

5400 Series Thermal Product Performance Chart

STYLE	CONFIGURATION	GLASS	LAMI	REFO	GRIDS	CPD Number	U-Factor	R-Value	SHGC	VT			
Single Hung Window	LE-CL	SS-SS	N/A	A1	NO	WCW-M-35-00623-00001	0.31	3.28	0.23	0.51			
					YES	WCW-M-35-00623-00002	0.31	3.28	0.21	0.46			
				A2	NO	WCW-M-35-00707-00001	0.31	3.27	0.23	0.51			
					YES	WCW-M-35-00707-00002	0.31	3.27	0.21	0.46			
				A4	NO	WCW-M-35-00791-00001	0.31	3.24	0.23	0.51			
					YES	WCW-M-35-00791-00002	0.31	3.24	0.21	0.46			
		A9	NO	WCW-M-35-00875-00001	0.31	3.22	0.23	0.51					
			YES	WCW-M-35-00875-00002	0.31	3.22	0.21	0.46					
		DS-DS	N/A	A1	NO	WCW-M-35-00627-00001	0.30	3.33	0.23	0.51			
					YES	WCW-M-35-00627-00002	0.30	3.33	0.21	0.45			
				A2	NO	WCW-M-35-00711-00001	0.30	3.33	0.23	0.51			
					YES	WCW-M-35-00711-00002	0.30	3.33	0.21	0.45			
	A4			NO	WCW-M-35-00795-00001	0.30	3.30	0.23	0.51				
				YES	WCW-M-35-00795-00002	0.30	3.30	0.21	0.45				
	A9	NO	WCW-M-35-00879-00001	0.31	3.28	0.23	0.51						
		YES	WCW-M-35-00879-00002	0.31	3.28	0.21	0.45						
	BZ-LE	DS-DS	N/A	A1	NO	WCW-M-35-00627-00005	0.30	3.33	0.25	0.38			
					YES	WCW-M-35-00627-00006	0.30	3.33	0.23	0.34			
				A2	NO	WCW-M-35-00711-00005	0.30	3.33	0.25	0.38			
					YES	WCW-M-35-00711-00006	0.30	3.33	0.23	0.34			
				A4	NO	WCW-M-35-00795-00005	0.30	3.30	0.25	0.38			
					YES	WCW-M-35-00795-00006	0.30	3.30	0.23	0.34			
				A9	NO	WCW-M-35-00879-00005	0.31	3.28	0.25	0.38			
					YES	WCW-M-35-00879-00006	0.31	3.28	0.23	0.34			
				GR-LE	DS-DS	N/A	A1	NO	WCW-M-35-00627-00007	0.30	3.33	0.24	0.34
								YES	WCW-M-35-00627-00008	0.30	3.33	0.21	0.30
	A2	NO	WCW-M-35-00711-00007				0.30	3.33	0.24	0.34			
		YES	WCW-M-35-00711-00008				0.30	3.33	0.21	0.30			
	A4	NO	WCW-M-35-00795-00007				0.30	3.30	0.24	0.34			
		YES	WCW-M-35-00795-00008				0.30	3.30	0.21	0.30			
A9	NO	WCW-M-35-00879-00007	0.31				3.28	0.24	0.34				
	YES	WCW-M-35-00879-00008	0.31				3.28	0.21	0.30				
LE-EP	SS-SS	N/A	A1	NO	WCW-M-35-00626-00001	0.26	3.82	0.22	0.48				
				YES	WCW-M-35-00626-00002	0.26	3.82	0.20	0.43				
			A2	NO	WCW-M-35-00710-00001	0.26	3.81	0.22	0.48				
				YES	WCW-M-35-00710-00002	0.26	3.81	0.20	0.43				
			A4	NO	WCW-M-35-00794-00001	0.26	3.78	0.22	0.48				
				YES	WCW-M-35-00794-00002	0.26	3.78	0.20	0.43				
			A9	NO	WCW-M-35-00878-00001	0.27	3.75	0.22	0.48				

