



The way it should be.™

8800 SERIES THERMAL PERFORMANCE CHART

Style	Glass Strength	Reinforcement	Configuration	Without Grids					With Grids				
				NFRC CPD #	U-Factor	R-Value	SHGC	VT	NFRC CPD #	U-Factor	R-Value	SHGC	VT
Vinyl Double Hung Window	DS-LAMI (PVB090)	A8	LE-CL	WCW-M-30-00230-00001	0.32	3.13	0.23	0.44	WCW-M-30-00230-00002	0.32	3.13	0.20	0.39
			BZ-LE	WCW-M-30-00224-00001	0.32	3.13	0.25	0.33	WCW-M-30-00224-00002	0.32	3.13	0.23	0.29
			GR-LE	WCW-M-30-00224-00003	0.32	3.13	0.23	0.30	WCW-M-30-00224-00004	0.32	3.13	0.21	0.26
			LE-LE	WCW-M-30-00234-00001	0.28	3.57	0.21	0.40	WCW-M-30-00234-00002	0.28	3.57	0.19	0.35
	DST-LAMI (PVB090)		LE-CL	WCW-M-30-00230-00001	0.32	3.13	0.23	0.44	WCW-M-30-00230-00002	0.32	3.13	0.20	0.39
			BZ-LE	WCW-M-30-00224-00001	0.32	3.13	0.25	0.33	WCW-M-30-00224-00002	0.32	3.13	0.23	0.29
			GR-LE	WCW-M-30-00224-00003	0.32	3.13	0.23	0.30	WCW-M-30-00224-00004	0.32	3.13	0.21	0.26
			LE-LE	WCW-M-30-00234-00001	0.28	3.57	0.21	0.40	WCW-M-30-00234-00002	0.28	3.57	0.19	0.35
	DS-LAMI (SGP090)	LE-CL	WCW-M-30-00297-00001	0.32	3.13	0.23	0.44	WCW-M-30-00297-00002	0.32	3.13	0.20	0.39	
		BZ-LE	WCW-M-30-00297-00005	0.32	3.13	0.25	0.32	WCW-M-30-00297-00006	0.32	3.13	0.23	0.29	
		GR-LE	WCW-M-30-00297-00007	0.32	3.13	0.23	0.29	WCW-M-30-00297-00008	0.32	3.13	0.21	0.26	
		LE-LE	WCW-M-30-00298-00001	0.28	3.57	0.21	0.39	WCW-M-30-00298-00002	0.28	3.57	0.19	0.35	
	DST-LAMI (SGP090)	LE-CL	WCW-M-30-00297-00001	0.32	3.13	0.23	0.44	WCW-M-30-00297-00002	0.32	3.13	0.20	0.39	
		BZ-LE	WCW-M-30-00297-00005	0.32	3.13	0.25	0.32	WCW-M-30-00297-00006	0.32	3.13	0.23	0.29	
		GR-LE	WCW-M-30-00297-00007	0.32	3.13	0.23	0.29	WCW-M-30-00297-00008	0.32	3.13	0.21	0.26	
		LE-LE	WCW-M-30-00298-00001	0.28	3.57	0.21	0.39	WCW-M-30-00298-00002	0.28	3.57	0.19	0.35	
Vinyl Horizontal Sliding Window	DS-LAMI (PVB090)	A8	LE-CL	WCW-M-29-00209-00001	0.32	3.13	0.22	0.44	WCW-M-29-00209-00002	0.32	3.13	0.20	0.39
			BZ-LE	WCW-M-29-00209-00003	0.32	3.13	0.25	0.32	WCW-M-29-00209-00004	0.32	3.13	0.22	0.29
			GR-LE	WCW-M-29-00209-00005	0.32	3.13	0.23	0.29	WCW-M-29-00209-00006	0.32	3.13	0.21	0.26
			LE-LE	WCW-M-29-00210-00001	0.28	3.57	0.21	0.40	WCW-M-29-00210-00002	0.28	3.57	0.19	0.35
	DST-LAMI (PVB090)		LE-CL	WCW-M-29-00209-00001	0.32	3.13	0.22	0.44	WCW-M-29-00209-00002	0.32	3.13	0.20	0.39
			BZ-LE	WCW-M-29-00209-00003	0.32	3.13	0.25	0.32	WCW-M-29-00209-00004	0.32	3.13	0.22	0.29
			GR-LE	WCW-M-29-00209-00005	0.32	3.13	0.23	0.29	WCW-M-29-00209-00006	0.32	3.13	0.21	0.26
			LE-LE	WCW-M-29-00210-00001	0.28	3.57	0.21	0.40	WCW-M-29-00210-00002	0.28	3.57	0.19	0.35
	DS-LAMI (SGP090)	LE-CL	WCW-M-29-00186-00001	0.32	3.13	0.22	0.43	WCW-M-29-00186-00002	0.32	3.13	0.20	0.38	



