

LAWSON 2000 NON-IMPACT FRENCH DOOR THERMAL PROPERTY SUMMARY

ENERGY STAR RATED GLAZING OPTIONS ARE HIGHLIGHTED IN YELLOW.

Glass Composition	U-factor	Solar Heat Gain Coefficient (SHGC)		Gap Fill	LowE (surface#)	Tint
		SHGC (N)	SHGC (S)			
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.85	SHGC (N) 0.48		AIR	VT (N) 0.47	CLEAR
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.85	SHGC (N) 0.38		AIR	VT (N) 0.43	GREEN
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.85	SHGC (N) 0.40		AIR	VT (N) 0.35	BRONZE
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.85	SHGC (N) 0.37		AIR	VT (N) 0.31	GRAY
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.78	SHGC (N) 0.18		AIR	AFG-AC-23(#2) VT (N) 0.23	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.78	SHGC (N) 0.24		AIR	PPG Solarban z50(#2) VT (N) 0.34	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.77	SHGC (N) 0.27		AIR	Guardian ClimaGuard 71/38(#2) VT (N) 0.40	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.80	SHGC (N) 0.41		AIR	AFG Comfort E2(#2) VT (N) 0.43	LOW-E
3/16"	U-Factor = 1.09	SHGC (N) 0.52			VT (N) 0.51	CLEAR
3/16"	U-Factor = 1.09	SHGC (N) 0.39			VT (N) 0.44	GREEN
3/16"	U-Factor = 1.09	SHGC (N) 0.42			VT (N) 0.33	BRONZE
3/16"	U-Factor = 1.09	SHGC (N) 0.39			VT (N) 0.29	GRAY
1/4"	U-Factor = 1.09	SHGC (N) 0.51			VT (N) 0.51	CLEAR
1/4"	U-Factor = 1.09	SHGC (N) 0.37			VT (N) 0.43	GREEN
1/4"	U-Factor = 1.09	SHGC (N) 0.40			VT (N) 0.30	BRONZE
1/4"	U-Factor = 1.09	SHGC (N) 0.37			VT (N) 0.25	GRAY
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.77	SHGC (N) 0.20		AIR	Cardinal LowE 366 VT (N) 0.37	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.77	SHGC (N) 0.26		AIR	Cardinal LowE 270 VT (N) 0.40	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.77	SHGC (N) 0.20		AIR	Cardinal LowE 240 VT (N) 0.23	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.73	SHGC (N) 0.20		ARGON	Cardinal LowE 366 VT (N) 0.37	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.73	SHGC (N) 0.25		ARGON	Cardinal LowE 270 VT (N) 0.40	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.74	SHGC (N) 0.19		ARGON	Cardinal LowE 240 VT (N) 0.23	LOW-E

LAWSON 2200 IMPACT FRENCH DOOR THERMAL PROPERTY SUMMARY

ENERGY STAR RATED GLAZING OPTIONS ARE HIGHLIGHTED IN YELLOW.

Glass Composition	U-factor	Solar Heat Gain Coefficient (SHGC)		Gap Fill	LowE (surface#)	Tint
Impact 1/8" - .09 lami - 1/8"	U-Factor = 1.06	SHGC (N)	0.48		VT (N) 0.50	CLEAR
Impact 1/8" - .09 lami - 1/8"	U-Factor = 1.06	SHGC (N)	0.39		VT (N) 0.29	BRONZE
Impact 1/8" - .09 lami - 1/8"	U-Factor = 1.06	SHGC (N)	0.38		VT (N) 0.25	GRAY
Impact Insulated 1/8" - 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.76	SHGC (N)	0.20	AIR	Cardinal LowE 366 VT (N) 0.36	LOW-E
Impact Insulated 1/8" - 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.77	SHGC (N)	0.25	AIR	Cardinal LowE 270 VT (N) 0.39	LOW-E
Impact Insulated 1/8" - 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.77	SHGC (N)	0.19	AIR	Cardinal LowE 240 VT (N) 0.22	LOW-E
Impact Insulated 1/8" - 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.73	SHGC (N)	0.20	ARGON	Cardinal LowE 366 VT (N) 0.36	LOW-E
Impact Insulated 1/8" - 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.73	SHGC (N)	0.25	ARGON	Cardinal LowE 270 VT (N) 0.39	LOW-E
Impact Insulated 1/8" - 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.73	SHGC (N)	0.19	ARGON	Cardinal LowE 240 VT (N) 0.22	LOW-E

LAWSON 3000 NON-IMPACT CASEMENT WINDOW THERMAL PROPERTY SUMMARY

ENERGY STAR RATED GLAZING OPTIONS ARE HIGHLIGHTED IN YELLOW.

