

<b>International Window 8220 3/4" Insulating Glass Unit Performance</b>												
<b>Casement/Awning w/ Intercept spacer</b>	<b>U-Value Residential Only</b>						<b>SHGC</b>			<b>Visible Light</b>		
	Air fill	With Argon	Sculpt Grid	Sculpted Grid with Argon	1/8" x 3/4" Grid	1/8" x 3/4" Grid with Argon		Sculpt Grid	1/8" x 3/4" Grid		Sculpt Grid	1/8" x 3/4" Grid
	SS Clr / SS Clr	0.57	0.55	0.57	0.55	0.57	0.55	0.57	0.48	0.52	0.59	0.49
DS Clr / DS Clr	0.57	0.55	0.57	0.55	0.57	0.55	0.56	0.46	0.51	0.59	0.48	0.53
3/16 Clr / 3/16 Clr	0.58	0.56	0.61	0.58	0.61	0.58	0.53	0.44	0.49	0.58	0.47	0.52
SS EnergyShield™/ SS clear	0.45	0.42	0.46	0.42	0.45	0.42	0.29	0.25	0.27	0.53	0.43	0.48
DS EnergyShield™/ DS clear	0.45	0.42	0.46	0.42	0.45	0.42	0.29	0.24	0.27	0.52	0.43	0.47
3/16 EnergyShield™/ 3/16 clear	0.47	0.43	0.51	0.47	0.51	0.47	0.29	0.24	0.27	0.51	0.42	0.47
SS EnergyShield Xtreme™/ SS clear	0.44	0.41	0.45	0.42	0.44	0.41	0.21	0.18	0.19	0.47	0.38	0.42
DS EnergyShield Xtreme™/ DS clear	0.44	0.41	0.45	0.42	0.44	0.41	0.21	0.18	0.19	0.46	0.38	0.42
3/16 EnergyShield Xtreme™/ 3/16 clear	0.47	0.43	0.51	0.46	0.51	0.46	0.22	0.18	0.20	0.46	0.37	0.41
DS bronze/ DS clear	0.57	0.55	0.57	0.55	0.57	0.55	0.46	0.38	0.42	0.44	0.36	0.40
3/16 bronze/ 3/16 clear	0.58	0.56	0.61	0.58	0.61	0.58	0.41	0.34	0.38	0.38	0.31	0.34
DS SCbronze/ DS clear	0.57	0.55	0.57	0.55	0.57	0.55	0.28	0.23	0.26	0.17	0.14	0.15
3/16 SCbronze/ 3/16 clear	0.58	0.56	0.61	0.58	0.61	0.58	0.25	0.21	0.23	0.15	0.12	0.13
DS grey/ DS clear	0.57	0.55	0.57	0.55	0.57	0.55	0.43	0.36	0.39	0.39	0.32	0.36
3/16 grey/ 3/16 clear	0.58	0.56	0.61	0.58	0.61	0.58	0.37	0.31	0.34	0.33	0.27	0.30
DS Azuria/ DS clear	0.57	0.55	0.57	0.55	0.57	0.55	0.36	0.30	0.33	0.50	0.41	0.46
3/16 Azuria/ 3/16 clear	0.58	0.56	0.61	0.58	0.61	0.58	0.32	0.27	0.29	0.46	0.38	0.42
DS bronze/ DS EnergyShield™	0.45	0.42	0.46	0.42	0.45	0.42	0.28	0.23	0.26	0.39	0.32	0.35
3/16 bronze/ 3/16 EnergyShield™	0.47	0.43	0.51	0.47	0.51	0.47	0.26	0.22	0.24	0.34	0.27	0.30
DS grey/ DS EnergyShield™	0.45	0.42	0.46	0.42	0.45	0.42	0.26	0.22	0.24	0.35	0.29	0.32
3/16 grey/ 3/16 EnergyShield™	0.47	0.43	0.51	0.47	0.51	0.47	0.24	0.20	0.22	0.29	0.24	0.26
DS Azuria/ DS EnergyShield™	0.45	0.42	0.46	0.42	0.45	0.42	0.27	0.23	0.25	0.45	0.37	0.41
3/16 Azuria/ 3/16 EnergyShield™	0.47	0.43	0.51	0.47	0.51	0.47	0.26	0.22	0.23	0.41	0.34	0.37
DS Solexia/ DS EnergyShield™	0.45	0.42	0.46	0.42	0.45	0.42	0.30	0.25	0.28	0.48	0.39	0.44
3/16 Solexia/ 3/16 EnergyShield™	0.47	0.43	0.51	0.47	0.51	0.47	0.29	0.24	0.26	0.46	0.37	0.41
SS EnergyShield™/ SS SG500	0.40	0.38	0.41	0.38	0.40	0.38	0.20	0.17	0.18	0.43	0.35	0.39
DS EnergyShield™/ DS SG500	0.40	0.38	0.41	0.38	0.41	0.38	0.20	0.17	0.18	0.43	0.35	0.39
3/16 EnergyShield™/ 3/16 SG500	0.42	0.39	0.44	0.41	0.42	0.39	0.20	0.17	0.19	0.42	0.35	0.38

