



The way it should be.™

5400 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 Single Hung Window	SS-SS	A1	LE-CL	WCW-M-35-00061-00001	0.30	3.33	0.26	0.51	WCW-M-35-00061-00002	0.30	3.33	0.23	0.46	
			LE-LE	WCW-M-35-00067-00001	0.30	3.33	0.23	0.40	WCW-M-35-00067-00002	0.30	3.33	0.21	0.35	
		A2	LE-CL	WCW-M-35-00085-00001	0.31	3.23	0.26	0.51	WCW-M-35-00085-00002	0.31	3.23	0.23	0.46	
			LE-LE	WCW-M-35-00091-00001	0.30	3.33	0.23	0.40	WCW-M-35-00091-00002	0.30	3.33	0.21	0.35	
		A4	LE-CL	WCW-M-35-00109-00001	0.31	3.23	0.26	0.51	WCW-M-35-00109-00002	0.31	3.23	0.23	0.46	
			LE-LE	WCW-M-35-00115-00001	0.30	3.33	0.23	0.40	WCW-M-35-00115-00002	0.30	3.33	0.21	0.35	
		A9	LE-CL	WCW-M-35-00133-00001	0.31	3.23	0.26	0.51	WCW-M-35-00133-00002	0.31	3.23	0.23	0.46	
			LE-LE	WCW-M-35-00139-00001	0.31	3.23	0.23	0.40	WCW-M-35-00139-00002	0.31	3.23	0.21	0.35	
		DS-DS	A1	LE-CL	WCW-M-35-00062-00001	0.30	3.33	0.26	0.51	WCW-M-35-00062-00002	0.30	3.33	0.23	0.45
				BZ-LE	WCW-M-35-00028-00005	0.31	3.23	0.28	0.38	WCW-M-35-00028-00006	0.31	3.23	0.26	0.34
	GR-LE			WCW-M-35-00028-00007	0.31	3.23	0.27	0.34	WCW-M-35-00028-00008	0.31	3.23	0.24	0.30	
	LE-LE			WCW-M-35-00068-00001	0.30	3.33	0.23	0.39	WCW-M-35-00068-00002	0.30	3.33	0.21	0.35	
	A2		LE-CL	WCW-M-35-00086-00001	0.30	3.33	0.26	0.51	WCW-M-35-00086-00002	0.30	3.33	0.23	0.45	
			BZ-LE	WCW-M-35-00023-00005	0.31	3.23	0.28	0.38	WCW-M-35-00023-00006	0.31	3.23	0.26	0.34	
			GR-LE	WCW-M-35-00023-00007	0.31	3.23	0.27	0.34	WCW-M-35-00023-00008	0.31	3.23	0.24	0.30	
			LE-LE	WCW-M-35-00092-00001	0.30	3.33	0.23	0.39	WCW-M-35-00092-00002	0.30	3.33	0.21	0.35	
	A4		LE-CL	WCW-M-35-00110-00001	0.30	3.33	0.26	0.51	WCW-M-35-00110-00002	0.30	3.33	0.23	0.45	
			BZ-LE	WCW-M-35-00044-00009	0.31	3.23	0.28	0.38	WCW-M-35-00044-00010	0.31	3.23	0.26	0.34	
		GR-LE	WCW-M-35-00044-00011	0.31	3.23	0.27	0.34	WCW-M-35-00044-00012	0.31	3.23	0.24	0.30		
		LE-LE	WCW-M-35-00116-00001	0.30	3.33	0.23	0.39	WCW-M-35-00116-00002	0.30	3.33	0.21	0.35		
A9	LE-CL	WCW-M-35-00134-00001	0.31	3.23	0.26	0.51	WCW-M-35-00134-00002	0.31	3.23	0.23	0.45			
	BZ-LE	WCW-M-35-00018-00005	0.31	3.23	0.28	0.38	WCW-M-35-00018-00006	0.31	3.23	0.26	0.34			
	GR-LE	WCW-M-35-00018-00007	0.31	3.23	0.27	0.34	WCW-M-35-00018-00008	0.31	3.23	0.24	0.30			
	LE-LE	WCW-M-35-00140-00001	0.30	3.33	0.23	0.39	WCW-M-35-00140-00002	0.30	3.33	0.21	0.35			
Vinyl Double Hung Window	SS-SS	NO	LE-CL	WCW-M-27-00058-00001	0.30	3.33	0.25	0.49	WCW-M-27-00058-00002	0.30	3.33	0.22	0.44	

