 1/2 5 1/2 4 9/16 13 9 1/4 8-16d 12-16d 8-16d	6x6	5 1/2	5 1/2	4 9/16	13	9 1/4	8-16d	12-16d	8-16d		-	1
1. Refer to current Wood Construction Connectors catalog for additional information.	rrent Wo	od Constr	uction Co.	nnectors c	atalog	y for additi	onal infor	nation.				

13

PC,

**EPC Post Caps** 

#### Installation Details for Simpson Strong-Tie<sup>®</sup> Connectors and Fasteners Used in the Construction of Wood Decks

### SIMPSON

Refer to current Wood Construction Connectors catalog for additional information

BC, BCS Post Caps

. ☐ indicates connector is available in stainless steel. Replace Z in model number

0000

BCS2-3/6Z BCS2-2/4Z

4 5/8 3 1/8

5 9/16 4 3/8 2 7/8

2 15/16 2 15/16 3 3/8

12-16d

6-16d

3 9/16

2 7/8 4 3/8 2 7/8

2 15/16 3 5/16

> 8-10d 12-16d 6-16d

6-10d 12-16d 6-16d

8-SD #9x21/2

6-SD #9x21/2

4 3/8 2 7/8

3 3/8

BC6Z BC4Z

3 9/16 5 1/2

3 9/16 5 1/2

2 7/8

Mode

8

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**≶** 

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7

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돐

Nails

SD Screws

Flange

Post Flange

Post Flange

6-SD #10x11/2 Beam Flange

6-SD #10x11/2

Dimensions (in.)

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(BC Similar)

Typical BCS Installation (BC Similar)

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BC: Do not install bolts into

pilot holes. into the post below angle through the beam beam; drive nails at an Installation:

BCS: Install dome nails on

#### D16 D14 $\Box$ $\Box$ Q $\Box$ with SS when ordering H2.5Z Installation: Mode No. number with SS when ordering CCQ48HDG Use all specified fasteners Refer to current Wood Construction Connectors catalog for additional information CCQ66HDG CCQ46HDG CCQ44HDG CCQ3-6HDG indicates connector is available in stainless steel. Replace HDG in model CCQ68HDG Refer to current Wood Construction Connectors catalog for additional information Model No. H Hurricane indicates connector is available in stainless steel. Replace Z in model number 5-10dx11/2 5-8dx11/2 6-8dx11/2 To Joist Beam Width 3 1/8 **ECCQ Post Caps** 6x 8 8 4× **4 4** Typical H1Z and H2.5Z 5-10dx1½ To Beam 5-8dx11/2 4-8dx11/2 CCQ 5 1/2 3 1/4 5 1/2 3 5/8 3 5/8 3 5/8 ≤ Fasteners lles 7 1/2 7 1/2 5 1/2 5 1/2 5 1/2 3 5/8 **≶** 5-SD #9x11/2 5-SD #9x11/2 6-SD #9x11/2 Dimensions (in.) To Joist င္တ 그 ⇉ ⇉ SD Screws ニ ECCQ 8 1/2 8 1/2 8 1/2 8 1/2 8 1/2 8 1/2 4-SD #9x11/2 5-SD #9x11/2 5-SD #9x11/2 To Beam ECCQ H1Z Beam No. of SDS 1/4"x 6 6 6 6 6 6 21/2" Screws Post 4 4 4 4 4 4 Beam depth must be a minimum 7" driver SDS screws install best with low speed ½" drill H8Z Typical CCQ Installation

# CC, **ECC Post Caps**

# <u>15</u>

number with SS when ordering Refer to current Wood Construction Connectors catalog for additional information

□ Indicates connector is available in stainless steel. Replace HDG in model

 $\bigcirc$ 

CC3-1/4-6HDG

3 1/8 3 1/8

=  $\Rightarrow$ ဂ္ဂ

6 1/2 6 1/2 포

5/8

~ 2

5/8

4

5/8

N

CC3-1/4-4HDG

Model No.

Beam Wldth

Dimensions (in.)

Machine Bolts

≤

Dla

Beam ECC

႙

 $\Box$  $\Box$ 

CC66HDG CC44HDG

> S S 4×

5 1/2 3 5/8 3 1/4 3 1/4

5 1/2 3 5/8 5 1/2 3 5/8 **≶** 

 $\stackrel{\rightharpoonup}{}$ 

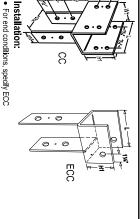
7 1/2 5 1/2 7 1/2 7 1/2 ECC

6 1/2

5/8

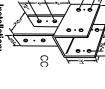
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2 Κ. N



• Bolt holes shall be a minimum  $\chi_2$ " to a maximum  $\chi_6$ " larger than the bolt diameter • Contact engineered wood manufacturers for connections that are not through the

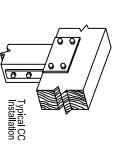
Beam depth must be at least as tall as H1.

