



3500 Series

Window Series	Grids	Glazing Type	STC	U-Value	SHGC	VLT	Energy Star Compliance	High Performance Low-E Option			HP Energy Star Compliance
								U-Value	SHGC	VLT	
3500 Single Hung	No Grids	Clear Insulated	28	0.47	0.64	0.66					
		Low-E Insulated	28	0.33	0.32	0.57		0.33	0.23	0.44	SC
		Low-E Insulated w/ argon	28	0.30	0.31	0.57	NC	0.29	0.22	0.44	NC, S, SC
	Grids	Clear Insulated	28	0.47	0.57	0.59					
		Low-E Insulated	28	0.33	0.29	0.51		0.33	0.21	0.39	SC
		Low-E Insulated w/ argon	28	0.30	0.28	0.51	NC	0.29	0.20	0.39	NC, S, SC
3500 Picture Window	No Grids	Clear Insulated		0.47	0.67	0.70					
		Low-E Insulated		0.31	0.34	0.61		0.31	0.24	0.47	SC
		Low-E Insulated w/ argon		0.27	0.34	0.61	N, NC	0.27	0.24	0.47	N, NC, S, SC
	Grids	Clear Insulated		0.47	0.60	0.63					
		Low-E Insulated		0.31	0.31	0.54		0.31	0.22	0.42	SC
		Low-E Insulated w/ argon		0.27	0.30	0.54	N, NC	0.27	0.22	0.42	NC, S, SC
3540 Single Hung	No Grids	Clear Insulated	27	0.48	0.64	0.66					
		Low-E Insulated	27	0.33	0.32	0.57		0.33	0.23	0.44	SC
		Low-E Insulated w/ argon	27	0.30	0.31	0.57	NC	0.30	0.22	0.44	NC, S, SC
	Grids	Clear Insulated	27	0.48	0.57	0.59					
		Low-E Insulated	27	0.33	0.29	0.51		0.33	0.21	0.39	SC
		Low-E Insulated w/ argon	27	0.30	0.28	0.51	NC	0.30	0.20	0.39	NC, S, SC
3540 Picture Window	No Grids	Clear Insulated		0.47	0.67	0.70					
		Low-E Insulated		0.31	0.34	0.61		0.31	0.24	0.47	SC
		Low-E Insulated w/ argon		0.27	0.34	0.61	N, NC	0.27	0.24	0.47	N, NC, S, SC
	Grids	Clear Insulated		0.47	0.60	0.63					
		Low-E Insulated		0.31	0.31	0.54		0.31	0.22	0.42	SC
		Low-E Insulated w/ argon		0.27	0.30	0.54	N, NC	0.27	0.22	0.42	N, NC, S, SC
3580 Single Slider	No Grids	Clear Insulated		0.48	0.65	0.68					
		Low-E Insulated		0.33	0.32	0.58		0.33	0.23	0.45	SC
		Low-E Insulated w/ argon		0.29	0.32	0.58	NC	0.29	0.23	0.45	NC, S, SC
	Grids	Clear Insulated		0.48	0.58	0.61					
		Low-E Insulated		0.33	0.29	0.52		0.33	0.21	0.40	SC
		Low-E Insulated w/ argon		0.29	0.29	0.52	NC	0.29	0.21	0.40	NC, S, SC
9770 Casement	No Grids	Clear Insulated	28	0.38	0.49	0.51					
		Low-E Insulated	28	0.27	0.25	0.44	N, NC, S, SC	0.27	0.18	0.34	N, NC, S, SC
		Low-E Insulated w/ argon	28	0.24	0.25	0.44	N, NC, S, SC	0.24	0.18	0.34	N, NC, S, SC
	Grids	Clear Insulated	28	0.38	0.44	0.46					
		Low-E Insulated	28	0.27	0.23	0.40	N, NC, S, SC	0.27	0.16	0.31	N, NC, S, SC
		Low-E Insulated w/ argon	28	0.24	0.22	0.40	N, NC, S, SC	0.24	0.16	0.31	N, NC, S, SC
9660 Awning	No Grids	Clear Insulated		0.39	0.49	0.51					
		Low-E Insulated		0.27	0.25	0.44	N, NC, S, SC	0.27	0.18	0.34	N, NC, S, SC
		Low-E Insulated w/ argon		0.24	0.25	0.44	N, NC, S, SC	0.24	0.18	0.34	N, NC, S, SC
	Grids	Clear Insulated		0.39	0.44	0.46					
		Low-E Insulated		0.27	0.23	0.40	N, NC, S, SC	0.27	0.16	0.31	N, NC, S, SC
		Low-E Insulated w/ argon		0.24	0.22	0.40	N, NC, S, SC	0.24	0.16	0.31	N, NC, S, SC
1695 Basement	No Grids	Clear Insulated		0.40	0.49	0.51					
		Low-E Insulated						0.28	0.18	0.34	NC, S, SC
		Low-E Insulated w/ argon		0.25	0.25	0.44	N, NC, S, SC	0.25	0.18	0.34	N, NC, S, SC
	Grids	Clear Insulated		0.40	0.44	0.46					
		Low-E Insulated						0.28	0.16	0.31	NC, S, SC
		Low-E Insulated w/ argon		0.25	0.22	0.40	N, NC, S, SC	0.25	0.16	0.31	N, NC, S, SC
910 Sliding Glass Door	No Grids	Clear Insulated		0.46	0.64	0.67					
		Low-E Insulated		0.32	0.32	0.58		0.31	0.23	0.45	
		Low-E Insulated w/ argon		0.28	0.32	0.58	N, NC	0.28	0.23	0.45	N, NC, S, SC
	Grids	Clear Insulated		0.46	0.57	0.59					
		Low-E Insulated		0.32	0.29	0.51		0.31	0.21	0.39	
		Low-E Insulated w/ argon		0.28	0.28	0.51	N, NC	0.28	0.20	0.39	N, NC, S, SC



