

WinDoor®

OPENING POSSIBILITIES.

GLASS OPTIONS & PERFORMANCE

BY PRODUCT SERIES



National Fenestration
Rating Council®

**NFRC Whole
Product Values**

ASTM - E283 Air Infiltration; 6.2 psf (49 mph)
Allowed 0.3 cfm-sq.ft.
Measured 0.1 cfm-sq.ft.

ASTM - E547 Water Resistance; 5.0 gph-sq.ft.
No Leakage

Turtle Glass Compliant=

9066 Series

Awning Window [Thermally Broken Aluminum]

7/16" LAMINATED .090 SGP - LMI	U-F	SHGC	VT	COG VT	CR
CLEAR/CLEAR	0.86	0.44	0.50	0.86	17
GRAY/CLEAR	0.86	0.35	0.28	0.48	17
BRONZE/CLEAR	0.86	0.37	0.33	0.56	17
GREEN/CLEAR	0.86	0.37	0.44	0.76	17
SOLARCOOL GRAY/ CLEAR	0.86	0.23	0.11	0.19	17
SOLARCOOL BRONZE/ CLEAR	0.86	0.24	0.13	0.22	17
SB60 CLEAR/CLEAR	0.86	0.28	0.42	0.72	17
SB60 CLEAR/GRAY	0.86	0.23	0.24	0.41	17
SB60 CLEAR/BRONZE	0.86	0.24	0.27	0.47	17
SB60 CLEAR/GREEN	0.86	0.26	0.37	0.64	17
SB60 GRAY/CLEAR	0.86	0.26	0.24	0.41	17
SB70XL CLEAR/CLEAR	0.86	0.23	0.34	0.59	17
SB70XL CLEAR/GRAY	0.86	0.19	0.19	0.33	17
SB70XL CLEAR/BRONZE	0.86	0.20	0.22	0.38	17
SB70XL CLEAR/GREEN	0.86	0.21	0.30	0.52	17

1" INSULATED - LMI	U-F	SHGC	VT	COG VT	CR
<i>3/16" - 1/2" ARGON - 5/16" .090 SGP</i>					
CLEAR/CLEAR	0.57	0.42	0.45	0.78	43
GRAY/CLEAR	0.57	0.30	0.26	0.44	43
BRONZE/CLEAR	0.57	0.32	0.30	0.51	43
SOLARCOOL GRAY/ CLEAR	0.57	0.19	0.10	0.17	43
SOLARCOOL BRONZE/ CLEAR	0.57	0.20	0.12	0.20	43
SB60 CLEAR/CLEAR	0.46	0.25	0.40	0.70	44
SB60 CLEAR/GRAY*	0.46	0.24	0.18	0.31	44
SB60 CLEAR/BRONZE*	0.46	0.24	0.22	0.39	44
SB60 CLEAR/GREEN*	0.46	0.24	0.35	0.59	44
SB70XL CLEAR/CLEAR	0.45	0.18	0.36	0.62	44
SB70XL CLEAR/GRAY*	0.45	0.17	0.16	0.28	44
SB70XL CLEAR/ BRONZE*	0.45	0.17	0.20	0.34	44
SB70XL CLEAR/GREEN*	0.45	0.18	0.31	0.53	44
ENERGY ADVT/CLEAR	0.56	0.38	0.42	0.73	44
ENERGY ADVT/GRAY*	0.56	0.36	0.19	0.33	44
ENERGY ADVT/BRONZE*	0.56	0.36	0.23	0.40	44
ENERGY ADVT/GREEN*	0.56	0.36	0.36	0.62	44

* Dual Tint on Lami

1/4" NON-IMPACT	U-F	SHGC	VT	COG VT	CR
CLEAR	0.92	0.50	0.52	0.89	13
GRAY	0.92	0.39	0.29	0.50	13
BRONZE	0.92	0.40	0.34	0.58	13
OPTIBLUE	0.92	0.44	0.37	0.64	13
GREEN	0.92	0.38	0.45	0.77	13
SOLARCOOL GRAY	0.92	0.24	0.10	0.17	13
SOLARCOOL BRONZE	0.92	0.26	0.12	0.21	13

1" INSULATED NON-IMPACT	U-F	SHGC	VT	COG VT	CR
<i>1/8" - 3/4" ARGON - 1/8"</i>					
CLEAR/CLEAR	0.58	0.46	0.47	0.81	43
GRAY/CLEAR	0.58	0.37	0.33	0.56	43
BRONZE/CLEAR	0.58	0.38	0.36	0.61	43
SB60 CLEAR/CLEAR	0.50	0.25	0.42	0.72	29
SB60 CLEAR/GRAY	0.50	0.25	0.29	0.50	29
SB60 CLEAR/BRONZE	0.50	0.25	0.32	0.55	29
SB60 CLEAR/GREEN	0.50	0.25	0.39	0.67	29
SB60 GRAY/CLEAR	0.50	0.20	0.28	0.49	29
SB70XL CLEAR/CLEAR	0.50	0.18	0.37	0.64	30
SB70XL CLEAR/GRAY	0.50	0.18	0.26	0.44	30
SB70XL CLEAR/BRONZE	0.50	0.18	0.28	0.48	30
SB70XL CLEAR/GREEN	0.50	0.18	0.34	0.59	30
ENERGY ADVT/CLEAR	0.49	0.42	0.44	0.76	43
ENERGY ADVT/GRAY	0.49	0.41	0.31	0.53	43
ENERGY ADVT/BRONZE	0.49	0.41	0.34	0.58	43

ASTM - E283 Air Infiltration; 6.2 psf (49 mph)

Allowed 0.3 cfm-sq. ft

Measured 0.017 cfm-sq. ft.

ASTM - E547 Water Resistance; 5.0 gph-sqr. Ft.

No Leakage

Turtle Glass Compliant=

9020 Series

Fixed Window [Thermally Broken Aluminum]

1/4" NON-IMPACT	U-F	SHGC	VT	COG VT	CR
CLEAR	0.97	0.69	0.74	0.89	13
GRAY	0.97	0.51	0.38	0.45	13
BRONZE	0.97	0.53	0.45	0.54	13
AZURIA	0.97	0.44	0.57	0.68	13
OPTIBLUE	0.97	0.62	0.54	0.64	13
GREEN	0.97	0.52	0.65	0.77	13
ATLANTICA	0.97	0.45	0.56	0.67	13
SOLARCOOL GRAY	0.97	0.32	0.14	0.17	13
SOLARCOOL BRONZE	0.97	0.35	0.17	0.21	13

1" INSULATED NON-IMPACT	U-F	SHGC	VT	COG VT	CR
<i>1/4" - 1/2" ARGON - 1/4"</i>					
CLEAR/CLEAR	0.50	0.60	0.66	0.79	45
GRAY/CLEAR	0.50	0.40	0.34	0.40	45
BRONZE/CLEAR	0.50	0.43	0.40	0.48	45
SOLARCOOL GRAY/CLEAR	0.50	0.24	0.13	0.15	45
SOLARCOOL BRONZE/CLEAR	0.50	0.26	0.15	0.18	45
SB60 CLEAR/CLEAR	0.34	0.33	0.59	0.70	47
SB60 CLEAR/GRAY	0.34	0.32	0.30	0.36	47
SB60 CLEAR/BRONZE	0.34	0.32	0.36	0.43	47
SB60 CLEAR/GREEN	0.34	0.32	0.51	0.61	47
SB70XL STARPHIRE/CLEAR	0.33	0.23	0.54	0.64	47
SB70XL STARPHIRE/GRAY	0.33	0.23	0.27	0.33	47
SB70XL STARPHIRE/BRONZE	0.33	0.23	0.32	0.39	47
SB70XL STARPHIRE/GREEN	0.33	0.23	0.47	0.56	47
ENERGY ADVT/CLEAR	0.37	0.53	0.61	0.73	47
ENERGY ADVT/GRAY	0.37	0.50	0.31	0.37	47
ENERGY ADVT/BRONZE	0.37	0.50	0.37	0.44	47

9/16" LAMINATED .090 SGP - LMI	U-F	SHGC	VT	COG VT	CR
CLEAR/CLEAR	0.89	0.60	0.71	0.85	17
GRAY/CLEAR	0.89	0.46	0.36	0.43	17
BRONZE/CLEAR	0.89	0.48	0.43	0.51	17
GREEN/CLEAR	0.89	0.48	0.62	0.74	17
SOLARCOOL BRONZE/CLEAR	0.89	0.31	0.16	0.20	17
SB60 CLEAR/CLEAR	0.89	0.40	0.59	0.71	17
SB60 CLEAR/GRAY	0.89	0.30	0.30	0.36	17
SB60 CLEAR/BRONZE	0.89	0.32	0.36	0.43	17
SB60 CLEAR/GREEN	0.89	0.34	0.52	0.62	17
SB70XL STARPHIRE/CLEAR	0.89	0.27	0.50	0.59	17
SB70XL STARPHIRE/GRAY	0.89	0.21	0.25	0.30	17
SB70XL STARPHIRE/BRONZE	0.89	0.22	0.30	0.36	17
SB70XL STARPHIRE/GREEN	0.89	0.25	0.43	0.52	17

1" INSULATED - LMI	U-F	SHGC	VT	COG VT	CR
<i>3/16" - 3/8" ARGON - 7/16" .090 SGP</i>					
CLEAR/CLEAR	0.49	0.60	0.65	0.77	45
GRAY/CLEAR	0.49	0.41	0.36	0.43	45
BRONZE/CLEAR	0.49	0.43	0.42	0.50	45
SOLARCOOL GRAY/CLEAR	0.49	0.24	0.14	0.17	45
SOLARCOOL BRONZE/CLEAR	0.49	0.27	0.16	0.20	45
SB60 CLEAR/CLEAR	0.34	0.33	0.57	0.68	47
SB60 CLEAR/GRAY	0.34	0.32	0.32	0.38	47
SB60 CLEAR/BRONZE	0.34	0.32	0.37	0.45	47
SB60 CLEAR/GREEN	0.34	0.32	0.51	0.61	47
SB70XL CLEAR/CLEAR	0.34	0.24	0.51	0.61	47
SB70XL CLEAR/GRAY	0.34	0.23	0.28	0.34	47
SB70XL CLEAR/BRONZE	0.34	0.23	0.33	0.39	47
SB70XL CLEAR/GREEN	0.34	0.23	0.45	0.54	47
ENERGY ADVT/CLEAR	0.38	0.52	0.60	0.71	45
ENERGY ADVT/GRAY	0.38	0.49	0.33	0.40	45
ENERGY ADVT/BRONZE	0.38	0.50	0.39	0.46	45
ENERGY ADVT/GREEN	0.38	0.50	0.53	0.64	45

ASTM - E283 Air Infiltration; 6.2 psf (49 mph)

Allowed 0.3 cfm-sq. ft.

