Strong-Tie_.

Exterior Screws

Strong-Drive° SDWH **TIMBER-HEX SS** Screw

Structural Wood and Engineered Wood Connections Including Ledgers

Stainless-steel structural fasteners designed for lag-screw replacement. These 0.185" and 0.275" diameter hex-head fasteners require no predrilling, making them easier and faster to install than typical lag screws. It meets 2018 and 2021 IRC® and IBC® code requirements for most common wood framing applications.

Features:

- Type 316 stainless steel for maximum corrosion protection
- No predrilling necessary in most applications
- Driver bit included (replacement driver bit BITHEXR516-R1 or BITHEXR12-R1)
- Can be used in ledger applications
- Unique "box" thread design with raised-ridge technology significantly reduces driving torque
- Hex-washer head provides large bearing area

For more information regarding driver bits for Simpson Strong-Tie fasteners, see p. 129.

For Technical Data and Loads, see C-F-2023TECHSUP Fastening Systems Technical Guide, pp. 64–65, 164–165



Type 316 Stainless Steel

		Dimensions									
Model	Hex Drive		Inche	es		Millimeters					
No.	(in.)	O.D. x Length	Shank Diameter	Thread Length	Head Diameter	0.D. x Length	Shank Diameter	Thread Length	Head Diameter		
SDWH19400SS	5/16	0.255 x 4	0.185	2¾	0.455	6.5 x 101	4.7	60	11.5		
SDWH19450SS	5/16	0.255 x 4.5	0.185	2¾	0.455	6.5 x 114	4.7	70	11.5		
SDWH19500SS	5/16	0.255 x 5	0.185	23/4	0.455	6.5 x 127	4.7	60	11.5		
SDWH19600SS	5/16	0.255 x 6	0.185	2¾	0.455	6.5 x 152	4.7	60	11.5		
SDWH19800SS	5/16	0.255 x 8	0.185	23/4	0.455	6.5 x 203	4.7	60	11.5		
SDWH27300SS	1/2	0.370 x 3	0.275	3	0.655	9.5 x 76	7.0	76	16.6		
SDWH27400SS	1/2	0.370 x 4	0.275	3	0.655	9.5 x 101	7.0	76	16.6		
SDWH27500SS	1/2	0.370 x 5	0.275	3	0.655	9.5 x 127	7.0	76	16.6		
SDWH27600SS	1/2	0.370 x 6	0.275	3	0.655	9.5 x 152	7.0	76	16.6		
SDWH27800SS	1/2	0.370 x 8	0.275	3	0.655	9.5 x 203	7.0	76	16.6		
SDWH271000SS	1/2	0.370 x 10	0.275	3	0.655	9.5 x 254	7.0	76	16.6		
SDWH271200SS	1/2	0.370 x 12	0.275	3	0.655	9.5 x 305	7.0	76	16.6		

See footnotes below.

Multi-Screw Packaging

Indiv	Individually Flagged		etail Clamshell	Retail Pack		
Fasteners Qty.			Model No.	Fasteners per Pack	Model No.	
_	_	20	SDWH19400SS-R20	_	_	
_	_	10	SDWH19450SS-R10	100	SDWH19450SS-R100	
_	_	10	SDWH19500SS-R10	100	SDWH19500SS-R100	
_	_	10	SDWH19600SS-R10	_	_	
_	_	10	SDWH19800SS-R10	50	SDWH19800SS-R50	
1	SDWH27300SS-RP1	10	SDWH27300SS-R10	100	SDWH27300SS-R100	
1	SDWH27400SS-RP1	10	SDWH27400SS-R10	100	SDWH27400SS-R100	
1	SDWH27500SS-RP1	10	SDWH27500SS-R10	50	SDWH27500SS-R50	
1	SDWH27600SS-RP1	10	SDWH27600SS-R10	50	SDWH27600SS-R50	
1	SDWH27800SS-RP1	10	SDWH27800SS-R10	50	SDWH27800SS-R50	
1	SDWH271000SS-RP1	5	SDWH271000SS-R5	25	SDWH271000SS-R25	
_	_	5	SDWH271200SS-R5	25	SDWH271200SS-R25	

- 1. O.D. denotes thread outer diameter.
- 2.3" flagged fasteners per master carton: 50;
 - 4" flagged fasteners per master carton: 40;

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- 5" flagged fasteners per master carton: 40;
- 6" flagged fasteners per master carton: 35;

Structural and General Fastening



Strong-Drive®SDWH **TIMBER-HEX SS** Screw

Structural Wood-to-Wood Connections Including Ledgers, Indoor/Outdoor Projects, Applications Requiring High to Severe Corrosion Resistance

Type 316 stainless steel provides severe corrosion resistance, making it suitable for exterior and preservative-treated wood applications.