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Style	Glass Strength	Reinforcement	Configuration	Without Grids					With Grids				
				NFRC CPD #	U-Factor	R-Value	SHGC	VT	NFRC CPD #	U-Factor	R-Value	SHGC	VT
Vinyl Horizontal Sliding Window	DS-LAMI (SGP090)	A8	BZ-LE	WCW-M-29-00186-00005	0.32	3.13	0.25	0.32	WCW-M-29-00186-00006	0.32	3.13	0.22	0.28
			GR-LE	WCW-M-29-00186-00007	0.32	3.13	0.23	0.29	WCW-M-29-00186-00008	0.32	3.13	0.21	0.26
			LE-LE	WCW-M-29-00187-00001	0.28	3.57	0.21	0.39	WCW-M-29-00187-00002	0.28	3.57	0.19	0.34
	DST-LAMI (SGP090)		LE-CL	WCW-M-29-00186-00001	0.32	3.13	0.22	0.43	WCW-M-29-00186-00002	0.32	3.13	0.20	0.38
			BZ-LE	WCW-M-29-00186-00005	0.32	3.13	0.25	0.32	WCW-M-29-00186-00006	0.32	3.13	0.22	0.28
			GR-LE	WCW-M-29-00186-00007	0.32	3.13	0.23	0.29	WCW-M-29-00186-00008	0.32	3.13	0.21	0.26
			LE-LE	WCW-M-29-00187-00001	0.28	3.57	0.21	0.39	WCW-M-29-00187-00002	0.28	3.57	0.19	0.34
Vinyl Fixed Window (Picture)	LAMI-DS (PVB090)	NO	LE-CL	WCW-M-28-00195-00001	0.26	3.85	0.25	0.50	WCW-M-28-00195-00002	0.26	3.85	0.23	0.45
			BZ-LE	WCW-M-28-00132-00003	0.26	3.85	0.23	0.29	WCW-M-28-00132-00004	0.26	3.85	0.21	0.26
			GR-LE	WCW-M-28-00132-00005	0.26	3.85	0.21	0.25	WCW-M-28-00132-00006	0.26	3.85	0.19	0.22
			LE-LE	WCW-M-28-00199-00001	0.22	4.55	0.23	0.45	WCW-M-28-00199-00002	0.22	4.55	0.21	0.41
	LAMI-3S (PVB090)		LE-CL	WCW-M-28-00133-00001	0.26	3.85	0.25	0.50	WCW-M-28-00133-00002	0.26	3.85	0.23	0.45
			BZ-LE	WCW-M-28-00133-00005	0.26	3.85	0.23	0.29	WCW-M-28-00133-00006	0.26	3.85	0.21	0.26
			GR-LE	WCW-M-28-00133-00007	0.26	3.85	0.22	0.24	WCW-M-28-00133-00008	0.26	3.85	0.20	0.22
			LE-LE	WCW-M-28-00136-00001	0.22	4.55	0.24	0.46	WCW-M-28-00136-00002	0.22	4.55	0.21	0.41
	LAMI-DST (PVB090)		LE-CL	WCW-M-28-00195-00001	0.26	3.85	0.25	0.50	WCW-M-28-00195-00002	0.26	3.85	0.23	0.45
			BZ-LE	WCW-M-28-00132-00003	0.26	3.85	0.23	0.29	WCW-M-28-00132-00004	0.26	3.85	0.21	0.26
			GR-LE	WCW-M-28-00132-00005	0.26	3.85	0.21	0.25	WCW-M-28-00132-00006	0.26	3.85	0.19	0.22
			LE-LE	WCW-M-28-00199-00001	0.22	4.55	0.23	0.45	WCW-M-28-00199-00002	0.22	4.55	0.21	0.41
	LAMI-3ST (PVB090)		LE-CL	WCW-M-28-00133-00001	0.26	3.85	0.25	0.50	WCW-M-28-00133-00002	0.26	3.85	0.23	0.45
			BZ-LE	WCW-M-28-00133-00005	0.26	3.85	0.23	0.29	WCW-M-28-00133-00006	0.26	3.85	0.21	0.26
			GR-LE	WCW-M-28-00133-00007	0.26	3.85	0.22	0.24	WCW-M-28-00133-00008	0.26	3.85	0.20	0.22
			LE-LE	WCW-M-28-00136-00001	0.22	4.55	0.24	0.46	WCW-M-28-00136-00002	0.22	4.55	0.21	0.41
	LAMI-DS (SGP090)		LE-CL	WCW-M-28-00181-00001	0.26	3.85	0.25	0.49	WCW-M-28-00181-00002	0.26	3.85	0.22	0.44
			BZ-LE	WCW-M-28-00141-00001	0.26	3.85	0.27	0.36	WCW-M-28-00141-00002	0.26	3.85	0.24	0.33



