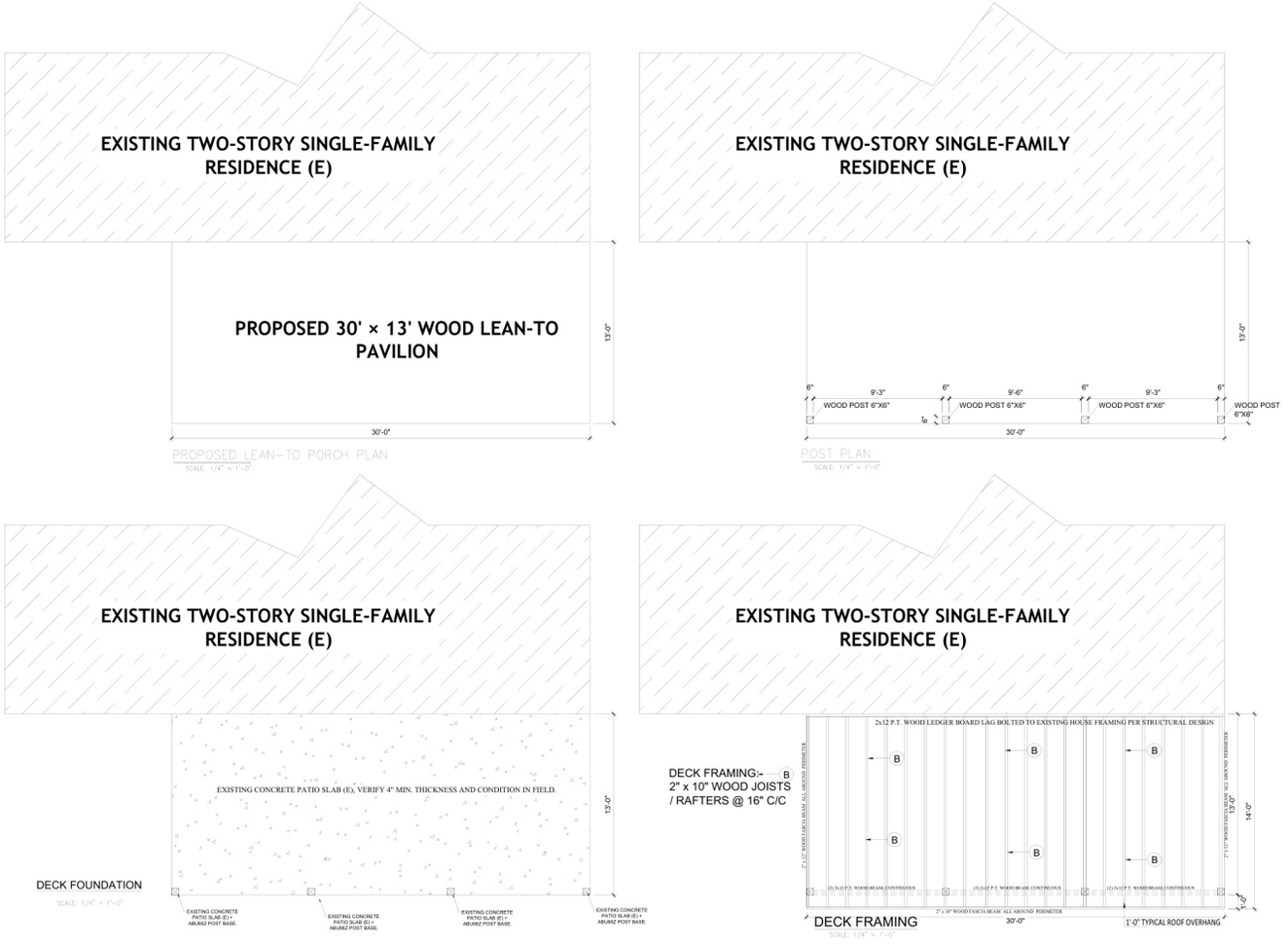
Savannah Covered Porch

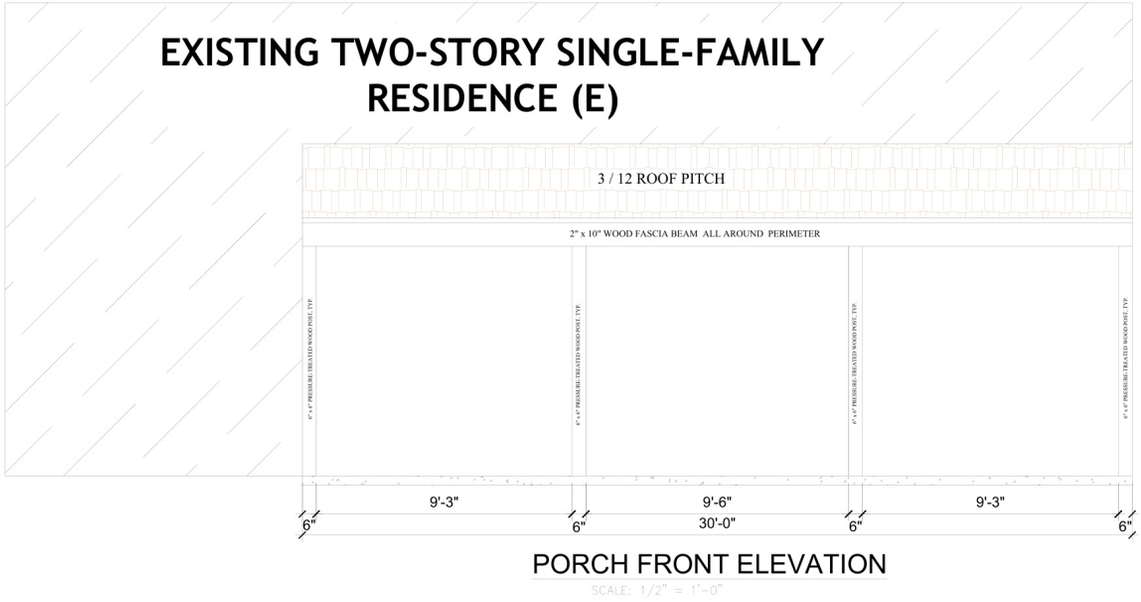
S-01 Structural plans



PROVIDE CONTINUOUS LOAD PATH FROM ROOF RAFTERS TO BEAMS, POSTS, POST BASES, ANCHORS, AND SUPPORTING CONCRETE SLAB. PROVIDE HURRICANE TIES, POST