PREPARED 9/27/17, 14:22:29 Harnett County

INSPECTION TICKET INSPECTOR: IVR

PAGE

27 DATE 9/28/17

ADDRESS . : 18 SIMPLY COUNTRY LN

SUBDIV: MORGAN FARMS PHONE: (919) 427-8654

CONTRACTOR : STEPHENSON BUILDERS, INC.

PHONE :

OWNER . . : SOUTHERN LIVING INVESTMENTS

PARCEL . . : 08-0641- - -0051- -42-

APPL NUMBER: 17-50041814 CP NEW RESIDENTIAL (SFD) DIRECTIONS : T/S: 07/11/2017 02:28 PM LLUCAS ----

401 N LEFT ON MORGAN FARM DRIVE

PREMISE# 84273526

STRUCTURE: 000 000 60X74 3BDR 2.5 BATH W/GARAGE CRAWL FNSH

FLOOD ZONE . . . : FLOOD ZONE X

PROPOSED USE : SFD SEPTIC - EXISTING? . . . : NEW SEPTIC WATER SUPPLY : COUNTY

PERMIT: CPSF 00 CP * SFD REQUESTED INSP DESCRIPTION TYP/SQ COMPLETED RESULT RESULTS/COMMENTS 8/02/17 TI 8/01/17 CA B101 01 R*BLDG FOOTING / TEMP SVC POLE VRU #: 003006335 A814 01 8/02/17 SB ADDRESS CONFIRMATION TIME: 17:00 VRU #: 003006319 8/01/17 AP 18 SIMPLY COUNTRY LN LILLINGTON 27546 T/S: 08/01/2017 09:18 AM SBENNETT -----8/03/17 BS B101 02 R*BLDG FOOTING / TEMP SVC POLE VRU #: 003006715 8/03/17 AP B103 01 8/18/17 BS 8/18/17 AP B105 01 8/24/17 BS T/S: August 03, 2017 11:39 AM BSUTTON -----R*BLDG FOUND & TEMP SVC POLE VRU #: 003012622 T/S: August 18, 2017 09:40 AM BSUTTON -----R*OPEN FLOOR VRU #: 003016268 8/24/17 AP 9/26/17 TŚG T/S: August 24, 2017 10:43 AM BSUTTON -----R425 01 FOUR TRADE ROUGH IN VRU #: 003029568 9/26/17 DA 1-INSTALL CORRECT NAILS IN HANGERS WHERE REQUIRED 2-FRONT WINDOW NOT INSTALLED 9/28/17 R425 02 FOUR TRADE ROUGH IN VRU #: 003030954 Re inpection for 2 framing items....

----- COMMENTS AND NOTES ----

Window missing and hanger nails.

Call drew with any questions 919-730-7802. Thanks!

233 Cambridge (919) 390-8954



michael quinn and associates, p.c.

6767 peachtree industrial blvd. • suite p norcross, georgia 30092 770-452-0744

September 27, 2017

Mr. Jeff Daugherty US Lumber 3312 North Berkeley Lake Road Suite D Duluth, Georgia 30096

RE: Lo

Lot 29 Morgan Farm

MQ + A Project No. 17007.25

Dear Jeff:

This letter is in regard to a portion of the I-joist floor framing at the referenced project. Portions of the I-joists are attached to the supporting members with Simpson IUS2.37/11.88 face-mount hangers, utilizing 10d x 1-1/2" nails. The maximum hanger load is 672 pounds; the allowable hanger load per Simpson for this hanger is 912 pounds, which has been reduced 23% for the short nails. No repairs are necessary.

Please do not hesitate to call if you have any questions or if we can be of further assistance.

Sincerely,

MICHAEL QUINN AND ASSOCIATES, P.C.

Michael D. Quinn

September 26, 2017

Greg Dudley Guy C. Lee Building Material 151 HC Highway 42 E. Clayton, NC 27527

(919) 553-6699

Subject: Lot 29 Morgan Farms

Greg,

Per our conversation today concerning the use of 10d x 1-1/2" nails with a Simpson IUS 2.37/11.88 hanger, the hanger manufacturer has published documentation to support this application.

