

<b>International Window 5420/21/60/80 3/4" Insulating Glass Unit Performance</b>												
<b>Picture Window w/Steel Spacer</b>	<b>U-Factors</b>						<b>SHGC</b>			<b>Visible Light</b>		
	Air fill	With Argon	Sculptured Grid	Sculptured Grid with Argon	1/8" x 3/4" Grid	1/8" x 3/4" Grid with Argon		Sculptured Grid	1/8" x 3/4" Grid		Sculptured Grid	1/8" x 3/4" Grid
SS clear/ SS clear	0.47	0.45	0.47	0.45	0.47	0.45	0.69	0.62	0.62	0.72	0.65	0.65
DS clear/ DS clear	0.47	0.45	0.47	0.45	0.47	0.45	0.67	0.60	0.60	0.71	0.64	0.64
3/16 clear/ 3/16 clear	0.48	0.46	0.51	0.48	0.51	0.48	0.64	0.58	0.58	0.70	0.63	0.63
SS EnergyShield™/ SS clear	0.30	0.26	0.30	0.26	0.30	0.26	0.32	0.29	0.29	0.61	0.55	0.55
DS EnergyShield™/ DS clear	0.30	0.26	0.30	0.26	0.30	0.26	0.32	0.29	0.29	0.61	0.55	0.55
3/16 EnergyShield™/ 3/16 clear	0.34	0.28	0.38	0.34	0.38	0.34	0.32	0.29	0.29	0.60	0.54	0.54
SS EnergyShield Xtreme™/ SS clear	0.30	0.26	0.30	0.26	0.30	0.26	0.24	0.22	0.22	0.55	0.49	0.49
DS EnergyShield Xtreme™/ DS clear	0.30	0.26	0.30	0.26	0.30	0.26	0.24	0.22	0.22	0.54	0.49	0.49
3/16 EnergyShield Xtreme™/ 3/16 clear	0.33	0.28	0.38	0.34	0.38	0.34	0.24	0.22	0.22	0.54	0.48	0.48
SS bronze/ SS clear	0.47	0.45	0.47	0.45	0.47	0.45	0.60	0.54	0.54	0.59	0.53	0.53
DS bronze/ DS clear	0.47	0.45	0.47	0.45	0.47	0.45	0.55	0.49	0.49	0.53	0.48	0.48
3/16 bronze/ 3/16 clear	0.48	0.46	0.51	0.48	0.51	0.48	0.49	0.44	0.44	0.46	0.41	0.41
3/16 Solarcool/ 3/16 clear	0.48	0.46	0.51	0.48	0.51	0.48	0.30	0.27	0.27	0.18	0.16	0.16
DS grey/ DS clear	0.47	0.45	0.47	0.45	0.47	0.45	0.51	0.46	0.46	0.48	0.43	0.43
3/16 grey/ 3/16 clear	0.48	0.46	0.51	0.48	0.51	0.48	0.44	0.40	0.40	0.40	0.36	0.36
DS greylite # 31/ DS clear	0.47	0.45	0.47	0.45	0.47	0.45	0.28	0.25	0.25	0.19	0.17	0.17
DS Azuria/ DS clear	0.47	0.45	0.47	0.45	0.47	0.45	0.43	0.39	0.39	0.61	0.55	0.55
3/16 Azuria/ 3/16 clear	0.48	0.46	0.51	0.48	0.51	0.48	0.38	0.34	0.34	0.57	0.51	0.51
DS bronze/ SS EnergyShield™	0.30	0.26	0.30	0.26	0.30	0.26	0.35	0.32	0.32	0.50	0.45	0.45
DS bronze/ DS EnergyShield™	0.30	0.26	0.30	0.26	0.30	0.26	0.32	0.29	0.29	0.45	0.41	0.41
3/16 bronze/ 3/16 EnergyShield™	0.34	0.28	0.38	0.34	0.38	0.34	0.30	0.27	0.27	0.39	0.35	0.35
DS grey/ DS EnergyShield™	0.30	0.26	0.30	0.26	0.30	0.26	0.30	0.28	0.28	0.41	0.37	0.37
3/16 grey/ 3/16 EnergyShield™	0.34	0.28	0.38	0.34	0.38	0.34	0.27	0.25	0.25	0.34	0.30	0.30
DS Azuria/ DS EnergyShield™	0.30	0.26	0.30	0.26	0.30	0.26	0.32	0.29	0.29	0.52	0.47	0.47
3/16 Azuria/ 3/16 EnergyShield™	0.34	0.28	0.38	0.34	0.38	0.34	0.30	0.27	0.27	0.48	0.43	0.43
3/16 Solexia/ 3/16 EnergyShield™	0.34	0.28	0.38	0.34	0.38	0.34	0.33	0.30	0.30	0.53	0.48	0.48