BASES, LEDGER FASTENERS, AND BEAM-TO-POST CONNECTORS AS REQUIRED TO RESIST WIND UPLIFT AND LATERAL LOADS.

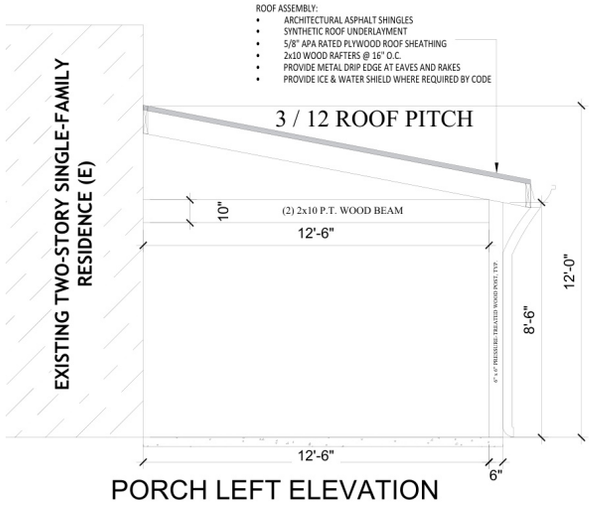
Savannah Covered Porch

S-02 Porch elevations

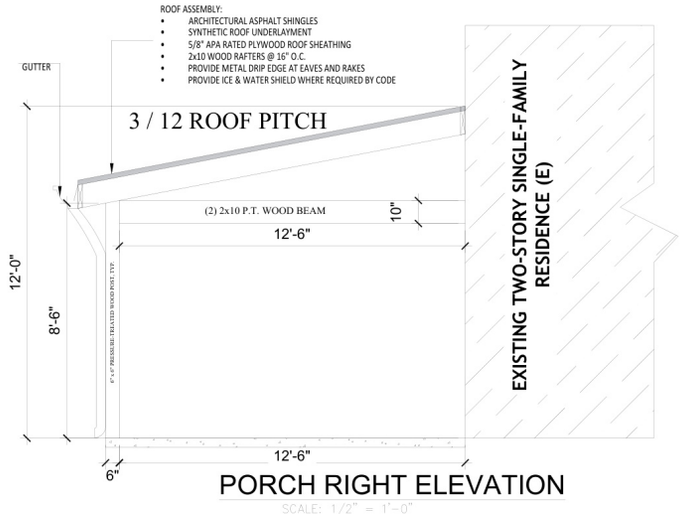


PORCH FRONT ELEVATION

SCALE: 1/2" = 1'-0"