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STYLE	CONFIGURATION	GLASS	LAMI	REFO	GRIDS	CPD Number	U-Factor	R-Value	SHGC	VT
Single Hung Window	LE-EP	SS-SS	N/A	A9	YES	WCW-M-35-00878-00002	0.27	3.75	0.20	0.43
		DS-DS	N/A	A1	NO	WCW-M-35-00631-00001	0.26	3.88	0.22	0.46
					YES	WCW-M-35-00631-00002	0.26	3.88	0.20	0.41
				A2	NO	WCW-M-35-00715-00001	0.26	3.87	0.22	0.46
					YES	WCW-M-35-00715-00002	0.26	3.87	0.20	0.41
				A4	NO	WCW-M-35-00799-00001	0.26	3.83	0.22	0.46
					YES	WCW-M-35-00799-00002	0.26	3.83	0.20	0.41
		A9	NO	WCW-M-35-00883-00001	0.26	3.81	0.22	0.46		
			YES	WCW-M-35-00883-00002	0.26	3.81	0.20	0.41		
		Double Hung Window	LE-CL	SS-SS	N/A	NO	NO	WCW-M-27-00620-00001	0.30	3.32
YES	WCW-M-27-00620-00002						0.30	3.32	0.20	0.44
A2	NO					WCW-M-27-00704-00001	0.30	3.30	0.22	0.49
	YES					WCW-M-27-00704-00002	0.30	3.30	0.20	0.44
A6	NO					WCW-M-27-00788-00001	0.31	3.21	0.22	0.49
	YES					WCW-M-27-00788-00002	0.31	3.21	0.20	0.44
A9	NO			WCW-M-27-00871-00001	0.32	3.14	0.22	0.49		
	YES			WCW-M-27-00871-00002	0.32	3.14	0.20	0.44		
DS-DS	N/A			NO	NO	WCW-M-27-00624-00001	0.30	3.38	0.22	0.49
					YES	WCW-M-27-00624-00002	0.30	3.38	0.20	0.43
				A2	NO	WCW-M-27-00708-00001	0.30	3.35	0.22	0.49
					YES	WCW-M-27-00708-00002	0.30	3.35	0.20	0.43
			A6	NO	WCW-M-27-00792-00001	0.31	3.25	0.22	0.49	
				YES	WCW-M-27-00792-00002	0.31	3.25	0.20	0.43	
A9	NO		WCW-M-27-00875-00001	0.31	3.18	0.22	0.49			
	YES		WCW-M-27-00875-00002	0.31	3.18	0.20	0.43			
BZ-LE	DS-DS		N/A	NO	NO	WCW-M-27-00624-00005	0.30	3.38	0.24	0.36
					YES	WCW-M-27-00624-00006	0.30	3.38	0.22	0.32
				A2	NO	WCW-M-27-00708-00005	0.30	3.35	0.24	0.36
					YES	WCW-M-27-00708-00006	0.30	3.35	0.22	0.32
				A6	NO	WCW-M-27-00792-00005	0.31	3.25	0.24	0.36
					YES	WCW-M-27-00792-00006	0.31	3.25	0.22	0.32
A9	NO		WCW-M-27-00875-00005	0.31	3.18	0.24	0.36			
	YES		WCW-M-27-00875-00006	0.31	3.18	0.22	0.32			
GR-LE	DS-DS		N/A	NO	NO	WCW-M-27-00624-00007	0.30	3.38	0.23	0.33
					YES	WCW-M-27-00624-00008	0.30	3.38	0.21	0.29
				A2	NO	WCW-M-27-00708-00007	0.30	3.35	0.23	0.33
					YES	WCW-M-27-00708-00008	0.30	3.35	0.21	0.29
				A6	NO	WCW-M-27-00792-00007	0.31	3.25	0.23	0.33
					YES	WCW-M-27-00792-00008	0.31	3.25	0.21	0.29
A9	NO	WCW-M-27-00875-00007	0.31	3.18	0.23	0.33				
	YES	WCW-M-27-00875-00008	0.31	3.18	0.21	0.29				

