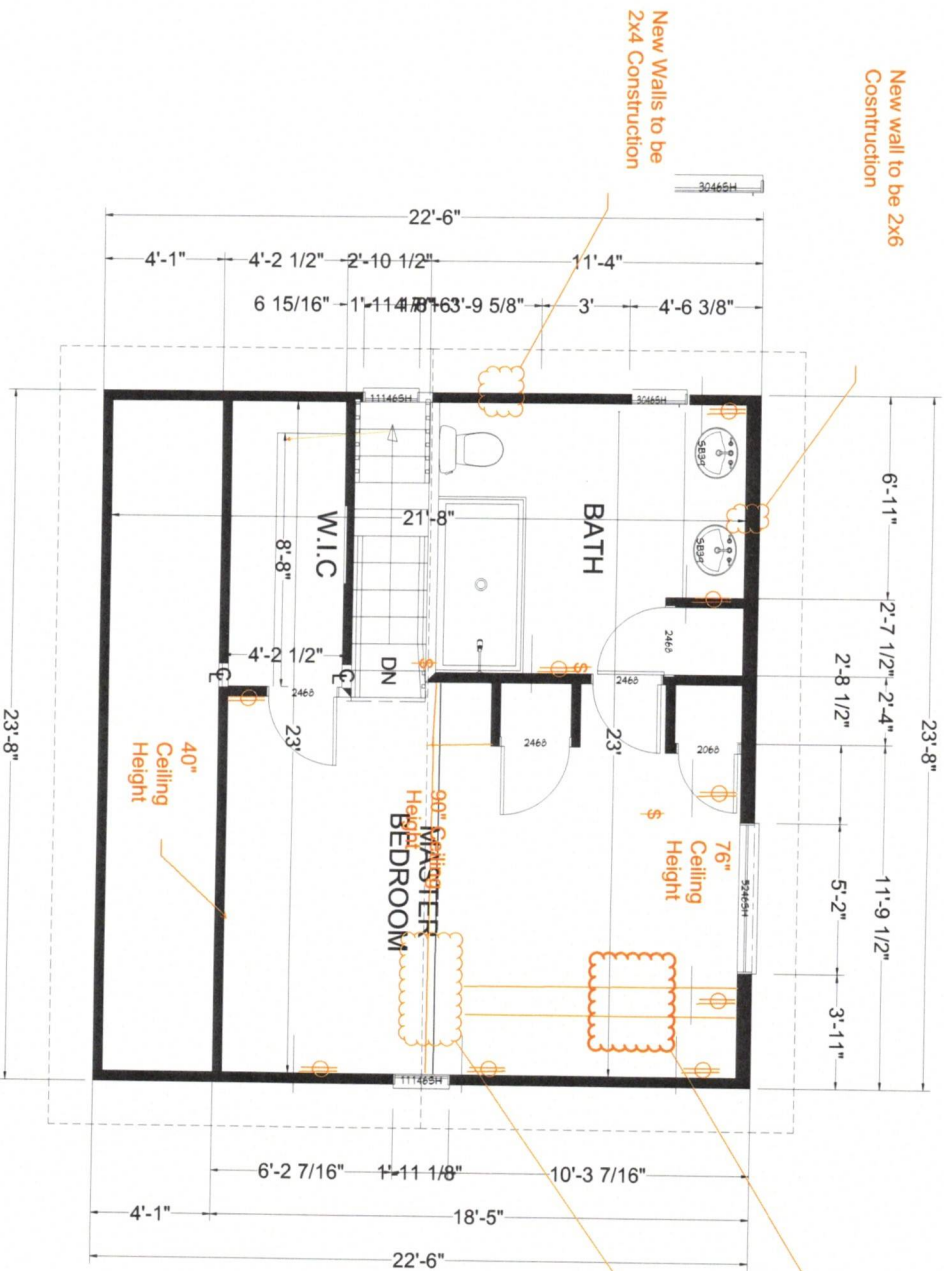




LIVING AREA
532 SQ. FT.

Notes: All New Framing to be 2019 Residential Code of Ohio.
All Wall and Roof Cavity Insulation to be Rock-wool.
All Windows to be Insulating Low-E Glass

Date:	03/09/2025
Scale:	1/2"=1'-0"
Drawn By:	MAXX
Job No:	03-25
Sheet:	

Rev.	Date	By

Sheet Title:
DORMER PLAN

Contractor: _____

Owner: _____

Address: _____

Stamp / Seal:

Side Porch: Reconstruct existing walls with 2x6" construction to replace rotten wood. Zip sheathing and Hardie Board Siding.

New Construction:
Wall Section to be 2x4 Construction with Zip Sheathing and Hardie Board Siding. Fully Insulated.