Measured 0.001 cfm-sq. ft.

ASTM - E547 Water Resistance; 5.0 gph-sqr. Ft.

No Leakage

Turtle Glass Compliant=

9060 Series

Casement Window [Thermally Broken Aluminum]

1/4" NON-IMPACT	U-F	SHGC	VT	COG VT	CR
CLEAR	0.89	0.50	0.52	0.89	13
GRAY	0.89	0.39	0.29	0.50	13
BRONZE	0.89	0.40	0.34	0.58	13
AZURIA	0.89	0.32	0.40	0.68	13
OPTIBLUE	0.89	0.44	0.37	0.64	13
GREEN	0.89	0.38	0.45	0.77	13
SOLARCOOL GRAY	0.89	0.24	0.10	0.17	13
SOLARCOOL BRONZE	0.89	0.26	0.12	0.21	13

1" INSULATED NON-IMPACT	U-F	SHGC	VT	COG VT	CR
3/16" - 5/8" ARGON - 3/16"					
CLEAR/CLEAR	0.58	0.44	0.47	0.80	43
GRAY/CLEAR	0.58	0.32	0.26	0.45	43
BRONZE/CLEAR	0.58	0.33	0.30	0.52	43
SOLARCOOL GRAY/CLEAR	0.58	0.20	0.10	0.17	43
SOLARCOOL BRONZE/CLEAR	0.58	0.21	0.12	0.20	43
SB60 CLEAR/CLEAR	0.49	0.25	0.41	0.71	29
SB60 CLEAR/GRAY	0.49	0.24	0.23	0.40	29
SB60 CLEAR/BRONZE	0.49	0.24	0.27	0.47	29
SB60 CLEAR/GREEN	0.49	0.24	0.37	0.64	29
SB60 GRAY/CLEAR	0.49	0.17	0.23	0.40	29
SB70XL CLEAR/CLEAR	0.49	0.18	0.37	0.63	29
SB70XL CLEAR/GRAY	0.49	0.17	0.21	0.36	29
SB70XL CLEAR/BRONZE	0.49	0.17	0.24	0.41	29
SB70XL CLEAR/GREEN	0.49	0.18	0.33	0.56	29
ENERGY ADVT/CLEAR	0.49	0.39	0.43	0.74	43
ENERGY ADVT/GRAY	0.49	0.37	0.24	0.42	43
ENERGY ADVT/BRONZE	0.49	0.38	0.28	0.49	43

7/16" LAMINATED .090 SGP - LMI	U-F	SHGC	VT	COG VT	CR
CLEAR/CLEAR	0.84	0.44	0.50	0.86	17
GRAY/CLEAR	0.84	0.35	0.28	0.48	17
BRONZE/CLEAR	0.84	0.37	0.33	0.56	17
GREEN/CLEAR	0.84	0.37	0.44	0.76	17
SOLARCOOL GRAY/CLEAR	0.84	0.23	0.11	0.19	17
SOLARCOOL BRONZE/CLEAR	0.84	0.24	0.13	0.22	17
SB60 CLEAR/CLEAR	0.84	0.28	0.42	0.72	17
SB60 CLEAR/GRAY	0.84	0.23	0.24	0.41	17
SB60 CLEAR/BRONZE	0.84	0.24	0.27	0.47	17
SB60 CLEAR/GREEN	0.84	0.26	0.37	0.64	17
SB70XL CLEAR/CLEAR	0.84	0.23	0.34	0.59	17
SB70XL CLEAR/GRAY	0.84	0.19	0.19	0.33	17
SB70XL CLEAR/BRONZE	0.84	0.20	0.22	0.38	17
SB70XL CLEAR/GREEN	0.84	0.21	0.30	0.52	17

1" INSULATED - LMI	U-F	SHGC	VT	COG VT	CR
3/16" - 1/2" ARGON - 5/16" .090 SGP					
CLEAR/CLEAR	0.56	0.42	0.45	0.78	43
GRAY/CLEAR	0.56	0.30	0.26	0.44	43
BRONZE/CLEAR	0.56	0.32	0.30	0.51	43
SOLARCOOL GRAY/CLEAR	0.56	0.19	0.10	0.17	43
SOLARCOOL BRONZE/CLEAR	0.56	0.20	0.12	0.20	43
SB60 CLEAR/CLEAR	0.46	0.25	0.40	0.70	44
SB60 CLEAR/GRAY*	0.46	0.24	0.18	0.31	44
SB60 CLEAR/BRONZE*	0.46	0.24	0.22	0.39	44
SB60 CLEAR/GREEN*	0.46	0.24	0.35	0.59	44
SB70XL CLEAR/CLEAR*	0.45	0.18	0.36	0.62	44
SB70XL CLEAR/GRAY*	0.45	0.17	0.16	0.28	44
SB70XL CLEAR/BRONZE*	0.45	0.17	0.20	0.34	44
SB70XL CLEAR/GREEN*	0.45	0.18	0.31	0.53	44
ENERGY ADVT/CLEAR	0.56	0.38	0.42	0.73	43
ENERGY ADVT/GRAY*	0.56	0.36	0.19	0.33	43
ENERGY ADVT/BRONZE*	0.56	0.36	0.23	0.40	43
ENERGY ADVT/GREEN*	0.56	0.36	0.36	0.62	43

* Dual Tint on Lami

ASTM - E283 Air Infiltration; 6.2 psf (49 mph)

Allowed 0.3 cfm-sq. ft.

Measured 0.001 cfm-sq. ft.

ASTM -E547 Water Resistance; 5.0 gph-sqr. Ft.

No Leakage

Turtle Glass Compliant=

9063 Series

Fixed Window [Thermally Broken Aluminum]

1/4" NON-IMPACT	U-F	SHGC	VT	COG VT	CR
CLEAR	0.93	0.62	0.64	0.88	13
GRAY	0.93	0.44	0.33	0.45	13
BRONZE	0.93	0.47	0.39	0.54	13
OPTIBLUE	0.93	0.54	0.46	0.64	13
GREEN	0.93	0.46	0.56	0.77	13
SOLARCOOL GRAY	0.93	0.28	0.12	0.17	13
SOLARCOOL BRONZE	0.93	0.30	0.15	0.21	13

1" INSULATED NON-IMPACT	U-F	SHGC	VT	COG VT	CR
<i>3/16" - 5/8" ARGON - 3/16"</i>					
CLEAR/CLEAR	0.52	0.56	0.58	0.80	43
GRAY/CLEAR	0.52	0.38	0.33	0.45	43
BRONZE/CLEAR	0.52	0.41	0.38	0.52	43
SOLARCOOL GRAY/CLEAR	0.52	0.23	0.13	0.17	43
SOLARCOOL BRONZE/CLEAR	0.52	0.25	0.15	0.20	43
SB60 CLEAR/CLEAR	0.38	0.29	0.52	0.71	45
SB60 CLEAR/GRAY	0.38	0.28	0.29	0.40	45
SB60 CLEAR/BRONZE	0.38	0.28	0.34	0.46	45
SB60 CLEAR/GREEN	0.38	0.28	0.46	0.63	45
SB60 GRAY/CLEAR	0.38	0.20	0.29	0.40	45
SB70XL CLEAR/CLEAR	0.37	0.21	0.46	0.63	45
SB70XL CLEAR/GRAY	0.37	0.20	0.26	0.36	45
SB70XL CLEAR/BRONZE	0.37	0.20	0.30	0.41	45
SB70XL CLEAR/GREEN	0.37	0.21	0.41	0.56	45
ENERGY ADVT/CLEAR	0.41	0.47	0.54	0.75	44
ENERGY ADVT/GRAY	0.41	0.45	0.30	0.42	44
ENERGY ADVT/BRONZE	0.41	0.45	0.35	0.49	44

7/16" LAMINATED .090 SGP - LMI	U-F	SHGC	VT	COG VT	CR
CLEAR/CLEAR	0.87	0.54	0.62	0.86	17
GRAY/CLEAR	0.87	0.42	0.35	0.48	17
BRONZE/CLEAR	0.87	0.44	0.40	0.56	17
GREEN/CLEAR	0.87	0.44	0.55	0.76	17
SOLARCOOL GRAY/CLEAR	0.87	0.27	0.13	0.19	17
SOLARCOOL BRONZE/CLEAR	0.87	0.28	0.16	0.22	17
SB60 CLEAR/CLEAR	0.86	0.34	0.52	0.72	17
SB60 CLEAR/GRAY	0.86	0.27	0.29	0.41	17
SB60 CLEAR/BRONZE	0.86	0.29	0.34	0.47	17
SB60 CLEAR/GREEN	0.86	0.31	0.47	0.64	17
SB60 GRAY/CLEAR	0.86	0.31	0.29	0.41	17
SB70XL CLEAR/CLEAR	0.86	0.27	0.43	0.59	17
SB70XL CLEAR/GRAY	0.86	0.22	0.24	0.33	17
SB70XL CLEAR/BRONZE	0.86	0.23	0.28	0.38	17
SB70XL CLEAR/GREEN	0.86	0.25	0.38	0.52	17

1" INSULATED - LMI	U-F	SHGC	VT	COG VT	CR
<i>3/16" - 3/8" ARGON - 7/16" .090 SGP</i>					
CLEAR/CLEAR	0.50	0.52	0.56	0.77	45
GRAY/CLEAR	0.50	0.36	0.31	0.43	45
BRONZE/CLEAR	0.50	0.38	0.36	0.50	45
SOLARCOOL GRAY/CLEAR	0.50	0.21	0.12	0.17	45
SOLARCOOL BRONZE/CLEAR	0.50	0.23	0.14	0.20	45
SB60 CLEAR/CLEAR	0.36	0.28	0.50	0.68	46
SB60 CLEAR/GRAY	0.36	0.28	0.28	0.38	46
SB60 CLEAR/BRONZE	0.36	0.28	0.32	0.44	46
SB60 CLEAR/GREEN	0.36	0.28	0.44	0.61	46
SB60 GRAY/CLEAR	0.36	0.20	0.28	0.39	46
SB70XL CLEAR/CLEAR	0.36	0.21	0.44	0.61	46
SB70XL CLEAR/GRAY	0.36	0.20	0.25	0.34	46
SB70XL CLEAR/BRONZE	0.36	0.20	0.29	0.39	46
SB70XL CLEAR/GREEN	0.36	0.20	0.39	0.54	46
ENERGY ADVT/CLEAR	0.39	0.46	0.52	0.71	46
ENERGY ADVT/GRAY	0.39	0.44	0.29	0.40	46
ENERGY ADVT/BRONZE	0.39	0.44	0.34	0.46	46
ENERGY ADVT/GREEN	0.39	0.44	0.46	0.64	46

ASTM - E283 Air Infiltration; 6.2 psf (49 mph)
 Allowed 0.3 cfm-sq. ft.
 Measured 0.04 cfm-sq. ft.