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STYLE	CONFIGURATION	GLASS	LAMI	REFO	GRIDS	CPD Number	U-Factor	R-Value	SHGC	VT		
Double Hung Window	LE-EP	SS-SS	N/A	NO	NO	WCW-M-27-00623-00001	0.26	3.85	0.21	0.46		
					YES	WCW-M-27-00623-00002	0.26	3.85	0.19	0.41		
				A2	NO	WCW-M-27-00707-00001	0.26	3.82	0.21	0.46		
					YES	WCW-M-27-00707-00002	0.26	3.82	0.19	0.41		
				A6	NO	WCW-M-27-00791-00001	0.27	3.70	0.21	0.46		
					YES	WCW-M-27-00791-00002	0.27	3.70	0.19	0.41		
		A9	NO	WCW-M-27-00874-00001	0.28	3.62	0.21	0.46				
			YES	WCW-M-27-00874-00002	0.28	3.62	0.19	0.41				
		DS-DS	N/A	NO	NO	WCW-M-27-00628-00001	0.26	3.91	0.21	0.44		
					YES	WCW-M-27-00628-00002	0.26	3.91	0.19	0.39		
				A2	NO	WCW-M-27-00712-00001	0.26	3.87	0.21	0.44		
					YES	WCW-M-27-00712-00002	0.26	3.87	0.19	0.39		
	A6			NO	WCW-M-27-00796-00001	0.27	3.75	0.21	0.44			
				YES	WCW-M-27-00796-00002	0.27	3.75	0.19	0.39			
	A9	NO	WCW-M-27-00879-00001	0.27	3.66	0.21	0.44					
		YES	WCW-M-27-00879-00002	0.27	3.66	0.19	0.39					
Horizontal Sliding Window	LE-CL	SS-SS	N/A	NO	NO	WCW-M-26-00319-00001	0.29	3.41	0.21	0.47		
					YES	WCW-M-26-00319-00002	0.29	3.41	0.19	0.42		
				A2	NO	WCW-M-26-00499-00001	0.30	3.38	0.21	0.47		
					YES	WCW-M-26-00499-00002	0.30	3.38	0.19	0.42		
				DS-DS	N/A	NO	NO	WCW-M-26-00323-00001	0.29	3.47	0.21	0.47
							YES	WCW-M-26-00323-00002	0.29	3.47	0.19	0.42
		A2	NO	WCW-M-26-00503-00001	0.29	3.44	0.21	0.47				
			YES	WCW-M-26-00503-00002	0.29	3.44	0.19	0.42				
		BZ-LE	DS-DS	N/A	NO	NO	WCW-M-26-00323-00005	0.29	3.47	0.23	0.35	
						YES	WCW-M-26-00323-00006	0.29	3.47	0.21	0.31	
					A2	NO	WCW-M-26-00503-00005	0.29	3.44	0.23	0.35	
						YES	WCW-M-26-00503-00006	0.29	3.44	0.21	0.31	
	GR-LE	DS-DS	N/A	NO	NO	WCW-M-26-00323-00007	0.29	3.47	0.22	0.31		
					YES	WCW-M-26-00323-00008	0.29	3.47	0.20	0.28		
				A2	NO	WCW-M-26-00503-00007	0.29	3.44	0.22	0.31		
					YES	WCW-M-26-00503-00008	0.29	3.44	0.20	0.28		
	LE-EP	SS-SS	N/A	NO	NO	WCW-M-26-00322-00001	0.25	3.94	0.20	0.44		
					YES	WCW-M-26-00322-00002	0.25	3.94	0.18	0.39		
				A2	NO	WCW-M-26-00502-00001	0.26	3.90	0.20	0.44		
					YES	WCW-M-26-00502-00002	0.26	3.90	0.18	0.39		
		DS-DS	N/A	NO	NO	WCW-M-26-00327-00001	0.25	4.01	0.20	0.43		
					YES	WCW-M-26-00327-00002	0.25	4.01	0.18	0.38		
				A2	NO	WCW-M-26-00507-00001	0.25	3.97	0.20	0.43		
					YES	WCW-M-26-00507-00002	0.25	3.97	0.18	0.38		