4300 Series

Window Series	Grids	Glazing Type	STC	U-Value	SHGC	VLT	Energy Star Compliance	High Performance Low-E Option			HP Energy Star Compliance
								U-Value	SHGC	VLT	
4300 Single Hung	No Grids	Clear Insulated	29	0.48	0.63	0.66					
		Low-E Insulated	29	0.34	0.31	0.56		0.34	0.23	0.43	S
		Low-E Insulated w/ argon	29	0.30	0.31	0.56	NC	0.30	0.22	0.43	NC, SC, S
	Grids	Clear Insulated	29	0.48	0.57	0.59					
		Low-E Insulated	29	0.34	0.28	0.50		0.34	0.20	0.39	S
		Low-E Insulated w/ argon	29	0.30	0.28	0.50	NC	0.30	0.20	0.39	NC, SC, S
4300 Picture Window	No Grids	Clear Insulated		0.47	0.65	0.68					
		Low-E Insulated		0.32	0.33	0.59		0.31	0.24	0.45	S
		Low-E Insulated w/ argon		0.28	0.33	0.59	N, NC	0.28	0.23	0.45	NC, SC, S
	Grids	Clear Insulated		0.47	0.58	0.61					
		Low-E Insulated		0.32	0.30	0.53		0.31	0.22	0.40	S
		Low-E Insulated w/ argon		0.28	0.30	0.53	NC	0.28	0.21	0.40	NC, SC, S
4340 Single Hung	No Grids	Clear Insulated	28	0.48	0.63	0.66					
		Low-E Insulated	28	0.34	0.31	0.56		0.34	0.23	0.43	S
		Low-E Insulated w/ argon	28	0.30	0.31	0.56	NC	0.30	0.22	0.43	NC, SC, S
	Grids	Clear Insulated	28	0.48	0.57	0.59					
		Low-E Insulated	28	0.34	0.28	0.50		0.34	0.20	0.39	S
		Low-E Insulated w/ argon	28	0.30	0.28	0.50	NC	0.30	0.20	0.39	NC, SC, S
1695 Basement	No Grids	Clear Insulated		0.47	0.65	0.68					
		Low-E Insulated		0.32	0.33	0.59		0.31	0.24	0.45	S
		Low-E Insulated w/ argon		0.28	0.33	0.59	N, NC	0.28	0.23	0.45	NC, SC, S
	Grids	Clear Insulated		0.47	0.58	0.61					
		Low-E Insulated		0.32	0.30	0.53		0.31	0.22	0.40	S
		Low-E Insulated w/ argon		0.28	0.30	0.53	NC	0.28	0.21	0.40	NC, SC, S
9770 Casement	No Grids	Clear Insulated	28	0.38	0.49	0.51					
		Low-E Insulated	28	0.27	0.25	0.44	N, NC, SC, S	0.27	0.18	0.34	N, NC, SC, S
		Low-E Insulated w/ argon	28	0.24	0.25	0.44	N, NC, SC, S	0.24	0.18	0.34	N, NC, SC, S
	Grids	Clear Insulated	28	0.38	0.44	0.46					
		Low-E Insulated	28	0.27	0.23	0.40	N, NC, SC, S	0.27	0.16	0.31	N, NC, SC, S
		Low-E Insulated w/ argon	28	0.24	0.22	0.40	N, NC, SC, S	0.24	0.16	0.31	N, NC, SC, S
9660 Awning	No Grids	Clear Insulated		0.39	0.49	0.51					
		Low-E Insulated		0.27	0.25	0.44	N, NC, SC, S	0.27	0.18	0.34	N, NC, SC, S
		Low-E Insulated w/ argon		0.24	0.25	0.44	N, NC, SC, S	0.24	0.18	0.34	N, NC, SC, S