U-Value is the overall coefficient of heat transmittance of heat flow measured in BTU/hr.\*ft2\*°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 0.036  
 EnergyShield Xtreme™ spectrally selective Low-E with emissivity 0.024

<b>International Window 5420/21/60/80 3/4" Insulating Glass Unit Performance</b>												
<b>Picture Window w/Xtreme Spacer</b>	<b>U-Factors</b>						<b>SHGC</b>			<b>Visible Light</b>		
	Air fill	With Argon	Sculptured Grid	Sculptured Grid with Argon	1/8" x 3/4" Grid	1/8" x 3/4" Grid with Argon		Sculptured Grid	1/8" x 3/4" Grid		Sculptured Grid	1/8" x 3/4" Grid
	SS clear/ SS clear	0.46	0.44	0.46	0.44	0.46	0.44	0.69	0.62	0.62	0.72	0.65
DS clear/ DS clear	0.46	0.44	0.46	0.44	0.46	0.44	0.67	0.60	0.60	0.71	0.64	0.64
3/16 clear/ 3/16 clear	0.48	0.45	0.50	0.47	0.50	0.47	0.64	0.58	0.58	0.70	0.63	0.63
SS EnergyShield™/ SS clear	0.30	0.26	0.30	0.26	0.30	0.26	0.32	0.29	0.29	0.61	0.55	0.55
DS EnergyShield™/ DS clear	0.30	0.26	0.30	0.26	0.30	0.26	0.32	0.29	0.29	0.61	0.55	0.55
3/16 EnergyShield™/ 3/16 clear	0.32	0.27	0.37	0.32	0.37	0.32	0.32	0.29	0.29	0.60	0.54	0.54
SS EnergyShield Xtreme™/ SS clear	0.30	0.26	0.30	0.26	0.30	0.26	0.24	0.22	0.22	0.55	0.49	0.49
DS EnergyShield Xtreme™/ DS clear	0.30	0.26	0.30	0.26	0.30	0.26	0.24	0.22	0.22	0.54	0.49	0.49
3/16 EnergyShield Xtreme™/ 3/16 clear	0.32	0.27	0.37	0.34	0.37	0.34	0.24	0.22	0.22	0.54	0.48	0.48
SS bronze/ SS clear	0.46	0.44	0.46	0.44	0.46	0.44	0.60	0.54	0.54	0.59	0.53	0.53
DS bronze/ DS clear	0.46	0.44	0.46	0.44	0.46	0.44	0.55	0.49	0.49	0.53	0.48	0.48
3/16 bronze/ 3/16 clear	0.48	0.45	0.50	0.47	0.50	0.47	0.49	0.44	0.44	0.46	0.41	0.41
5/32 Solarcool/ 3/16 clear	0.48	0.45	0.50	0.47	0.50	0.47	0.30	0.27	0.27	0.18	0.16	0.16
DS grey/ DS clear	0.46	0.44	0.46	0.44	0.46	0.44	0.51	0.46	0.46	0.48	0.43	0.43
3/16 grey/ 3/16 clear	0.48	0.45	0.50	0.47	0.50	0.47	0.44	0.40	0.40	0.40	0.36	0.36
DS greylite # 31/ DS clear	0.46	0.44	0.46	0.44	0.46	0.44	0.28	0.25	0.25	0.19	0.17	0.17
DS Azuria/ DS clear	0.46	0.44	0.46	0.44	0.46	0.44	0.43	0.39	0.39	0.61	0.55	0.55
3/16 Azuria/ 3/16 clear	0.48	0.45	0.50	0.47	0.50	0.47	0.38	0.34	0.34	0.57	0.51	0.51
DS bronze/ SS EnergyShield™	0.30	0.26	0.30	0.26	0.30	0.26	0.35	0.32	0.32	0.50	0.45	0.45
DS bronze/ DS EnergyShield™	0.30	0.26	0.30	0.26	0.30	0.26	0.32	0.29	0.29	0.45	0.41	0.41
3/16 bronze/ 3/16 EnergyShield™	0.32	0.27	0.37	0.32	0.37	0.32	0.30	0.27	0.27	0.39	0.35	0.35
DS grey/ DS EnergyShield™	0.30	0.26	0.30	0.26	0.30	0.26	0.30	0.28	0.28	0.41	0.37	0.37
3/16 grey/ 3/16 EnergyShield™	0.32	0.27	0.37	0.32	0.37	0.32	0.27	0.25	0.25	0.34	0.30	0.30
DS Azuria/ DS EnergyShield™	0.30	0.26	0.30	0.26	0.30	0.26	0.32	0.29	0.29	0.52	0.47	0.47
3/16 Azuria/ 3/16 EnergyShield™	0.32	0.27	0.37	0.32	0.37	0.32	0.30	0.27	0.27	0.48	0.43	0.43
3/16 Solexia/ 3/16 EnergyShield™	0.32	0.27	0.37	0.32	0.37	0.32	0.33	0.30	0.30	0.53	0.48	0.48