On page 27 in the 2017 – 2018 Simpson product guide Simpson has a chart for the substitution of nails with hangers. The allowable carrying capacity of the IUS 2.37/11.88 hanger using a 10d x 3" nail is 1,185 pounds. Based on the nail chart we can multiply this by 0.77 to determine its capacity with 10d x 1-1/2" nails. The new allowable capacity is 912 pounds.

After reviewing the engineering on all the second floor joists that are supported by this hanger the maximum reaction is 670 pounds. So in conclusion, the use of $10d \times 1-1/2$ " nails does not effect the performance of the joist or hanger for our application.

I have enclosed the Simpson catalog pages for your review. Please do not hesitate to contact me if you have any other questions.

David Leasure US Lumber

with 10d x 1

Face-Mount Hangers - I-Joists

Strong-Tie

	Model No. ²			Dime	nsion	s (im.)		Fa	steners*			Alle	owable L	oads5			
Actual Joist Size (in.)		Web Stiff	0-				Min./			DF	/SP Spe	cies Hea	der	SPF/HF	Species	Header	Code
		Reqd.	ua.	W	Н	В	Max.2	Face	Joist	Uplift (160)	Floor (100)	Snow (115)	Roof (125)	Floor (100)	Snow (115)	Roof (125)	Ref.
1½ x 9½	U210	1	16	1%	713/16	2	-	(6) 10d	(6) 10d x 11/2"	1,110	1,215	1,375	1,485	1,045	1,185	1,275	
	MIU1.56/9	-	16	1946	815/16	21/2	-	(16) 16d	(2) 10d x 11/2"	230	2,305	2,615	2,820	1,980	2,245	2,425	
11/2 X	U210	1	16	19/16	713/16	2	-	(6) 10d	(6) 10d x 11/2"	1,110	1,215	1,375	1,485	1,045	1,185	1,275	
1114-1176	MIU1.56/11		16	1946	111/16	21/2	_	(20) 16d	(2) 10d x 1 1/2"	230	2,880	3,060	3,080	2,475	2,695	2,695	
1% x 9½	IUS1.81/9.5	_	18	17/8	91/2	2	-	(8) 10d	-	75	950	1,080	1,165	815	925	1,000	
1% x 914-91/2	MIU1.81/9		16	1346	813/10	21/2	-	(16) 16d	(2) 10d x 11/2"	230	2,305	2,615	2,820	1,980	2,245	2,425	
19/ + 117/	IUS1.81/11.88	-	18	17/8	117/8	2	-	(10) 10d	_	75	1,185	1,345	1,455	1,020	1,160	1,250	