Stamp / Seal:

Owner:

Address:

Sheet Title:

NORTH ELEVATION VIEW

Contractor:

Rev:

By:

Date:

Date:

Date:

03/09/2025

Scale:

1/2"=1'-0"

Drawn By:

MAXX

Job No.:

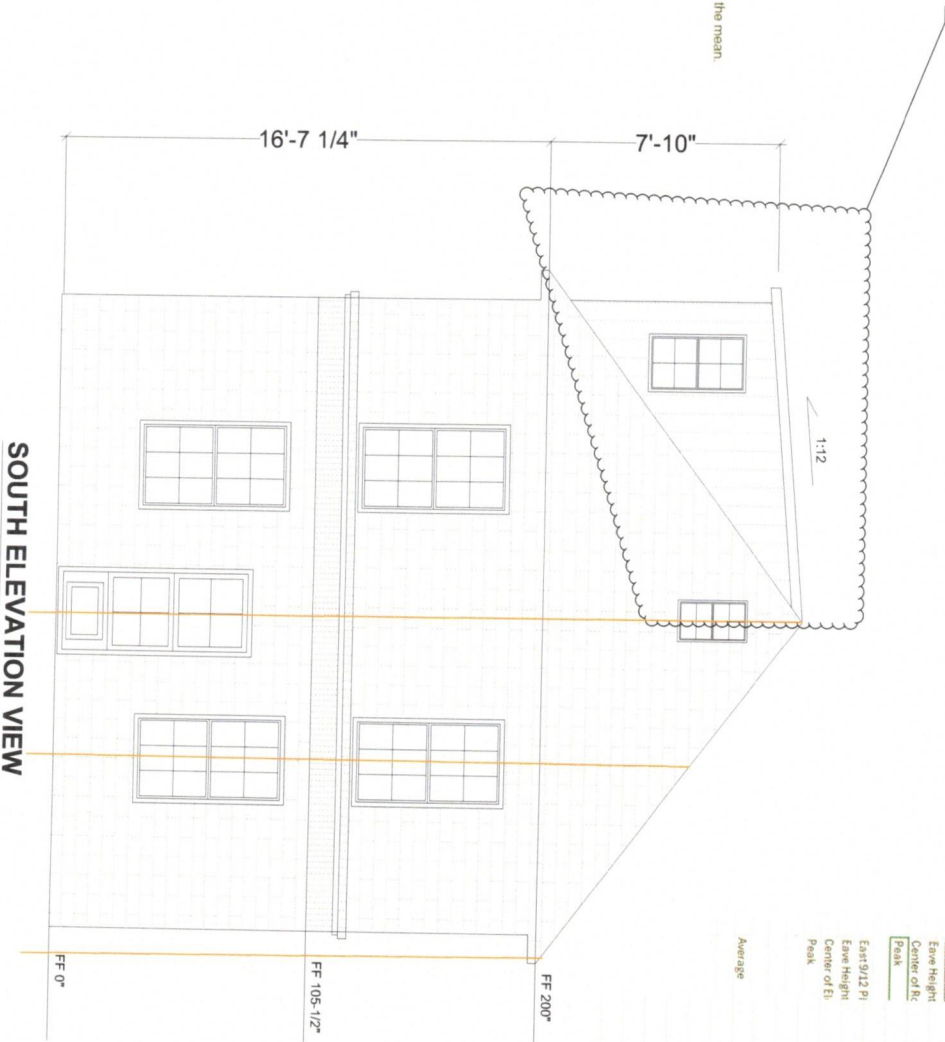
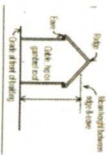
01-25

Sheet:

A-2

New Dormer Addition

- Side setbacks will need to comply = 6.25' in this case.
- Building height at the addition roof not to exceed 25' to the mean.



SOUTH ELEVATION VIEW

Average Rise

West Roof

Eave Height

Center of R

Peak

East 9/12 P

Eave Height

Center of E

Peak

Average

Average Height 17.40 Wright Avenue

West 1/12 Pitch Roof

Eave Height

Center of Roof

Peak

East 9/12 Pitch Roof

Eave Height

Center of Elevation

Peak

22.78 ft

136.7

Stamp / Seal:

Owner:

Address:

Sheet Title:

SOUTH ELEVATION VIEW

Contractor:

Rev. Date By

Date: 03/09/2025

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

Drawn By: MAXX

Job No: 03-25

Sheet:

A-3

Side Porch: Reconstruct existing walls with 2x6" construction to replace rotten wood. Zip sheathing and Hardie Board Siding.



WEST ELEVATION VIEW

1153.09 HEIGHT REQUIREMENTS

- All buildings and structures in new residential districts shall comply with the following height regulations:
- (a) The height of proposed buildings and structures shall not exceed twenty (20) feet.
 - (b) The height of existing buildings and structures shall not exceed ten (10) feet, except the height of detached garages shall not exceed twelve (12) feet at the highest point of the structure for a flat roof, and shall not exceed fifteen (15) feet at the highest point of the structure for any other roof that is not a flat roof, notwithstanding the height definitions defined in Sections 1123.09(1)(b) of this Code.
 - (c) Permitted height exceptions are set forth in Section 1153.11, Supplemental Height Regulations. (Ord. 87-17, Passed 12-17-85)



Stamp/ Seal:

Owner:

Address:

Sheet Title:
WEST ELEVATION VIEW

Contractor:

Rev:

By:

Date:

Date:

03/09/2025

Scale:

