

<b>International Window 5420 3/4" Insulating Glass Unit Performance</b>												
<b>Horizontal Slide 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	0.48	0.46	0.48	0.46	0.48	0.46	0.64	0.51	0.57	0.67	0.53	0.60
DS clear/ DS clear	0.48	0.46	0.48	0.46	0.49	0.47	0.62	0.50	0.55	0.66	0.52	0.59
3/16 clear/ 3/16 clear	0.50	0.47	0.50	0.48	0.52	0.49	0.59	0.47	0.53	0.65	0.51	0.58
SS EnergyShield™/ SS clear	0.35	0.31	0.35	0.31	0.35	0.31	0.30	0.25	0.27	0.57	0.45	0.51
DS EnergyShield™/ DS clear	0.34	0.31	0.34	0.31	0.36	0.32	0.30	0.24	0.27	0.56	0.45	0.50
3/16 EnergyShield™/ 3/16 clear	0.37	0.32	0.37	0.32	0.41	0.36	0.30	0.24	0.27	0.55	0.44	0.50
SS EnergyShield Xtreme™/ SS clear	0.34	0.31	0.34	0.31	0.34	0.31	0.22	0.18	0.20	0.51	0.40	0.45
DS EnergyShield Xtreme™/ DS clear	0.34	0.31	0.34	0.31	0.36	0.32	0.22	0.18	0.20	0.50	0.40	0.45
3/16 EnergyShield Xtreme™/ 3/16 clear	0.36	0.32	0.38	0.33	0.41	0.36	0.23	0.19	0.21	0.50	0.39	0.44
DS bronze/ DS clear	0.48	0.46	0.48	0.46	0.49	0.47	0.51	0.41	0.46	0.49	0.39	0.44
3/16 bronze/ 3/16 clear	0.50	0.47	0.50	0.48	0.52	0.49	0.45	0.37	0.41	0.42	0.34	0.38
1/4 Solarcool/ DS clear	0.50	0.47	0.50	0.47	0.52	0.49	0.26	0.21	0.24	0.15	0.12	0.14
DS Gray/ DS clear	0.48	0.46	0.48	0.46	0.49	0.47	0.47	0.38	0.43	0.44	0.35	0.39
3/16 Gray/ 3/16 clear	0.50	0.47	0.50	0.48	0.52	0.49	0.41	0.33	0.37	0.37	0.29	0.33
DS Graylite # 31/ DS clear	0.48	0.46	0.48	0.46	0.49	0.47	0.26	0.21	0.24	0.17	0.14	0.16
DS Azuria/ DS clear	0.48	0.46	0.48	0.46	0.49	0.47	0.40	0.32	0.36	0.56	0.45	0.50
3/16 Azuria/ 3/16 clear	0.50	0.47	0.50	0.48	0.52	0.49	0.35	0.28	0.32	0.52	0.41	0.47
DS bronze/ DS EnergyShield™	0.34	0.31	0.34	0.31	0.36	0.32	0.30	0.24	0.27	0.42	0.33	0.37
3/16 bronze/ 3/16 EnergyShield™	0.37	0.32	0.37	0.32	0.41	0.36	0.27	0.22	0.25	0.36	0.29	0.32
DS Gray/ DS EnergyShield™	0.34	0.31	0.34	0.31	0.36	0.32	0.28	0.23	0.25	0.38	0.30	0.34
3/16 Gray/ 3/16 EnergyShield™	0.37	0.32	0.37	0.32	0.41	0.36	0.25	0.21	0.23	0.31	0.25	0.28
DS Azuria/ DS EnergyShield™	0.34	0.31	0.34	0.31	0.36	0.32	0.29	0.24	0.27	0.48	0.38	0.43
3/16 Azuria/ 3/16 EnergyShield™	0.37	0.32	0.37	0.32	0.41	0.36	0.28	0.22	0.25	0.44	0.35	0.40
3/16 Solexia/ 3/16 EnergyShield™	0.37	0.32	0.37	0.32	0.41	0.36	0.31	0.25	0.28	0.49	0.39	0.44
DS EnergyShield Xtreme™/ DS ILE	0.30	0.27	0.30	0.27	0.31	0.28	0.22	0.18	0.20	0.49	0.39	0.44
3/16 EnergyShield Xtreme™/ 3/16 ILE	0.32	0.28	0.33	0.29	0.34	0.31	0.22	0.18	0.20	0.48	0.38	0.43