1% x 11%	MIU1.81/11	_	16	113/16	11 1/16	21/2	-	(20) 16d	(2) 10d x 11/2"	230	2,880	3,135	3,135	2,475	2,695	2,695	
1¾ x 14	IUS1.81/14		18	17/6	14	2	Min.	(12) 10d	-	75	1,420	1,615	1,745	1,220	1,390	1,500	
			16	17/8	14	2	Max.	(14) 10d		75	1,660	1,885	1,980	1,425	1,620	1,705	
	MIU1.81/14		16	113/16	13%	21/2		(22) 16d	(2) 10d x 11/2"	230	3,170	3,530	3,550	2,725	3,090	3,335	
	IUS1.81/16		18	11/8	16	2	Min.	(14) 10d	_	75	1,660	1,885	1,980	1,425	1,620	1,705	
1¾ x 16		LI	10	17/8	16	2	Max.	(16) 10d	_	75	1,895	1,980	1,980	1,630	1,705	1,705	
	MIU1.81/16	~	16	190	159	21/2	-	(24) 16d	(2) 10d x 11/2"	230	3,455	3,530	3,550	2,970	3,370	3,480	19,
1¾ x 18-20	MIU1.81/18		16	113/16	175/16	21/2		(26) 16d	(2) 10d x 11/2"	230	3,500	3,530	3,550	3,220	3,465	3,480	FL, L
2 x 9½	IUS2.06/9.5		18	21/8	9	2	-	(8) 10d	_	75	950	1,080	1,165	815	925	1,000	
2 x 11 1/3	IUS2.06/11.88		18	21/8	11%	2		(10) 10d		75	1,185	1,345	1,455	1,020	1,160	1,250	
2×14	IUS2.06/14	_	18	21/8	14	2	Min.	(12) 10d	_	75	1,420	1,615	1,745	1,220	1,390	1,500	
-		_	18	21/8	14	2	Max.	(14) 10d	_	75	1,660	1,885	1,980	1,425	1,620	1,705	
2 x 16	INS2.06/16		18	21/8	16	2	Min.	(14) 10d		75	1,660	1,885	1,980	1,425	1,620	1,705	
2710			18	21/8	16	2	Max.	(16) 10d		75	1,895	1,980	1,980	1,630	1,705	1,705	
21/6 x 91/2	IUS2.06/9.5	_	18	21/8	91/2	2	-	(8) 10d	_	75	950	1,080	1,165	815	925	1,000	
E/10 A D72	HU2.1/9	1	14	21/8	9%	21/2	_	(14) 16d	(6) 10d x 11/2"	915	2,085	2,350	2,530	1,795	2,025	2,180	
	IUS2.06/11.88		18	21/8	11%	2	-	(10) 10d		75	1,185	1,345	1,455	1,020	1,160	1,250	
21/e x 11%	MIU2.1/11		16	21/8	111/1e	21/2	-	(20) 16d	(2) 10d x 11/2"	230	2,880	3,135	3,135	2,475	2,695	2,695	
	HU2.1/11	1	14	21/8	11	21/2		(16) 16d	(6) 10d x 11/2"	915	2,380	2,685	2,890	2,050	2,315	2,490	
/2" nails:	1,185 x 0.77 =	912.45	5 P	oun	ds	2		(12) 10d	_	75	1,420	1,615	1,745	1,220	1,390	1,500	
21/16 X 16	1052.06/16	1-1	18	21/8	16	2		(14) 10d	-	75	1,660	1,885	1,980	1,425	1,620	1,705	