1/2" = 1'-0"

Drawn By:

MAXXX

Job No.:

03-25

Sheet:

A-4



Table 17 – 50 psf Ground Snow Load **, 10 psf Dead Load, 1.15 Load Duration Factor
 **Equivalent to a 35 psf Design Roof Snow Load

Grade	Clear Opening	Span of Supported Roof Framing (sum of rafter spans from both sides of beam)						
		16'	20'	24'	28'	32'	36'	40'
No. 1	10'	(2) 2 x 12s	(2) 2 x 12s	(3) 2 x 10s	(3) 2 x 12s	(3) 2 x 12s	(4) 2 x 12s	(4) 2 x 12s
	12'	(3) 2 x 10s	(3) 2 x 12s	(3) 2 x 12s	(4) 2 x 12s	(4) 2 x 12s	3-1/2 x 11-1/4	3-1/2 x 14
	14'	(3) 2 x 12s	(4) 2 x 12s	(4) 2 x 12s	3-1/2 x 11-1/4	3-1/2 x 11-7/8	3-1/2 x 14	5-1/2 x 11-7/8
	16'	(4) 2 x 12s	3-1/2 x 11-1/4	3-1/2 x 11-7/8	3-1/2 x 14	3-1/2 x 14	5-1/2 x 14	5-1/2 x 14
	18'	3-1/2 x 11-7/8	3-1/2 x 14	3-1/2 x 14	3-1/2 x 14	5-1/2 x 14	5-1/2 x 14	5-1/2 x 16
	20'	3-1/2 x 14	3-1/2 x 14	3-1/2 x 16	5-1/2 x 14	5-1/2 x 14	5-1/2 x 16	5-1/2 x 18
	22'	3-1/2 x 16	3-1/2 x 16	3-1/2 x 18	5-1/2 x 16	5-1/2 x 16	5-1/2 x 18	5-1/2 x 19-1/4 *
	24'	3-1/2 x 16	3-1/2 x 18	5-1/2 x 16	5-1/2 x 16	5-1/2 x 18	5-1/2 x 19-1/4 *	5-1/2 x 20-5/8 *

Rafters

Rafters with ceiling not attached to rafters, ground snow load = 50 Psf, dead load = 20 Psf, deflection limit L/180

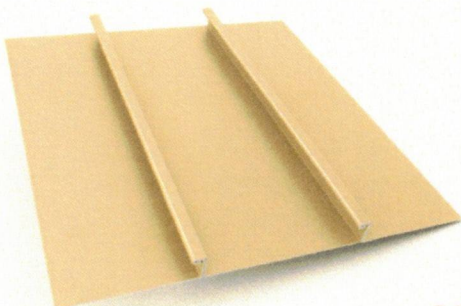
Nominal Size	Spaced (o.c.)	Species/Grade			
		S. Pine	Doug. Fir	Hem-fir	S.P.F.
		#2 grade	#2 grade	#2 grade	#2 grade
2" x 4"	12	6-6	7-3	7-0	7-1
	16	5-8	6-3	6-1	6-2
	24	4-7	5-1	4-11	5-0
2" x 6"	12	9-9	10-7	10-3	10-5
	16	8-5	9-2	8-11	9-0
	24	6-11	7-6	7-3	7-4
2" x 8"	12	12-4	13-4	13-0	13-2
	16	10-9	11-7	11-3	11-5
	24	8-9	9-5	9-2	9-4
2" x 10"	12	14-8	16-4	15-10	16-1
	16	12-9	14-2	13-9	13-11
	24	10-5	11-7	11-3	11-5
2" x 12"	12	17-3	18-11	18-5	18-8
	16	15-0	16-5	15-11	16-2
	24	12-3	13-5	13-0	13-2

Roofing for 1/12 Pitch



[Products](#) [Specs](#) [Resour](#)

[Products](#) > [Metal Roofing Panels](#)



Tite-Loc

Metal Roofing Panels [✕](#)

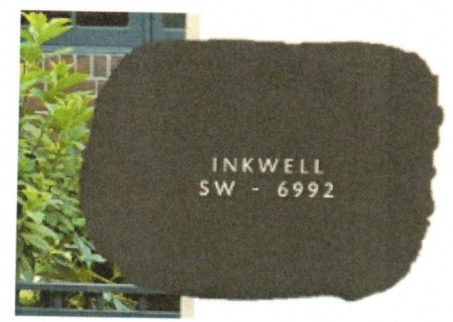
Tite-Loc panels combine structural performance with architectural aesthetics, offering superior flatness and optional weather resistance. Available in lengths from 4' to 64', with a 2" leg height for mechanical seaming. Panels are suited for various substrates, requiring a 1/2:12 pitch. Available in steel and aluminum, they can be curved for specific applications.