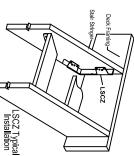


For end conditions, specify ECCQ

Install Simpson Strong-Tie SDS 1/4"

the column cap, with a %" hex head 2½" screws, which are provided with nstallation:





#### indicates connector is available in stainless steet. Replace Z in model number with SS when ordering. Stainless steet models must be fastened with nails. Refer to current Wood Construction Connectors catalog for additional information. Stair Stringer Connector 8-10dx11/2 Wide Face Stringer Nails Narrow Face 1-10dx1½ Stringer **Fasteners** 8-SD #9x11/2 Rim Joist 8-SD #9x11/2 Wide Face SD Screws Stringer 1-SD #9x11/2 Narrow Face Stringer

 $\Box$ 

8-10dx1½ Rim Joist

LSC

Mode No.

Installation Details for Simpson Strong-Tie<sup>®</sup> Connectors and Fasteners Used in the Construction of Wood Decks

nstallation:

LSCZ

The fastener that is installed into the bottom edge of the stringer must go into the second-to-last hole.

Tabs on the LSCZ must be positioned to the inside of the stairs.

A minimum distance of 3/4" measured from the lowest rim-joist fastener to the edge of rim joist is required

Before fastening, position the stair stringer with the LSCZ on the carrying member to verify where the bend

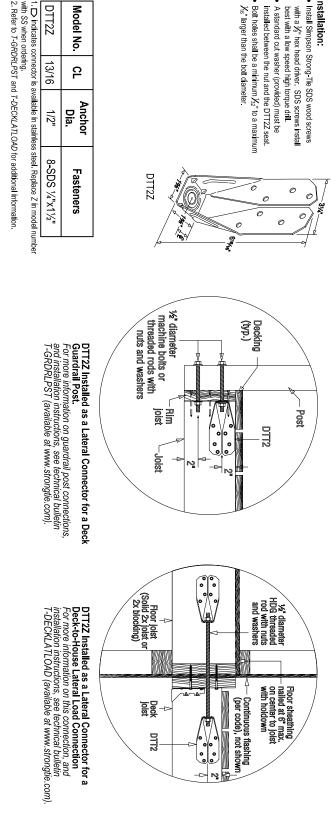


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NORTHEAST: 2600 International Street, Columbus, Ohio 43228 NORTHWEST: 5151 South Airport Way, Stockton, California 94588 SOUTHEAST: 2221 Country Lane, McKinney, Texas 75069 SOUTHWEST: 12246 Holly Street, Riverside, California 92509

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#### D18 $\bigcirc$ $\bigcirc$ $\Box$ nstallation: 2. Refer to current Wood Construction Connectors catalog for additional information TA10Z TA10Z TA9Z with SS when ordering Model treads. For double 2x6 treads, install Use all specified fasteners. □ indicates connector is available in stainless steel. Replace Z in model number screws installed into the TA10Z inverted with 4 <u>8</u> TA9Z (TA10Z length = 10 1/4") Installation: TA Tread Angle Bolt holes shall be a minimum $\chi_2$ to a maximum with a %" hex head driver. SDS screws install best with a low speed high torque drill. Install Simpson Strong-Tie SDS wood screws $\chi_{ m e}$ " larger than the bolt diameter installed between the nut and the DTT2Z seat. A standard cut washer (provided) must be 4-SDS 1/4"x11/2" 3-SDS 1/4"x11/2" 3-SDS 1/4"x11/2" Stringer Fasteners 3-SDS 1/4"x11/2" 4-SDS 1/4"x11/2" 2-SDS 1/4"x11/2" Tread TA10Z Inverted Installation DTT2Z 0 0



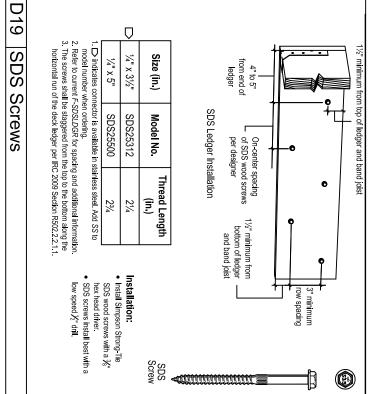
D20

DTT2Z Deck Tension Lie

 $\Box$ 

DTT2Z

Model No.



Installation Details for Simpson Strong-Tie<sup>®</sup> Connectors and Fasteners Used in the Construction of Wood Decks



SIMPSON STRONG-TIE COMPANY INC.

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