	Grids	Clear Insulated		0.39	0.44	0.46					
		Low-E Insulated		0.27	0.23	0.40	N, NC, SC, S	0.27	0.16	0.31	N, NC, SC, S
		Low-E Insulated w/ argon		0.24	0.22	0.40	N, NC, SC, S	0.24	0.16	0.31	N, NC, SC, S
1695 Basement	No Grids	Clear Insulated		0.40	0.49	0.51					
		Low-E Insulated		0.28	0.25	0.44	NC, SC, S	0.28	0.18	0.34	NC, SC, S
		Low-E Insulated w/ argon		0.25	0.25	0.44	N, NC, SC, S	0.25	0.18	0.34	N, NC, SC, S
	Grids	Clear Insulated		0.40	0.44	0.46					
		Low-E Insulated		0.28	0.23	0.40	NC, SC, S	0.28	0.16	0.31	NC, SC, S
		Low-E Insulated w/ argon		0.25	0.22	0.40	N, NC, SC, S	0.25	0.16	0.31	N, NC, SC, S
910 Sliding Glass Door	No Grids	Clear Insulated		0.46	0.64	0.67					
		Low-E Insulated		0.32	0.32	0.58		0.31	0.23	0.45	S
		Low-E Insulated w/ argon		0.28	0.32	0.58	N, NC	0.28	0.23	0.45	NC, SC, S
	Grids	Clear Insulated		0.46	0.57	0.59					
		Low-E Insulated		0.32	0.29	0.51		0.31	0.21	0.39	S
		Low-E Insulated w/ argon		0.28	0.28	0.51	NC	0.28	0.20	0.39	NC, SC, S



7000 Series

Window Series	Grids	Glazing Type	STC	U-Value	SHGC	VLT	Energy Star Compliance	High Performance Low-E Option			HP Energy Star Compliance
								U-Value	SHGC	VLT	
7050 Single Hung	No Grids	Clear Insulated		0.47	0.62	0.65					
		Low-E Insulated		0.34	0.29	0.54		0.33	0.22	0.43	S
		Low-E Insulated w/ argon		0.30	0.29	0.54	NC	0.30	0.22	0.43	SC, S
	Grids	Clear Insulated		0.47	0.56	0.58					
		Low-E Insulated		0.34	0.26	0.48		0.33	0.20	0.38	S
		Low-E Insulated w/ argon		0.30	0.26	0.48	NC	0.30	0.20	0.38	NC, SC, S
7080 Single Slider	No Grids	Clear Insulated		0.48	0.63	0.65					
		Low-E Insulated		0.33	0.30	0.55		0.33	0.23	0.44	S
		Low-E Insulated w/ argon		0.30	0.29	0.55	NC	0.30	0.22	0.44	NC, SC, S
	Grids	Clear Insulated		0.48	0.56	0.58					
		Low-E Insulated		0.33	0.27	0.50		0.33	0.21	0.39	S
		Low-E Insulated w/ argon		0.30	0.27	0.50	NC	0.30	0.20	0.39	NC, SC, S
7570 Casement	No Grids	Clear Insulated		0.45	0.60	0.64					
		Low-E Insulated		0.31	0.29	0.54		0.30	0.22	0.43	NC, SC, S
		Low-E Insulated w/ argon		0.27	0.29	0.54	N, NC	0.27	0.22	0.43	N, NC, SC, S
	Grids	Clear Insulated		0.45	0.53	0.57					
		Low-E Insulated		0.31	0.26	0.48		0.30	0.20	0.38	NC, SC, S
		Low-E Insulated w/ argon		0.27	0.26	0.48	N, NC	0.27	0.20	0.38	N, NC, SC, S