Picture Window	LE-CL	SS-SS	N/A	NO	NO	WCW-M-25-00182-00001	0.28	3.62	0.24	0.53		

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STYLE	CONFIGURATION	GLASS	LAMI	REFO	GRIDS	CPD Number	U-Factor	R-Value	SHGC	VT
Picture Window	LE-CL	SS-SS	N/A	NO	YES	WCW-M-25-00182-00002	0.28	3.62	0.22	0.47
		DS-DS	N/A	NO	NO	WCW-M-25-00186-00001	0.27	3.70	0.24	0.53
					YES	WCW-M-25-00186-00002	0.27	3.70	0.22	0.47
		3S-3S	N/A	NO	NO	WCW-M-25-00191-00001	0.28	3.54	0.24	0.52
					YES	WCW-M-25-00192-00001	0.30	3.36	0.22	0.46
		BZ-LE	DS-DS	N/A	NO	NO	WCW-M-25-00186-00005	0.27	3.70	0.26
	YES					WCW-M-25-00186-00006	0.27	3.70	0.24	0.35
	3S-3S		N/A	NO	NO	WCW-M-25-00191-00003	0.28	3.54	0.24	0.34
					YES	WCW-M-25-00192-00003	0.30	3.36	0.22	0.30
	GR-LE		N/A	NO	NO	WCW-M-25-00186-00007	0.27	3.70	0.24	0.35
					YES	WCW-M-25-00186-00008	0.27	3.70	0.22	0.32
	3S-3S	N/A	NO	NO	WCW-M-25-00191-00004	0.28	3.54	0.22	0.29	
				YES	WCW-M-25-00192-00004	0.30	3.36	0.20	0.26	
	LE-EP	SS-SS	N/A	NO	NO	WCW-M-25-00185-00001	0.23	4.32	0.23	0.50
					YES	WCW-M-25-00185-00002	0.23	4.32	0.21	0.44
		DS-DS	N/A	NO	NO	WCW-M-25-00190-00001	0.23	4.40	0.23	0.48
					YES	WCW-M-25-00190-00002	0.23	4.40	0.21	0.43
		3S-3S	N/A	NO	NO	WCW-M-25-00199-00001	0.24	4.16	0.23	0.48
YES					WCW-M-25-00200-00001	0.25	3.98	0.21	0.43	
Awning Window	LE-CL	DS-DS	N/A	NO	NO	WCW-M-32-00145-00001	0.26	3.83	0.19	0.40
					YES	WCW-M-32-00145-00002	0.26	3.83	0.17	0.37
	BZ-LE	DS-DS	N/A	NO	NO	WCW-M-32-00145-00005	0.26	3.83	0.20	0.30
					YES	WCW-M-32-00145-00006	0.26	3.83	0.19	0.27
	GR-LE	DS-DS	N/A	NO	NO	WCW-M-32-00145-00007	0.26	3.83	0.19	0.27
					YES	WCW-M-32-00145-00008	0.26	3.83	0.17	0.24
	LE-EP	DS-DS	N/A	NO	NO	WCW-M-32-00149-00001	0.23	4.35	0.18	0.37
					YES	WCW-M-32-00149-00002	0.23	4.35	0.16	0.33
Out-Swing Casement Window	LE-CL	DS-DS	N/A	NO	NO	WCW-M-31-00136-00001	0.26	3.86	0.19	0.40
					YES	WCW-M-31-00136-00002	0.26	3.86	0.17	0.37
	BZ-LE	DS-DS	N/A	NO	NO	WCW-M-31-00136-00005	0.26	3.86	0.20	0.30
					YES	WCW-M-31-00136-00006	0.26	3.86	0.19	0.27
	GR-LE	DS-DS	N/A	NO	NO	WCW-M-31-00136-00007	0.26	3.86	0.19	0.27
					YES	WCW-M-31-00136-00008	0.26	3.86	0.17	0.24
	LE-EP	DS-DS	N/A	NO	NO	WCW-M-31-00140-00001	0.22	4.45	0.18	0.37
					YES	WCW-M-31-00140-00002	0.22	4.45	0.16	0.33
Casement Picture Window	LE-CL	DS-DS	N/A	NO	NO	WCW-M-33-00164-00001	0.26	3.88	0.22	0.48