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Clear glass - includes all non-tinted pattern glass, i.e. Obscure, Rain, Delta Frost  
 EnergyShield™ spectrally selective Low-E with emissivity 0.036  
 EnergyShield Xtreme™ spectrally selective Low-E with emissivity 0.024

**International Window 5420/21/60/80 3/4" Insulating Glass Unit Performance**

**Picture Window  
w/Steel Spacer**

	U-Factors						SHGC			Visible Light		
	Air fill	With Argon	Sculptured & SDL Grid	Sculptured & SDL Grid with Argon	1/8" x 3/4" Grid	1/8" x 3/4" Grid with Argon		Sculptured & SDL Grid	1/8" x 3/4" Grid		Sculptured & SDL Grid	1/8" x 3/4" Grid
SS clear/ SS clear / SS clear	0.33	0.31	0.33	0.31	0.33	0.31	0.62	0.50	0.56	0.66	0.53	0.59
DS clear/ DS clear / DS clear	0.34	0.31	0.35	0.32	0.35	0.32	0.60	0.48	0.54	0.65	0.52	0.58
3/16 clear/ 3/16 clear / 3/16 clear	0.36	0.33	0.36	0.33	0.36	0.33	0.56	0.46	0.51	0.64	0.51	0.57
SS EnergyShield™/ SS clear / SS clear	0.24	0.21	0.25	0.23	0.25	0.23	0.30	0.25	0.27	0.56	0.45	0.50
DS EnergyShield™/ DS clear / DS clear	0.25	0.21	0.27	0.24	0.27	0.24	0.30	0.24	0.27	0.55	0.44	0.50
3/16 EnergyShield™/ 3/16 clear / 3/16 clear	0.29	0.25	0.31	0.27	0.31	0.27	0.29	0.24	0.27	0.54	0.43	0.48
SS EnergyShield™/ SS clear / SS EnergyShield™	0.19	0.16	0.20	0.17	0.20	0.17	0.28	0.23	0.25	0.48	0.38	0.43
DS EnergyShield™/ DS clear / DS EnergyShield™	0.20	0.17	0.22	0.18	0.22	0.18	0.27	0.23	0.25	0.47	0.38	0.42
3/16 EnergyShield™/ 3/16 clear / 3/16 EnergyShield™	0.25	0.20	0.26	0.22	0.26	0.22	0.27	0.22	0.25	0.46	0.37	0.41
SS EnergyShield Xtreme™/ SS clear / SS clear	0.24	0.20	0.25	0.22	0.25	0.22	0.22	0.18	0.20	0.50	0.40	0.45
DS EnergyShield Xtreme™/ DS clear / DS clear	0.25	0.21	0.27	0.24	0.27	0.24	0.22	0.18	0.20	0.49	0.40	0.44
3/16 EnergyShield Xtreme™/ 3/16 clear / 3/16 clear	0.29	0.25	0.30	0.27	0.30	0.27	0.22	0.19	0.20	0.48	0.39	0.43
SS EnergyShield Xtreme™/ SS clear / SS EnergyShield Xtreme™	0.19	0.16	0.20	0.17	0.20	0.17	0.22	0.18	0.20	0.50	0.40	0.45
DS EnergyShield Xtreme™/ DS clear / DS EnergyShield Xtreme™	0.20	0.16	0.21	0.18	0.21	0.18	0.22	0.18	0.20	0.49	0.40	0.44
3/16 EnergyShield Xtreme™/ 3/16 clear / 3/16 EnergyShield Xtreme™	0.25	0.20	0.25	0.21	0.25	0.21	0.22	0.19	0.20	0.48	0.39	0.43