Aluminum Products

Window Series	Grids	Glazing Type	STC	U-Value	SHGC	VLT	Energy Star Compliance	High Performance Low-E Option			HP Energy Star Compliance
								U-Value	SHGC	VLT	
185 Single Hung	No Grids	Clear Insulated		0.68	0.65	0.67					
		Low-E Insulated		0.54	0.31	0.57		0.54	0.25	0.44	
		Low-E Insulated w/ argon		0.49	0.31	0.57		0.49	0.24	0.44	
	Grids	Clear Insulated		0.68	0.58	0.60					
		Low-E Insulated		0.56	0.28	0.51		0.55	0.22	0.40	
		Low-E Insulated w/ argon		0.51	0.28	0.51		0.50	0.22	0.40	
185 Picture Window	No Grids	Clear Insulated	27	0.60	0.71	0.74					
		Low-E Insulated	27	0.45	0.34	0.62		0.45	0.26	0.49	
		Low-E Insulated w/ argon	27	0.40	0.33	0.62		0.40	0.26	0.49	
	Grids	Clear Insulated	27	0.61	0.64	0.66					
		Low-E Insulated	27	0.47	0.31	0.56		0.47	0.24	0.44	
		Low-E Insulated w/ argon	27	0.42	0.30	0.56		0.41	0.24	0.44	
188 Single Slider	No Grids	Clear Insulated	28	0.70	0.64	0.66					
		Low-E Insulated	28	0.56	0.31	0.56		0.56	0.24	0.44	
		Low-E Insulated w/ argon	28	0.52	0.31	0.56		0.51	0.24	0.44	
	Grids	Clear Insulated	28	0.70	0.58	0.59					
		Low-E Insulated	28	0.58	0.28	0.50		0.58	0.22	0.39	
		Low-E Insulated w/ argon	28	0.53	0.28	0.50		0.53	0.22	0.39	
275 Single Hung	No Grids	Clear Insulated		0.58	0.66	0.68					
		Low-E Insulated		0.43	0.31	0.57		0.43	0.24	0.45	
		Low-E Insulated w/ argon		0.39	0.31	0.57		0.39	0.24	0.45	S
	Grids	Clear Insulated		0.58	0.60	0.61					
		Low-E Insulated		0.43	0.28	0.51		0.43	0.22	0.40	
		Low-E Insulated w/ argon		0.39	0.28	0.51		0.39	0.21	0.40	S
278 Single Slider	No Grids	Clear Insulated		0.56	0.65	0.67					
		Low-E Insulated		0.42	0.31	0.57		0.42	0.24	0.44	
		Low-E Insulated w/ argon		0.38	0.39	0.57		0.38	0.23	0.44	S
	Grids	Clear Insulated		0.56	0.69	0.60					
		Low-E Insulated		0.42	0.28	0.51		0.42	0.22	0.40	
		Low-E Insulated w/ argon		0.38	0.28	0.51		0.38	0.21	0.40	S
275 Picture Window	No Grids	Clear Insulated		0.53	0.70	0.74					
		Low-E Insulated		0.37	0.33	0.62		0.36	0.26	0.49	
		Low-E Insulated w/ argon		0.33	0.33	0.62		0.32	0.25	0.49	S
	Grids	Clear Insulated		0.53	0.64	0.66					
		Low-E Insulated		0.37	0.30	0.56		0.36	0.24	0.44	
		Low-E Insulated w/ argon		0.33	0.30	0.56		0.32	0.23	0.44	S
515 Single Hung	No Grids	Clear Insulated		0.63	0.68	0.70					
		Low-E Insulated		0.48	0.32	0.59		0.48	0.25	0.46	
		Low-E Insulated w/ argon		0.44	0.32	0.59		0.44	0.24	0.46	
	Grids	Clear Insulated		0.63	0.62	0.62					
		Low-E Insulated		0.48	0.29	0.53		0.48	0.23	0.41	
		Low-E Insulated w/ argon		0.44	0.29	0.53		0.44	0.22	0.41	
515 Picture Window	No Grids	Clear Insulated		0.58	0.70	0.73					
		Low-E Insulated		0.42	0.33	0.62		0.42	0.26	0.49	
		Low-E Insulated w/ argon		0.39	0.33	0.62		0.38	0.25	0.49	
	Grids	Clear Insulated		0.58	0.63	0.66					
		Low-E Insulated		0.42	0.30	0.56		0.42	0.24	0.44	
		Low-E Insulated w/ argon		0.39	0.30	0.56		0.38	0.23	0.44	
620 Sliding Glass Door	No Grids	Clear Insulated		0.69	0.62	0.64					
		Low-E Insulated		0.58	0.30	0.54		0.56	0.23	0.42	
		Low-E Insulated w/ argon		0.53	0.29	0.54		0.53	0.23	0.42	
	Grids	Clear Insulated		0.69	0.55	0.56					
		Low-E Insulated		0.57	0.26	0.47		0.56	0.23	0.43	
		Low-E Insulated w/ argon		0.53	0.26	0.47		0.53	0.20	0.37	