ASTM - E547 Water Resistance; 5.0 gph-sq. ft.
 No Leakage

Turtle Glass Compliant=

9400 Series

Single Hung Window [Thermally Broken Aluminum]

1" INSULATED NON-IMPACT	U-F	SHGC	VT	COG VT	CR
<i>1/8" - 3/4" ARGON - 1/8"</i>					
CLEAR/CLEAR	0.60	0.56	0.59	0.81	34
GRAY/CLEAR	0.60	0.44	0.40	0.56	34
BRONZE/CLEAR	0.60	0.46	0.44	0.61	34
SB60 CLEAR/CLEAR	0.46	0.30	0.52	0.72	35
SB60 CLEAR/GRAY	0.46	0.29	0.36	0.50	35
SB60 CLEAR/BRONZE	0.46	0.29	0.39	0.55	35
SB60 CLEAR/GREEN	0.46	0.29	0.48	0.67	35
SB60 GRAY/CLEAR	0.46	0.23	0.35	0.49	35
SB70XL CLEAR/CLEAR	0.46	0.21	0.46	0.64	35
SB70XL CLEAR/GRAY	0.46	0.20	0.32	0.44	35
SB70XL CLEAR/BRONZE	0.46	0.20	0.35	0.48	35
SB70XL CLEAR/GREEN	0.46	0.21	0.43	0.59	35
ENERGY ADVT/CLEAR	0.49	0.51	0.55	0.76	35
ENERGY ADVT/GRAY	0.49	0.49	0.38	0.53	35
ENERGY ADVT/BRONZE	0.49	0.50	0.41	0.58	35
ENERGY ADVT/GREEN	0.49	0.49	0.51	0.70	35

1" INSULATED - LMI	U-F	SHGC	VT	COG VT	CR
<i>1/8" - 1/2" ARGON - 5/16" .090 PVB</i>					
CLEAR/CLEAR	0.58	0.53	0.57	0.80	35
GRAY/CLEAR	0.58	0.42	0.40	0.55	35
BRONZE/CLEAR	0.58	0.43	0.43	0.60	35
GREEN/CLEAR	0.58	0.42	0.53	0.74	35
AZURIA/CLEAR	0.58	0.34	0.49	0.68	35
SB60 CLEAR/CLEAR	0.45	0.30	0.51	0.71	36
SB60 CLEAR/GRAY	0.45	0.29	0.35	0.49	36
SB60 CLEAR/BRONZE	0.45	0.29	0.38	0.53	36
SB60 CLEAR/GREEN	0.45	0.29	0.47	0.66	36
SB60 GRAY/CLEAR	0.45	0.23	0.34	0.48	36
SB70XL CLEAR/CLEAR	0.44	0.21	0.45	0.63	36
SB70XL CLEAR/GRAY	0.44	0.20	0.31	0.43	36
SB70XL CLEAR/BRONZE	0.44	0.20	0.34	0.47	36
SB70XL CLEAR/GREEN	0.44	0.21	0.42	0.58	36
ENERGY ADVT/CLEAR	0.49	0.50	0.54	0.75	35
ENERGY ADVT/GRAY	0.49	0.48	0.37	0.51	35
ENERGY ADVT/BRONZE	0.49	0.48	0.41	0.56	35
ENERGY ADVT/GREEN	0.49	0.48	0.50	0.69	35

1" INSULATED - SMI	U-F	SHGC	VT	COG VT	CR
<i>3/16" - 1/2" ARGON - 5/16" .035 SGP</i>					
CLEAR/CLEAR	0.59	0.52	0.57	0.79	35
GREY/CLEAR	0.59	0.37	0.32	0.44	35
BRONZE/CLEAR	0.59	0.39	0.37	0.52	35
GREEN/CLEAR	0.59	0.39	0.51	0.70	35
SB60 CLEAR/CLEAR	0.46	0.29	0.51	0.70	35
SB60 CLEAR/GREY	0.46	0.29	0.35	0.48	35
SB60 CLEAR/BRONZE	0.46	0.29	0.38	0.53	35
SB60 CLEAR/GREEN	0.46	0.29	0.47	0.65	35
SB60 GRAY/CLEAR	0.46	0.20	0.29	0.40	35
SB70XL CLEAR/CLEAR	0.44	0.21	0.45	0.62	36
SB70XL CLEAR/GRAY	0.44	0.20	0.31	0.43	36
SB70XL CLEAR/BRONZE	0.44	0.20	0.34	0.47	36
SB70XL CLEAR/GREEN	0.44	0.21	0.41	0.58	36
ENERGY ADVT/GRAY	0.49	0.45	0.36	0.50	35
ENERGY ADVT/BRONZE	0.49	0.45	0.40	0.55	35
ENERGY ADVT/GREEN	0.49	0.45	0.49	0.68	35

1" INSULATED - LMI	U-F	SHGC	VT	COG VT	CR
<i>3/16" - 3/8" ARGON - 7/16" .090 SGP</i>					
CLEAR/CLEAR	0.59	0.51	0.56	0.78	34
GRAY/CLEAR	0.59	0.36	0.31	0.44	34
BRONZE/CLEAR	0.59	0.38	0.37	0.51	34
GREEN/CLEAR	0.59	0.38	0.50	0.69	34
AZURIA/CLEAR	0.59	0.31	0.45	0.63	34
SB60 CLEAR/CLEAR	0.45	0.29	0.50	0.69	36
SB60 CLEAR/GRAY	0.45	0.28	0.28	0.38	36
SB60 CLEAR/BRONZE	0.45	0.28	0.32	0.45	36
SB60 CLEAR/GREEN	0.45	0.29	0.44	0.62	36
SB60 GRAY/CLEAR	0.45	0.20	0.28	0.39	36
SB70XL CLEAR/CLEAR	0.44	0.21	0.44	0.61	36
SB70XL CLEAR/GRAY	0.44	0.20	0.25	0.34	36
SB70XL CLEAR/BRONZE	0.44	0.20	0.29	0.40	36
SB70XL CLEAR/GREEN	0.44	0.21	0.39	0.55	36
ENERGY ADVT/CLEAR	0.49	0.46	0.52	0.72	35
ENERGY ADVT/GRAY	0.49	0.44	0.29	0.40	35
ENERGY ADVT/BRONZE	0.49	0.44	0.34	0.47	35
ENERGY ADVT/GREEN	0.49	0.44	0.46	0.64	35

ASTM - E283 Air Infiltration; 6.2 psf (49 mph)
 Allowed 0.3 cfm-sq. ft.
 Measured 0.13 cfm-sq. ft.

ASTM -E547 Water Resistance; 5.0 gph-sqr. Ft.
 No Leakage

Turtle Glass Compliant=

9470 Series

Horizontal Roller Window
 [Thermally Broken Aluminum]

1" INSULATED NON-IMPACT	U-F	SHGC	VT	COG VT	CR
<i>1/8" - 3/4" ARGON - 1/8"</i>					
CLEAR/CLEAR	0.61	0.55	0.57	0.81	33
GRAY/CLEAR	0.61	0.44	0.40	0.56	33
BRONZE/CLEAR	0.61	0.45	0.43	0.61	33
SB60 CLEAR/CLEAR	0.47	0.29	0.51	0.72	35
SB60 CLEAR/GRAY	0.47	0.29	0.35	0.50	35
SB60 CLEAR/BRONZE	0.47	0.29	0.39	0.55	35
SB60 CLEAR/GREEN	0.47	0.29	0.47	0.67	35
SB60 GRAY/CLEAR	0.47	0.22	0.34	0.49	35
SB70XL CLEAR/CLEAR	0.47	0.21	0.45	0.64	35
SB70XL CLEAR/GRAY	0.47	0.20	0.31	0.44	35
SB70XL CLEAR/BRONZE	0.47	0.20	0.34	0.48	35
SB70XL CLEAR/GREEN	0.47	0.20	0.42	0.59	35
ENERGY ADVT/CLEAR	0.50	0.50	0.54	0.76	35
ENERGY ADVT/GRAY	0.50	0.48	0.37	0.53	35
ENERGY ADVT/BRONZE	0.50	0.49	0.41	0.58	35
ENERGY ADVT/GREEN	0.50	0.48	0.50	0.70	35

1" INSULATED - SMI	U-F	SHGC	VT	COG VT	CR
<i>3/16" - 1/2" ARGON - 5/16" .035 SGP</i>					
CLEAR/CLEAR	0.60	0.51	0.56	0.79	34
GREY/CLEAR	0.60	0.36	0.31	0.44	34
BRONZE/CLEAR	0.60	0.38	0.36	0.52	34
GREEN/CLEAR	0.60	0.38	0.50	0.70	34
OPTIBLUE/CLEAR	0.60	0.45	0.43	0.60	34
SB60 CLEAR/CLEAR	0.47	0.29	0.50	0.70	34
SB60 CLEAR/GREY	0.47	0.28	0.34	0.48	34
SB60 CLEAR/BRONZE	0.47	0.28	0.37	0.53	34
SB60 CLEAR/GREEN	0.47	0.28	0.46	0.65	34
SB60 GRAY/CLEAR	0.47	0.20	0.28	0.40	34
SB70XL CLEAR/CLEAR	0.46	0.21	0.44	0.62	36
SB70XL CLEAR/GRAY	0.46	0.20	0.30	0.43	36
SB70XL CLEAR/BRONZE	0.46	0.20	0.33	0.47	36
SB70XL CLEAR/GREEN	0.46	0.20	0.41	0.58	36
ENERGY ADVT/CLEAR	0.46	0.21	0.45	0.62	36
ENERGY ADVT/GRAY	0.50	0.44	0.36	0.50	34
ENERGY ADVT/BRONZE	0.50	0.44	0.39	0.55	34
ENERGY ADVT/GREEN	0.50	0.44	0.48	0.68	34