PORCH LEFT ELEVATION



PORCH RIGHT ELEVATION

SCALE: 1/2" = 1'-0"

Source page 4 | Drawing excerpt for reference

Savannah Covered Porch

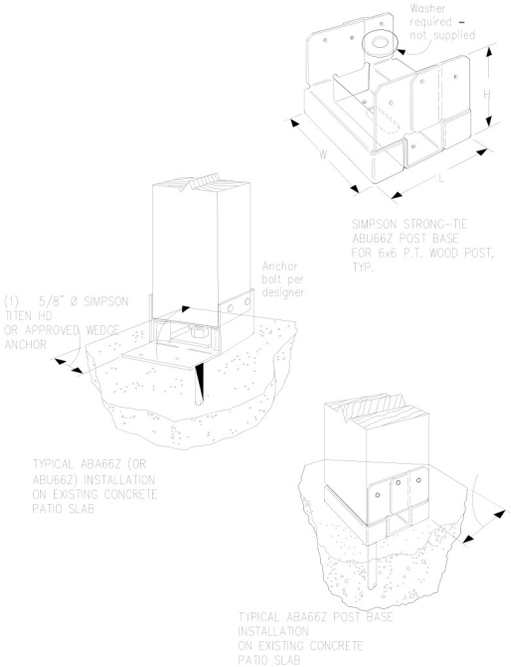
S-03 Sections and connections

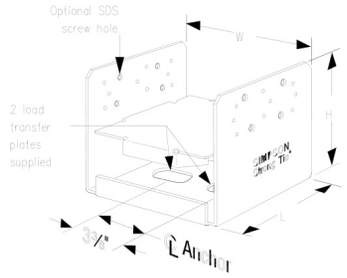
SIMPSON STRONG-TIE ABU66Z POST BASE, TYP.
FOR 6x6 P.T. WOOD POST

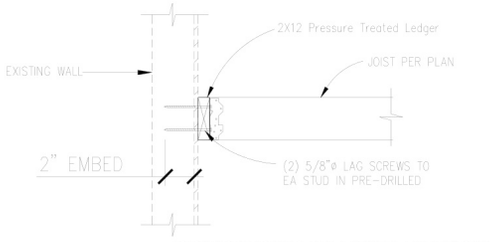
ANCHOR:
5/8" Ø ANCHOR PER STRUCTURAL DESIGN
TITEN HD OR APPROVED WEDGE ANCHOR

FASTENERS:
(12) 16d NAILS OR MANUFACTURER-APPROVED FASTENERS

INSTALLATION:
INSTALL PER SIMPSON STRONG-TIE MANUFACTURER REQUIREMENTS.
VERIFY EXISTING CONCRETE SLAB THICKNESS AND CONDITION IN FIELD.

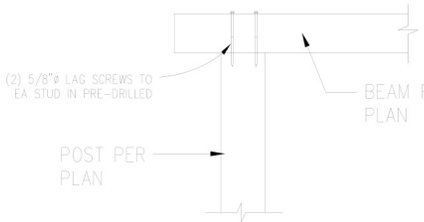




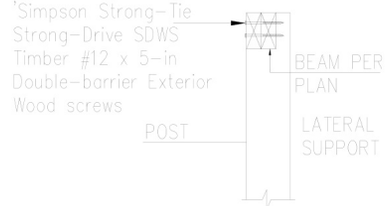


JOIST TO EXISTING WALL DETAIL VIA LEDGER

2x12 P.T. WOOD LEDGER ATTACHED TO EXISTING HOUSE STRUCTURAL FRAMING, NOT SIDING/SHEATHING. PROVIDE FLASHING ABOVE LEDGER.