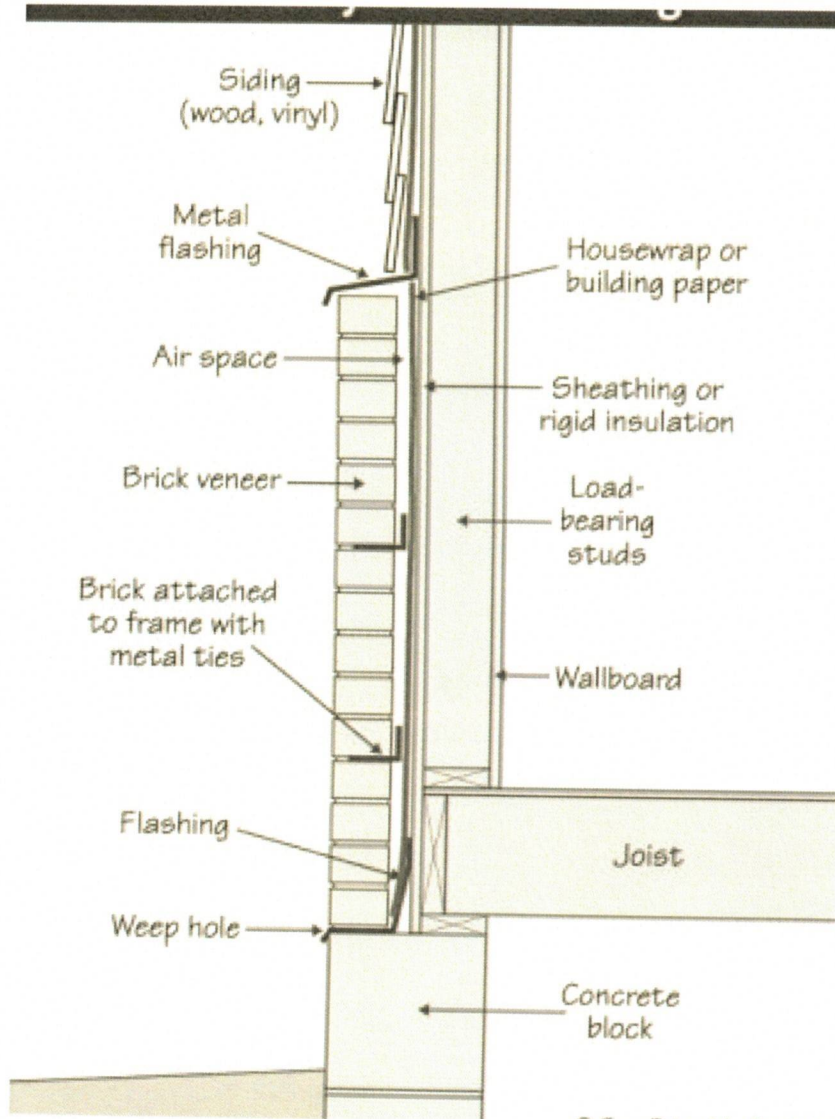
[Spec Sheet](#)

[E-Tools](#)



Charcoal
2206





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.

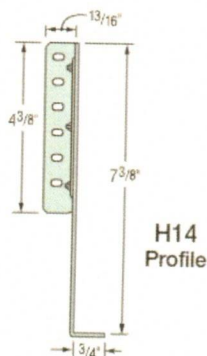
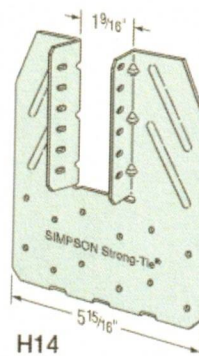
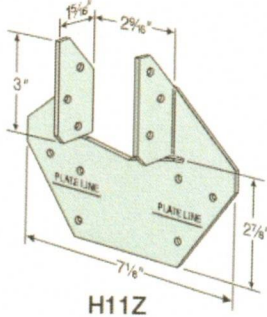
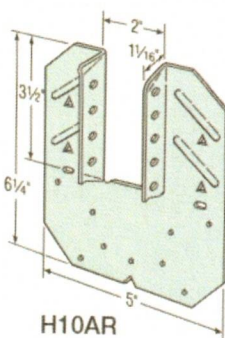
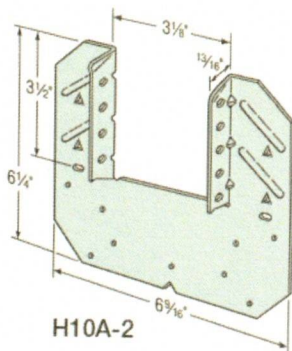
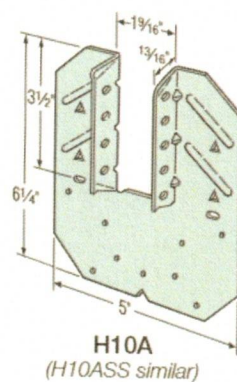
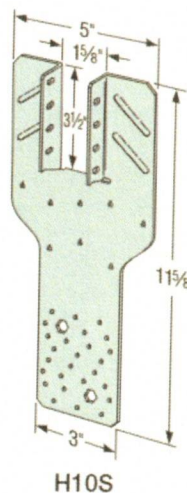
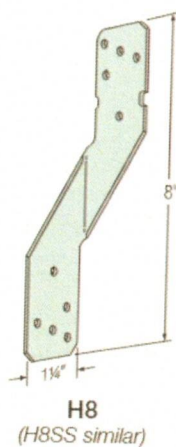
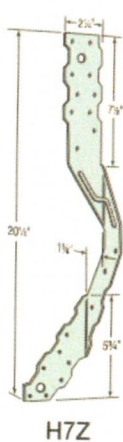
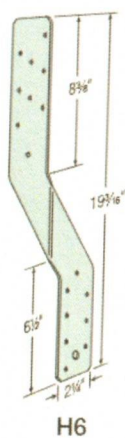
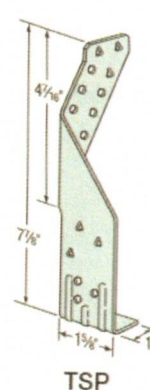
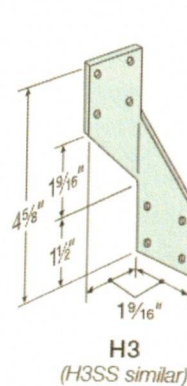
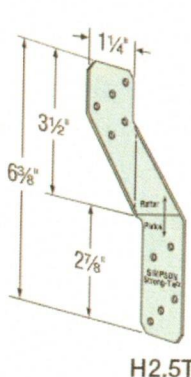
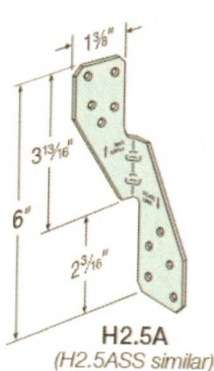
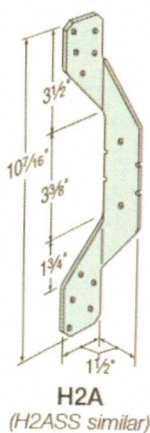
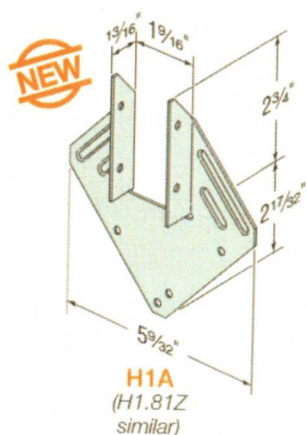
Installation:

