



The way it should be.™

5400 SERIES THERMAL PERFORMANCE CHART

Style	Configuration	Glass Strength	Reinforcement	Without Grids					With Grids				
				NFRC CPD #	U-Factor	R-Value	SHGC	VT	NFRC CPD #	U-Factor	R-Value	SHGC	VT
Vinyl Single Hung Window	LE-CL	SS-SS	A1	WCW-M-35-00171-00001	0.30	3.28	0.26	0.51	WCW-M-35-00171-00002	0.30	3.28	0.23	0.46
			A2	WCW-M-35-00285-00001	0.31	3.27	0.26	0.51	WCW-M-35-00285-00002	0.31	3.27	0.23	0.46
			A4	WCW-M-35-00399-00001	0.31	3.25	0.26	0.51	WCW-M-35-00399-00002	0.31	3.25	0.23	0.46
			A9	WCW-M-35-00513-00001	0.31	3.23	0.26	0.51	WCW-M-35-00513-00002	0.31	3.23	0.23	0.46
		DS-DS	A1	WCW-M-35-00172-00001	0.30	3.32	0.26	0.51	WCW-M-35-00172-00002	0.30	3.32	0.23	0.45
			A2	WCW-M-35-00286-00001	0.30	3.31	0.26	0.51	WCW-M-35-00286-00002	0.30	3.31	0.23	0.45
			A4	WCW-M-35-00400-00001	0.31	3.28	0.26	0.51	WCW-M-35-00400-00002	0.31	3.28	0.23	0.45
			A9	WCW-M-35-00514-00001	0.31	3.26	0.26	0.51	WCW-M-35-00514-00002	0.31	3.26	0.23	0.45
	BZ-LE	DS-DS	A1	WCW-M-35-00172-00005	0.30	3.32	0.28	0.38	WCW-M-35-00172-00006	0.30	3.32	0.26	0.34
			A2	WCW-M-35-00286-00005	0.30	3.31	0.28	0.38	WCW-M-35-00286-00006	0.30	3.31	0.26	0.34
			A4	WCW-M-35-00400-00005	0.31	3.28	0.28	0.38	WCW-M-35-00400-00006	0.31	3.28	0.26	0.34
			A9	WCW-M-35-00514-00005	0.31	3.26	0.28	0.38	WCW-M-35-00514-00006	0.31	3.26	0.26	0.34
	GR-LE	DS-DS	A1	WCW-M-35-00172-00007	0.30	3.32	0.27	0.34	WCW-M-35-00172-00008	0.30	3.32	0.24	0.30
			A2	WCW-M-35-00286-00007	0.30	3.31	0.27	0.34	WCW-M-35-00286-00008	0.30	3.31	0.24	0.30
			A4	WCW-M-35-00400-00007	0.31	3.28	0.27	0.34	WCW-M-35-00400-00008	0.31	3.28	0.24	0.30
			A9	WCW-M-35-00514-00007	0.31	3.26	0.27	0.34	WCW-M-35-00514-00008	0.31	3.26	0.24	0.30
	LE-LE	SS-SS	A1	WCW-M-35-00175-00001	0.30	3.33	0.23	0.40	WCW-M-35-00175-00002	0.30	3.33	0.21	0.35
			A2	WCW-M-35-00289-00001	0.30	3.32	0.23	0.40	WCW-M-35-00289-00002	0.30	3.32	0.21	0.35
			A4	WCW-M-35-00403-00001	0.30	3.29	0.23	0.40	WCW-M-35-00403-00002	0.30	3.29	0.21	0.35
			A9	WCW-M-35-00517-00001	0.31	3.28	0.23	0.40	WCW-M-35-00517-00002	0.31	3.28	0.21	0.35
		DS-DS	A1	WCW-M-35-00176-00001	0.30	3.36	0.23	0.39	WCW-M-35-00176-00002	0.30	3.36	0.21	0.35
			A2	WCW-M-35-00290-00001	0.30	3.35	0.23	0.39	WCW-M-35-00290-00002	0.30	3.35	0.21	0.35
			A4	WCW-M-35-00404-00001	0.30	3.32	0.23	0.39	WCW-M-35-00404-00002	0.30	3.32	0.21	0.35
			A9	WCW-M-35-00518-00001	0.30	3.30	0.23	0.39	WCW-M-35-00518-00002	0.30	3.30	0.21	0.35