TS BEAM TO TS COLUMN



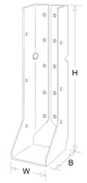
BEAM TO NOTCHED POST CONNECTION DETAIL

FOUNDATION GENERAL NOTES

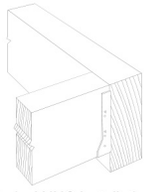
1. EXISTING CONCRETE PATIO SLAB SHALL REMAIN.
2. VERIFY EXISTING CONCRETE SLAB THICKNESS, REINFORCEMENT, CONDITION, AND STRUCTURAL ADEQUACY PRIOR TO INSTALLATION OF POST BASES.
3. 6x6 PRESSURE-TREATED WOOD POSTS SHALL BE ANCHORED TO THE EXISTING CONCRETE SLAB USING SIMPSON STRONG-TIE ABU66Z (OR APPROVED EQUIVALENT) POST BASES.
4. PROVIDE SIMPSON TITEN HD SCREW ANCHORS OR APPROVED WEDGE ANCHORS AS SPECIFIED BY THE ENGINEER OF RECORD. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
5. ALL POST BASES SHALL PROVIDE A 1" MINIMUM STANDOFF BETWEEN WOOD POSTS AND CONCRETE.
6. USE HOT-DIP GALVANIZED OR STAINLESS STEEL CONNECTORS, ANCHORS, BOLTS, NUTS, AND WASHERS COMPATIBLE WITH PRESSURE-TREATED LUMBER.
7. IF THE EXISTING SLAB IS FOUND TO BE CRACKED, DETERIORATED, OR STRUCTURALLY INADEQUATE, STOP WORK AND NOTIFY THE ENGINEER OF RECORD FOR FURTHER DIRECTION.
8. ALL FOUNDATION ANCHORAGE SHALL PROVIDE A CONTINUOUS LOAD PATH TO RESIST GRAVITY, LATERAL, AND UPLIFT LOADS.
9. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION.
10. DO NOT CORE, CUT, OR REMOVE ANY PORTION OF THE EXISTING CONCRETE SLAB WITHOUT ENGINEER APPROVAL.

Savannah Covered Porch

S-04 Framing details



LUC



Typical HUC Installation
(LUC Similar)

Installation:

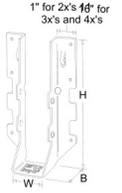
- For HUC installations, models have triangle round and triangle holes (fastener quantities listed fill both holes).
- For installations into single 2x headers or ledgers, use the specified full length fasteners into the joist and the following fasteners into the header for reduced loads in accordance with www.strongtie.com:
  - 10dx1½ nails for installations with Nails
  - SD #9x1½ for LUC26Z and LUC210Z installations with SD Screws

Model No.	Dimensions (in.)			Fasteners			
				Nails		SD Screws	
	W	H	B	Header	Joist	Header	Joist
LUC26Z	1 9/16	4 3/4	1 3/4	6-10d	4-10dx1½	6-SD #9x2½	4-SD #9x1½
LUC210Z	1 9/16	7 3/4	1 3/4	10-10d	6-10dx1½	10-SD #9x2½	6-SD #9x1½
HUC26-2Z	3 1/8	5 3/8	2 1/2	12-16d	6-10d	-	-
HUC28-2Z	3 1/8	7	2 1/2	14-16d	6-10d	-	-
HUC210-2Z	3 1/8	8 13/16	2 1/2	18-16d	10-10d	-	-

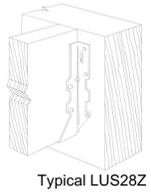
Indicates connector is available in stainless steel. Replace Z in model number with SS when ordering.
2. Refer to current Wood Construction Connectors catalog for additional information.

LUC, HUC Joist Hangers by SIMPOSON STRONG TIE

NTS



LUS



Typical LUS28Z Installation

Installation:

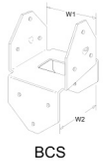
- LUS hangers install with double shear nailing.
- For installations into single 2x headers or ledgers, use the specified full length fasteners into the joist and the following fasteners into the header for reduced loads in accordance with www.strongtie.com:
  - •• 10dx1½ nails for installations with Nails
  - •• SD #9x1½ for LUS28Z and LUS210Z installations with SD Screws
  - •• SD #10x1½ for LUS26-2Z and LUS210-2Z installations with SD Screws

Model No.	Dimensions (in.)		Fasteners				
				Nails		SD Screws	
	W	H	B Header Joist			Header	Joist
LUS26Z			1 3/4	4-10d	4-10d	-	-
LUS28Z	1 9/16	6 5/8	1 3/4	6-10d	4-10d	6-SD #9x2½	4-SD #9x2½
LUS210Z	1 9/16	7 13/16	1 3/4	8-10d	4-10d	8-SD #9x2½	4-SD #9x2½
LUS26-2Z	3 1/8	4 7/8	2	4-16d	4-16d	4-SD #10x2½	4-SD #10x2½
LUS210-2Z	3 1/8	9	2	8-16d	6-16d	8-SD #10x2½	6-SD #10x2½

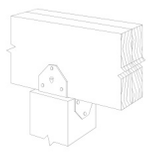
Indicates connector is available in stainless steel. Replace Z in model number with SS when ordering.
2. Refer to current Wood Construction Connectors catalog for additional information.