- 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. 13 for 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 p. 16.

SS For stainless-steel fasteners, see p. 23.

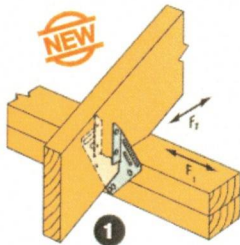
SD Many of these products are approved for installation with Strong-Drive® SD Connector screws. See pp. 362–366 for more information.

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

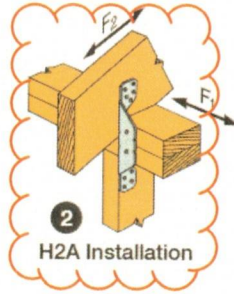
- See pp. 276–277 for Straps and Ties General Notes.
- Allowable loads are for one anchor. A minimum rafter thickness of 2 1/2" must be used when framing anchors are used on each side of the joist and on the same side of the plate (exception: connectors installed such that nails on opposite side don't 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. 359; for collated SCNR nails, see p. 360. For general fastener information, see pp. 23–24.
- 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. 291–293.
- Fasteners:** Nail dimensions are listed diameter by length. See pp. 23–24 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

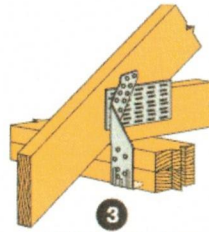
Seismic and Hurricane Ties (cont.)



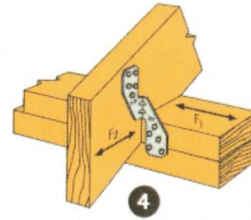
H1A Installation
(H1.81Z similar)



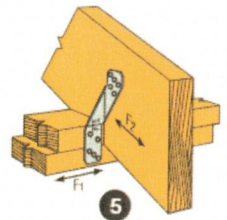
H2A Installation



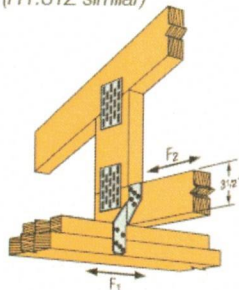
TSP Installation



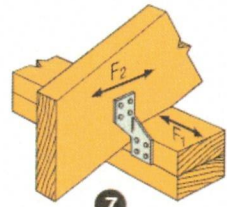
H2.5A Installation
(nails into both top plates)



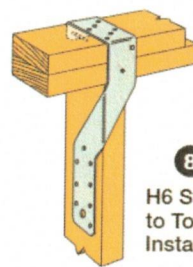
H2.5T Installation
(nails into both top plates)