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				NFRC CPD #	U-Factor	R-Value	SHGC	VT	NFRC CPD #	U-Factor	R-Value	SHGC	VT	
Vinyl Double Hung Window	LE-CL	SS-SS	NO	WCW-M-27-00168-00001	0.30	3.30	0.25	0.49	WCW-M-27-00168-00002	0.30	3.30	0.22	0.44	
			A2	WCW-M-27-00282-00001	0.31	3.27	0.25	0.49	WCW-M-27-00282-00002	0.31	3.27	0.22	0.44	
			A6	WCW-M-27-00396-00001	0.31	3.18	0.25	0.49	WCW-M-27-00396-00002	0.31	3.18	0.22	0.44	
			A9	WCW-M-27-00510-00001	0.32	3.12	0.25	0.49	WCW-M-27-00510-00002	0.32	3.12	0.22	0.44	
		DS-DS	NO	WCW-M-27-00169-00001	0.30	3.34	0.25	0.49	WCW-M-27-00169-00002	0.30	3.34	0.22	0.44	
			A2	WCW-M-27-00283-00001	0.30	3.30	0.25	0.49	WCW-M-27-00283-00002	0.30	3.30	0.22	0.44	
			A6	WCW-M-27-00397-00001	0.31	3.21	0.25	0.49	WCW-M-27-00397-00002	0.31	3.21	0.22	0.44	
			A9	WCW-M-27-00511-00001	0.32	3.14	0.25	0.49	WCW-M-27-00511-00002	0.32	3.14	0.22	0.44	
	BZ-LE	DS-DS	NO	WCW-M-27-00169-00005	0.30	3.34	0.27	0.36	WCW-M-27-00169-00006	0.30	3.34	0.25	0.32	
			A2	WCW-M-27-00283-00005	0.30	3.30	0.27	0.36	WCW-M-27-00283-00006	0.30	3.30	0.25	0.32	
			A6	WCW-M-27-00397-00005	0.31	3.21	0.27	0.36	WCW-M-27-00397-00006	0.31	3.21	0.25	0.32	
			A9	WCW-M-27-00511-00005	0.32	3.14	0.27	0.36	WCW-M-27-00511-00006	0.32	3.14	0.25	0.32	
	GR-LE	DS-DS	NO	WCW-M-27-00169-00007	0.30	3.34	0.26	0.33	WCW-M-27-00169-00008	0.30	3.34	0.23	0.29	
			A2	WCW-M-27-00283-00007	0.30	3.30	0.26	0.33	WCW-M-27-00283-00008	0.30	3.30	0.23	0.29	
			A6	WCW-M-27-00397-00007	0.31	3.21	0.26	0.33	WCW-M-27-00397-00008	0.31	3.21	0.23	0.29	
			A9	WCW-M-27-00511-00007	0.32	3.14	0.26	0.33	WCW-M-27-00511-00008	0.32	3.14	0.23	0.29	
	LE-LE	SS-SS	NO	WCW-M-27-00172-00001	0.30	3.35	0.23	0.38	WCW-M-27-00172-00002	0.30	3.35	0.20	0.34	
			A2	WCW-M-27-00286-00001	0.30	3.31	0.23	0.38	WCW-M-27-00286-00002	0.30	3.31	0.20	0.34	
			A6	WCW-M-27-00400-00001	0.31	3.22	0.23	0.38	WCW-M-27-00400-00002	0.31	3.22	0.20	0.34	
			A9	WCW-M-27-00514-00001	0.32	3.16	0.23	0.38	WCW-M-27-00514-00002	0.32	3.16	0.20	0.34	
		DS-DS	NO	WCW-M-27-00173-00001	0.30	3.38	0.22	0.38	WCW-M-27-00173-00002	0.30	3.38	0.20	0.34	
			A2	WCW-M-27-00287-00001	0.30	3.35	0.22	0.38	WCW-M-27-00287-00002	0.30	3.35	0.20	0.34	
			A6	WCW-M-27-00401-00001	0.31	3.25	0.22	0.38	WCW-M-27-00401-00002	0.31	3.25	0.20	0.34	
			A9	WCW-M-27-00515-00001	0.31	3.18	0.22	0.38	WCW-M-27-00515-00002	0.31	3.18	0.20	0.34	
	Vinyl Horizontal Sliding Window	LE-CL	SS-SS	NO	WCW-M-26-00163-00001	0.29	3.42	0.24	0.47	WCW-M-26-00163-00002	0.29	3.42	0.21	0.42
				A2	WCW-M-26-00237-00001	0.30	3.39	0.24	0.47	WCW-M-26-00237-00002	0.30	3.39	0.21	0.42