For more information, see p. 62, C-F-2023 Fastening Systems catalog



SDWH Timber Hex SS Screw — Allowable Shear Loads — Douglas Fir—Larch, Southern Pine, Spruce-Pine-Fir, Hem-Fir

		Thursd	Hand	Reference Allowable Shear Loads (lb.)				
Length (in.)	Model No.	Thread Length	Head Diameter	Wood Side Member Thickness (in.)				
		(in.)	(in.)	1½	3	3½		
4	SDWH19400SS	2.40	0.46	177	_	_		
4½	SDWH19450SS	2.75	0.46	177	177	_		
5	SDWH19500SS	2.40	0.46	177	177	177		
6	SDWH19600SS	2.40	0.46	177	177	177		
8	SDWH19800SS	2.40	0.46	177	177	177		
4	SDWH27400SS	3.00	0.65	235	_	_		
5	SDWH27500SS	3.00	0.65	235	235	235		
6	SDWH27600SS	3.00	0.65	235	235	235		
8	SDWH27800SS	3.00	0.65	235	235	235		
10	SDWH271000SS	3.00	0.65	235	235	235		
12	SDWH271200SS	3.00	0.65	235	235	235		

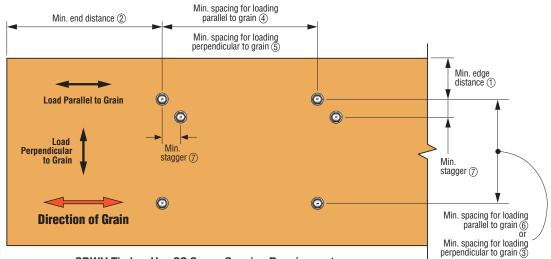
Note: See p. 65 for spacing requirements.

- 1. All applications are based on full penetration into the main member. Full penetration is the screw length minus the side member thickness.
- 2. Allowable loads are shown at the load duration factor of $C_D = 1.0$. Loads may be increased for load duration per the building code up to a $C_D = 1.6$. Tabulated values must be multiplied by all applicable adjustment factors per the NDS.
- 3. Table values based on testing in SPF lumber.
- 4. Design values include NDS wet service factor; no adjustment required for in-service moisture content greater than 19%.
- 5. Allowable loads are perpendicular or parallel to grain.
- 6. Installs best with 18V high-torque cordless or ½" low speed drill. If splitting occurs predrill with 5½" drill bit for SDWH19 screws and ½" drill bit for SDWH27 screws.
- 7. Allowable withdrawal load for the SDWH19 screw for DFL/SP is 155 lb./in. and for SPF/HF is 108 lb./in. Allowable load is based on inches of thread penetration into the main member.
- 8. Allowable withdrawal load for the SDWH27 screw for DFL/SP is 260 lb./in. and for SPF/HF is 160 lb./in. Allowable load is based on inches of thread penetration into the main member.
- 9. For LRFD values, the reference connection design values shall be adjusted in accordance with NDS-18, section 11.3.

Structural and General Fastening



Strong-Drive* SDWH **TIMBER-HEX SS** Screw (cont.)



SDWH Timber-Hex SS Screw Spacing Requirements

SDWH Timber-Hex SS Screw Spacing Requirements

Condition	Direction of Load to Grain	ID	Minimum Distance or Spacing (in.)
Edge Distance	Perpendicular	1	17/16
Euge Distance	Parallel	1	17/16
End Distance	Perpendicular	2	3
End Distance	Parallel	2	3
Charles Batuage Factorers in a Day	Perpendicular	3	3
Spacing Between Fasteners in a Row	Parallel	4	3
Chaoing Datusan Daws of Factoriers	Perpendicular	5	3
Spacing Between Rows of Fasteners	Parallel	6	3
Spacing Between Staggered Rows	Perpendicular or Parallel	7	1½

^{1.} For SDWH19 screws subject to axial loading only, use the following minimum dimensions: end distance: = 2%", edge distance = 1", spacing parallel to grain = 15%", spacing perpendicular to grain = 1".

^{2.} For SDWH27 screws subject to axial loading only, use the following minimum dimensions: end distance = 3¼", edge distance = 1%", spacing parallel to grain = 2%", spacing perpendicular to grain = 1%".