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				NFRC CPD #	U-Factor	R-Value	SHGC	VT	NFRC CPD #	U-Factor	R-Value	SHGC	VT		
Vinyl Fixed Window (Picture)	LAMI-DS (SGP090)	NO	GR-LE	WCW-M-28-00141-00003	0.26	3.85	0.25	0.33	WCW-M-28-00141-00004	0.26	3.85	0.23	0.29		
			LE-LE	WCW-M-28-00143-00001	0.22	4.55	0.23	0.45	WCW-M-28-00143-00002	0.22	4.55	0.21	0.40		
	LAMI-3S (SGP090)		LE-CL	WCW-M-28-00182-00001	0.26	3.85	0.25	0.49	WCW-M-28-00182-00002	0.26	3.85	0.22	0.44		
			BZ-LE	WCW-M-28-00142-00001	0.26	3.85	0.27	0.36	WCW-M-28-00142-00002	0.26	3.85	0.24	0.32		
			GR-LE	WCW-M-28-00142-00003	0.26	3.85	0.25	0.33	WCW-M-28-00142-00004	0.26	3.85	0.23	0.29		
			LE-LE	WCW-M-28-00144-00001	0.22	4.55	0.23	0.45	WCW-M-28-00144-00002	0.22	4.55	0.21	0.40		
	LAMI-DST (SGP090)		LE-CL	WCW-M-28-00181-00001	0.26	3.85	0.25	0.49	WCW-M-28-00181-00002	0.26	3.85	0.22	0.44		
			BZ-LE	WCW-M-28-00141-00001	0.26	3.85	0.27	0.36	WCW-M-28-00141-00002	0.26	3.85	0.24	0.33		
			GR-LE	WCW-M-28-00141-00003	0.26	3.85	0.25	0.33	WCW-M-28-00141-00004	0.26	3.85	0.23	0.29		
			LE-LE	WCW-M-28-00143-00001	0.22	4.55	0.23	0.45	WCW-M-28-00143-00002	0.22	4.55	0.21	0.40		
	LAMI-3ST (SGP090)		LE-CL	WCW-M-28-00182-00001	0.26	3.85	0.25	0.49	WCW-M-28-00182-00002	0.26	3.85	0.22	0.44		
			BZ-LE	WCW-M-28-00142-00001	0.26	3.85	0.27	0.36	WCW-M-28-00142-00002	0.26	3.85	0.24	0.32		
			GR-LE	WCW-M-28-00142-00003	0.26	3.85	0.25	0.33	WCW-M-28-00142-00004	0.26	3.85	0.23	0.29		
			LE-LE	WCW-M-28-00144-00001	0.22	4.55	0.23	0.45	WCW-M-28-00144-00002	0.22	4.55	0.21	0.40		
	Vinyl Out-Swing Casement Window		LAMI-DS (PVB090)	NO	LE-CL	WCW-M-31-00115-00001	0.26	3.85	0.20	0.40	WCW-M-31-00115-00002	0.26	3.85	0.18	0.36
					BZ-LE	WCW-M-31-00085-00003	0.26	3.85	0.19	0.23	WCW-M-31-00085-00004	0.26	3.85	0.17	0.21
GR-LE		WCW-M-31-00085-00005			0.26	3.85	0.17	0.20	WCW-M-31-00085-00006	0.26	3.85	0.16	0.18		
LE-LE		WCW-M-31-00086-00001			0.23	4.35	0.19	0.36	WCW-M-31-00086-00002	0.23	4.35	0.17	0.36		
LAMI-DST (PVB090)		LE-CL	WCW-M-31-00115-00001		0.26	3.85	0.20	0.40	WCW-M-31-00115-00002	0.26	3.85	0.18	0.36		
		BZ-LE	WCW-M-31-00085-00003		0.26	3.85	0.19	0.23	WCW-M-31-00085-00004	0.26	3.85	0.17	0.21		
		GR-LE	WCW-M-31-00085-00005		0.26	3.85	0.17	0.20	WCW-M-31-00085-00006	0.26	3.85	0.16	0.18		
		LE-LE	WCW-M-31-00086-00001		0.23	4.35	0.19	0.36	WCW-M-31-00086-00002	0.23	4.35	0.17	0.36		
LAMI-DS (SGP090)		LE-CL	WCW-M-31-00103-00001		0.26	3.85	0.20	0.39	WCW-M-31-00103-00002	0.26	3.85	0.18	0.36		
		BZ-LE	WCW-M-31-00103-00005		0.26	3.85	0.22	0.29	WCW-M-31-00103-00006	0.26	3.85	0.20	0.26		
		GR-LE	WCW-M-31-00103-00007		0.26	3.85	0.20	0.26	WCW-M-31-00103-00008	0.26	3.85	0.19	0.24		