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 0.036

EnergyShield Xtreme™ spectrally selective Low-E with emissivity 0.024

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<b>Horizontal Slide 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	0.47	0.45	0.47	0.45	0.47	0.45	0.64	0.51	0.57	0.67	0.53	0.60
DS clear/ DS clear	0.47	0.45	0.47	0.45	0.48	0.45	0.62	0.50	0.55	0.66	0.52	0.59
3/16 clear/ 3/16 clear	0.49	0.46	0.49	0.46	0.51	0.48	0.59	0.47	0.53	0.65	0.51	0.58
SS EnergyShield™/ SS clear	0.33	0.29	0.33	0.29	0.33	0.29	0.30	0.25	0.27	0.57	0.45	0.51
DS EnergyShield™/ DS clear	0.33	0.29	0.33	0.29	0.35	0.31	0.30	0.24	0.27	0.56	0.45	0.50
3/16 EnergyShield™/ 3/16 clear	0.35	0.30	0.35	0.30	0.39	0.34	0.30	0.24	0.27	0.55	0.44	0.50
SS EnergyShield Xtreme™/ SS clear	0.33	0.29	0.33	0.29	0.33	0.29	0.22	0.18	0.20	0.51	0.40	0.45
DS EnergyShield Xtreme™/ DS clear	0.32	0.29	0.32	0.29	0.34	0.30	0.22	0.18	0.20	0.50	0.40	0.45
3/16 EnergyShield Xtreme™/ 3/16 clear	0.35	0.30	0.36	0.31	0.39	0.34	0.23	0.19	0.21	0.50	0.39	0.44
DS bronze/ DS clear	0.47	0.45	0.47	0.45	0.48	0.45	0.51	0.41	0.46	0.49	0.39	0.44
3/16 bronze/ 3/16 clear	0.49	0.46	0.49	0.46	0.51	0.48	0.45	0.37	0.41	0.42	0.34	0.38
3/16 Solarcool/ 3/16 clear	0.48	0.46	0.49	0.46	0.51	0.48	0.26	0.21	0.24	0.15	0.12	0.14
DS Gray/ DS clear	0.47	0.45	0.47	0.45	0.48	0.45	0.47	0.38	0.43	0.44	0.35	0.39
3/16 Gray/ 3/16 clear	0.49	0.46	0.49	0.46	0.51	0.48	0.41	0.33	0.37	0.37	0.29	0.33
DS Graylite # 31/ DS clear	0.47	0.45	0.47	0.45	0.48	0.45	0.26	0.21	0.24	0.17	0.14	0.16
DS Azuria/ DS clear	0.47	0.45	0.47	0.45	0.48	0.45	0.40	0.32	0.36	0.56	0.45	0.50
3/16 Azuria/ 3/16 clear	0.49	0.46	0.49	0.46	0.51	0.48	0.35	0.28	0.32	0.52	0.41	0.47
DS bronze/ DS EnergyShield™	0.33	0.29	0.33	0.29	0.35	0.31	0.30	0.24	0.27	0.42	0.33	0.37
3/16 bronze/ 3/16 EnergyShield™	0.35	0.30	0.35	0.30	0.39	0.34	0.27	0.22	0.25	0.36	0.29	0.32
DS Gray/ DS EnergyShield™	0.33	0.29	0.33	0.29	0.35	0.31	0.28	0.23	0.25	0.38	0.30	0.34
3/16 Gray/ 3/16 EnergyShield™	0.35	0.30	0.35	0.30	0.39	0.34	0.25	0.21	0.23	0.31	0.25	0.28
DS Azuria/ DS EnergyShield™	0.33	0.29	0.33	0.29	0.35	0.31	0.29	0.24	0.27	0.48	0.38	0.43
3/16 Azuria/ 3/16 EnergyShield™	0.35	0.30	0.35	0.30	0.39	0.34	0.28	0.22	0.25	0.44	0.35	0.40
3/16 Solexia/ 3/16 EnergyShield™	0.35	0.30	0.35	0.30	0.39	0.34	0.31	0.25	0.28	0.49	0.39	0.44
DS EnergyShield Xtreme™/ DS ILE	0.28	0.25	0.28	0.25	0.30	0.27	0.22	0.18	0.20	0.49	0.39	0.44
3/16 EnergyShield Xtreme™/ 3/16 ILE	0.30	0.27	0.31	0.28	0.33	0.29	0.22	0.18	0.20	0.48	0.38	0.43

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.