					YES	WCW-M-33-00164-00002	0.26	3.88	0.20	0.43
		3S-3S	N/A	NO	NO	WCW-M-33-00240-00001	0.27	3.71	0.22	0.47
					YES	WCW-M-33-00241-00001	0.28	3.54	0.20	0.42
	BZ-LE	DS-DS	N/A	NO	NO	WCW-M-33-00164-00005	0.26	3.88	0.24	0.36
					YES	WCW-M-33-00164-00006	0.26	3.88	0.22	0.32

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STYLE	CONFIGURATION	GLASS	LAMI	REFO	GRIDS	CPD Number	U-Factor	R-Value	SHGC	VT	
Casement Picture Window	BZ-LE	3S-3S	N/A	NO	NO	WCW-M-33-00240-00003	0.27	3.71	0.22	0.31	
					YES	WCW-M-33-00241-00003	0.28	3.54	0.20	0.27	
	GR-LE	DS-DS	N/A	NO	NO	WCW-M-33-00164-00007	0.26	3.88	0.22	0.32	
					YES	WCW-M-33-00164-00008	0.26	3.88	0.20	0.29	
					NO	WCW-M-33-00240-00004	0.27	3.71	0.20	0.27	
					YES	WCW-M-33-00241-00004	0.28	3.54	0.18	0.24	
	LE-EP	DS-DS	N/A	NO	NO	WCW-M-33-00168-00001	0.22	4.57	0.21	0.44	
					YES	WCW-M-33-00168-00002	0.22	4.57	0.19	0.39	
					NO	WCW-M-33-00248-00001	0.23	4.34	0.21	0.44	
					YES	WCW-M-33-00249-00001	0.24	4.15	0.19	0.39	
	Basement Window	LE-CL	DS-DS	N/A	NO	NO	WCW-M-38-00077-00001	0.26	3.82	0.19	0.40
						YES	WCW-M-38-00077-00002	0.26	3.82	0.17	0.37
BZ-LE		DS-DS	N/A	NO	NO	WCW-M-38-00077-00005	0.26	3.82	0.20	0.30	
					YES	WCW-M-38-00077-00006	0.26	3.82	0.18	0.27	
GR-LE		DS-DS	N/A	NO	NO	WCW-M-38-00077-00007	0.26	3.82	0.19	0.27	
					YES	WCW-M-38-00077-00008	0.26	3.82	0.17	0.24	
LE-EP		DS-DS	N/A	NO	NO	WCW-M-38-00081-00001	0.23	4.34	0.18	0.37	
					YES	WCW-M-38-00081-00002	0.23	4.34	0.16	0.33	
Sliding Glass Door		LE-CL	DS-DS	N/A	E4	NO	WCW-M-37-00120-00001	0.28	3.53	0.21	0.46
						YES	WCW-M-37-00120-00005	0.28	3.53	0.19	0.40
	BZ-LE	DS-DS	N/A	E4	NO	WCW-M-37-00120-00003	0.28	3.53	0.23	0.34	
					YES	WCW-M-37-00120-00007	0.28	3.53	0.20	0.29	
	GR-LE	DS-DS	N/A	E4	NO	WCW-M-37-00120-00004	0.28	3.53	0.21	0.31	
					YES	WCW-M-37-00120-00008	0.28	3.53	0.19	0.27	
	LE-EP	DS-DS	N/A	E4	NO	WCW-M-37-00079-00001	0.25	4.04	0.22	0.42	
					YES	WCW-M-37-00079-00002	0.25	4.04	0.19	0.36	
	RLTBLC (LE-CL RLT Blinds)	DS-DS	N/A	E4	NO	WCW-M-37-00105-00001	0.35	2.86	0.24	0.45	
	RLTBL2 (LE-EP RLT Blinds)	DS-DS	N/A	E4	NO	WCW-M-37-00106-00001	0.29	3.47	0.24	0.44	
RLTBL3 (LE-CL RLT Blinds)	DS-DS	N/A	E4	NO	WCW-M-37-00327-00001	0.35	2.89	0.18	0.42		
RLTBL4 (LE-EP RLT Blinds)	DS-DS	N/A	E4	NO	WCW-M-37-00328-00001	0.29	3.50	0.18	0.41		
Sidelite	LE-CL	DS-DS	N/A	NO	NO	WCW-M-46-00551-00001	0.28	3.58	0.19	0.42	