Glass Composition	Pane Thickness 1	Solar Heat Gain Coefficient (SHGC)	Gap Fill	LowE (surface#)	Tint
	U-factor				
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.80	SHGC (N) = 0.55	AIR	VT (N) = 0.56	CLEAR
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.80	SHGC (N) = 0.43	AIR	VT (N) = 0.51	GREEN
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.80	SHGC (N) = 0.45	AIR	VT (N) = 0.41	BRONZE
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.80	SHGC (N) = 0.42	AIR	VT (N) = 0.37	GRAY
5/8" Insulated 3/16" - 1/4" air" - 3/16"	U-Factor = 0.80	SHGC (N) = 0.52	AIR	VT (N) = 0.55	CLEAR
5/8" Insulated 3/16" - 1/4" air" - 3/16"	U-Factor = 0.80	SHGC (N) = 0.37	AIR	VT (N) = 0.48	GREEN
5/8" Insulated 3/16" - 1/4" air" - 3/16"	U-Factor = 0.80	SHGC (N) = 0.40	AIR	VT (N) = 0.36	BRONZE
5/8" Insulated 3/16" - 1/4" air" - 3/16"	U-Factor = 0.80	SHGC (N) = 0.37	AIR	VT (N) = 0.31	GRAY
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.72	SHGC (N) = 0.19	AIR	AFG-AC-23(#2) VT (N) = 0.27	LOW-E
5/8" Insulated 3/16" - 1/4" air" - 3/16"	U-Factor = 0.72	SHGC (N) = 0.19	AIR	AFG-AC-23(#2) VT (N) = 0.26	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.72	SHGC (N) = 0.27	AIR	PPG Solarban z50(#2) VT (N) = 0.41	LOW-E
5/8" Insulated 3/16" - 1/4" air" - 3/16"	U-Factor = 0.72	SHGC (N) = 0.25	AIR	PPG Solarban z50(#2) VT (N) = 0.35	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.72	SHGC (N) = 0.29	AIR	Guardian ClimaGuard 71/38(#2) VT (N) = 0.48	LOW-E
5/8" Insulated 3/16" - 1/4" air" - 3/16"	U-Factor = 0.72	SHGC (N) = 0.29	AIR	Guardian ClimaGuard 71/38(#2) VT (N) = 0.47	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.74	SHGC (N) = 0.47	AIR	AFG Comfort E2(#2) VT (N) = 0.51	LOW-E
5/8" Insulated 3/16" - 1/4" air" - 3/16"	U-Factor = 0.74	SHGC (N) = 0.45	AIR	AFG Comfort E2(#2) VT (N) = 0.51	LOW-E
DSB	U-Factor = 1.11	SHGC (N) = 0.61		VT (N) = 0.61	CLEAR
DSB	U-Factor = 1.11	SHGC (N) = 0.49		VT (N) = 0.56	GREEN
DSB	U-Factor = 1.11	SHGC (N) = 0.51		VT (N) = 0.45	BRONZE
DSB	U-Factor = 1.11	SHGC (N) = 0.48		VT (N) = 0.41	GRAY
3/16"	U-Factor = 1.11	SHGC (N) = 0.59		VT (N) = 0.61	CLEAR
3/16"	U-Factor = 1.11	SHGC (N) = 0.44		VT (N) = 0.53	GREEN
3/16"	U-Factor = 1.11	SHGC (N) = 0.47		VT (N) = 0.40	BRONZE
3/16"	U-Factor = 1.11	SHGC (N) = 0.44		VT (N) = 0.34	GRAY
1/4"	U-Factor = 1.11	SHGC (N) = 0.58		VT (N) = 0.60	CLEAR
1/4"	U-Factor = 1.11	SHGC (N) = 0.42		VT (N) = 0.51	GREEN
1/4"	U-Factor = 1.11	SHGC (N) = 0.45		VT (N) = 0.36	BRONZE
1/4"	U-Factor = 1.11	SHGC (N) = 0.41		VT (N) = 0.30	GRAY
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.71	SHGC (N) = 0.22	AIR	Cardinal LowE 366 VT (N) = 0.44	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.71	SHGC (N) = 0.28	AIR	Cardinal LowE 270 VT (N) = 0.43	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.71	SHGC (N) = 0.21	AIR	Cardinal LowE 240 VT (N) = 0.47	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.66	SHGC (N) = 0.21	ARGON	Cardinal LowE 366 VT (N) = 0.44	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.67	SHGC (N) = 0.28	ARGON	Cardinal LowE 270 VT (N) = 0.47	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.67	SHGC (N) = 0.20	ARGON	Cardinal LowE 240 VT (N) = 0.27	LOW-E