	2¼ x 9½ to 20												a table load or 2,140 lb.				
NO.		IUS2.37/9.5		18	2%	91/2	2	-	(8) 10d	_	75	950	1,080	1,165	815	925	1,0
>		MILIO 37/0		16	284	0	214		(16) 164	(3) 10d v 116"	220	2 205	2615	2 920	1 000	2 245	21

9½ to 20	IUS download is the lesser of	of the t	able	load or	1,400	lb.; I	JS upli	ft is 55 lb.	; MIU and U dow	nloads a	re the les	ser of the	e table lo	ad or 2,14	40 lb.												
	IUS2.37/9.5	-	18	2%	91/2	2	_	(8) 10d	- ·	75	950	1,080	1,165	815	925	1,000											
	MIU2.37/9	_	16	2%	9	21/2	-	(16) 16d	(2) 10d x 1 1/2"	230	2,305	2,615	2,820	1,980	2,245	2,425											
25% x 91/2	U3510/14	1	16	25/16	9	2	-	(14) 16d	(6) 10d x 11/2"	1,110	2,015	2,285	2,465	1,735	1,965	2,120											
	MISEO (MICSEO	1	14	23%	815/16	21/2	Min.	(14) 16d	(6) 10d x 11/2"	915	2,085	2,350	2,530	1,795	2,025	2,180											
	HU359 / HUC359	1	14	2%	815/16	21/2	Max.	(18) 16d	(10) 10d x 11/2"	1,895	2,680	3,020	3,250	2,305	2,605	2,800											
	IUS2.37/11.88	_	18	21/16	11%	2	_	(10) 10d	_	75	1,185	1,345	1,455	1,020	1,160	1,250											
	MIU2.37/11	-	16	23/8	111/16	21/2	-	(20) 16d	(2) 10d x 11/2"	230	2,880	3,135	3,135	2,475	2,695	2,695											
25/16 X 111/8	U3516/20	1	16	25/16	10%	2	_	(16) 16d	(6) 10d x 11/2"	1,110	2,305	2,615	2,820	1,980	2,245	2,425											
	HU3511 / HUC3511	1	14	2%	111/16	21/2	Min.	(16) 16d	(6) 10d x 11/2"	915	2,380	2,685	2,890	2,050	2,315	2,490											
	HU33117 HUG3311	1	14	2%	111/16	21/2	Max.	(22) 16d	(10) 10d x 11/2"	1,895	3,275	3,695	3,970	2,820	3,180	3,425	19, FL, L12										
	IUS2.37/14 4 MIU2.37/14												18	21/16	14	2	Min.	(12) 10d		75	1,420	1,615	1,745	1,220	1,390	1,500	1 5, 512
			10	27/16	14	2	Max.	(14) 10d		75	1,660	1,885	1,980	1,425	1,620	1,705											
2% x 14			16	23/8	131/2	21/2	-	(22) 16d	(2) 10d x 11/2"	230	3,170	3,595	3,875	2,725	3,090	3,335											
	HU3514 / HUC3514	1	14	23%	131/2	21/2	Min.	(18) 16d	(8) 10d x 11/2"	1,515	2,680	3,020	3,250	2,305	2,605	2,800											
HUSE	1035147 1003514	1	14	2%	131/2	21/2	Max.	(24) 16d	(12) 10d x 11/2"	2,015	3,570	4,030	4,335	3,075	3,470	3,735											
25/16 x 16	IUS2.37/16		18	2%	16	2	Min.	(14) 10d	-	75	1,660	1,885	1,980	1,425	1,620	1,705											
			10	27/16	16	2	Max.	(16) 10d	_	75	1,895	1,980	1,980	1,630	1,705	1,705											
2718 X 10	MIU2.37/16	-	16	2%	151/2	21/2	_	(24) 16d	(2) 10d x 11/2"	230	3,455	3,920	4,045	2,970	3,370	3,480											
	HU3516/22 / HUC3516/22	1	14	2%	141/4	21/2	-	(20) 16d	(8) 10d x 11/2"	1,515	2,975	3,360	3,610	2,565	2,895	3,110											

^{1.} Uplift loads based on DF/SP lumber and have been increased for wind or earthquake loading with no further increase allowed. Reduce where other loads govern. For SPF/HF use 0.86 x DF/SP uplift load.

Codes: See p. 14 for Code Reference Key Chart.

^{2.} Min. nailing quantity and load values - fill all round holes; Max. nailing quantity and load values -- fill all round and triangle holes.

^{3.} Hangers sorted in order of recommended selection for best overall performance and installation value.

^{4.} Web stiffeners are required where noted in the table or when the joist top flange isn't supported laterally by the hanger or when supporting double I-joists with flanges less than 11/46" thick.

^{5.} Allowable downloads are based on a joist bearing capacity of 750 psi.

^{6.} Nails: 16d = 0.162" dia. x 31/4" long, 10d = 0.148" dia. x 3" long, 10dx11/4" = 0.148" dia. x 11/4" long. See pp. 26–27 for other nail sizes and information.

Fastener Design Information

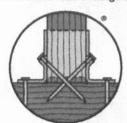
SIMPSON Strong-Tie

In some cases, it is desirable to install Simpson Strong-Tie face-mount joist hangers and straight straps with nails that are a different type or size than what is called out in the load table. In these cases, these reduction factors must be applied to the allowable loads listed for the connector.

Load Adjustment Factors for Optional Fasteners Used with Face-Mount Hangers and Straight Straps

