


Low Profile Saddle Sill


SL60

TYPE OF TEST	INWARD OPENING UNITS (based on outswing unit test)	OUTWARD OPENING UNITS				
 <p>Air Infiltration ^① ASTM E-283, ft³/min./ft. in accordance with NFRC 400</p>	@ 1.57 psf (75 Pa): 0.10 (0.08 exfiltration) A3 ^③	@ 1.57 psf (75 Pa): 0.08 (0.10 exfiltration) A3 ^③				
	@ 6.24 psf (300 Pa): 0.37	@ 6.24 psf (300 Pa): 0.17				
 <p>Water Penetration ^① ASTM E-547 and E-331</p>	<p>#1. Unit with weep holes from middle channel: No uncontrolled water entry @ 2.1 psf (100 Pa)</p> <p>Subject to the following adaptations of the sill in the field by others:</p> <ol style="list-style-type: none"> Remove the gaskets covering the middle channel. Drill weep holes through the outer bottom wall in middle channel (3/8" weep hole per panel). Drill weep holes through the lower front face of sill (3/8" weep hole per panel). 					
	<p>#2. Unit with weep holes from inner channel: No uncontrolled water entry @ 5.43 psf (260 Pa)</p> <p>Subject to the following adaptations of the sill in the field by others:</p> <ol style="list-style-type: none"> Remove the gaskets covering the inner channel. Drill weep holes through the bottom of this channel (about one 3/8" weep hole per panel). Drill weep holes through the lower front face of the sill to the inner channel bottom (about 3/8" weep hole per panel). <p>Please note that due to varying site requirements and conditions, these sills will not be prepared for drainage by Nana Wall Systems, Inc. If this drainage system is desired, we recommend that a qualified professional construct this system on the project site strictly in accordance with NanaWall instructions with good waterproofing techniques. If drain connections are not made or are not possible, unit may leak with wind driven rain.</p>					
 <p>Structural Load Deflection ^① ASTM E-330: pass See design windload charts for other sized panels <i>Note that the structural test pressures were 50% higher than the design pressures.</i></p>	<p>DESIGN PRESSURE</p> <table border="1"> <tr> <td>Positive @ 40 psf (1920 Pa)</td> <td>Negative @ 45 psf (2160 Pa)</td> </tr> </table> <p>For saddle sill specimen #2 above, class SP-PG35, Panel size - 3' 1" x 8' (940 mm x 2450 mm) ^② (weep holes by others)</p>	Positive @ 40 psf (1920 Pa)	Negative @ 45 psf (2160 Pa)	<p>DESIGN PRESSURE</p> <table border="1"> <tr> <td>Positive @ 45 psf (2160 Pa)</td> <td>Negative @ 40 psf (1920 Pa)</td> </tr> </table> <p>For saddle sill specimen #2 above, class SP-PG35, Panel size - 3' 1" x 8' (940 mm x 2450 mm) ^② (weep holes by others)</p>	Positive @ 45 psf (2160 Pa)	Negative @ 40 psf (1920 Pa)
	Positive @ 40 psf (1920 Pa)	Negative @ 45 psf (2160 Pa)				
Positive @ 45 psf (2160 Pa)	Negative @ 40 psf (1920 Pa)					
<p>In accordance with AAMA -1304 requirements PAS24: option of burglary resistance</p>						
 <p>Life Cycle Performance</p>	<p>The SL60 meets the German "DIN EN 1191/12400 Classification," where a unit is tested after 20,000 opening and closing cycles and is still functional. Meets AAMA 920 for swing panel attached to the side jamb with surface mounted hinges: 500,000 cycles - pass ^②</p>					

① Excerpts of results of 13'1" W x 8'6" H (4000 mm x 2600 mm) 4 panel unit with saddle sill tested by Architectural Testing Inc., an independent testing laboratory, in October 2015 per AAMA/WDMA/CSA 101/1.S.2/A440, NAFS - North American Fenestration Standard

② Excerpts of results of 3/4" W x 8'5" H one panel unit tested by Architectural Testing, Inc., Fresno, CA, an independent testing laboratory in April 2013.

③ For Canada, tested to NAFS-08 or equivalent and CSA A44051-09 (with weep holes installed by others).