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				NFRC CPD #	U-Factor	R-Value	SHGC	VT	NFRC CPD #	U-Factor	R-Value	SHGC	VT	
Vinyl Double Hung Window	SS-SS	NO	LE-LE	WCW-M-27-00064-00001	0.29	3.45	0.23	0.38	WCW-M-27-00064-00002	0.29	3.45	0.20	0.34	
			LE-CL	WCW-M-27-00082-00001	0.30	3.33	0.25	0.49	WCW-M-27-00082-00002	0.30	3.33	0.22	0.44	
		A2	LE-LE	WCW-M-27-00088-00001	0.30	3.33	0.23	0.38	WCW-M-27-00088-00002	0.30	3.33	0.20	0.34	
			LE-CL	WCW-M-27-00106-00001	0.31	3.23	0.25	0.49	WCW-M-27-00106-00002	0.31	3.23	0.22	0.44	
		A6	LE-LE	WCW-M-27-00112-00001	0.31	3.23	0.23	0.38	WCW-M-27-00112-00002	0.31	3.23	0.20	0.34	
			LE-CL	WCW-M-27-00130-00001	0.32	3.13	0.25	0.49	WCW-M-27-00130-00002	0.32	3.13	0.22	0.44	
		A9	LE-LE	WCW-M-27-00136-00001	0.31	3.23	0.23	0.38	WCW-M-27-00136-00002	0.31	3.23	0.20	0.34	
			LE-CL	WCW-M-27-00059-00001	0.30	3.33	0.25	0.49	WCW-M-27-00059-00002	0.30	3.33	0.22	0.44	
		DS-DS	NO	BZ-LE	WCW-M-27-00028-00005	0.30	3.33	0.27	0.36	WCW-M-27-00028-00006	0.30	3.33	0.25	0.32
				GR-LE	WCW-M-27-00028-00007	0.30	3.33	0.26	0.33	WCW-M-27-00028-00008	0.30	3.33	0.23	0.29
				LE-LE	WCW-M-27-00065-00001	0.29	3.45	0.23	0.38	WCW-M-27-00065-00002	0.29	3.45	0.20	0.34
				LE-CL	WCW-M-27-00083-00001	0.30	3.33	0.25	0.49	WCW-M-27-00083-00002	0.30	3.33	0.22	0.44
	A2		BZ-LE	WCW-M-27-00023-00005	0.30	3.33	0.27	0.36	WCW-M-27-00023-00006	0.30	3.33	0.25	0.32	
			GR-LE	WCW-M-27-00023-00007	0.30	3.33	0.26	0.33	WCW-M-27-00023-00008	0.30	3.33	0.23	0.29	
			LE-LE	WCW-M-27-00089-00001	0.29	3.45	0.23	0.38	WCW-M-27-00089-00002	0.29	3.45	0.20	0.34	
			LE-CL	WCW-M-27-00107-00001	0.31	3.23	0.25	0.49	WCW-M-27-00107-00002	0.31	3.23	0.22	0.44	
	A6		BZ-LE	WCW-M-27-00050-00005	0.31	3.23	0.27	0.36	WCW-M-27-00050-00006	0.31	3.23	0.25	0.32	
			GR-LE	WCW-M-27-00050-00007	0.31	3.23	0.26	0.33	WCW-M-27-00050-00008	0.31	3.23	0.23	0.29	
			LE-LE	WCW-M-27-00113-00001	0.30	3.33	0.23	0.38	WCW-M-27-00113-00002	0.30	3.33	0.20	0.34	
			LE-CL	WCW-M-27-00131-00001	0.31	3.23	0.25	0.49	WCW-M-27-00131-00002	0.31	3.23	0.22	0.44	
	A9		BZ-LE	WCW-M-27-00018-00005	0.32	3.13	0.27	0.36	WCW-M-27-00018-00006	0.32	3.13	0.25	0.32	
			GR-LE	WCW-M-27-00018-00007	0.32	3.13	0.26	0.33	WCW-M-27-00018-00008	0.32	3.13	0.23	0.29	
			LE-LE	WCW-M-27-00137-00001	0.31	3.23	0.23	0.38	WCW-M-27-00137-00002	0.31	3.23	0.20	0.34	
			LE-CL	WCW-M-26-00037-00001	0.29	3.45	0.24	0.47	WCW-M-26-00037-00002	0.29	3.45	0.21	0.42	
	Vinyl Horizontal Sliding Window	SS-SS	NO	LE-LE	WCW-M-26-00039-00001	0.29	3.45	0.22	0.37	WCW-M-26-00039-00002	0.29	3.45	0.20	0.32