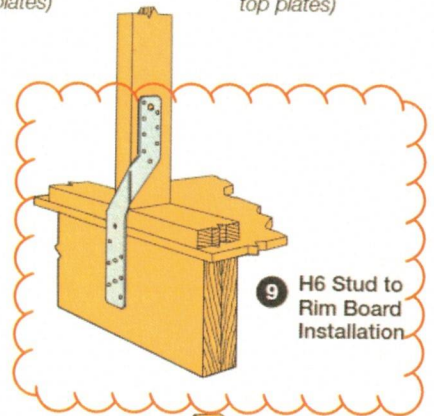
H2.5T Installation



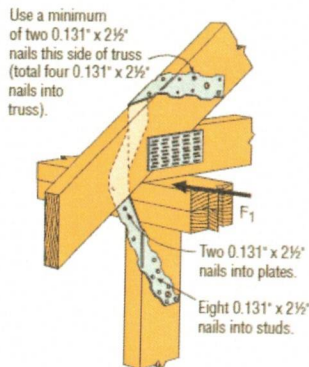
H3 Installation
(nails into upper top plate)



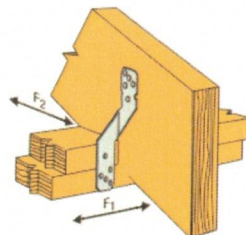
H6 Stud to Top Plate Installation



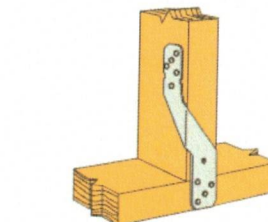
H6 Stud to Rim Board Installation



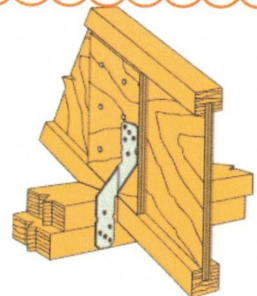
H7Z Installation



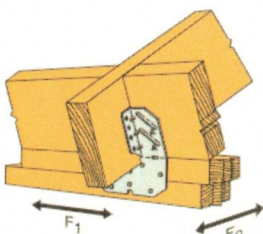
H8 Attaching Rafter to Double Top Plates



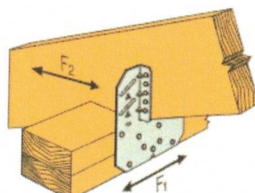
H8 attaching Stud to Sill
((4) 0.131" x 2½" nails into plate, (5) 0.131" x 2½" nails into stud, refer to footnote 3 for loads)



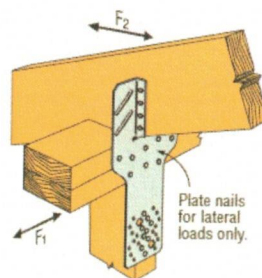
H8 attaching I-Joist to Double Top Plates



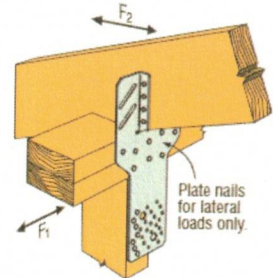
H10A Field-Bent Installation



H10A Installation



H10S Installation

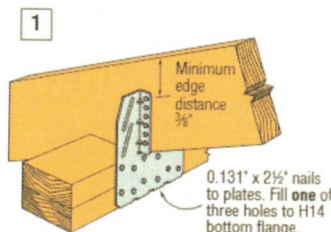


H10S Installation with Stud Offset

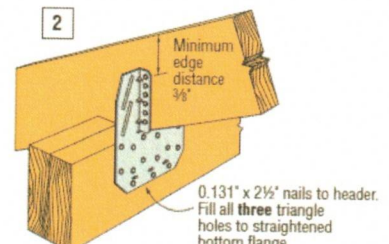
H10A optional nailing connects shear blocking to rafter. Use 0.131" x 2½" nails. Slot allows maximum field-bending up to a pitch of 6/12, bend one time only.



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



H14 Installation to Double Top Plates



H14 Installation to Double 2x Header

LRUZ

Face-Mount Rafter Hanger

The LRUZ offers an economic alternative for those applications requiring a sloped hanger for rafter-to-ridge connections. Used with solid sawn rafters, the LRUZ's unique design enables the hanger to be installed either before or after the rafter is in place. The field-adjustable seat helps improve job efficiency by eliminating mismatched angles in the field and lead times associated with special orders. The LRUZ offers comparable or better load capacity to other rafter hangers at a reduced cost while using fewer fasteners.

Features:

- The open design and ability to field-adjust the slope make the LRUZ ideal for both retrofit or new applications.
- May be sloped down from 0° (0:12 pitch) to 49° (14:12). For slopes greater than 45°, allowable downloads are 0.85 of table loads.
- May be sloped up from 0° to 45°.
- For added versatility, the fasteners on the face of the hanger are placed high enabling the bottom of the rafter to hang below the ridge beam (see "Max. C₁" dimension).
- Can be installed using nails or Strong-Drive® SD Connector screws.