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				NFRC CPD #	U-Factor	R-Value	SHGC	VT	NFRC CPD #	U-Factor	R-Value	SHGC	VT		
Vinyl Horizontal Sliding Window	LE-CL	DS-DS	NO	WCW-M-26-00165-00001	0.29	3.46	0.24	0.47	WCW-M-26-00165-00002	0.29	3.46	0.21	0.42		
			A2	WCW-M-26-00239-00001	0.29	3.42	0.24	0.47	WCW-M-26-00239-00002	0.29	3.42	0.21	0.42		
	BZ-LE	DS-DS	NO	WCW-M-26-00165-00005	0.29	3.46	0.26	0.35	WCW-M-26-00165-00006	0.29	3.46	0.24	0.31		
			A2	WCW-M-26-00239-00005	0.29	3.42	0.26	0.35	WCW-M-26-00239-00006	0.29	3.42	0.24	0.31		
	GR-LE	DS-DS	NO	WCW-M-26-00165-00007	0.29	3.46	0.25	0.31	WCW-M-26-00165-00008	0.29	3.46	0.22	0.28		
			A2	WCW-M-26-00239-00007	0.29	3.42	0.25	0.31	WCW-M-26-00239-00008	0.29	3.42	0.22	0.28		
	LE-LE	SS-SS	NO	WCW-M-26-00167-00001	0.29	3.46	0.22	0.36	WCW-M-26-00167-00002	0.29	3.46	0.20	0.32		
			A2	WCW-M-26-00241-00001	0.29	3.43	0.22	0.36	WCW-M-26-00241-00002	0.29	3.43	0.20	0.32		
		DS-DS	NO	WCW-M-26-00169-00001	0.29	3.50	0.22	0.36	WCW-M-26-00169-00002	0.29	3.50	0.20	0.32		
			A2	WCW-M-26-00243-00001	0.29	3.47	0.22	0.36	WCW-M-26-00243-00002	0.29	3.47	0.20	0.32		
	Vinyl Fixed Window (Picture)	LE-CL	SS-SS	NO	WCW-M-25-00075-00001	0.27	3.64	0.23	0.46	WCW-M-25-00075-00002	0.27	3.64	0.21	0.41	
			DS-DS		WCW-M-25-00100-00001	0.27	3.69	0.23	0.46	WCW-M-25-00100-00002	0.27	3.69	0.21	0.41	
3S-3S			WCW-M-25-00140-00001		0.28	3.52	0.24	0.45	WCW-M-25-00141-00001	0.30	3.35	0.22	0.40		
BZ-LE		DS-DS	WCW-M-25-00099-00005		0.27	3.67	0.30	0.40	WCW-M-25-00099-00006	0.27	3.67	0.27	0.36		
		3S-3S	WCW-M-25-00138-00003		0.28	3.51	0.26	0.34	WCW-M-25-00139-00003	0.30	3.34	0.24	0.30		
GR-LE		DS-DS	WCW-M-25-00099-00007		0.27	3.67	0.32	0.45	WCW-M-25-00099-00008	0.27	3.67	0.29	0.40		
		3S-3S	WCW-M-25-00138-00004		0.28	3.51	0.30	0.40	WCW-M-25-00139-00004	0.30	3.34	0.27	0.36		
LE-LE		SS-SS	WCW-M-25-00077-00001		0.27	3.69	0.24	0.41	WCW-M-25-00077-00002	0.27	3.69	0.22	0.37		
		DS-DS	WCW-M-25-00102-00001		0.27	3.73	0.24	0.41	WCW-M-25-00102-00002	0.27	3.73	0.22	0.37		
		3S-3S	WCW-M-25-00144-00001		0.28	3.57	0.24	0.40	WCW-M-25-00145-00001	0.29	3.44	0.22	0.36		
Vinyl Sliding Glass Door		LE-CL	DST-DST		E4	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
	GR-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							

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Style	Configuration	Glass Strength	Reinforcement	Without Grids					With Grids				
				NFRC CPD #	U-Factor	R-Value	SHGC	VT	NFRC CPD #	U-Factor	R-Value	SHGC	VT
Vinyl Fixed Window (Sidelite)	LE-CL	DST-DST	NO	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
	GR-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)	LE-CL	3S-3S	NO	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
		DST-DST		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	3S-3S		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
		DST-DST		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
	GR-LE	3S-3S		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
		DST-DST		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	3S-3S		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		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 

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