U-Value is the overall coefficient of heat transmittance of heat flow measured in BTU/hr.\* ft<sup>2</sup>\*°F. Lower U-Values indicate better performance. Winter nighttime U-Values are calculated using an outdoor air temperature of 0°F and indoor air temperature of 70°F.

Solar Heat Gain Coefficient is defined that fraction of incident solar radiation that actually enters a building through the window as heat gain. The SHGC is expressed as a dimensionless number from 0 to 1.0 A high coefficient signifies high heat gain, while a low number means low heat gain.

Visible Transmittance is the amount of light in the visible portion of the spectrum that passes through a glazing material. This property does not directly affect heating and cooling loads in a building.

Clear glass - includes all non-tinted pattern glass, i.e. Obscure, Rain, Delta Frost

EnergyShield™ spectrally selective Low-E with emissivity 0.035

EnergyShield Xtreme™ spectrally selective Low-E with emissivity 0.018

<b>International Window 8220 3/4" Insulating Glass Unit Performance</b>												
<b>Casement/Awning w/ Xtreme spacer</b>	<b>U-Value Residential Only</b>						<b>SHGC</b>			<b>Visible Light</b>		
	Air fill	With Argon	Sculpt Grid	Sculpted Grid with Argon	1/8" x 3/4" Grid	1/8" x 3/4" Grid with Argon		Sculpt Grid	1/8" x 3/4" Grid		Sculpt Grid	1/8" x 3/4" Grid
	SS Clr / SS Clr	0.56	0.54	0.56	0.54	0.56	0.54	0.57	0.48	0.52	0.59	0.49
DS Clr / DS Clr	0.56	0.54	0.56	0.54	0.56	0.54	0.56	0.46	0.51	0.59	0.48	0.53
3/16 Clr / 3/16 Clr	0.57	0.55	0.60	0.57	0.60	0.57	0.53	0.44	0.49	0.58	0.47	0.52
SS EnergyShield™/ SS clear	0.43	0.40	0.44	0.41	0.43	0.40	0.29	0.25	0.27	0.53	0.43	0.48
DS EnergyShield™/ DS clear	0.43	0.40	0.44	0.41	0.43	0.40	0.29	0.24	0.27	0.52	0.43	0.47
3/16 EnergyShield™/ 3/16 clear	0.46	0.42	0.49	0.45	0.49	0.45	0.29	0.24	0.27	0.51	0.42	0.47
SS EnergyShield Xtreme™/ SS clear	0.43	0.40	0.44	0.41	0.43	0.40	0.21	0.18	0.19	0.47	0.38	0.42
DS EnergyShield Xtreme™/ DS clear	0.43	0.40	0.44	0.41	0.43	0.40	0.21	0.18	0.19	0.46	0.38	0.42
3/16 EnergyShield Xtreme™/ 3/16 clear	0.45	0.41	0.49	0.45	0.49	0.45	0.22	0.18	0.20	0.46	0.37	0.41
DS bronze/ DS clear	0.56	0.54	0.56	0.54	0.56	0.54	0.46	0.38	0.42	0.44	0.36	0.40
3/16 bronze/ 3/16 clear	0.57	0.55	0.60	0.57	0.60	0.57	0.41	0.34	0.38	0.38	0.31	0.34
DS SCbronze/ DS clear	0.56	0.54	0.56	0.54	0.56	0.54	0.28	0.23	0.26	0.17	0.14	0.15