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				NFRC CPD #	U-Factor	R-Value	SHGC	VT	NFRC CPD #	U-Factor	R-Value	SHGC	VT
Vinyl Out-Swing Casement Window	LAMI-DS (SGP090)	NO	LE-LE	WCW-M-31-00104-00001	0.23	4.35	0.19	0.36	WCW-M-31-00104-00002	0.23	4.35	0.17	0.32
	LAMI-DST (SGP090)		LE-CL	WCW-M-31-00103-00001	0.26	3.85	0.20	0.39	WCW-M-31-00103-00002	0.26	3.85	0.18	0.36
			BZ-LE	WCW-M-31-00103-00005	0.26	3.85	0.22	0.29	WCW-M-31-00103-00006	0.26	3.85	0.20	0.26
			GR-LE	WCW-M-31-00103-00007	0.26	3.85	0.20	0.26	WCW-M-31-00103-00008	0.26	3.85	0.19	0.24
			LE-LE	WCW-M-31-00104-00001	0.23	4.35	0.19	0.36	WCW-M-31-00104-00002	0.23	4.35	0.17	0.32
Vinyl Awning Window	LAMI-DS (PVB090)	NO	LE-CL	WCW-M-32-00120-00001	0.27	3.70	0.20	0.40	WCW-M-32-00120-00002	0.27	3.70	0.18	0.36
			BZ-LE	WCW-M-32-00120-00005	0.27	3.70	0.18	0.22	WCW-M-32-00120-00006	0.27	3.70	0.17	0.20
			GR-LE	WCW-M-32-00120-00007	0.27	3.70	0.17	0.19	WCW-M-32-00120-00008	0.27	3.70	0.16	0.17
			LE-LE	WCW-M-32-00121-00001	0.24	4.17	0.19	0.36	WCW-M-32-00121-00002	0.24	4.17	0.17	0.32
	LAMI-DST (PVB090)		LE-CL	WCW-M-32-00120-00001	0.27	3.70	0.20	0.40	WCW-M-32-00120-00002	0.27	3.70	0.18	0.36
			BZ-LE	WCW-M-32-00120-00005	0.27	3.70	0.18	0.22	WCW-M-32-00120-00006	0.27	3.70	0.17	0.20
			GR-LE	WCW-M-32-00120-00007	0.27	3.70	0.17	0.19	WCW-M-32-00120-00008	0.27	3.70	0.16	0.17
			LE-LE	WCW-M-32-00121-00001	0.24	4.17	0.19	0.36	WCW-M-32-00121-00002	0.24	4.17	0.17	0.32
	LAMI-DS (SGP090)		LE-CL	WCW-M-32-00117-00001	0.27	3.70	0.20	0.39	WCW-M-32-00117-00002	0.27	3.70	0.18	0.36
			BZ-LE	WCW-M-32-00117-00005	0.27	3.70	0.22	0.29	WCW-M-32-00117-00006	0.27	3.70	0.20	0.26
			GR-LE	WCW-M-32-00117-00007	0.27	3.70	0.20	0.26	WCW-M-32-00117-00008	0.27	3.70	0.19	0.24
			LE-LE	WCW-M-32-00118-00001	0.24	4.17	0.19	0.36	WCW-M-32-00118-00002	0.24	4.17	0.17	0.32
	LAMI-DST (SGP090)		LE-CL	WCW-M-32-00117-00001	0.27	3.70	0.20	0.39	WCW-M-32-00117-00002	0.27	3.70	0.18	0.36
			BZ-LE	WCW-M-32-00117-00005	0.27	3.70	0.22	0.29	WCW-M-32-00117-00006	0.27	3.70	0.20	0.26
			GR-LE	WCW-M-32-00117-00007	0.27	3.70	0.20	0.26	WCW-M-32-00117-00008	0.27	3.70	0.19	0.24
			LE-LE	WCW-M-32-00118-00001	0.24	4.17	0.19	0.36	WCW-M-32-00118-00002	0.24	4.17	0.17	0.32
Vinyl Sliding Glass Door	DST-LAMI (PVB090)	E4	LE-CL	WCW-M-41-00003-00001	0.31	3.23	0.23	0.44	WCW-M-41-00003-00002	0.31	3.23	0.20	0.39
			BZ-LE	WCW-M-41-00030-00002	0.31	3.23	0.26	0.34	WCW-M-41-00030-00005	0.31	3.23	0.23	0.29
			GR-LE	WCW-M-41-00030-00003	0.31	3.23	0.24	0.30	WCW-M-41-00030-00006	0.31	3.23	0.22	0.26
			LE-LE	WCW-M-41-00007-00001	0.27	3.70	0.21	0.40	WCW-M-41-00007-00002	0.27	3.70	0.19	0.35