Catalog Nail	Replacement	Allowable Load Adjustment Factor					
Gatalog Wall	периасетиет	Face-Mount Hangers	Straight Straps				
16d common (0.162" x 31/2")	10d x 11/2 (0.148" x 11/2")	0.64	0.848				
16d common (0.162" x 3½")	10d common (0.148" x 3") 12d common (0.148" x 3¼") 16d sinker (0.148" x 3¼")	0.84	0.84				
16d common (0.162" x 31/2")	16d x 21/2 (N16) (0.162" x 21/2")	1.00	1.00				
10d common (0.148" x 3")	10d x 2½ (0.148" x 2½")	0.85	1.00				
10d common (0.148" x 3")	104 - 117 (0.140) - 1170	0.77	1000				
16d sinker (0.148" x 31/4")	10d x 1½ (0.148" x 1½")	0.77	1.00°				
10d common (0.148" x 3")	10411/ /0.140511/5	0.04	1.000				
16d sinker (0.148" x 31/4")	10d x 1¼ (0.148" x 1¼")	0.64	1.00°				
10d common (0.148" x 3")	16d sinker (0.148" x 31/4")	1.00	1.00				
8d common (0.131" x 21/2")	8d x 1½ (0.131" x 1½")	0.85	1.00				
10d common (0.148" x 3")	8d common (0.131" x 21/2")	0.83	0.83				
16d common (0.162" x 31/2")	CD #40 = 11/ /0 161 = 11/ID	1,005	1.00				
16d x 21/2 (N16) (0.162 x 21/2)	SD #10 x 1½ (0.161 x 1½")	1.00					
10d common (0.148" x 3")							
16d sinker (0.148" x 31/4")							
10d x 11/2 (0.148" x 11/2)	SD #9 x 11/2 (0.131 x 11/2")	1.005	1.00				
8d common (0.131" x 21/2")							
8d x 11/2 (0.131" x 11/2")							

For LUS, MUS, HUS, HHUS and HGUS Hangers



Double-shear nailing shall use minimum 3" long nails



Shorter nails may not be used as double-shear nails

- Allowable load adjustment factors shown in the table are applicable for all face-mount hangers and straight straps throughout this catalog, except as noted in the footnotes below.
- Some products have been tested specifically with alternate fasteners and have allowable load adjustment factors or reduced capacities published on the specific product page. Those values on the product page may be used in lieu of the values calculated using this table.
- This table does not apply to SUR/SUL/HSUR/HSUL hangers or to hangers modified per allowed options, or to connectors made from steel thicker than 10 ga.
- Strong-Drive® SD Connector screw substitutions in this table do not apply to sloped, skewed or double-shear hangers. However, Strong-Drive SD Connector
- screws may be used in these connectors. For additional information and specific allowable loads, refer to **strongtie.com/sd**.
- Nails and Strong-Drive SD Connector screws may not be combined in a connection.
- Do not substitute 10d x 1½" nails for face nails on slope and skew combinations or skewed only LSU and LSSU.
- 7. For straps installed over sheathing use a 21/2" long fastener minimum.
- Where noted, use 0.80 for 10 ga., 11 ga., and 12 ga. products when using SPF lumber.
- Where noted, use 0.92 for 10 ga., 11 ga., and 12 ga. products when using SPF lumber.

Fastening Identification



Round Holes
Purpose: To fasten
a connector,

Fill Requirements: Always fill, unless noted otherwise.



Obround 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.

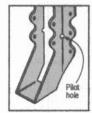
Fill Requirements: When the Designer specifies max. nailing.



Diamond Holes

Purpose: To temporarily fasten a connector to make installing it easier.

Fill Requirements: None.



Pilot Holes
Tooling holes for

Tooling holes for manufacturing purposes. No fasteners required.



Speed Prongs

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



Positive Angle Nailing (PAN)

Provided when wood splitting may occur, and to speed installation.



Dome Nailing

This feature guides the nail into the joist and header at a 45° angle. U.S. Patent 5,603,580



Double-Shear Nailing

The nail is installed into the joist and header, distributing the load through two points on each joist nail for greater strength. Double-shear nailing must be full-length catalog nail.



ITS/IUS Strong-Grip™

The Strong-Grip™ seat allows the I-joist to "snap" in securely without the need for joist nails.

PREPARED 9/27/17, 14:22:29
Harnett County

INSPECTION TICKET INSPECTOR: IVR

PAGE DATE

9/28/17

ADDRESS . : 18 SIMPLY COUNTRY LN SU

SUBDIV: MORGAN FARMS
PHONE: (919) 427-8654

PHONE :

CONTRACTOR : STEPHENSON BUILDERS, INC.