1" INSULATED - LMI	U-F	SHGC	VT	COG VT	CR
<i>1/8" - 1/2" ARGON - 5/16" .090 PVB</i>					
CLEAR/CLEAR	0.59	0.52	0.56	0.80	34
GRAY/CLEAR	0.59	0.41	0.39	0.55	34
BRONZE/CLEAR	0.59	0.43	0.43	0.60	34
GREEN/CLEAR	0.59	0.42	0.52	0.74	34
AZURIA/CLEAR	0.59	0.34	0.48	0.68	34
SB60 CLEAR/CLEAR	0.46	0.29	0.50	0.71	35
SB60 CLEAR/GRAY	0.46	0.29	0.35	0.49	35
SB60 CLEAR/BRONZE	0.46	0.29	0.38	0.53	35
SB60 CLEAR/GREEN	0.46	0.29	0.46	0.66	35
SB60 GRAY/CLEAR	0.46	0.22	0.34	0.48	35
SB70XL CLEAR/CLEAR	0.46	0.20	0.44	0.63	36
SB70XL CLEAR/GRAY	0.46	0.20	0.31	0.43	36
SB70XL CLEAR/BRONZE	0.46	0.20	0.33	0.47	36
SB70XL CLEAR/GREEN	0.46	0.20	0.41	0.58	36
ENERGY ADVT/CLEAR	0.50	0.49	0.53	0.75	34
ENERGY ADVT/GRAY	0.50	0.47	0.36	0.51	34
ENERGY ADVT/BRONZE	0.50	0.48	0.40	0.56	34
ENERGY ADVT/GREEN	0.50	0.47	0.49	0.69	34

1" INSULATED - LMI	U-F	SHGC	VT	COG VT	CR
<i>3/16" - 3/8" ARGON - 7/16" .090 SGP</i>					
CLEAR/CLEAR	0.59	0.50	0.54	0.77	34
GREY/CLEAR	0.59	0.35	0.31	0.43	34
BRONZE/CLEAR	0.59	0.37	0.36	0.50	34
GREEN/CLEAR	0.59	0.37	0.49	0.69	34
AZURIA/CLEAR	0.59	0.30	0.44	0.62	34
SB60 CLEAR/CLEAR	0.46	0.29	0.48	0.69	35
SB60 CLEAR/GRAY	0.46	0.28	0.27	0.38	35
SB60 CLEAR/BRONZE	0.46	0.28	0.31	0.45	35
SB60 CLEAR/GREEN	0.46	0.28	0.43	0.61	35
SB60 GRAY/CLEAR	0.46	0.20	0.27	0.39	35
SB70XL CLEAR/CLEAR	0.46	0.21	0.43	0.61	36
SB70XL CLEAR/GRAY	0.46	0.20	0.24	0.34	36
SB70XL CLEAR/BRONZE	0.46	0.20	0.28	0.39	36
SB70XL CLEAR/GREEN	0.46	0.20	0.38	0.54	36
ENERGY ADVT/CLEAR	0.49	0.45	0.51	0.72	35
ENERGY ADVT/GRAY	0.49	0.43	0.28	0.40	35
ENERGY ADVT/BRONZE	0.49	0.43	0.33	0.46	35
ENERGY ADVT/GREEN	0.49	0.43	0.45	0.64	35

ASTM - E283 Air Infiltration; 6.2 psf (49 mph)

Allowed 0.3 cfm-sq. ft.

Measured 0.017 cfm-sq. ft.

ASTM -E547 Water Resistance; 5.0 gph-sq. ft.

No Leakage

Turtle Glass Compliant=

9050 Series

Terrace Door [Thermally Broken Aluminum]

9/16" LAMINATED .060 SGP - LMI	U-F	SHGC	VT	COG VT	CR
CLEAR/CLEAR	0.80	0.40	0.46	0.85	17
GRAY/CLEAR	0.80	0.31	0.23	0.43	17
BRONZE/CLEAR	0.80	0.32	0.28	0.51	17
GREEN/CLEAR	0.80	0.32	0.40	0.74	17
SOLARCOOL BRONZE/ CLEAR	0.80	0.21	0.11	0.20	17
SB60 CLEAR/CLEAR	0.80	0.26	0.39	0.71	17
SB60 CLEAR/GRAY	0.80	0.21	0.19	0.36	17
SB60 CLEAR/BRONZE	0.80	0.22	0.23	0.43	17
SB60 CLEAR/GREEN	0.80	0.23	0.34	0.62	17
SB70XL STARPHIRE/ CLEAR	0.80	0.19	0.32	0.59	17
SB70XL STARPHIRE/ GRAY	0.80	0.15	0.16	0.30	17
SB70XL STARPHIRE/ BRONZE	0.80	0.15	0.19	0.36	17
SB70XL STARPHIRE/ GREEN	0.80	0.17	0.28	0.52	17
Z50/CLEAR	0.80	0.24	0.28	0.51	17
Z50/OPTIBLUE	0.80	0.23	0.20	0.37	17

1/4" NON-IMPACT	U-F	SHGC	VT	COG VT	CR
CLEAR	0.86	0.46	0.48	0.89	13
GRAY	0.86	0.34	0.25	0.45	13
BRONZE	0.86	0.36	0.29	0.54	13
AZURIA	0.86	0.30	0.37	0.68	13
OPTIBLUE	0.86	0.41	0.35	0.64	13
SOLARCOOL GRAY	0.86	0.22	0.09	0.17	13
SOLARCOOL BRONZE	0.86	0.23	0.11	0.21	13

1-1/4" INSULATED NON-IMPACT	U-F	SHGC	VT	COG VT	CR
<i>3/16" - 7/8" ARGON - 3/16"</i>					
CLEAR/CLEAR	0.54	0.41	0.44	0.80	39
GRAY/CLEAR	0.54	0.29	0.25	0.45	39
BRONZE/CLEAR	0.54	0.31	0.28	0.52	39
SOLARCOOL GRAY/ CLEAR	0.54	0.18	0.09	0.17	39
SOLARCOOL BRONZE/ CLEAR	0.54	0.20	0.11	0.20	39
SB60 CLEAR/CLEAR	0.43	0.22	0.39	0.71	41
SB60 CLEAR/GRAY	0.43	0.22	0.22	0.40	41
SB60 CLEAR/BRONZE	0.43	0.22	0.25	0.46	41
SB60 CLEAR/GREEN	0.43	0.22	0.35	0.63	41
SB60 GRAY/CLEAR	0.43	0.15	0.22	0.40	41
SB70XL CLEAR/CLEAR	0.44	0.16	0.34	0.63	40
SB70XL CLEAR/GRAY	0.44	0.16	0.19	0.36	40
SB70XL CLEAR/BRONZE	0.44	0.16	0.22	0.41	40
SB70XL CLEAR/GREEN	0.44	0.16	0.31	0.56	40
ENERGY ADVT/CLEAR	0.46	0.36	0.40	0.74	40
ENERGY ADVT/GRAY	0.46	0.35	0.23	0.42	40
ENERGY ADVT/BRONZE	0.46	0.35	0.26	0.49	40

1-1/4" INSULATED - LMI	U-F	SHGC	VT	COG VT	CR
<i>3/16" - 7/8" ARGON - 7/16" .060 SGP</i>					
CLEAR/CLEAR	0.54	0.40	0.42	0.77	39
GRAY/CLEAR	0.54	0.27	0.24	0.43	39
BRONZE/CLEAR	0.54	0.29	0.27	0.50	39
SOLARCOOL GRAY/ CLEAR	0.54	0.17	0.09	0.17	39
SOLARCOOL BRONZE/ CLEAR	0.54	0.18	0.11	0.20	39
SB60 CLEAR/CLEAR	0.44	0.22	0.37	0.68	40
SB60 CLEAR/GRAY	0.44	0.21	0.21	0.38	40
SB60 CLEAR/BRONZE	0.44	0.21	0.24	0.44	40
SB60 CLEAR/GREEN	0.44	0.22	0.33	0.61	40
SB60 GRAY/CLEAR	0.44	0.15	0.21	0.39	40
SB70XL CLEAR/CLEAR	0.43	0.16	0.33	0.61	41
SB70XL CLEAR/GRAY	0.43	0.16	0.18	0.34	41
SB70XL CLEAR/BRONZE	0.43	0.16	0.21	0.39	41
SB70XL CLEAR/GREEN	0.43	0.16	0.29	0.54	41
ENERGY ADVT/CLEAR	0.46	0.35	0.39	0.71	39
ENERGY ADVT/GRAY	0.46	0.34	0.22	0.40	39
ENERGY ADVT/BRONZE	0.46	0.34	0.25	0.46	39
ENERGY ADVT/GREEN	0.46	0.34	0.35	0.64	39

V-100 Series

Tilt & Turn Window Vinyl

ASTM - E283 Air Infiltration; 6.2 psf (49 mph)
 Allowed 0.3 cfm-sq. ft.
 Measured 0.003 cfm-sq. ft.