Material: 18 gauge

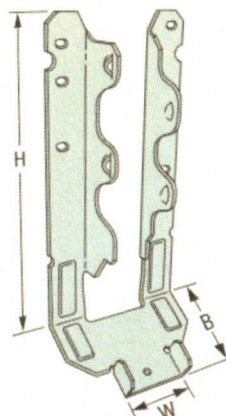
Finish: ZMAX® coating

Installation:

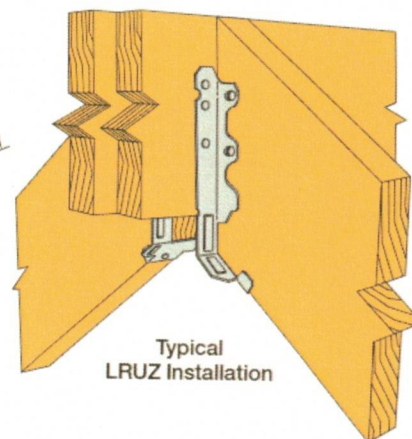
- Use all specified fasteners; see General Notes
- Joist fasteners must be installed at an angle through the rafter or joist into the header to achieve the table loads
- See alternate installation on p. 121 for retrofit applications

Codes: See p. 13 for Code Reference Key Chart

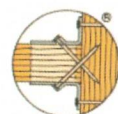
Web Applications: Visit app.strongtie.com/hs to access our Hanger Selector web application.



LRU28Z
(other models similar)



Typical
LRUZ Installation



Double-Shear
Nailing
Top View



Dome Double-Shear
Nailing Side View

These products are available with additional corrosion protection. For more information, see p. 16.



Many of these products are approved for installation with Strong-Drive® SD Connector screws. See pp. 362–366 for more information.

Standard Installation

Model No.	Dimensions (in.)				Fasteners (in.)		DF/SP Allowable Loads				SPF/HF Allowable Loads				Code Ref.
	W	H	B	Max. C ₁	Face	Joist	Uplift (160)	Floor (100)	Snow (115)	Roof (125)	Uplift (160)	Floor (100)	Snow (115)	Roof (125)	
LRU26Z	1 1/16	5 1/4	1 1/16	1 3/4	(4) 0.162 x 3 1/2	(5) 0.162 x 3 1/2	810	1,030	1,175	1,275	695	885	1,010	1,095	IBC® FL, LA
					(4) 0.148 x 3	(5) 0.148 x 3	600	865	990	990	515	745	850	850	
					(4) #10 x 2 1/2" SD	(5) #10 x 2 1/2" SD	770	1,215	1,395	1,425	660	935	1,075	1,170	
					(4) #10 x 1 1/2" SD	(5) #10 x 2 1/2" SD	770	1,045	1,200	1,305	660	830	950	1,035	
LRU28Z	1 1/16	6 5/16	1 1/16	2 5/8	(6) 0.162 x 3 1/2	(5) 0.162 x 3 1/2	810	1,315	1,340	1,340	695	1,130	1,150	1,150	
					(6) 0.148 x 3	(5) 0.148 x 3	805	1,050	1,050	1,050	690	905	905	905	
					(6) #10 x 2 1/2" SD	(5) #10 x 2 1/2" SD	1,025	1,480	1,480	1,480	880	1,265	1,270	1,270	
					(6) #10 x 1 1/2" SD	(5) #10 x 2 1/2" SD	1,025	1,390	1,480	1,480	880	1,105	1,270	1,270	
LRU210Z	1 1/16	8 3/16	1 1/16	1 3/4	(6) 0.162 x 3 1/2	(7) 0.162 x 3 1/2	1,015	1,550	1,620	1,620	875	1,335	1,395	1,395	
					(6) 0.148 x 3	(7) 0.148 x 3	1,015	1,295	1,480	1,495	875	1,115	1,275	1,285	
					(6) #10 x 2 1/2" SD	(7) #10 x 2 1/2" SD	1,510	1,805	1,805	1,805	1,300	1,405	1,550	1,550	
					(6) #10 x 1 1/2" SD	(7) #10 x 2 1/2" SD	1,510	1,570	1,805	1,805	1,300	1,240	1,430	1,550	
LRU212Z	1 1/16	10 1/16	1 1/16	3 1/2	(6) 0.162 x 3 1/2	(7) 0.162 x 3 1/2	1,305	1,550	1,765	1,910	1,120	1,335	1,520	1,645	
					(6) 0.148 x 3	(7) 0.148 x 3	1,305	1,295	1,430	1,430	1,120	1,115	1,230	1,230	
					(6) #10 x 2 1/2" SD	(7) #10 x 2 1/2" SD	1,850	1,820	1,915	1,915	1,590	1,405	1,615	1,645	
					(6) #10 x 1 1/2" SD	(7) #10 x 2 1/2" SD	1,850	1,570	1,805	1,915	1,590	1,240	1,430	1,555	

1. Uplift loads have been increased for earthquake or wind loading with no further increase allowed. Reduce where other loads govern.
2. Allowable loads are based on a minimum 3" carrying member. For single 2x carrying members, use 0.148" x 1 1/2" nails in the face and 0.148" x 3" in the joist, and reduce the allowable load to 0.81 of the tabulated value for 0.148" x 3" nails. Alternatively, use #10 x 1 1/2" Strong-Drive SD Connector screws in the face and #10 x 2 1/2" SD Connector screws in the joist as shown in the table.
3. **Fasteners:** Nail dimensions are listed diameter by length. SD screws are Simpson Strong-Tie Strong-Drive SD Connector screws. See pp. 23–24 for fastener information.

