

FROM NDS	SHEAR	SHEAR	DIA	Wood-Wood	Metal-Wood	PULLOUT
* 10d common nail				117 lb		
* 16d common nail	.162"	138 lb.		134 lb.		40 lb.
* 16d sinker	.148"	115 lb.		112 lb		Not listed in table.
* 16d box (nail gun)	.131"	95 lb.		93 lb.		33 lb.
* #6 screw	.138	71 lb.		70 lb.		141 lb.
* #8 screw	.164	90 lb.		89 lb.		168 lb.

**Simpson SD Screws:**  
Allowable Shear Loads with Steel Side Plate

Size (in.)	Model No.	Thread Length (in.)	DF/SP Allowable Loads (lbs)		SPF/HF Allowable Loads (lbs)	
			Steel Side Plate Shear (100) 20 ga - 12 ga	Shear (100)	Steel Side Plate Shear (100) 20 ga - 12 ga	Shear (100)
#9x1 1/2	SD9112	1	171		112	
#9x2	SD9212	1	200		112	
#10x1 1/2	SD10112	1	173		138	
#10x2	SD10212	1	215		165	

- Allowable loads are shown at the wood load duration factor of  $C_D = 1.00$ . Loads may be increased for load duration per the building code up to a  $C_D = 1.60$ .
- Allowable withdrawal load for DF/SP is 173 lbs./in. and for SPF/HF withdrawal is 122 lbs./in. Total withdrawal load is based on actual thread penetration into the main member.
- Withdrawal load for wood side member thickness of 1 5/8" is limited to the pull-through load of 130 lbs.

Size (in.)	Model No.	Thread Length (in.)	DF/SP Allowable Loads (lbs)		SPF/HF Allowable Loads (lbs)	
			Shear (100)	Side Plate Thickness (in.)	Shear (100)	Side Plate Thickness (in.)
#9x1 1/2	SD9112	1	105	1 1/2	93	1 1/2
#9x2	SD9212	1	118	1 3/8	99	1 1/2
#10x1 1/2	SD10112	1	127	1 1/2	102	1 1/2
#10x2	SD10212	1	147	1 5/8	106	1 1/2

1. Allowable loads are shown at the wood load duration factor of  $C_D = 1.00$ . Loads may be increased for load duration per the building code up to a  $C_D = 1.60$ . The 1 5/8", and 2 3/8" side members must be ply wood or OSB with minimum equivalent species gravities of 0.50 for DF and SP design values, and 0.42 for SPF and HF design values.

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3 SEASON  
Project Name: SINSPACE LAT LOAD Number: 15-008  
Designed by: H.C.W. Date: 3/20/15  
Checked by: \_\_\_\_\_ Date: \_\_\_\_\_  
Sheet \_\_\_\_\_ of \_\_\_\_\_

DATE: 03/20/2015  
JOB NO: DR-6400  
DRAWN BY: PJS  
DWG NO: Sheet 7 of 8

Dreamroom 6400 Series®  
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