Window Series	Grids	Glazing Type	STC	U-Value	SHGC	VLT	Energy Star Compliance	High Performance Low-E Option			HP Energy Star Compliance
								U-Value	SHGC	VLT	
420 Sliding Glass Door	No Grids	Clear Insulated		0.70	0.67	0.70					
		Low-E Insulated		0.56	0.32	0.59		0.55	0.25	0.47	
		Low-E Insulated w/ argon		0.51	0.32	0.59		0.50	0.25	0.47	
	Grids	Clear Insulated		0.70	0.60	0.62					
		Low-E Insulated		0.58	0.29	0.52		0.57	0.23	0.41	
		Low-E Insulated w/ argon		0.53	0.28	0.52		0.52	0.22	0.41	
430 Sliding Glass Door	No Grids	Clear Insulated		0.70	0.67	0.70					
		Low-E Insulated		0.56	0.32	0.59		0.55	0.25	0.47	
		Low-E Insulated w/ argon		0.51	0.32	0.59		0.50	0.25	0.47	
	Grids	Clear Insulated		0.70	0.60	0.62					
		Low-E Insulated		0.58	0.29	0.52		0.57	0.23	0.41	
		Low-E Insulated w/ argon		0.53	0.28	0.52		0.52	0.22	0.41	
440 Sliding Glass Door	No Grids	Clear Insulated		0.70	0.67	0.70					
		Low-E Insulated		0.56	0.32	0.59		0.55	0.25	0.47	
		Low-E Insulated w/ argon		0.51	0.32	0.59		0.50	0.25	0.47	
	Grids	Clear Insulated		0.70	0.60	0.62					
		Low-E Insulated		0.58	0.29	0.52		0.57	0.23	0.41	
		Low-E Insulated w/ argon		0.53	0.28	0.52		0.52	0.22	0.41	