OWNER . . : SOUTHERN LIVING INVESTMENTS

PARCEL . . : 08-0641- - -0051- -42-

APPL NUMBER: 17-50041814 CP NEW RESIDENTIAL (SFD)
DIRECTIONS: T/S: 07/11/2017 02:28 PM LLUCAS ----

401 N LEFT ON MORGAN FARM DRIVE

PREMISE# 84273526

STRUCTURE: 000 000 60X74 3BDR 2.5 BATH W/GARAGE CRAWL FNSH

FLOOD ZONE . . . : FLOOD ZONE X

SEPTIC - EXISTING? . . . : NEW SEPTIC WATER SUPPLY : COUNTY

PERMIT: CPSF 00 CP * SFD RECUESTED INSP DESCRIPTION COMPLETED RESULT TYP/SQ RESULTS/COMMENTS B101 01 8/02/17 TI R*BLDG FOOTING / TEMP SVC POLE VRU #: 003006335 CA 8/01/17 SB A814 01 8/02/17 ADDRESS CONFIRMATION TIME: 17:00 VRU #: 003006319 8/01/17 AΡ 18 SIMPLY COUNTRY LN LILLINGTON 27546 T/S: 08/01/2017 09:18 AM SBENNETT -----B101 02 8/03/17 BS R*BLDG FOOTING / TEMP SVC POLE VRU #: 003006715 AΡ 8/03/17 T/S: August 03, 2017 11:39 AM BSUTTON -----B103 01 8/18/17 BS R*BLDG FOUND & TEMP SVC POLE VRU #: 003012622 8/18/17 AΡ T/S: August 18, 2017 09:40 AM BSUTTON -----B105 01 8/24/17 BS R*OPEN FLOOR VRU #: 003016268 8/24/17 AP T/S: August 24, 2017 10:43 AM BSUTTON ------R425 01 9/26/17 TSG FOUR TRADE ROUGH IN VRU #: 003029568 9/26/17 DΑ 1-INSTALL CORRECT NAILS IN HANGERS WHERE REQUIRED 2-FRONT WINDOW NOT INSTALLED R425 02 FOUR TRADE ROUGH IN VRU #: 003030954 Re inpection for 2 framing items.... Window missing and hanger nails.

Call drew with any questions 919-730-7802. Thanks!

233 Cambridge (919) 390-8954



Michael quinn and associates, p.c.

6767 peachtree industrial blvd. • suite p norcross, georgia 30092 770-452-0744

September 27, 2017

Mr. Jeff Daugherty US Lumber 3312 North Berkeley Lake Road Suite D Duluth, Georgia 30096

RE: Lot 29 Morgan Farm

MQ + A Project No. 17007.25

Dear Jeff:

This letter is in regard to a portion of the I-joist floor framing at the referenced project. Portions of the I-joists are attached to the supporting members with Simpson IUS2.37/11.88 face-mount hangers, utilizing 10d x 1-1/2" nails. The maximum hanger load is 672 pounds; the allowable hanger load per Simpson for this hanger is 912 pounds, which has been reduced 23% for the short nails. No repairs are necessary.

Please do not hesitate to call if you have any questions or if we can be of further assistance.

Sincerely,

MICHAEL QUINN AND ASSOCIATES, P.C.

Michael D. Quinn

consulting engineers

September 26, 2017

Greg Dudley
Guy C. Lee Building Material
151 HC Highway 42 E.
Clayton, NC 27527

(919) 553-6699

Subject: Lot 29 Morgan Farms

Greg,

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SIMPSON Strong-Tie

In some cases, it is desirable to install Simpson Strong-Tie face-mount joist hangers and straight straps with nalks that are a different type or size than what is called out in the load table. In these cases, these reduction factors must be applied to the allowable loads listed for the connector.