ASTM -E547 Water Resistance; 5.0 gph-sq. ft.
 No Leakage

Turtle Glass Compliant=

1" INSULATED - SMI	U-F	SHGC	VT	COG VT	CR
<i>3/16" - 1/2" ARGON - 5/16" .035 SGP</i>					
CLEAR/CLEAR	0.40	0.47	0.50	0.79	48
GREY/CLEAR	0.40	0.30	0.19	0.31	48
BRONZE/CLEAR	0.40	0.34	0.33	0.52	48
GREEN/CLEAR	0.40	0.34	0.45	0.70	48
AZURIA/CLEAR	0.40	0.27	0.40	0.64	48
SOLARCOOL GRAY/CLEAR	0.40	0.19	0.11	0.17	48
SOALRCOOL BRONZE/CLEAR	0.40	0.21	0.13	0.20	48
SB60 CLEAR/CLEAR	0.27	0.25	0.45	0.70	63
SB60 CLEAR/GRAY*	0.27	0.24	0.21	0.33	63
SB60 CLEAR/BRONZE*	0.27	0.24	0.25	0.40	63
SB60 CLEAR/GREEN*	0.27	0.24	0.38	0.60	63
SB60 GRAY/CLEAR	0.27	0.17	0.25	0.40	63
SB70XL CLEAR/CLEAR	0.27	0.18	0.40	0.64	63
SB70XL CLEAR/GRAY*	0.27	0.17	0.19	0.30	63
SB70XL CLEAR/BRONZE*	0.27	0.17	0.23	0.36	63
SB70XL CLEAR/GREEN*	0.27	0.18	0.35	0.54	63
ENERGY ADVT/CLEAR	0.30	0.40	0.47	0.73	60
ENERGY ADVT/GRAY*	0.30	0.38	0.22	0.35	60
ENERGY ADVT/BRONZE*	0.30	0.38	0.26	0.42	60
ENERGY ADVT/GREEN*	0.30	0.38	0.40	0.62	60

1" INSULATED - LMI	U-F	SHGC	VT	COG VT	CR
<i>3/16" - 1/2" ARGON - 5/16" .090 SGP</i>					
CLEAR/CLEAR	0.40	0.47	0.49	0.77	49
GRAY/CLEAR	0.40	0.30	0.19	0.30	49
BRONZE/CLEAR	0.40	0.34	0.32	0.50	49
GREEN/CLEAR	0.40	0.33	0.44	0.69	49
AZURIA/CLEAR	0.40	0.27	0.39	0.62	49
SOLARCOOL GRAY/CLEAR	0.40	0.19	0.11	0.17	49
SOALRCOOL BRONZE/CLEAR	0.40	0.21	0.13	0.20	49
SB60 CLEAR/CLEAR	0.27	0.25	0.44	0.69	63
SB60 CLEAR/GRAY*	0.27	0.24	0.21	0.33	63
SB60 CLEAR/BRONZE*	0.27	0.24	0.25	0.39	63
SB60 CLEAR/GREEN*	0.27	0.24	0.38	0.59	63
SB60 GRAY/CLEAR	0.27	0.17	0.25	0.39	63
SB70XL CLEAR/CLEAR	0.27	0.18	0.40	0.62	63
SB70XL CLEAR/GRAY*	0.27	0.17	0.19	0.30	63
SB70XL CLEAR/BRONZE*	0.27	0.17	0.23	0.36	63
SB70XL CLEAR/GREEN*	0.27	0.18	0.34	0.54	63
ENERGY ADVT/CLEAR	0.30	0.40	0.46	0.72	60
ENERGY ADVT/GRAY*	0.30	0.38	0.22	0.34	60
ENERGY ADVT/BRONZE*	0.30	0.38	0.26	0.41	60
ENERGY ADVT/GREEN*	0.30	0.38	0.39	0.62	60

* Dual Tint on Lami

1" INSULATED NON-IMPACT	U-F	SHGC	VT	COG VT	CR
<i>3/16" - 5/8" ARGON - 3/16"</i>					
CLEAR/CLEAR	0.41	0.49	0.51	0.80	48
GRAY/CLEAR	0.41	0.33	0.29	0.45	48
BRONZE/CLEAR	0.41	0.35	0.33	0.52	48
SOLARCOOL GRAY/CLEAR	0.41	0.20	0.11	0.17	48
SOALRCOOL BRONZE/CLEAR	0.41	0.22	0.13	0.20	48
SB60 CLEAR/CLEAR	0.28	0.25	0.45	0.71	62
SB60 CLEAR/GRAY	0.28	0.24	0.26	0.40	62
SB60 CLEAR/BRONZE	0.28	0.24	0.30	0.46	62
SB60 CLEAR/GREEN	0.28	0.24	0.40	0.63	62
SB60 GRAY/CLEAR	0.28	0.17	0.26	0.40	62
SB70XL CLEAR/CLEAR	0.28	0.18	0.40	0.63	62
SB70XL CLEAR/GRAY	0.28	0.17	0.23	0.36	62
SB70XL CLEAR/BRONZE	0.28	0.17	0.26	0.41	62
SB70XL CLEAR/GREEN	0.28	0.18	0.36	0.56	62
ENERGY ADVT/CLEAR	0.31	0.41	0.47	0.75	59
ENERGY ADVT/GRAY	0.31	0.39	0.27	0.42	59
ENERGY ADVT/BRONZE	0.31	0.39	0.31	0.49	59
ENERGY ADVT/GREEN	0.31	0.39	0.42	0.66	59

ASTM - E283 Air Infiltration; 6.2 psf (49 mph)

Allowed 0.3 cfm-sq. ft.

Measured 0.13 cfm-sq. ft.

ASTM -E547 Water Resistance; 5.0 gph-sq. ft.

No Leakage

Turtle Glass Compliant=

V-800 Series

Terrace Door Vinyl

1" INSULATED NON-IMPACT	U-F	SHGC	VT	COG VT	CR
<i>3/16" - 5/8" ARGON - 3/16"</i>					
CLEAR/CLEAR	0.40	0.43	0.47	0.80	45
GRAY/CLEAR	0.40	0.30	0.26	0.45	45
BRONZE/CLEAR	0.40	0.33	0.31	0.52	45
GREEN/CLEAR	0.40	0.32	0.42	0.71	45
SOLARCOOL GRAY/CLEAR	0.40	0.18	0.10	0.17	45
SOLARCOOL BRONZE/CLEAR	0.40	0.20	0.12	0.20	45
SB60 CLEAR/CLEAR	0.29	0.24	0.42	0.71	57
SB60 CLEAR/GRAY	0.29	0.23	0.24	0.40	57
SB60 CLEAR/BRONZE	0.29	0.23	0.27	0.47	57
SB60 CLEAR/GREEN	0.29	0.23	0.37	0.64	57
SB60 GRAY/CLEAR	0.29	0.16	0.24	0.40	57
SB70XL CLEAR/CLEAR	0.28	0.17	0.37	0.63	57
SB70XL CLEAR/GRAY	0.28	0.16	0.21	0.36	57
SB70XL CLEAR/BRONZE	0.28	0.16	0.24	0.41	57
SB70XL CLEAR/GREEN	0.28	0.16	0.33	0.56	57
ENERGY ADVT/CLEAR	0.31	0.38	0.43	0.74	54
ENERGY ADVT/GRAY	0.31	0.36	0.25	0.42	54
ENERGY ADVT/BRONZE	0.31	0.37	0.28	0.49	54
ENERGY ADVT/GREEN	0.31	0.36	0.39	0.66	54

1" INSULATED - SMI	U-F	SHGC	VT	COG VT	CR
<i>3/16" - 1/2" ARGON - 5/16" .035 SGP</i>					
CLEAR/CLEAR	0.38	0.41	0.46	0.78	47
GREY/CLEAR	0.38	0.29	0.26	0.44	47
BRONZE/CLEAR	0.38	0.32	0.30	0.51	47
GREEN/CLEAR	0.38	0.31	0.41	0.70	47
SOLARCOOL GRAY/CLEAR	0.38	0.18	0.10	0.17	47
SOLARCOOL BRONZE/CLEAR	0.38	0.19	0.12	0.20	47
SB60 CLEAR/CLEAR	0.28	0.24	0.41	0.70	59
SB60 CLEAR/GRAY	0.28	0.22	0.18	0.31	59
SB60 CLEAR/BRONZE	0.28	0.23	0.23	0.39	59
SB60 CLEAR/GREEN	0.28	0.23	0.35	0.59	59
SB60 GRAY/CLEAR	0.28	0.16	0.23	0.39	59
SB70XL CLEAR/CLEAR	0.27	0.17	0.36	0.62	59
SB70XL CLEAR/GRAY	0.27	0.16	0.16	0.28	59
SB70XL CLEAR/BRONZE	0.27	0.16	0.20	0.34	59
SB70XL CLEAR/GREEN	0.27	0.16	0.31	0.53	59
ENERGY ADVT/CLEAR	0.30	0.37	0.42	0.73	56
ENERGY ADVT/GRAY	0.30	0.35	0.19	0.33	56
ENERGY ADVT/BRONZE	0.30	0.35	0.23	0.40	56
ENERGY ADVT/GREEN	0.30	0.35	0.36	0.62	56

ASTM - E283 Air Infiltration; 1.6 psf (25 mph)
Allowed 0.3 cfm-sq. ft.
Measured 0.004 cfm-sq. ft.

ASTM -E547 Water Resistance; 5.0 gph-sq. ft.
No Leakage

Turtle Glass Compliant=

6000 Series

Sliding Glass Door Aluminum

3/4" INSULATED NON-IMPACT	U-F	SHGC	VT	COG VT	CR
<i>3/16" - 3/8" ARGON - 3/16"</i>					
CLEAR/CLEAR	0.70	0.58	0.62	0.80	18
GRAY/CLEAR	0.70	0.41	0.35	0.45	18
BRONZE/CLEAR	0.70	0.44	0.41	0.52	18
AZURIA/CLEAR	0.70	0.35	0.50	0.64	18
SOLARCOOL GRAY/CLEAR	0.70	0.25	0.14	0.17	18
SOLARCOOL BRONZE/ CLEAR	0.70	0.28	0.16	0.20	18
ENERGY ADVT/CLEAR	0.59	0.51	0.58	0.74	19
ENERGY ADVT/GRAY	0.59	0.48	0.32	0.42	19
ENERGY ADVT/BRONZE	0.59	0.48	0.38	0.49	19
SB60 CLEAR/CLEAR	0.56	0.32	0.55	0.71	19
SB60 CLEAR/GRAY	0.56	0.30	0.31	0.40	19
SB60 CLEAR/BRONZE	0.56	0.30	0.36	0.46	19
SB70XL CLEAR/CLEAR	0.55	0.23	0.49	0.63	19
SB70XL CLEAR/GRAY	0.55	0.22	0.28	0.36	19
SB70XL CLEAR/BRONZE	0.55	0.22	0.32	0.41	19

1/4" NON-IMPACT	U-F	SHGC	VT	COG VT	CR
CLEAR	1.10	0.65	0.69	0.89	12
GRAY	1.10	0.48	0.35	0.45	12
BRONZE	1.10	0.50	0.42	0.54	12
AZURIA	1.10	0.42	0.53	0.68	12
GREEN	1.10	0.50	0.60	0.77	12
OPTIBLUE	1.10	0.58	0.50	0.64	12
SOLARCOOL GRAY	1.10	0.31	0.13	0.17	12
SOLARCOOL BRONZE	1.10	0.33	0.16	0.21	12

ASTM - E283 Air Infiltration; 1.6 psf (25 mph)
 Allowed 0.3 cfm-sq. ft.
 Measured 0.065 cfm-sq. ft.