3/16 SCbronze/ 3/16 clear	0.57	0.55	0.60	0.57	0.60	0.57	0.25	0.21	0.23	0.15	0.12	0.13
DS grey/ DS clear	0.56	0.54	0.56	0.54	0.56	0.54	0.43	0.36	0.39	0.39	0.32	0.36
3/16 grey/ 3/16 clear	0.57	0.55	0.60	0.57	0.60	0.57	0.37	0.31	0.34	0.33	0.27	0.30
DS Azuria/ DS clear	0.56	0.54	0.56	0.54	0.56	0.54	0.36	0.30	0.33	0.50	0.41	0.46
3/16 Azuria/ 3/16 clear	0.57	0.55	0.60	0.57	0.60	0.57	0.32	0.27	0.29	0.46	0.38	0.42
DS bronze/ DS EnergyShield™	0.43	0.40	0.44	0.41	0.43	0.40	0.28	0.23	0.26	0.39	0.32	0.35
3/16 bronze/ 3/16 EnergyShield™	0.46	0.42	0.49	0.45	0.49	0.45	0.26	0.22	0.24	0.34	0.27	0.30
DS grey/ DS EnergyShield™	0.43	0.40	0.44	0.41	0.43	0.40	0.26	0.22	0.24	0.35	0.29	0.32
3/16 grey/ 3/16 EnergyShield™	0.46	0.42	0.49	0.45	0.49	0.45	0.24	0.20	0.22	0.29	0.24	0.26
DS Azuria/ DS EnergyShield™	0.43	0.40	0.44	0.41	0.43	0.40	0.27	0.23	0.25	0.45	0.37	0.41
3/16 Azuria/ 3/16 EnergyShield™	0.46	0.42	0.49	0.45	0.49	0.45	0.26	0.22	0.23	0.41	0.34	0.37
DS Solexia/ DS EnergyShield™	0.43	0.40	0.44	0.41	0.43	0.40	0.30	0.25	0.28	0.48	0.39	0.44
3/16 Solexia/ 3/16 EnergyShield™	0.46	0.42	0.49	0.45	0.49	0.45	0.29	0.24	0.26	0.46	0.37	0.41
SS EnergyShield™/ SS SG500	0.39	0.36	0.40	0.37	0.39	0.36	0.20	0.17	0.18	0.43	0.35	0.39
DS EnergyShield™/ DS SG500	0.39	0.36	0.40	0.37	0.40	0.37	0.20	0.17	0.18	0.43	0.35	0.39
3/16 EnergyShield™/ 3/16 SG500	0.41	0.38	0.43	0.40	0.41	0.38	0.20	0.17	0.19	0.42	0.35	0.38

U-Value is the overall coefficient of heat transmittance of heat flow measured in BTU/hr.\* ft<sup>2</sup>\*°F. Lower U-Values indicate better performance. Winter nighttime U-Values are calculated using an outdoor air temperature of 0°F and indoor air temperature of 70°F.

Solar Heat Gain Coefficient is defined that fraction of incident solar radiation that actually enters a building through the window as heat gain. The SHGC is expressed as a dimensionless number from 0 to 1.0 A high coefficient signifies high heat gain, while a low number means low heat gain.

Visible Transmittance is the amount of light in the visible portion of the spectrum that passes through a glazing material. This property does not directly affect heating and cooling loads in a building.

Clear glass - includes all non-tinted pattern glass, i.e. Obscure, Rain, Delta Frost

EnergyShield™ spectrally selective Low-E with emissivity 0.035

EnergyShield Xtreme™ spectrally selective Low-E with emissivity 0.018