Load Adjustment Factors for Optional Fasteners Used with Face-Mount Hangers and Straight Straps

Catalog Slaif	Rentecement	Allowable Load Adjustment Factor					
	mep-ac-monac	Face-Mount Hangers	Straight Strape				
16d common (0.162" x 3½")	10d x 1½ (0.148" x 1½")	0.64	0.84°				
16d common (0.162" x 3½")	10d common (0.148" x 3") 12d common (0.148" x 314") 16d sinker (0.148" x 314")	0.84	0.84				
16d common (0.162" x 31/2")	16d x 21/2 (N16) (0.162" x 21/2")	1.00	1.00				
10d common (0.148" x 3")	10d x 2½ (0.148" x 2½")	0.85	1.00				
10d common (0.148" x 3")	404-444 (04104-4440						
18d minioer (0.148" x 31/4")	10d x 1 1/2 (0,148" x 1 1/2")	0.77	1.00%				
10d common (0.148" x 3")	404-44/ M4468-44/D						
16d sinker (0.148" x 314")	10d x 11/4 (0.148" x 11/4")	0.64	1,00*				
10d common (0.148" x 3")	16d sinker (0.148" x 31/4")	1.00	1.00				
8d common (0.131" x 21/2")	8d x 11/2 (0.131" x 11/2")	0.85	1.00				
10d common (0.148" x 3")	Bd common (0.131" x 2½")	0.83	0.83				
16d common (0.162" x 31/2")	CD E40 - 414 M 404 - 444M						
16d x 214 (N16) (0.162 x 214)	SD #10 x 1 1/2 (0.161 x 1 1/2")	1.00*	1.00				
10d common (0.148" x 3")							
16d sinker (0.148" x 31/4")							
10d x 11/2 (0.148" x 11/2)	SD #9 x 11/2 (0.131 x 11/2*)	1.005	1.00				
3d common (0.131" x 21/2")	,						
8d x 11/2 (0.131" x 11/2")							

For LUS, MUS, HUS, HHUS and HGUS Hangers



Double-shear nailing shalf use minimum 3" long naiks



Shorter no not be used as double-shear nails

- Allowable load adjustment factors shown in the table are applicable for all face-mount hangers and straight straps throughout this catalog, except as noted in the footnotes below.
- 2. Some products have been tested specifically with alternate fasteners and have allowable load adjustment factors or reduced capacities published on the specific product page. Those values on the product page may be used in lieu of the values calculated using this table.
- 3. This table does not apply to SUR/SUL/HSUR/HSUL hangers or to hangers modified per allowed options, or to connectors made from steel thicker than 10 ga.
- 4. Strong-Drive® SD Connector screw substitutions in this table do not apply to sloped, skewed or double-shear hangers. However, Strong-Drive SD Connector
- screws may be used in these connectors. For additional information and specific allowable loads, refer to strongtie.com/sd.
- 5. Nails and Strong-Drive SD Connector screws may not be combined in a connection.
- 6. Do not substitute 10d x 11/2" nails for face nails on slope and skew combinations or skewed only LSU and LSSU.
- For straps installed over sheathing use a 2½" long fastener minimum.
- 8. Where noted, use 0.80 for 10 ga., 11 ga., and 12 ga. products when using SPF lumber
- 9. Where noted, use 0.92 for 10 ga., 11 ga., and 12 ga. products when using SPF lumber.

Fastening Identification



Round Holes Purpose: To fasten a connector. Fill Requirements Always fill, unless noted otherwise.



Obround Holes Purposit: To make fastening a connector in a tight location

Fill Plan Always fill.



Hexagonal Holes

Purpose: To fasten a connector to concrete or masonry.

Fill Requirements: fastening a connector to concrete or masonry.



Triangular Holes

Purpose: To increase a connector's strength or to achieve max, strength Fill Requirements:

specifies max, nailing,



Diamond Holes

Purpose: To temporanily (asten a connector to make installing it easier. None.



Pilot Holes Tooling holes for manufacturing purposes



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



Positive Angle Nailing (PAN) Provided when wood splitting may occur, and to speed installation.



ina nail into the

This feature guides the header at a 45° angle. U.S. Patent 5,603,580



Double-Shear Nailing

The nail is installed into the loist and header, distributing the load through two points on each joist nail for greater strength. Double-shear nailing must be full-length catalog nail.



ITS/IUS Strong-Grip* The Strong-Grip™ seat allows the I-joist to "snap" in securely without the need for joist nails.

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