LUS Joist Hangers by SIMPOSON STRONG TIE

NTS



BCS
(BC Similar)



Typical BCS Installation
(BC Similar)

Installation:

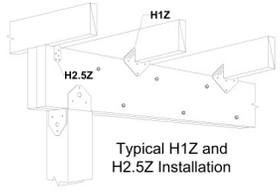
- BCS: Install dome nails on beam; drive nails at an angle through the beam into the post below.
- BC: Do not install bolts into pilot holes.

Model No.	Dimensions (in.)							Fasteners			
	W1	W2	L1	L2	H1	H2		Nails		SD Screws	
								Beam Flange	Post Flange	Beam Flange	Post Flange
BC4Z	3 9/16	3 9/16	2 7/8	2 7/8	3	3		6-16d	6-16d	6-SD #10x1½	6-SD #10x1½
BC6Z	5 1/2	5 1/2	4 3/8	4 3/8	3 3/8	3 3/8		12-16d	12-16d	-	-
BCS2-2/4Z	3 1/8	3 9/16	2 7/8	2 7/8	2 15/16	2 15/16		8-10d	6-10d	8-SD #9x2½	6-SD #9x2½
BCS2-3/6Z	4 5/8	5 9/16	4	3/8	2 7/8	3 5/16	2 15/16	12-16d	6-16d	-	-

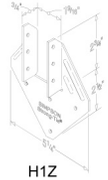
indicates connector is available in stainless steel. Replace Z in model number with SS when ordering.
2. Refer to current Wood Construction Connectors catalog for additional information.

BC, BCS Post Caps by SIMPOSON STRONG TIE

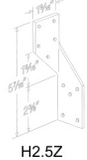
NTS



Typical H1Z and
H2.5Z Installation



H1Z



H2.5Z

Installation:

- Use all specified fasteners.

Model No.	Fasteners			
	Nails		SD Screws	
	To Joist	To Beam	To Joist	To Beam
H1Z	6-8dx1½	4-8dx1½	6-SD #9x1½	4-SD #9x1½
H2.5Z	5-8dx1½	5-8dx1½	5-SD #9x1½	5-SD #9x1½
H8Z	5-10dx1½	5-10dx1½	5-SD #9x1½	5-SD #9x1½



H8Z

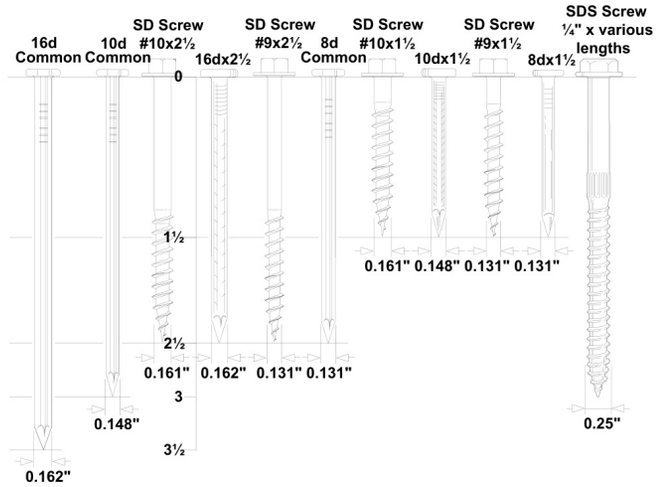
1. indicates connector is available in stainless steel. Replace Z in model number with SS when ordering.
2. Refer to current Wood Construction Connectors catalog for additional information.

H1Z by SIMPOSON STRONG TIE

NTS

Savannah Covered Porch

S-05 Fastening details



Fastener Notes:

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

Fasteners by SIMPOSON STRONG TIE

NTS

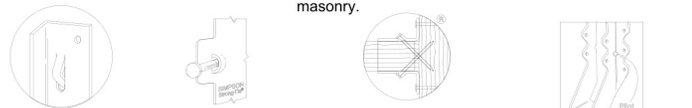
Round Holes
Purpose: to fasten a connector.
Fill requirements: always fill, unless noted otherwise.

Obound Holes
Purpose: to make fastening a connector in a tight location easier.
Fill requirements: always fill.

Hexagonal Holes
Purpose: to fasten a connector to concrete or masonry.
Fill requirements: always fill when fastening a connector to concrete or masonry.

Triangular Holes
Purpose: to increase a connector's strength or to achieve Max strength.
Fill requirements: when the designer specifies Max nailing.

Diamond Holes
Purpose: to temporarily fasten a connector to make installing easier.
Fill requirements: none.



Speed Prongs
Used to temporarily position and secure the connector for easier and faster installation.

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

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

Pilot Holes
Tooling holes for manufacturing purposes. No fasteners required.

Fastening Identification