ASTM - E547 Water Resistance; 5.0 gph-sq. ft.
 No Leakage

Turtle Glass Compliant=

7000 Series

Sliding Glass Door Aluminum

7/16" LAMINATED .060 SGP - LMI	U-F	SHGC	VT	COG VT	CR
CLEAR/CLEAR	1.03	0.57	0.62	0.85	15
GRAY/CLEAR	1.03	0.44	0.35	0.48	15
BRONZE/CLEAR	1.03	0.46	0.40	0.56	15
GREEN/CLEAR	1.03	0.46	0.55	0.76	15
SOLARCOOL BRONZE/CLEAR	1.03	0.35	0.16	0.22	15
SB60 CLEAR/CLEAR	1.03	0.35	0.53	0.73	15
SB60 CLEAR/GRAY	1.03	0.28	0.30	0.41	15
SB60 CLEAR/BRONZE	1.03	0.30	0.35	0.48	15
SB70XL CLEAR/CLEAR	1.03	0.28	0.43	0.59	15
SB70XL CLEAR/GRAY	1.03	0.23	0.24	0.33	15
SB70XL CLEAR/BRONZE	1.03	0.24	0.28	0.39	15
SB70XL CLEAR/GREEN	1.03	0.26	0.38	0.53	15

9/16" LAMINATED .060 SGP - LMI	U-F	SHGC	VT	COG VT	CR
CLEAR/CLEAR	1.02	0.55	0.61	0.83	15
GRAY/CLEAR	1.02	0.41	0.31	0.42	15
OPTIBLUE/CLEAR	1.02	0.49	0.44	0.60	15
SOLARCOOL GRAY/CLEAR	1.03	0.32	0.12	0.16	15
SOLARCOOL BRONZE/CLEAR	1.03	0.34	0.14	0.19	15
SB60 CLEAR/CLEAR	1.02	0.35	0.52	0.72	15
SB60 CLEAR/GRAY	1.02	0.28	0.26	0.36	15
SB60 CLEAR/BRONZE	1.02	0.29	0.31	0.43	15
SB70XL/CLEAR	1.02	0.25	0.44	0.60	15
SB70XL/GRAY	1.02	0.20	0.22	0.30	15
SB70XL/BRONZE	1.02	0.21	0.26	0.36	15
SB70XL/GREEN	1.02	0.23	0.38	0.52	15
Z50/CLEAR	1.02	0.33	0.38	0.52	15
Z50/OPTIBLUE	1.02	0.30	0.27	0.37	15

3/4" INSULATED - LMI	U-F	SHGC	VT	COG VT	CR
<i>3/16" - 1/4" ARGON - 7/16" .060 SGP</i>					
CLEAR/CLEAR	0.71	0.55	0.57	0.78	17
GRAY/CLEAR	0.71	0.38	0.32	0.44	17
BRONZE/CLEAR	0.71	0.40	0.37	0.51	17
SOLARCOOL GRAY/CLEAR	0.71	0.26	0.13	0.17	17
SOLARCOOL BRONZE/CLEAR	0.71	0.28	0.15	0.20	17
SB60 CLEAR/CLEAR	0.60	0.31	0.51	0.69	17
SB60 CLEAR/GREY	0.60	0.30	0.35	0.39	17
SB60 CLEAR/BRONZE	0.60	0.30	0.38	0.45	17
SB70XL CLEAR/CLEAR	0.60	0.23	0.45	0.62	17
SB70XL CLEAR/GRAY	0.60	0.22	0.31	0.34	17
SB70XL CLEAR/BRONZE	0.60	0.22	0.34	0.40	17
SB70XL CLEAR/GREEN	0.60	0.22	0.41	0.54	17
Z50/CLEAR	0.60	0.26	0.36	0.50	17

3/16" NON-IMPACT	U-F	SHGC	VT	COG VT	CR
CLEAR	1.07	0.65	0.65	0.89	12
GRAY	1.07	0.48	0.37	0.50	12
BRONZE	1.07	0.50	0.42	0.58	12
GREEN	1.07	0.49	0.58	0.79	12
SOLARCOOL GRAY	1.07	0.36	0.14	0.19	12
SOLARCOOL BRONZE	1.07	0.37	0.16	0.23	12

1/4" NON-IMPACT	U-F	SHGC	VT	COG VT	CR
CLEAR	1.07	0.63	0.64	0.88	12
GRAY	1.07	0.46	0.33	0.45	12
BRONZE	1.07	0.48	0.39	0.54	12
OPTIBLUE	1.07	0.55	0.47	0.64	12
SOLARCOOL GRAY	1.07	0.34	0.12	0.17	12
SOLARCOOL BRONZE	1.07	0.36	0.15	0.21	12

3/4" INSULATED NON-IMPACT	U-F	SHGC	VT	COG VT	CR
<i>3/16" - 3/8" ARGON - 3/16"</i>					
CLEAR/CLEAR	0.70	0.57	0.59	0.80	17
GRAY/CLEAR	0.70	0.40	0.33	0.45	17
BRONZE/CLEAR	0.70	0.42	0.38	0.52	17
GREEN/CLEAR	0.70	0.41	0.52	0.72	17
SOLARCOOL GRAY/CLEAR	0.70	0.27	0.13	0.18	17
SOLARCOOL BRONZE/CLEAR	0.70	0.29	0.15	0.21	17
ENERGY ADVT/CLEAR	0.59	0.49	0.54	0.75	17
ENERGY ADVT/GRAY	0.59	0.46	0.30	0.42	17
ENERGY ADVT/BRONZE	0.59	0.46	0.35	0.49	17
SB60 CLEAR/CLEAR	0.56	0.31	0.52	0.71	17
SB60 CLEAR/GRAY	0.56	0.30	0.29	0.40	17
SB60 CLEAR/BRONZE	0.56	0.30	0.34	0.47	17
SB60 CLEAR/GREEN	0.56	0.30	0.46	0.64	17
SB70XL CLEAR/CLEAR	0.56	0.22	0.46	0.63	17
SB70XL CLEAR/GRAY	0.56	0.21	0.26	0.36	17
SB70XL CLEAR/BRONZE	0.56	0.22	0.30	0.41	17

GLASS PERFORMANCE CHART

ALUMINUM SLIDING GLASS DOORS

8100 Series

Sliding Glass Door Aluminum

ASTM - E283 Air Infiltration; 6.24 psf (49 mph)
Allowed 0.3 cfm-sq. ft.
Measured 0.04 cfm-sq. ft.

ASTM -E547 Water Resistance; 5.0 gph-sqr. Ft.
No Leakage

Turtle Glass Compliant=

1/4" NON-IMPACT	U-F	SHGC	VT	COG VT	CR
CLEAR	1.11	0.60	0.61	0.88	13
GRAY	1.11	0.43	0.31	0.45	13
BRONZE	1.11	0.45	0.37	0.54	13
OPTIBLUE	1.11	0.52	0.44	0.64	13
GREEN	1.11	0.45	0.54	0.77	13
SOLARCOOL GRAY	1.11	0.32	0.12	0.17	13
SOLARCOOL BRONZE	1.11	0.34	0.14	0.21	13

1" INSULATED NON-IMPACT	U-F	SHGC	VT	COG VT	CR
1/4" - 1/2" ARGON - 1/4"					
CLEAR/CLEAR	0.75	0.53	0.54	0.78	15
GRAY/CLEAR	0.75	0.35	0.28	0.40	15
BRONZE/CLEAR	0.75	0.37	0.33	0.48	15
OPTIBLUE/CLEAR	0.75	0.44	0.39	0.48	15
SOLARCOOL GRAY/CLEAR	0.75	0.24	0.11	0.15	15
SOLARCOOL BRONZE/CLEAR	0.75	0.26	0.13	0.19	15
ENERGY ADVT/CLEAR	0.66	0.45	0.51	0.73	15
ENERGY ADVT/GRAY	0.66	0.42	0.26	0.37	15
ENERGY ADVT/BRONZE	0.66	0.43	0.31	0.44	15
SB60 CLEAR/CLEAR	0.63	0.28	0.49	0.70	16
SB60 CLEAR/GRAY	0.63	0.27	0.25	0.35	16
SB60 CLEAR/BRONZE	0.63	0.27	0.30	0.43	16
SB70XL CLEAR/CLEAR	0.62	0.21	0.44	0.64	16
SB70XL CLEAR/GRAY	0.62	0.20	0.23	0.33	16
SB70XL CLEAR/BRONZE	0.62	0.20	0.27	0.39	16
Z50/CLEAR	0.63	0.23	0.35	0.50	16
Z50/OPTIBLUE	0.63	0.23	0.25	0.37	16

9/16" LAMINATED .035 SGP - SMI	U-F	SHGC	VT	COG VT	CR
CLEAR/CLEAR	1.08	0.52	0.59	0.86	14
GRAY/CLEAR	1.08	0.39	0.30	0.43	14
BRONZE/CLEAR	1.08	0.41	0.36	0.52	14
GREEN/CLEAR	1.08	0.42	0.51	0.75	14
OPTIBLUE/CLEAR	1.08	0.47	0.43	0.62	14
SOLARCOOL GRAY/CLEAR	1.08	0.39	0.30	0.43	14
SOLARCOOL BRONZE/CLEAR	1.09	0.32	0.14	0.20	14
SB60 CLEAR/CLEAR	1.08	0.33	0.50	0.72	14
SB60 CLEAR/GRAY	1.08	0.26	0.25	0.36	14
SB60 CLEAR/BRONZE	1.08	0.27	0.30	0.43	14
SB60 CLEAR/GREEN	1.08	0.30	0.43	0.63	14
SB60 GRAY/CLEAR	1.08	0.30	0.25	0.36	14
SB70XL STARPHIRE/CLEAR	1.08	0.24	0.42	0.60	14
SB70XL STARPHIRE/GRAY	1.08	0.19	0.21	0.30	14
SB70XL STARPHIRE/BRONZE	1.08	0.19	0.25	0.36	14
SB70XL STARPHIRE/GREEN	1.08	0.22	0.36	0.52	14