Deck Construction — Ledgers



Strong-Drive° SDWH **TIMBER-HEX SS** Screw

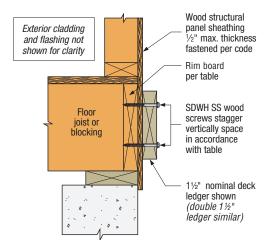
For more information, see p. 62, C-F-2023 Fastening Systems catalog



SDWH TIMBER-HEX SS — 2021 and 2018 IRC Compliant Spacing for a Sawn Lumber Deck Ledger-to-Rim Board

Condition Cond		Nominal			Rim Board			Maximum Deck Joist Span					
1	Loading Condition	ing Ledger tion Thickness	Length (in)		Material	Up to 6 ft.	Up to 8 ft.	Up to 10 ft.	Up to 12 ft.	Up to 14 ft.	Up to 16 ft.	Up to 18 ft.	
1"	Contaition	(in.)	()	110.	and Size								
40 psf Live 10 psf Dead 2x 4 SDWH27400SS					1" OSB	19	14	11	9	8	7	6	
40 psf Live 10 psf Dead 2x											·		
A0 psf Live 10 psf Dead 2x													
11/2" LVL		2x	4	SDWH27400SS							_		
134" LVL 2x SP, DFL, SPF, HF 19	TO psi Dead] 19	14	11	9	8	/	6	
2x SP, DFL, SPF, HF 19 14 11 9 8 7 6 5 4 11 0 psf Dead 2x 4 SDWH27400SS 13 10 8 7 6 5 4 11 16 0 psf Live 10 psf Dead (2) 2x 5 SDWH27500SS 15 SDWH27500SS 15 SDWH27500SS 15 SDWH27500SS 16 psf Live 10 psf Dead (2) 2x 5 SDWH27500SS 16 psf Live 10 psf Dead (2) 2x 5 SDWH27500SS 16 psf Live 10 psf Dead (2) 2x 5 SDWH27500SS 16 psf Live 10 psf Dead (2) 2x 5 SDWH27500SS 16 psf Live 10 psf Dead (2) 2x 5 SDWH27500SS 16 psf Live 10 psf Dead (2) 2x 5 SDWH27500SS 16 psf Live 10 psf Dead (2) 2x 5 SDWH27500SS 17 psf Live 10 psf Dead (2) 2x 5 SDWH27500SS 17 psf Live 11 psf Dead (2) 2x 5 SDWH27500SS 17 psf Dead (2) 2x 5 SDWH27500SS 17 psf Live 11 psf Dead (2) 2x 5 SDWH27500SS 17 psf Live 11 psf Dead (2) 2x 5 SDWH27500SS 17 psf Dead (2) 2x 5 SDWH27500SS 17 psf Dead (2) 2x 5 SDWH27500SS 17 psf De					1 1/4" LSL								
1" OSB						10	1/	11	0	Ω	7	6	
1"													
15/4c 1/4 1/					1" LVL	13	10	8	7	6	5	4	
SDWH27400SS			2x 4		11/4" OSB								
11½" LVL	60 psf Live	0.,		CDW/U07400CC				8		6			
11/4" LSL 13/4" LVL 2x SP, DFL, SPF, HF 13 10 8 7 6 5 4	10 psf Dead	_ ZX		SDW02140055	1 1/4 USB 1 1/6" I VI							4	
2x SP, DFL, SPF, HF													
1" OSB													
1" LVL 19 14 11 9 8 7 6						13	10	8	7	6	5	4	
1 1/6" OSB 15/16" LVL 11/4" OSB 11/4" UVL 11/4" UVL 11/4" LSL 13/4" LVL 11/4" OSB 17/4" LVL 11/4" LSL 13/4" LVL 11/4" OSB 17/4" LVL 11/4" UVL 11/4" UVL 11/4" UVL 11/4" UVL 11/4" OSB 17/4" UVL 11/4" OSB 11/4" UVL 11/4" OSB 11			2x 5			19	14	11	9	8	7	6	
10 psf Live 10 psf Dead (2) 2x 5 SDWH27500SS 11/4" USL 13 10 10 10 10 10 10 10							14	11	9	8	7		
10 psf Dead (2) 2x 5 SDWH27500SS 1 1/4 USB 19 14 11 9 8 7 6 11/2 UVL 2x SP, DFL, SPF, HF 19 14 11 9 8 7 6 19 14 11 19 8 7 6 19 19 19 19 19 19 19 19 19 19 19 19 19	40 pef Livo												
1 1/2" LVL 11/4" LSL 13/4" LVL 2x SP, DFL, SPF, HF 19 14 11 9 8 7 6 1" LVL 11/6" OSB 11" LVL 11/6" OSB 15/6" LVL 15/		(2) 2x		SDWH27500SS		19						6	
13/4" LVL 2x SP, DFL, SPF, HF 19 14 11 9 8 7 6 1" OSB 1" LVL 11/6" OSB 15/16" LVL 11/6" OSB 15/16" LVL 11/4" OSB 11/4" USB					1 ½" LVL	<u> </u> 							
2x SP, DFL, SPF, HF 19 14 11 9 8 7 6 1" OSB 1" LVL 1½" OSB 15 EVL 10 psf Dead (2) 2x 5 SDWH27500SS 11½" LVL 13 10 8 7 6 5 4						-							
1" LVL 13 10 8 7 6 5 4 1" LVL 13 10 8 7 6 5 4 1½" OSB 1½" E LVL 10 psf Dead (2) 2x 5 SDWH27500SS 1½" E LVL 13 10 8 7 6 5 4					2x SP, DFL, SPF, HF	19	14	11	9	8	7	6	
1" LVL 11/6" OSB 15/16" LVL 10 psf Dead (2) 2x 5 SDWH27500SS 11/4" OSB 11/2" LVL 13 10 8 7 6 5 4						13	10	8	7	6	5	4	
60 psf Live 10 psf Dead (2) 2x 5 SDWH27500SS 11½" USB 11½" LVL 13 10 8 7 6 5 4													
60 psf Live 10 psf Dead (2) 2x 5 SDWH27500SS 11/4" OSB 11/2" LVL 13 10 8 7 6 5 4						13			7	6	5		
1 ½" LVL		(2) 2x	(2) 2x 5	SDWH27500SS			10	8				4	
11/-" C												4	
174 LOL 13/4" LVL					11/4" LSL								
2x SP, DFL, SPF, HF 13 10 8 7 6 5 4						13	10	8	7	6	5	4	