LRUZ

Face-Mount Rafter Hanger (cont.)

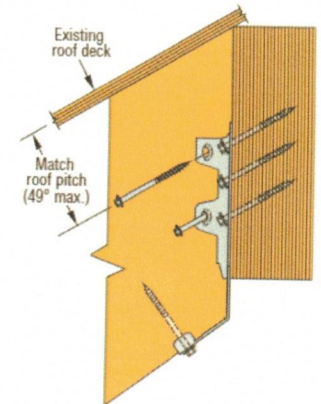
Alternate Installation for Retrofit Applications

When an existing roof deck prevents the horizontal installation of fasteners, #10 x 2½" Strong-Drive® SD Connector screws may be installed sloped upward to match the roof pitch (49° max.). Use table values for an installation with 0.148" x 3" nails when Strong-Drive SD Connector screws are sloped. Nails may not be installed sloped upward.

Alternate Installation for Retrofit

Model No.	Angled Fasteners		DF/SP Allowable Loads				SPF/HF Allowable Loads				Code Ref.
	Face	Joist	Uplift ² (160)	Floor (100)	Snow (115)	Roof (125)	Uplift ² (160)	Floor (100)	Snow (115)	Roof (125)	
LRU26Z	(4) #10 x 2½" SD	(5) #10 x 2½" SD	645	855	980	990	555	730	835	850	IBC®, FL, LA
LRU28Z	(6) #10 x 2½" SD	(5) #10 x 2½" SD	805	1,050	1,050	1,050	695	900	900	900	
LRU210Z	(6) #10 x 2½" SD	(7) #10 x 2½" SD	1,100	1,285	1,430	1,430	945	1,095	1,230	1,230	
LRU212Z	(6) #10 x 2½" SD	(7) #10 x 2½" SD	1,305	1,285	1,430	1,430	1,120	1,095	1,230	1,230	

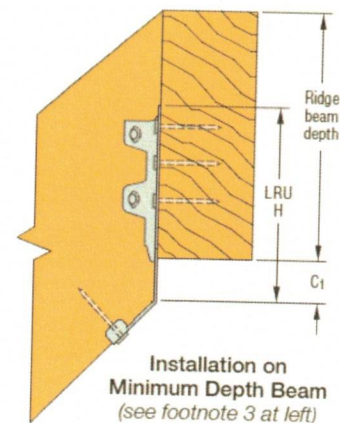
1. Uplift loads have been increased for earthquake or wind loading with no further increase allowed. Reduce where other loads govern.
2. Allowable loads are based on a minimum 3"-thick carrying member.
3. Fasteners may be angled upward a maximum of 49°.
4. **Fasteners:** SD screws are Simpson Strong-Tie Strong-Drive SD Connector screws. See pp. 23-24 for fastener information.



Alternate Installation for Retrofit Applications

Minimum Ridge Beam Depth (in.)

Roof Pitch	LRU26Z		LRU28Z			LRU210Z			LRU212Z	
	Rafter Size		Rafter Size			Rafter Size			Rafter Size	
	2x6	2x8	2x6	2x8	2x10	2x8	2x10	2x12	2x10	2x12
2:12	4½	5½	—	5	7	—	7½	9½	—	8½
3:12	4¼	6	—	5½	7½	—	8	10½	—	8¾
4:12	4¾	6½	—	5¼	7¾	—	8¼	10¾	—	8¾
5:12	4½	6¾	—	5½	7¾	—	8½	10¾	—	9
6:12	4¾	6¾	—	5¾	8	—	8¾	11½	—	9¾
7:12	4¾	6¾	—	6	8¾	6¾	9¼	11½	7½	9¾
8:12	5½	7¼	—	6¾	8¾	7¼	9¾	12	7¾	10¼
9:12	5¾	7¾	—	6¾	9¼	7¾	10½	12¾	8¾	10¾
10:12	5¾	8	4¾	7¾	9¾	8	10¾	13½	8¾	11¾
11:12	6	8¾	5½	7¾	10¼	8¾	11½	13¾	9¾	12
12:12	6¼	8¾	5¾	7¾	10¾	8¾	11¾	14¾	9¾	12¾
13:12	6¾	9¼	5¾	8¾	11¼	9¼	12½	15½	10¾	13¾
14:12	7	9¾	6¾	8¾	11¾	9¾	12¾	15¾	11	14



1. Minimum ridge beam depths shown assume that the rafter and the ridge beam are flush at the top.
2. Minimum ridge beam depths have been determined to ensure the maximum C₁ dimension for the LRU is not exceeded. Deeper ridge beams may be required to support the rafter loads as determined by the designer.
3. Per the 2012/2015/2018/2021 IRC® Section R802.3 the ridge is required to be not less in depth than the cut end of the rafter unless the ridge is designed as a beam.
4. Slopes greater than 12:12 are download only.