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				NFRC CPD #	U-Factor	R-Value	SHGC	VT	NFRC CPD #	U-Factor	R-Value	SHGC	VT
Vinyl Sliding Glass Door	DST-LAMI (SGP090)	E4	LE-CL	WCW-M-41-00032-00001	0.31	3.23	0.23	0.44	WCW-M-41-00032-00002	0.31	3.23	0.20	0.38
			BZ-LE	WCW-M-41-00033-00002	0.31	3.23	0.26	0.33	WCW-M-41-00033-00005	0.31	3.23	0.23	0.29
			GR-LE	WCW-M-41-00033-00003	0.31	3.23	0.24	0.30	WCW-M-41-00033-00006	0.31	3.23	0.22	0.26
			LE-LE	WCW-M-41-00034-00001	0.27	3.70	0.21	0.40	WCW-M-41-00034-00002	0.27	3.70	0.19	0.35

Energy Star Certified in All 50 States 

Additional Notes

- 1) All thermal performance values listed above are based upon the use of Tin-Plate Intercept Spacer (CU-D)
- 2) All thermal performance values listed above are based upon the use of Argon Gas
- 3) The use of Capillary Tubes will eliminate the availability of Argon Gas
- 4) U-Factor listed was determined in accordance with NFRC 100
- 5) SHGC (Solar Heat Gain Coefficient) listed was determined in accordance with NFRC 200
- 6) VT (Visible Transmittance) listed was determined in accordance with NFRC 200
- 7) All Insulated Glass Units (IGU's) are certified in accordance with ASTM E 2190, per NFRC requirement
- 8) For Turtle Glass, utilize Gray Tint (GR) - Low E (LE) glass configuration
- 9) Energy Star Certification status is based upon Energy Star Version 6, effective 01/01/2015