See footnotes on next page.



Ledger-to-Rim Board Assembly

(wood-framed lower floor acceptable; concrete wall shown for illustration purposes)

Deck Construction – Ledgers



Strong-Drive° SDWH **TIMBER-HEX SS** Screw (cont.)

SDWH TIMBER-HEX SS — 2021 and 2018 IRC Compliant Spacing for a Sawn Lumber Deck Ledger-to-Rim Board

	Nominal					Maximum Deck Joist Span						
Loading Ledger Condition Thickness		Length (in.)	Model No.	Rim Board Material and Size	Up to 6 ft.	Up to 8 ft.	Up to 10 ft.	Up to 12 ft.	Up to 14 ft.	Up to 16 ft.	Up to 18 ft.	
	(in.)					Maxim	ium On-Cen	ter Spacin	g of Fasten	ers (in.)		
				1" OSB	4.4	11	8	7	6	5	5	
				1" LVL	14	11	8	/	6	5) 5	
				11/8" OSB								
40 (11)				15/16" LVL								
40 psf Live 10 psf Dead	2x	4	SDWH19400SS	11/4" OSB	14	11	8	7	6	5	5	
10 po. 2000				1 ½" LVL	14	11	0	,	0	J]	
				1 1/4" LSL								
				13⁄4" LVL								
				2x SP, DFL, SPF, HF	14	11	8	7	6	5	5	
			SDWH19400SS	1" OSB	10	8	6	5	4	4	3	
				1" LVL	10	0	0	J	7	7	J	
				11/8" OSB		8	6	5	4	4		
60 psf Live				15/16" LVL	10						3	
10 psf Dead	2x	4		11/4" OSB								
				1 1/2" LVL								
				1 1/4" LSL								
				13/4" LVL								
				2x SP, DFL, SPF, HF	10	8	6	5	4	4	3	
				1" OSB	14	11	8	7	5	5	5	
				1" LVL				<u> </u>				
				11/8" OSB			8	7	5	5		
40 psf Live				15/16" LVL								
10 psf Dead	(2) 2x	5	SDWH19500SS	11/4" OSB	14	11					5	
				1 1/2" LVL							_	
				1 1/4" LSL	_							
				1 3/4" LVL			_	_		_	_	
				2x SP, DFL, SPF, HF	14	11	8	7	5	5	5	
				1" OSB	10	8	6	5	4	4	3	
60 psf Live 10 psf Dead (2) 2x				1" LVL								
				11/8" OSB	_			5				
	(0) 0	_	000000000000000000000000000000000000000	15/16" LVL		8	6					
	(2) 2x	5	SDWH19500SS	11/4" OSB	10				4	4	3	
				1½" LVL					1			
				11/4" LSL								
				13/4" LVL	10							
				2x SP, DFL, SPF, HF	10	8	6	5	4	4	3	