 <p>Thermal Performance (Top-hung units)</p>			Rated, certified and labeled in accordance with NFRC 100 + 200				INWARD OPENING UNITS				OUTWARD OPENING UNITS			
TYPE OF GLASS (1 LITE) ^④	CENTER OF GLASS U-FACTOR	IG GLASS THICKNESS	UNIT U-FACTOR	SHGC ^⑤	VT ^⑥	2015 ENERGY STAR	UNIT U-FACTOR	SHGC ^⑤	VT ^⑥	2015 ENERGY STAR	UNIT U-FACTOR	SHGC ^⑤	VT ^⑥	2015 ENERGY STAR
Double IG Clear (air filled)	.48	15/16" (24 mm)	.49	.49	.52	-	.50	.49	.52	-	.50	.49	.52	-
Double IG Low E (argon filled)	.26	15/16" (24 mm)	.34	.19	.41	-	.34	.19	.41	-	.34	.19	.41	-
Double IG Low E (air filled)	.30	15/16" (24 mm)	.37	.19	.41	-	.37	.19	.41	-	.37	.19	.41	-
Double IG Low E #2 & #4 surfaces (argon filled)	.21	15/16" (24 mm)	.30	.18	.39	*	.31	.18	.38	*	.31	.18	.38	*
Double IG Low E #2 & #4 surfaces (air filled)	.24	15/16" (24 mm)	.32	.18	.39	-	.33	.18	.39	-	.33	.18	.39	-
Triple IG Low E x 2 (argon filled)	.13	1 3/8" (35 mm)	.25	.23	.38	*	.26	.23	.38	*	.26	.23	.38	*
Triple IG Low E x 2 (air filled)	.16	1 3/8" (35 mm)	.28	.23	.38	*	.28	.23	.38	*	.28	.23	.38	*
Triple IG Low E x 2 (hard coat, argon filled)	.13	1 3/8" (35 mm)	.28	.40	.43	**	.28	.40	.43	**	.28	.40	.43	**
Triple IG Low E x 2 (hard coat, air filled)	.16	1 3/8" (35 mm)	.30	.40	.43	**	.30	.40	.43	**	.30	.40	.43	**

 <p>Thermal Performance (Floor supported units)</p>			Rated, certified and labeled in accordance with NFRC 100 + 200				INWARD OPENING UNITS				OUTWARD OPENING UNITS			
TYPE OF GLASS (1 LITE) ^④	CENTER OF GLASS U-FACTOR	IG GLASS THICKNESS	UNIT U-FACTOR	SHGC ^⑤	VT ^⑥	2015 ENERGY STAR	UNIT U-FACTOR	SHGC ^⑤	VT ^⑥	2015 ENERGY STAR	UNIT U-FACTOR	SHGC ^⑤	VT ^⑥	2015 ENERGY STAR
Double IG Clear (air filled)	.48	15/16" (24 mm)	.49	.50	.53	-	.49	.50	.53	-	.49	.50	.53	-
Double IG Low E (argon filled)	.26	15/16" (24 mm)	.33	.19	.42	-	.33	.19	.42	-	.33	.19	.42	-
Double IG Low E (air filled)	.30	15/16" (24 mm)	.36	.19	.42	-	.36	.19	.42	-	.36	.19	.42	-
Double IG Low E #2 & #4 surfaces (argon filled)	.21	15/16" (24 mm)	.30	.18	.39	*	.30	.18	.39	*	.30	.18	.39	*
Double IG Low E #2 & #4 surfaces (air filled)	.24	15/16" (24 mm)	.32	.18	.39	-	.32	.19	.39	-	.32	.19	.39	-
Triple IG Low E x 2 (argon filled)	.13	1 3/8" (35 mm)	.24	.24	.37	*	.25	.24	.39	*	.25	.24	.39	*
Triple IG Low E x 2 (air filled)	.16	1 3/8" (35 mm)	.27	.24	.39	*	.27	.24	.39	*	.27	.24	.39	*
Triple IG Low E x 2 (hard coat, argon filled)	.13	1 3/8" (35 mm)	.27	.41	.43	-	.27	.41	.43	-	.27	.41	.43	-
Triple IG Low E x 2 (hard coat, air filled)	.16	1 3/8" (35 mm)	.29	.41	.43	-	.29	.41	.43	-	.29	.41	.43	-

NOTES

④ NFRC simulated U factors of units with a horizontal mullion will have values of .01 to .03 higher than units with no horizontal mullion. Please contact NanaWall for details.

⑤ SHGC = Solar Heat Gain Coefficient
⑥ VT = Visible Transmittance

* 2015 Energy Star Qualification Criteria: U-Factor for doors in all climate zones ≤30, SHGC ≤25 in South/South Central zones and ≤40 in North/North Central zones. (For guidance only. NanaWall is not a participant of the Energy Star program.)

** Meets SHGC Energy Star Qualification criteria for North/North Central zones only.

Call NanaWall for U-Factor & SHGC for other glass types