9/16" LAMINATED .090 SGP - LMI	U-F	SHGC	VT	COG VT	CR
CLEAR/CLEAR	1.06	0.51	0.59	0.85	14
GRAY/CLEAR	1.06	0.39	0.30	0.43	14
BRONZE/CLEAR	1.06	0.41	0.35	0.51	14
GREEN/CLEAR	1.06	0.41	0.51	0.74	14
OPTIBLUE/CLEAR	1.06	0.46	0.42	0.61	14
SOLARCOOL GRAY/CLEAR	1.06	0.31	0.11	0.16	14
SOLARCOOL BRONZE/CLEAR	1.06	0.32	0.14	0.20	14
SB60 CLEAR/CLEAR	1.05	0.33	0.49	0.71	14
SB60 GRAY/CLEAR	1.05	0.30	0.25	0.36	14
SB70XL STARPHIRE/CLEAR	1.05	0.24	0.41	0.59	14
SB70XL STARPHIRE/GRAY	1.05	0.19	0.24	0.35	15
SB70XL STARPHIRE/BRONZE	1.05	0.20	0.29	0.41	15
SB70XL STARPHIRE/GREEN	1.05	0.22	0.36	0.52	14

1" INSULATED - LMI	U-F	SHGC	VT	COG VT	CR
3/16" - 3/8" ARGON - 7/16" .090 SGP					
CLEAR/CLEAR	0.75	0.51	0.53	0.77	15
GRAY/CLEAR	0.75	0.35	0.30	0.43	15
BRONZE /CLEAR	0.75	0.37	0.35	0.50	15
SOLARCOOL GRAY /CLEAR	0.75	0.24	0.12	0.17	15
SOLARCOOL BRONZE /CLEAR	0.75	0.25	0.14	0.20	15
AZURIA /CLEAR	0.75	0.30	0.43	0.62	15
SB60 CLEAR /CLEAR	0.63	0.28	0.47	0.68	16
SB60 CLEAR/GRAY	0.63	0.27	0.27	0.38	16
SB60 CLEAR/BRONZE	0.63	0.27	0.31	0.44	16
SB60 GRAY /CLEAR	0.63	0.20	0.27	0.39	16
SB70XL CLEAR /CLEAR	0.63	0.21	0.42	0.61	16
SB70XL CLEAR/GRAY	0.63	0.20	0.24	0.34	16
SB70XL CLEAR/BRONZE	0.63	0.20	0.27	0.39	16
SB70XL CLEAR/GREEN	0.63	0.20	0.38	0.54	16

WINDOOR®

GLASS PERFORMANCE CHART

ALUMINUM WINDOWS

3000 Series

Fixed Aluminum Window

ASTM - E283 Air Infiltration; 6.2 psf (49 mph)
Allowed 0.3 cfm-sq. ft.
Measured 0.008 cfm-sq. ft.

ASTM -E547 Water Resistance; 5.0 gph-sq. ft.
No Leakage

Turtle Glass Compliant=

3/16" NON-IMPACT	U-F	SHGC	VT	COG VT	CR
CLEAR	1.12	0.73	0.76	0.90	12
GRAY	1.12	0.55	0.43	0.50	12
BRONZE	1.12	0.57	0.49	0.58	12
GREEN	1.12	0.57	0.67	0.79	12
SOLARCOOL GRAY	1.12	0.35	0.16	0.19	12
SOLARCOOL BRONZE	1.12	0.38	0.19	0.23	12

1/4" NON-IMPACT	U-F	SHGC	VT	COG VT	CR
CLEAR	1.12	0.72	0.75	0.89	12
GRAY	1.12	0.52	0.38	0.45	12
BRONZE	1.12	0.55	0.46	0.54	12
GREEN	1.12	0.54	0.65	0.77	12
OPTIBLUE	1.12	0.63	0.54	0.64	12
SOLARCOOL GRAY	1.12	0.33	0.14	0.17	12
SOLARCOOL BRONZE	1.12	0.36	0.17	0.21	12

7/8" INSULATED NON-IMPACT	U-F	SHGC	VT	COG VT	CR
3/16" - 1/2" ARGON - 3/16"					
CLEAR/CLEAR	0.66	0.65	0.68	0.81	22
GRAY/CLEAR	0.66	0.45	0.38	0.45	22
BRONZE/CLEAR	0.66	0.48	0.44	0.53	22
GREEN/CLEAR	0.66	0.47	0.61	0.72	22
SOLARCOOL GRAY/CLEAR	0.66	0.27	0.15	0.18	22
SOLARCOOL BRONZE/CLEAR	0.66	0.30	0.17	0.21	22
ENERGY ADVT/CLEAR	0.53	0.55	0.63	0.75	23
ENERGY ADVT/GRAY	0.53	0.53	0.35	0.42	23
ENERGY ADVT/BRONZE	0.53	0.53	0.41	0.49	23
SB60 CLEAR/CLEAR	0.50	0.35	0.61	0.72	23
SB60 CLEAR/GRAY	0.50	0.34	0.34	0.40	23
SB60 CLEAR/BRONZE	0.50	0.34	0.39	0.47	23
SB60 CLEAR/GREEN	0.50	0.34	0.54	0.64	23
SB60 GRAY/CLEAR	0.50	0.24	0.34	0.41	23
SB70XL CLEAR/CLEAR	0.49	0.25	0.54	0.64	23
SB70XL CLEAR/GRAY	0.49	0.24	0.30	0.36	23
SB70XL CLEAR/BRONZE	0.49	0.24	0.35	0.41	23

7/16" LAMINATED .090 SGP - LMI	U-F	SHGC	VT	COG VT	CR
CLEAR/CLEAR	1.05	0.64	0.73	0.86	16
GRAY/CLEAR	1.05	0.50	0.41	0.48	16
BRONZE/CLEAR	1.05	0.52	0.47	0.56	16
SOLARCOOL GRAY/CLEAR	1.05	0.32	0.16	0.19	16
SOLARCOOL BRONZE/CLEAR	1.05	0.34	0.18	0.22	16
SB60 CLEAR/CLEAR	1.04	0.46	0.62	0.73	16
SB60 GRAY/CLEAR	1.04	0.37	0.35	0.41	16
SB70XL CLEAR/CLEAR	1.04	0.31	0.50	0.59	16
SB70XL CLEAR/GRAY	1.04	0.30	0.28	0.33	16
SB70XL CLEAR/BRONZE	1.04	0.27	0.32	0.38	16
SB70XL CLEAR/GREEN	1.04	0.30	0.44	0.52	16

9/16" LAMINATED .090 SGP - LMI	U-F	SHGC	VT	COG VT	CR
CLEAR/CLEAR	1.05	0.62	0.71	0.84	16
GRAY/CLEAR	1.05	0.47	0.36	0.43	16
BRONZE/CLEAR	1.05	0.49	0.43	0.51	16
GREEN/CLEAR	1.05	0.50	0.63	0.74	16
OPTIBLUE/CLEAR	1.04	0.56	0.53	0.62	16
SOLARCOOL GRAY/CLEAR	1.05	0.30	0.14	0.16	16
SOLARCOOL BRONZE/CLEAR	1.05	0.32	0.17	0.20	16
SB60 CLEAR/CLEAR	1.04	0.40	0.61	0.72	16
SB60 CLEAR/GRAY	1.04	0.32	0.31	0.36	16
SB60 CLEAR/BRONZE	1.04	0.33	0.36	0.43	16
SB60 CLEAR/GREEN	1.04	0.36	0.53	0.63	16
SB60 GRAY/CLEAR	1.04	0.36	0.31	0.36	16
SB70XL STARPHIRE/CLEAR	1.04	0.28	0.50	0.59	16
SB70XL STARPHIRE/GRAY	1.04	0.22	0.25	0.30	16
SB70XL STARPHIRE/BRONZE	1.04	0.23	0.30	0.36	16
SB70XL STARPHIRE/GREEN	1.04	0.26	0.44	0.52	16
Z50/CLEAR	1.03	0.38	0.43	0.51	17
Z50/OPTIBLUE	1.03	0.35	0.31	0.37	17

7/8" INSULATED - LMI	U-F	SHGC	VT	COG VT	CR
7/16" .090 SGP - 1/4" ARGON - 3/16"					
CLEAR/CLEAR	0.67	0.55	0.66	0.78	22
GRAY/CLEAR	0.67	0.40	0.37	0.43	22
BRONZE/CLEAR	0.67	0.42	0.43	0.50	22
SOLARCOOL GRAY/CLEAR	0.67	0.24	0.14	0.17	22
SOLARCOOL BRNZ/CLEAR	0.67	0.26	0.17	0.20	22
SB60 CLEAR*/CLEAR	0.54	0.39	0.58	0.69	22
SB60 CLEAR*/GRAY	0.54	0.28	0.33	0.38	22
SB60 CLEAR*/BRONZE	0.54	0.30	0.38	0.45	22
SB60 CLEAR*/GREEN	0.54	0.33	0.52	0.61	22
SB70XL CLEAR*/CLEAR	0.54	0.32	0.51	0.61	22
SB70XL CLEAR*/GRAY	0.54	0.24	0.29	0.34	22
SB70XL CLEAR*/BRONZE	0.54	0.26	0.33	0.40	22
SB70XL CLEAR*/GREEN	0.54	0.30	0.46	0.54	22
ENERGY ADVT*/CLEAR	0.58	0.52	0.61	0.72	22
Z50*/OPTIBLUE	0.54	0.33	0.34	0.40	22

* LoE~ applied to surface 5

WINDOOR®

GLASS PERFORMANCE CHART

ALUMINUM WINDOWS

4000 Series

Single Hung Aluminum Window

ASTM - E283 Air Infiltration; 1.57 psf (25 mph)
Allowed 0.3 cfm-sq. ft.
Measured 0.015 cfm-sq. ft.