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EnergyShield Xtreme™ spectrally selective Low-E with emissivity 0.024

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	U-Factors						SHGC			Visible Light		
	Air fill	With Argon	Sculptured & SDL Grid	Sculptured & SDL Grid with Argon	1/8" x 3/4" Grid	1/8" x 3/4" Grid with Argon		Sculptured & SDL Grid	1/8" x 3/4" Grid		Sculptured & SDL Grid	1/8" x 3/4" Grid
SS clear/ SS clear / SS clear	0.32	0.30	0.32	0.30	0.32	0.30	0.62	0.50	0.56	0.66	0.53	0.59
DS clear/ DS clear / DS clear	0.33	0.31	0.34	0.32	0.34	0.32	0.60	0.48	0.54	0.65	0.52	0.58
3/16 clear/ 3/16 clear / 3/16 clear	0.35	0.32	0.36	0.33	0.36	0.33	0.56	0.46	0.51	0.64	0.51	0.57
SS EnergyShield™/ SS clear / SS clear	0.24	0.20	0.25	0.22	0.25	0.22	0.32	0.26	0.29	0.59	0.47	0.53
DS EnergyShield™/ DS clear / DS clear	0.26	0.22	0.28	0.24	0.28	0.24	0.32	0.26	0.29	0.58	0.46	0.52
3/16 EnergyShield™/ 3/16 clear / 3/16 clear	0.29	0.25	0.30	0.26	0.30	0.26	0.31	0.26	0.28	0.56	0.45	0.51
SS EnergyShield™/ SS clear / SS EnergyShield™	0.19	0.15	0.19	0.16	0.19	0.16	0.30	0.24	0.27	0.52	0.42	0.47
DS EnergyShield™/ DS clear / DS EnergyShield™	0.21	0.17	0.22	0.18	0.22	0.18	0.29	0.24	0.27	0.51	0.41	0.46
3/16 EnergyShield™/ 3/16 clear / 3/16 EnergyShield™	0.24	0.20	0.25	0.21	0.25	0.21	0.29	0.24	0.26	0.50	0.40	0.45
SS EnergyShield Xtreme™/ SS clear / SS clear	0.23	0.20	0.24	0.22	0.24	0.22	0.23	0.19	0.21	0.52	0.42	0.47
DS EnergyShield Xtreme™/ DS clear / DS clear	0.25	0.22	0.27	0.24	0.27	0.24	0.23	0.19	0.21	0.51	0.41	0.46
3/16 EnergyShield Xtreme™/ 3/16 clear / 3/16 clear	0.29	0.24	0.30	0.26	0.30	0.26	0.23	0.19	0.21	0.50	0.40	0.45
SS EnergyShield Xtreme™/ SS clear / SS EnergyShield Xtreme™	0.18	0.15	0.19	0.16	0.19	0.16	0.23	0.19	0.21	0.52	0.42	0.47
DS EnergyShield Xtreme™/ DS clear / DS EnergyShield Xtreme™	0.20	0.17	0.21	0.18	0.21	0.18	0.23	0.19	0.21	0.51	0.41	0.46
3/16 EnergyShield Xtreme™/ 3/16 clear / 3/16 EnergyShield Xtreme™	0.24	0.20	0.25	0.20	0.25	0.20	0.23	0.19	0.21	0.50	0.40	0.45

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