

Load Chart 10A: Premier Wall SIPs^{1,2} Maximum Allowable Shear Wall Loads

Panel Type	Minimum OSB Face Thickness	Attachments				Shear (plf)
		2x Framing		Splines		
		Fasteners	Spacing	Fasteners	Spacing	
L or S	7/16"	8d box nail	6 inches	8d nail	6 inches	300
S	7/16"	8d box nail	4 inches	#6 screw ³	4 inches	600 ⁴

1. Framing lumber shall be a minimum of SPF #2 having a minimum specific gravity of 0.43.
2. The maximum panel height-to-width ratio shall be 3.5:1
3. Screws are #6 x 1-1/4 inch Type W drywall screws.
4. Two top plates are required.

Load Chart 10B: Premier Wall SIPs^{1,2} Maximum Allowable Shear Wall Loads

Panel Type	Minimum OSB Face Thickness	Attachments				Shear (plf)
		Top Plate	Bottom Plate	Vertical Framing	Splines ⁵	
L or S	7/16"	8d box nail 6" oc	8d box nail 6" oc	8d box nail 6" oc - 2 rows ⁴	8d box nail 6" oc	470
L or S	7/16"	8d box nail 4" oc - 2 rows ³	8d box nail 4" oc	8d box nail 4" oc - 2 rows ⁴	8d box nail 4" oc	700
L or S	7/16"	10d box nail 6" oc - 2 rows ³	10d box nail 3" oc	10d box nail 6" oc - 2 rows ⁴	10d box nail 3" oc - 2 rows	1010

1. Framing lumber shall be a minimum of SPF #2 having a minimum specific gravity of 0.43.
2. The maximum panel height-to-width ratio shall be 3.5:1
3. A double top plate is required.
4. A double stud or nominal 4x framing member is required.
5. Splines are 7/16" by 3" OSB.

Load Chart 11: Premier SIPs¹ Maximum Allowable Diaphragm Loads

Minimum OSB Face Thickness	Attachments						Shear (plf)
	Panel Supports		Panel Joints - Top Only		Panel Joints - Top & Bottom		
	Fasteners	Spacing	Fasteners	Spacing	Fasteners	Spacing	
7/16"	PBS Screw ²	12 inches	8d nail	3 inches	8d nail	6 inches	425
7/16"	PBS Screw ²	3 inches	8d nail	2 inches	8d nail	4 inches	510
7/16"	PBS Screw ²	4 inches	8d nail - 2 rows	3 inches	8d nail - 2 rows	6 inches	917
23/32"	PBS Screw ²	4 inches	8d nail - 2 rows	3 inches	8d nail - 2 rows	6 inches	1136

1. The maximum panel height-to-width ratio shall be 4.5:1.
2. Premier Building Systems specially-designed big screws.