- 1. Screw spacing values are equivalent to 2021/2018 IRC Table R507.9.1.3(1) and 2015 IRC Table R507.2. The table above also provides screw spacing for a wider range of materials commonly used for band joists, and an alternate loading condition as required by some jurisdictions.
- Sawn rim board shall be spruce-pine-fir, hem-fir, Douglas fir–larch, or southern pine species. Ledger shall be hem-fir, Douglas fir–larch, or southern pine species.
- Fastener spacings are based on the lesser of single fastener ICC-ES AC233 testing with a safety factor of 5.0 or ledger assembly testing with a factor of safety of 5.0. Spacing includes NDS wet service factor adjustment.
- Multiple ledger plies shall be fastened together per code independent of the screws.
- 5. Screws shall be placed 1.5" to 2" from the top and bottom of the ledger or rim board with 3" minimum and 6" maximum vertical distance between fasteners with horizontal on-center spacing per the table. End screws shall be located 6" from the end and at 1.5" to 2" from the bottom of the ledger. For screws located at least 2" but less than 6" from the end, use 50% of the load per screw and 50% of the table spacing between the end screw and the adjacent screw, and for screws located between 2" and 4" from the end, predrill using a 5½" drill bit for SDWH19SS and ½z" drill bit for SDWH27SS.
- 6. Structural sheathing between the ledger and band shall be a maximum of $\frac{1}{2}$ " thick and fastened per code.
- 7. See figure on previous page.
- Visit strongtie.com/drawings and search for SD1-L for additional ledger fastening detail sheets and load tables in DWG, PDF or DXF format.

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Deck Construction — Ledgers



Strong-Drive®

SDS, SDWS and SDWH Sawn Lumber Deck Ledger to Band Joist Applications

Simpson Strong-Tie Company manufactures six fastener types that are suitable for installing ledgers to band joist floor framing. The fasteners do not require predrilling and can be made of stainless steel or carbon steel that has a double barrier coating or is hot-dip galvanized. The design table is based on the lesser of single-fastener connection testing in compliance with ICC-ES AC233 or ledger assembly testing following ICC-ES AC13 with an applied factor of safety of 5.0. Loads include NDS wet service factor adjustment.

Allowable Shear Loads for Attachment of Lumber Deck Ledger to Band Joist

Fastener	Nominal Ledger Size	Screw Length (in.)	Model No.	Band Joist Material and Minimum Size	Allowable Shear Load (lb.)
	2x			1" OSB OR 1" LVL	170
	2x		00/4/000 40000	11/8" OSB	205
Strong Drive SDWS TIMBER Screw	2x	4	SDWS22400DB	15/16" LVL OR 11/4" LSL	265
	2x			2x Nominal Sawn Lumber	270
	2-2x			1" OSB OR 1" LVL	190
	2-2x	_	0000000000	1 1/8" OSB	200
	2-2x	- 5	SDWS22500DB	15/16" LVL OR 11/4" LSL	200
	2-2x			2x Nominal Sawn Lumber	200
	2x			1" OSB OR 1" LVL	155
Strong Drive SDWH	2x		CDWII10 400DD	1 1/8" OSB	220
TIMBER-HEX Screw	2x	4	SDWH19400DB	15/16" LVL OR 11/4" LSL	225
	2x			2x Nominal Sawn Lumber	190
	2x			1" OSB OR 1" LVL	235
	2x	4	SDWH27400SS	11/8" OSB	235
	2x			15/16" LVL OR 11/4" LSL	235
	2x			2x Nominal Sawn Lumber	235
	2-2x			1" OSB OR 1" LVL	235
	2-2x	5	CDWIIOZEOOCC	11/8" OSB	235
	2-2x		SDWH27500SS	15/16" LVL OR 11/4" LSL	235
Strong Drive SDWH	2-2x			2x Nominal Sawn Lumber	235
TIMBER-HEX SS Screw	2x			1" OSB OR 1" LVL	177
	2x	4	CDWII10400CC	11/8" OSB	177
	2x	1 4	SDWH19400SS	15/16" LVL OR 11/4" LSL	177
	2x			2x Nominal Sawn Lumber	177
	2-2x			1" OSB OR 1" LVL	177
	2-2x	5	SDWH19500SS	11/8" OSB	177
	2-2x] 5	3DWH1930033	15/16" LVL OR 11/4" LSL	177
	2-2x			2x Nominal Sawn Lumber	177
	2x			1" OSB OR 1" LVL	155
	2x	3½	SDS25312	1 1/8" OSB	185
Strong Drive SDS HEAVY-DUTY CONNECTOR Screw	2x	J 72	30020312	15/16" LVL OR 11/4" LSL	190
	2x			2x Nominal Sawn Lumber	165
	2-2x	5	SDS25500	2x Nominal Sawn Lumber	165