					YES	WCW-M-46-00551-00002	0.28	3.58	0.17	0.37	
	BZ-LE	DS-DS	N/A	NO	NO	WCW-M-46-00560-00001	0.28	3.58	0.21	0.31	
					YES	WCW-M-46-00560-00002	0.28	3.58	0.19	0.27	
	GR-LE	DS-DS	N/A	NO	NO	WCW-M-46-00563-00001	0.28	3.57	0.22	0.28	
					YES	WCW-M-46-00563-00002	0.28	3.57	0.20	0.25	
	LE-EP	DS-DS	N/A	NO	NO	WCW-M-46-00572-00001	0.25	4.07	0.18	0.38	
					YES	WCW-M-46-00572-00002	0.25	4.07	0.16	0.33	
	RLTBLC (LE-CL RLT Blinds)	DS-DS	N/A	NO	NO	WCW-M-46-00797-00004	0.34	2.91	0.24	0.43	
	RLTBL2 (LE-EP RLT Blinds)	DS-DS	N/A	NO	NO	WCW-M-46-00800-00004	0.29	3.47	0.23	0.42	
RLTBL3 (LE-CL RLT Blinds)	DS-DS	N/A	NO	NO	WCW-M-46-00803-00004	0.34	2.97	0.18	0.40		

5400 Series Thermal Product Performance Chart

STYLE	CONFIGURATION	GLASS	LAMI	REFO	GRIDS	CPD Number	U-Factor	R-Value	SHGC	VT
Sidelite	RLTBL4 (LE-EP RLT Blinds)	DS-DS	N/A	NO	NO	WCW-M-46-00806-00004	0.29	3.51	0.17	0.39
Transom	LE-CL	DS-DS	N/A	NO	NO	WCW-M-36-00106-00001	0.27	3.69	0.24	0.55
					YES	WCW-M-36-00106-00005	0.27	3.69	0.22	0.49
		3S-3S	N/A	NO	NO	WCW-M-36-00163-00001	0.27	3.74	0.24	0.54
					YES	WCW-M-36-00163-00005	0.27	3.74	0.22	0.48
	BZ-LE	DS-DS	N/A	NO	NO	WCW-M-36-00106-00003	0.27	3.69	0.26	0.40
					YES	WCW-M-36-00106-00007	0.27	3.69	0.24	0.36
		3S-3S	N/A	NO	NO	WCW-M-36-00163-00003	0.27	3.74	0.24	0.35
					YES	WCW-M-36-00163-00007	0.27	3.74	0.22	0.31
	GR-LE	DS-DS	N/A	NO	NO	WCW-M-36-00106-00004	0.27	3.69	0.25	0.36
					YES	WCW-M-36-00106-00008	0.27	3.69	0.23	0.33
		3S-3S	N/A	NO	NO	WCW-M-36-00163-00004	0.27	3.74	0.22	0.30
					YES	WCW-M-36-00163-00008	0.27	3.74	0.20	0.27
	LE-EP	DS-DS	N/A	NO	NO	WCW-M-36-00142-00001	0.22	4.48	0.23	0.50
					YES	WCW-M-36-00142-00002	0.22	4.48	0.21	0.44
		3S-3S	N/A	NO	NO	WCW-M-36-00199-00001	0.22	4.53	0.23	0.49
					YES	WCW-M-36-00199-00002	0.22	4.53	0.21	0.44

ADDITIONAL NOTES

- 1) All thermal performance values listed above are based upon the use of Tin-Plate Intercept Spacer (CU-D), excluding the Ultra High Performance Glass Option
- 2) All thermal performance values listed above are based upon the use of Argon Gas, excluding the Ultra High Performance Glass Option & RLT Blinds
- 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 GR-LE glass configuration (Gray Tint - Low E)
- 9) All thermal performance values for RLT Blinds are based on Blinds in a retracted position