Pro5000 Series

Window Series	Grids	Glazing Type	STC	U-Value	SHGC	VLT	Energy Star Compliance	High Performance Low-E Option			HP Energy Star Compliance
								U-Value	SHGC	VLT	
5500 Single Hung	No Grids	Clear Insulated	26	0.47	0.65	0.68					
		Low-E Insulated	26	0.33	0.30	0.57		0.33	0.23	0.45	S
		Low-E Insulated w/ argon	26	0.29	0.30	0.57	NC	0.29	0.23	0.45	NC, SC, S
	Grids	Clear Insulated	26	0.47	0.59	0.61					
		Low-E Insulated	26	0.33	0.27	0.51		0.33	0.21	0.40	S
		Low-E Insulated w/ argon	26	0.29	0.27	0.51	NC	0.29	0.21	0.40	NC, SC, S
5610 Picture Window	No Grids	Clear Insulated	29	0.47	0.69	0.73					
		Low-E Insulated	29	0.31	0.33	0.62		0.31	0.25	0.48	S
		Low-E Insulated w/ argon	29	0.27	0.33	0.62	N, NC	0.27	0.25	0.48	N, NC, SC, S
	Grids	Clear Insulated	29	0.47	0.63	0.66					
		Low-E Insulated	29	0.31	0.30	0.55		0.31	0.23	0.44	S
		Low-E Insulated w/ argon	29	0.27	0.30	0.55	N, NC	0.27	0.23	0.44	N, NC, SC, S
5800 Single Slider	No Grids	Clear Insulated		0.48	0.66	0.69					
		Low-E Insulated		0.33	0.31	0.58		0.33	0.24	0.45	S
		Low-E Insulated w/ argon		0.29	0.31	0.58	NC	0.29	0.23	0.45	NC, SC, S
	Grids	Clear Insulated		0.48	0.59	0.62					
		Low-E Insulated		0.33	0.28	0.52		0.33	0.21	0.41	S
		Low-E Insulated w/ argon		0.29	0.28	0.52	NC	0.29	0.21	0.41	NC, SC, S



Professional Series

Window Series	Grids	Glazing Type	STC	U-Value	SHGC	VLT	Energy Star Compliance	High Performance Low-E Option			HP Energy Star Compliance
								U-Value	SHGC	VLT	
1255 Single Hung	No Grids	Clear Insulated	28	0.46	0.64	0.66					
		Low-E Insulated	28					0.32	0.23	0.44	S
		Low-E Insulated w/ argon	28	0.28	0.31	0.57	NC	0.28	0.22	0.44	NC,SC,S
	Grids	Clear Insulated	28	0.46	0.57	0.59					
		Low-E Insulated	28					0.32	0.21	0.39	S
		Low-E Insulated w/ argon	28	0.28	0.28	0.51	NC	0.28	0.20	0.39	NC,SC,S
1255 Picture Window	No Grids	Clear Insulated		0.46	0.67	0.70					
		Low-E Insulated		0.30	0.34	0.61	NC	0.30	0.24	0.47	NC,SC,S
		Low-E Insulated w/ argon		0.26	0.34	0.61	N, NC	0.26	0.24	0.47	N,NC,SC,S
	Grids	Clear Insulated		0.46	0.60	0.63					
		Low-E Insulated		0.30	0.31	0.54	NC	0.30	0.22	0.42	NC,SC,S
		Low-E Insulated w/ argon		0.26	0.30	0.54	N, NC	0.26	0.22	0.42	N,NC,SC,S
1280 Single Slider	No Grids	Clear Insulated		0.47	0.65	0.68					
		Low-E Insulated						0.32	0.23	0.45	S
		Low-E Insulated w/ argon		0.28	0.32	0.58	N, NC	0.28	0.23	0.45	NC,SC,S
	Grids	Clear Insulated		0.47	0.58	0.61					
		Low-E Insulated						0.32	0.21	0.40	S
		Low-E Insulated w/ argon		0.28	0.29	0.52	NC	0.28	0.21	0.40	NC,SC,S
1355 Single Hung	No Grids	Clear Insulated	29	0.47	0.63	0.66					
		Low-E Insulated	29	0.32	0.31	0.56		0.32	0.23	0.43	S
		Low-E Insulated w/ argon	29	0.29	0.31	0.56	NC	0.29	0.22	0.43	NC,SC,S
	Grids	Clear Insulated	29	0.47	0.57	0.59					
		Low-E Insulated	29	0.32	0.28	0.50		0.32	0.20	0.39	S
		Low-E Insulated w/ argon	29	0.29	0.28	0.50	NC	0.29	0.20	0.39	NC,SC,S
1355 Picture Window	No Grids	Clear Insulated		0.46	0.65	0.68					
		Low-E Insulated		0.31	0.33	0.59		0.31	0.24	0.45	S
		Low-E Insulated w/ argon		0.27	0.33	0.59	N, NC	0.27	0.23	0.45	N,NC,SC,S
	Grids	Clear Insulated		0.46	0.58	0.61					
		Low-E Insulated		0.31	0.30	0.53		0.31	0.22	0.40	S
		Low-E Insulated w/ argon		0.27	0.30	0.53	N, NC	0.27	0.21	0.40	N,NC,SC,S