Footnotes on next page.

Deck Construction — Ledgers

Strong-Tie

Strong-Drive®

SDS, SDWS and SDWH HDG Sawn Lumber Deck Ledger to Band Joist Applications (cont.)

Allowable Shear Loads for Attachment of Lumber Deck Ledger to Band Joist (cont.)

Fastener	Nominal Ledger Size	Screw Length (in.)	Model No.	Band Joist Material and Minimum Size	Allowable Shear Load (lb.)
				1" OSB OR 1" LVL	160
	2x	4	SDWS27400SS	11/8" OSB	225
		4	300032740033	15/16" LVL OR 11/4" LSL	225
Strong Drive TIMBER SS				2x Nominal Sawn Lumber	225
Screw				1" OSB OR 1" LVL	190
	2-2x	5	SDWS27500SS	1 1/8" OSB	190
			300032730033	15/16" LVL OR 11/4" LSL	190
				2x Nominal Sawn Lumber	190
		4		1" OSB OR 1" LVL	280
	2x		SDWH27400G	1 1/8" OSB	280
			3DWH274000	15/16" LVL OR 11/4" LSL	280
Strong Drive SDWH				2x Nominal Sawn Lumber	280
TIMBER-HEX HDG Screw				1" OSB OR 1" LVL	315
	2-2x	6	SDWH27600G	11/8" OSB	
	Z-ZX	6	3DWH27000G	15/16" LVL OR 11/4" LSL	315
				2x Nominal Sawn Lumber	315

- 1. Specific gravity of the solid sawn band joists and ledgers shall be typical of species combinations with $0.42 \le SG \le 0.55$.
- 2. Multiple ledger plies shall be fastened together per code independent of the SDS, SDWS or SDWH fasteners listed in the table.
- 3. Allowable loads are shown at the wood load duration factor of C_D = 1.0. Loads may be increased for load duration by the building code up to a $C_D = 1.6$.
- 4. Structural sheathing between the ledger and band joist shall be a maximum of ½" thick and fastened per code.
- 5. See Screw Spacing Detail on the following page for spacing requirements.
- 6. End screws shall be located near the bottom of the ledger. For end distances between 2" and 6", use 50% of the load and 50% of the standard spacing between the end screw and the adjacent screw. For end distances between 2" and 4", predrill using a $\frac{1}{2}$ drill bit for SDWH27SS fasteners, a $\frac{1}{2}$ drill bit for SDWH27G and SDWS27SS fasteners, a $\frac{1}{2}$ drill bit for SDS, SDWS22DB, and SDWH19SS fasteners, and a 1/8" drill bit for SDWH19DB.
- 7. Visit strongtie.com/drawings and search for SD1-L for additional ledger fastening detail sheets and load tables in DWG, PDF

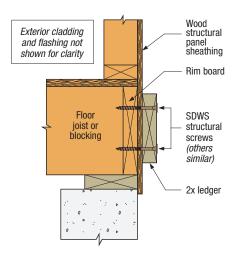
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Deck Construction — Ledgers

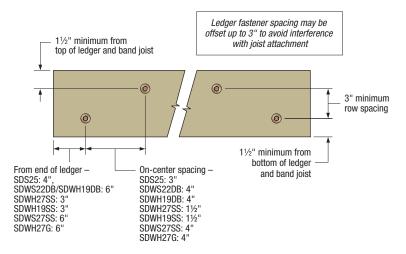
SIMPSON Strong-Tie

Strong-Drive®

SDS, SDWS and SDWH — Lumber Deck Ledger-to-Band Joist Applications (cont.)



Ledger-to-Band Joist Assembly



Screw Spacing Detail