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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

<b>International Window 5420/21/60/80 1 1/8" Triple Glaze Unit Performance</b>												
<b>Horizontal Slide 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 EnergyShield™/ SS clear / SS clear	0.29	0.26	0.30	0.27	0.31	0.28	0.28	0.23	0.25	0.52	0.41
DS EnergyShield™/ DS clear / DS clear	0.30	0.26	0.30	0.27	0.32	0.28	0.28	0.23	0.25	0.51	0.41	0.46
3/16 EnergyShield™/ 3/16 clear / 3/16 clear	0.34	0.30	NA	NA	0.34	0.31	0.28	NA	0.25	0.50	NA	0.45
SS EnergyShield™/ SS clear / SS EnergyShield™	0.25	0.22	0.25	0.22	0.26	0.23	0.26	0.21	0.23	0.44	0.35	0.39
DS EnergyShield™/ DS clear / DS EnergyShield™	0.25	0.22	0.26	0.22	0.26	0.23	0.26	0.21	0.23	0.44	0.35	0.39
3/16 EnergyShield™/ 3/16 clear / 3/16 EnergyShield™	0.30	0.26	NA	NA	0.30	0.26	0.25	NA	0.23	0.43	NA	0.38
SS EnergyShield Xtreme™/ SS clear / SS clear	0.29	0.26	0.30	0.27	0.31	0.28	0.21	0.17	0.19	0.46	0.37	0.42
DS EnergyShield Xtreme™/ DS clear / DS clear	0.30	0.26	0.30	0.27	0.31	0.28	0.21	0.17	0.19	0.46	0.37	0.41
3/16 EnergyShield Xtreme™/ 3/16 clear / 3/16 clear	0.33	0.30	NA	NA	0.34	0.30	0.21	NA	0.19	0.45	NA	0.40
SS EnergyShield Xtreme™/ SS clear / SS EnergyShield Xtreme™	0.25	0.22	0.25	0.22	0.26	0.22	0.21	0.17	0.19	0.46	0.37	0.42
DS EnergyShield Xtreme™/ DS clear / DS EnergyShield Xtreme™	0.25	0.22	0.26	0.22	0.26	0.23	0.21	0.17	0.19	0.46	0.37	0.41
3/16 EnergyShield Xtreme™/ 3/16 clear / 3/16 EnergyShield Xtreme™	0.30	0.26	NA	NA	0.30	0.26	0.21	NA	0.19	0.45	NA	0.40

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 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 1 1/8" Triple Glaze Unit Performance</b>												
<b>Horizontal Slide 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 EnergyShield™/ SS clear / SS clear	0.29	0.24	0.28	0.25	0.29	0.26	0.28	0.23	0.25	0.52	0.41
DS EnergyShield™/ DS clear / DS clear	0.29	0.25	0.29	0.26	0.30	0.27	0.28	0.23	0.25	0.51	0.41	0.46
3/16 EnergyShield™/ 3/16 clear / 3/16 clear	0.32	0.28	NA	NA	0.33	0.29	0.28	NA	0.25	0.50	NA	0.45
SS EnergyShield™/ SS clear / SS EnergyShield™	0.23	0.20	0.23	0.20	0.24	0.21	0.26	0.21	0.23	0.44	0.35	0.39
DS EnergyShield™/ DS clear / DS EnergyShield™	0.24	0.21	0.25	0.21	0.25	0.22	0.26	0.21	0.23	0.44	0.35	0.39
3/16 EnergyShield™/ 3/16 clear / 3/16 EnergyShield™	0.28	0.24	NA	NA	0.28	0.24	0.25	NA	0.23	0.43	NA	0.38
SS EnergyShield Xtreme™/ SS clear / SS clear	0.27	0.24	0.28	0.25	0.29	0.25	0.21	0.17	0.19	0.46	0.37	0.42
DS EnergyShield Xtreme™/ DS clear / DS clear	0.28	0.25	0.29	0.26	0.30	0.27	0.21	0.17	0.19	0.46	0.37	0.41
3/16 EnergyShield Xtreme™/ 3/16 clear / 3/16 clear	0.32	0.28	NA	NA	0.33	0.29	0.21	NA	0.19	0.45	NA	0.40
SS EnergyShield Xtreme™/ SS clear / SS EnergyShield Xtreme™	0.23	0.20	0.23	0.20	0.24	0.20	0.21	0.17	0.19	0.46	0.37	0.42
DS EnergyShield Xtreme™/ DS clear / DS EnergyShield Xtreme™	0.24	0.21	0.24	0.21	0.25	0.22	0.21	0.17	0.19	0.46	0.37	0.41
3/16 EnergyShield Xtreme™/ 3/16 clear / 3/16 EnergyShield Xtreme™	0.28	0.24	NA	NA	0.28	0.24	0.21	NA	0.19	0.45	NA	0.40

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EnergyShield Xtreme™ spectrally selective Low-E with emissivity 0.024