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				NFRC CPD #	U-Factor	R-Value	SHGC	VT	NFRC CPD #	U-Factor	R-Value	SHGC	VT	
Vinyl Horizontal Sliding Window	SS-SS	A2	LE-CL	WCW-M-26-00044-00001	0.30	3.33	0.24	0.47	WCW-M-26-00044-00002	0.30	3.33	0.21	0.42	
			LE-LE	WCW-M-26-00046-00001	0.29	3.45	0.22	0.37	WCW-M-26-00046-00002	0.29	3.45	0.20	0.32	
	DS-DS	NO	LE-CL	WCW-M-26-00037-00005	0.29	3.45	0.24	0.47	WCW-M-26-00037-00006	0.29	3.45	0.21	0.42	
			BZ-LE	WCW-M-26-00037-00009	0.29	3.45	0.26	0.35	WCW-M-26-00037-00010	0.29	3.45	0.24	0.31	
			GR-LE	WCW-M-26-00037-00011	0.29	3.45	0.29	0.40	WCW-M-26-00037-00012	0.29	3.45	0.26	0.35	
			LE-LE	WCW-M-26-00039-00003	0.29	3.45	0.22	0.36	WCW-M-26-00039-00004	0.29	3.45	0.20	0.32	
		A2	LE-CL	WCW-M-26-00044-00005	0.30	3.33	0.24	0.47	WCW-M-26-00044-00006	0.30	3.33	0.21	0.42	
			BZ-LE	WCW-M-26-00044-00009	0.30	3.33	0.26	0.35	WCW-M-26-00044-00010	0.30	3.33	0.24	0.31	
			GR-LE	WCW-M-26-00044-00011	0.30	3.33	0.29	0.40	WCW-M-26-00044-00012	0.30	3.33	0.26	0.35	
			LE-LE	WCW-M-26-00046-00003	0.29	3.45	0.22	0.36	WCW-M-26-00046-00004	0.29	3.45	0.20	0.32	
Vinyl Fixed Window (Picture)	SS-SS	NO	LE-CL	WCW-M-25-00026-00001	0.28	3.57	0.23	0.46	WCW-M-25-00026-00002	0.28	3.57	0.21	0.41	
			LE-LE	WCW-M-25-00041-00001	0.27	3.70	0.24	0.41	WCW-M-25-00041-00002	0.27	3.70	0.22	0.37	
	DS-DS		LE-CL	WCW-M-25-00026-00004	0.28	3.57	0.23	0.46	WCW-M-25-00026-00005	0.28	3.57	0.21	0.41	
			BZ-LE	WCW-M-25-00038-00007	0.28	3.57	0.29	0.39	WCW-M-25-00038-00008	0.28	3.57	0.27	0.35	
			GR-LE	WCW-M-25-00038-00010	0.28	3.57	0.28	0.35	WCW-M-25-00038-00011	0.28	3.57	0.25	0.32	
			LE-LE	WCW-M-25-00041-00004	0.27	3.70	0.24	0.41	WCW-M-25-00041-00005	0.27	3.70	0.22	0.37	
			3S-3S	LE-CL	WCW-M-25-00027-00001	0.29	3.45	0.24	0.45	WCW-M-25-00028-00001	0.30	3.33	0.21	0.40
				BZ-LE	WCW-M-25-00039-00002	0.29	3.45	0.27	0.34	WCW-M-25-00040-00003	0.30	3.33	0.24	0.30
	GR-LE			WCW-M-25-00039-00003	0.29	3.45	0.24	0.39	WCW-M-25-00040-00005	0.30	3.33	0.22	0.26	
	LE-LE			WCW-M-25-00042-00001	0.28	3.57	0.24	0.40	WCW-M-25-00043-00001	0.29	3.45	0.22	0.36	
	DST-DST		LE-CL	WCW-M-25-00026-00004	0.28	3.57	0.23	0.46	WCW-M-25-00026-00005	0.28	3.57	0.21	0.41	
			BZ-LE	WCW-M-25-00038-00007	0.28	3.57	0.29	0.39	WCW-M-25-00038-00008	0.28	3.57	0.27	0.35	
			GR-LE	WCW-M-25-00038-00010	0.28	3.57	0.28	0.35	WCW-M-25-00038-00011	0.28	3.57	0.25	0.32	
			LE-LE	WCW-M-25-00041-00004	0.27	3.70	0.24	0.41	WCW-M-25-00041-00005	0.27	3.70	0.22	0.37	
	3ST-3ST			LE-CL	WCW-M-25-00027-00001	0.29	3.45	0.24	0.45	WCW-M-25-00028-00001	0.30	3.33	0.21	0.40