ASTM - E547 Water Resistance; 5.0 gph-sq. ft.
No Leakage

Turtle Glass Compliant=

3/16" NON-IMPACT	U-F	SHGC	VT	COG VT	CR
CLEAR	1.16	0.63	0.66	0.89	12
GRAY	1.16	0.48	0.37	0.50	12
BRONZE	1.16	0.51	0.43	0.58	12
GREEN	1.16	0.50	0.59	0.79	12
SOLARCOOL GRAY	1.16	0.31	0.14	0.19	12
SOLARCOOL BRONZE	1.16	0.33	0.17	0.23	12

1/4" NON-IMPACT	U-F	SHGC	VT	COG VT	CR
CLEAR	1.16	0.62	0.65	0.89	12
GRAY	1.16	0.45	0.33	0.44	12
BRONZE	1.16	0.49	0.39	0.53	12
GREEN	1.16	0.47	0.57	0.77	12
OPTIBLUE	1.16	0.56	0.47	0.64	12
SOLARCOOL GRAY	1.16	0.29	0.13	0.17	12
SOLARCOOL BRONZE	1.16	0.32	0.15	0.21	12

7/8" INSULATED NON-IMPACT	U-F	SHGC	VT	COG VT	CR
<i>3/16" - 1/2" ARGON - 3/16"</i>					
CLEAR/CLEAR	0.75	0.55	0.59	0.80	17
GRAY/CLEAR	0.75	0.39	0.33	0.45	17
BRONZE/CLEAR	0.75	0.43	0.39	0.52	17
GREEN/CLEAR	0.75	0.41	0.53	0.71	17
SOLARCOOL GRAY/CLEAR	0.75	0.24	0.13	0.17	17
SOLARCOOL BRONZE/CLEAR	0.75	0.26	0.15	0.20	17
ENERGY ADVANTAGE/CLEAR	0.65	0.49	0.55	0.74	17
ENERGY ADVANTAGE/GRAY	0.65	0.46	0.31	0.42	18
ENERGY ADVANTAGE/BRONZE	0.65	0.46	0.36	0.49	18
SB60 CLEAR/CLEAR	0.62	0.31	0.53	0.71	17
SB60 CLEAR/GRAY	0.62	0.30	0.30	0.40	17
SB60 CLEAR/BRONZE	0.62	0.30	0.34	0.47	17
SB60 CLEAR/GREEN	0.62	0.30	0.47	0.64	17
SB60 GRAY/CLEAR	0.62	0.21	0.30	0.40	17
SB70XL CLEAR/CLEAR	0.61	0.22	0.47	0.63	17
SB70XL CLEAR/GRAY	0.61	0.21	0.26	0.36	17
SB70XL CLEAR/BRONZE	0.61	0.22	0.30	0.41	17

7/16" LAMINATED .035 SGP - SMI	U-F	SHGC	VT	COG VT	CR
CLEAR/CLEAR	1.12	0.57	0.64	0.87	14
GRAY/CLEAR	1.12	0.44	0.36	0.49	14
BRONZE/CLEAR	1.12	0.47	0.42	0.57	14
GREEN/CLEAR	1.12	0.46	0.57	0.77	14
SOLARCOOL GRAY/CLEAR	1.12	0.29	0.14	0.19	14
SOLARCOOL BRONZE/CLEAR	1.12	0.30	0.16	0.22	14
SB60 CLEAR/CLEAR	1.11	0.35	0.54	0.73	14
SB60 CLEAR/GRAY	1.11	0.28	0.32	0.44	14
SB60 CLEAR/BRONZE	1.11	0.29	0.37	0.51	14
SB60 CLEAR/GREEN	1.11	0.32	0.48	0.65	14
SB60 GRAY/CLEAR	1.11	0.32	0.30	0.41	14
SB70XL CLEAR/CLEAR	1.11	0.25	0.44	0.60	14
SB70XL CLEAR/GRAY	1.11	0.21	0.29	0.39	14
SB70XL CLEAR/BRONZE	1.11	0.22	0.33	0.45	14
SB70XL CLEAR/GREEN	1.11	0.26	0.39	0.53	14

9/16" LAMINATED .090 SGP - LMI	U-F	SHGC	VT	COG VT	CR
CLEAR/CLEAR	1.12	0.55	0.63	0.86	14
GRAY/CLEAR	1.12	0.41	0.32	0.43	14
BRONZE/CLEAR	1.12	0.44	0.38	0.51	14
OPTIBLUE/CLEAR	1.12	0.51	0.46	0.63	14
SOLARCOOL GRAY/CLEAR	1.12	0.27	0.12	0.16	14
SOLARCOOL BRONZE/CLEAR	1.12	0.29	0.15	0.20	14
SB60 CLEAR/CLEAR	1.11	0.35	0.53	0.72	14
SB60 CLEAR/GRAY	1.11	0.28	0.27	0.36	14
SB60 CLEAR/BRONZE	1.11	0.29	0.32	0.43	14
SB60 CLEAR/GREEN	1.11	0.32	0.46	0.63	14
SB60 GRAY/CLEAR	1.11	0.32	0.27	0.36	14
SB70XL STARPHIRE/CLEAR	1.11	0.25	0.44	0.60	14
SB70XL STARPHIRE/GRAY	1.11	0.21	0.26	0.35	14
SB70XL STARPHIRE/BRONZE	1.11	0.22	0.31	0.42	14
SB70XL STARPHIRE/GREEN	1.11	0.23	0.39	0.52	14
Z50/CLEAR	1.10	0.33	0.38	0.52	15
Z50/OPTIBLUE	1.10	0.30	0.28	0.37	15

15/16" INSULATED - LMI	U-F	SHGC	VT	COG VT	CR
<i>7/16" .090 SGP - 3/8" ARGON - 1/8"</i>					
CLEAR/CLEAR	0.76	0.49	0.57	0.78	17
GRAY/CLEAR	0.76	0.35	0.32	0.44	17
BRONZE/CLEAR	0.76	0.37	0.37	0.51	17
SOLARCOOL GRAY/CLEAR	0.76	0.21	0.12	0.17	17
SOLARCOOL BRONZE/CLEAR	0.76	0.23	0.15	0.20	17
SB60 CLEAR*/CLEAR	0.65	0.34	0.51	0.69	17
SB60 CLEAR*/GRAY	0.65	0.24	0.29	0.39	17
SB60 CLEAR*/BRONZE	0.65	0.26	0.33	0.45	17
SB70XL CLEAR*/CLEAR	0.65	0.29	0.45	0.61	17
SB70XL CLEAR*/GRAY	0.65	0.21	0.25	0.35	17
SB70XL CLEAR*/BRONZE	0.65	0.23	0.29	0.40	17
SB70XL CLEAR*/GREEN	0.65	0.26	0.40	0.55	17

* LoE~ applied to surface 5

ASTM - E283 Air Infiltration; 6.2 psf (49 mph)
Allowed 0.3 cfm-sq. ft.
Measured 0.10 cfm-sq. ft.

ASTM - E547 Water Resistance; 5.0 gph-sq. ft.
No Leakage

Turtle Glass Compliant=

4070 Series

Horizontal Roller Window Aluminum

7/16" LAMINATED .090 SGP - LMI	U-F	SHGC	VT	COG VT	CR
CLEAR/CLEAR	1.11	0.56	0.63	0.85	15
GRAY/CLEAR	1.11	0.43	0.41	0.56	15
BRONZE/CLEAR	1.11	0.45	0.41	0.55	15
GREEN/CLEAR	1.11	0.45	0.55	0.75	15
SOLARCOOL GRAY/CLEAR	1.11	0.28	0.14	0.18	15
SOLARCOOL BRONZE/CLEAR	1.11	0.30	0.16	0.21	15
SB60 CLEAR/CLEAR	1.09	0.35	0.53	0.72	16
SB60 CLEAR/GRAY	1.09	0.29	0.30	0.41	16
SB60 CLEAR/BRONZE	1.09	0.30	0.35	0.47	16
SB60 CLEAR/GREEN	1.09	0.32	0.47	0.64	16
SB60 GRAY/CLEAR	1.09	0.33	0.30	0.41	16
SB70XL CLEAR/CLEAR	1.09	0.28	0.43	0.59	16
SB70XL CLEAR/GRAY	1.09	0.24	0.24	0.33	16
SB70XL CLEAR/BRONZE	1.09	0.24	0.28	0.38	16
SB70XL CLEAR/GREEN	1.09	0.26	0.38	0.52	16

7/8" INSULATED NON-IMPACT	U-F	SHGC	VT	COG VT	CR
<i>3/16" - 1/2" ARGON - 3/16"</i>					
CLEAR/CLEAR	0.75	0.55	0.59	0.80	16
GRAY/CLEAR	0.75	0.39	0.33	0.45	16
BRONZE/CLEAR	0.75	0.42	0.38	0.52	16
SOLARCOOL GRAY/CLEAR	0.75	0.24	0.13	0.17	16
SOLARCOOL BRONZE/CLEAR	0.75	0.27	0.15	0.20	16
ENERGY ADVT/CLEAR	0.64	0.48	0.55	0.74	16
ENERGY ADVT/GRAY	0.64	0.46	0.31	0.42	16
ENERGY ADVT/BRONZE	0.64	0.46	0.36	0.48	16
SB60 CLEAR/CLEAR	0.61	0.31	0.52	0.71	16
SB60 CLEAR/GRAY	0.61	0.30	0.30	0.40	16
SB60 CLEAR/BRONZE	0.61	0.30	0.34	0.47	16
SB60 CLEAR/GREEN	0.61	0.30	0.46	0.63	16
SB60 GRAY/CLEAR	0.61	0.22	0.30	0.40	16
SB70XL CLEAR/CLEAR	0.61	0.22	0.46	0.63	16
SB70XL CLEAR/GRAY	0.61	0.21	0.26	0.35	16
SB70XL CLEAR/BRONZE	0.61	0.21	0.30	0.41	16

7/8" INSULATED - LMI	U-F	SHGC	VT	COG VT	CR
<i>7/16" .090 SGP - 5/16" ARGON - 1/8"</i>					
CLEAR/CLEAR	0.76	0.48	0.57	0.77	15
GRAY/CLEAR	0.76	0.35	0.32	0.43	15
BRONZE/CLEAR	0.76	0.36	0.37	0.50	15
GREEN/CLEAR	0.76	0.37	0.50	0.68	15
SOLARCOOL GRAY/CLEAR	0.76	0.21	0.13	0.17	15
SOLARCOOL BRONZE/CLEAR	0.76	0.23	0.15	0.20	15
SB60 CLEAR*/CLEAR	0.65	0.34	0.51	0.69	16
SB60 CLEAR*/GRAY	0.65	0.24	0.29	0.39	16
SB60 CLEAR*/BRONZE	0.65	0.25	0.33	0.45	16
SB60 CLEAR*/GREEN	0.65	0.28	0.45	0.61	16
SB70XL CLEAR*/GRAY	0.65	0.21	0.25	0.34	16
SB70XL CLEAR*/BRONZE	0.65	0.22	0.29	0.39	16
SB70XL CLEAR*/GREEN	0.65	0.26	0.40	0.54	16

* LoE~ applied to surface 5