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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 Fixed Window (Picture)	3ST-3ST	NO	BZ-LE	WCW-M-25-00039-00002	0.29	3.45	0.27	0.34	WCW-M-25-00040-00003	0.30	3.33	0.24	0.30
			GR-LE	WCW-M-25-00039-00003	0.29	3.45	0.24	0.39	WCW-M-25-00040-00005	0.30	3.33	0.22	0.26
			LE-LE	WCW-M-25-00042-00001	0.28	3.57	0.24	0.40	WCW-M-25-00043-00001	0.29	3.45	0.22	0.36
Vinyl Sliding Glass Door	DST-DST	E4	LE-CL	WCW-M-37-00076-00001	0.29	3.45	0.23	0.46	WCW-M-37-00076-00002	0.29	3.45	0.20	0.40
			BZ-LE	WCW-M-37-00077-00001	0.29	3.45	0.26	0.34	WCW-M-37-00077-00003	0.29	3.45	0.23	0.30
			GY-LE	WCW-M-37-00077-00002	0.29	3.45	0.25	0.31	WCW-M-37-00077-00004	0.29	3.45	0.22	0.27
			LE-LE	WCW-M-37-00078-00001	0.28	3.57	0.21	0.35	WCW-M-37-00078-00002	0.28	3.57	0.19	0.31
			LE-CL (Blinds-DS)	WCW-M-37-00105-00001	0.35	2.86	0.25	0.45					
			LE-LE (Blinds-DS)	WCW-M-37-00106-00001	0.29	3.45	0.24	0.44					
Vinyl Fixed Window (Sidelite)	DST-DST	NO	LE-CL	WCW-M-37-00076-00001	0.29	3.45	0.23	0.46	WCW-M-37-00076-00002	0.29	3.45	0.20	0.40
			BZ-LE	WCW-M-37-00077-00001	0.29	3.45	0.26	0.34	WCW-M-37-00077-00003	0.29	3.45	0.23	0.30
			GY-LE	WCW-M-37-00077-00002	0.29	3.45	0.25	0.31	WCW-M-37-00077-00004	0.29	3.45	0.22	0.27
			LE-LE	WCW-M-37-00078-00001	0.28	3.57	0.21	0.35	WCW-M-37-00078-00002	0.28	3.57	0.19	0.31
			LE-CL (Blinds-DS)	WCW-M-37-00105-00001	0.35	2.86	0.25	0.45					
			LE-LE (Blinds-DS)	WCW-M-37-00106-00001	0.29	3.45	0.24	0.44					
Vinyl Fixed Window (Transom)	3S-3S	NO	LE-CL	WCW-M-36-00087-00001	0.27	3.70	0.27	0.54	WCW-M-36-00087-00002	0.27	3.70	0.25	0.49
			BZ-LE	WCW-M-36-00089-00001	0.27	3.70	0.27	0.35	WCW-M-36-00089-00003	0.27	3.70	0.24	0.32
			GY-LE	WCW-M-36-00089-00002	0.27	3.70	0.30	0.42	WCW-M-36-00089-00004	0.27	3.70	0.28	0.37
			LE-LE	WCW-M-36-00090-00001	0.26	3.85	0.25	0.42	WCW-M-36-00090-00002	0.26	3.85	0.23	0.38
	DST-DST		LE-CL	WCW-M-36-00013-00001	0.27	3.70	0.27	0.55	WCW-M-36-00013-00002	0.27	3.70	0.25	0.49
			BZ-LE	WCW-M-36-00016-00001	0.27	3.70	0.31	0.41	WCW-M-36-00016-00003	0.27	3.70	0.28	0.37
			GY-LE	WCW-M-36-00016-00002	0.27	3.70	0.29	0.38	WCW-M-36-00016-00004	0.27	3.70	0.26	0.34
			LE-LE	WCW-M-36-00017-00001	0.27	3.70	0.25	0.42	WCW-M-36-00017-00002	0.27	3.70	0.23	0.38

Energy Star Certified in All 50 States



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Additional Notes "Continued"

- 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) Energy Star Certification status is based upon Energy Star Version 6, effective 01/01/2015