LAWSON 3200 IMPACT CASEMENT WINDOW THERMAL PROPERTY SUMMARY

ENERGY STAR RATED GLAZING OPTIONS ARE HIGHLIGHTED IN YELLOW.

Glass Composition	Pane Thickness 1		Gap Fill	LowE (surface#)	Tint
	U-factor	Solar Heat Gain Coefficient (SHGC)		Visible Transmittance (VT)	
Impact 1/8" - .09 lami - 1/8"	U-Factor = 1.06	SHGC (N) 0.55		VT (N) 0.60	CLEAR
Impact 1/8" - .09 lami - 1/8"	U-Factor = 1.06	SHGC (N) 0.44		VT (N) 0.34	BRONZE
Impact 1/8" - .09 lami - 1/8"	U-Factor = 1.06	SHGC (N) 0.43		VT (N) 0.30	GRAY
Impact 3/16" - .09 lami - 3/16"	U-Factor = 1.04	SHGC (N) 0.52		VT (N) 0.59	CLEAR
Impact 3/16" - .09 lami - 3/16"	U-Factor = 1.04	SHGC (N) 0.42		VT (N) 0.33	BRONZE
Impact 3/16" - .09 lami - 3/16"	U-Factor = 1.04	SHGC (N) 0.41		VT (N) 0.29	GRAY
Impact Insulated 1/8"- 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.70	SHGC (N) 0.21	AIR	Cardinal LowE 366 VT (N) 0.43	LOW-E
Impact Insulated 1/8"- 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.70	SHGC (N) 0.27	AIR	Cardinal LowE 270 VT (N) 0.46	LOW-E
Impact Insulated 1/8"- 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.70	SHGC (N) 0.20	AIR	Cardinal LowE 240 VT (N) 0.26	LOW-E
Impact Insulated 1/8"- 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.66	SHGC (N) 0.21	ARGON	Cardinal LowE 366 VT (N) 0.43	LOW-E
Impact Insulated 1/8"- 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.66	SHGC (N) 0.27	ARGON	Cardinal LowE 270 VT (N) 0.46	LOW-E
Impact Insulated 1/8"- 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.66	SHGC (N) 0.20	ARGON	Cardinal LowE 240 VT (N) 0.26	LOW-E

LAWSON 4000/6000 NON-IMPACT FIXED LITES THERMAL PROPERTY SUMMARY

ENERGY STAR RATED GLAZING OPTIONS ARE HIGHLIGHTED IN YELLOW.

Glass Composition	Pane Thickness I	Solar Heat Gain Coefficient (SHGC)		Gap Fill	LowE (surface#)	Tint
	U-factor	SHGC (N)		Visible Transmittance (VT)		
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.66	SHGC (N)	0.73	AIR	VT (N) 0.77	CLEAR
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.66	SHGC (N)	0.56	AIR	VT (N) 0.70	GREEN
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.66	SHGC (N)	0.59	AIR	VT (N) 0.57	BRONZE
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.66	SHGC (N)	0.55	AIR	VT (N) 0.51	GRAY
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.54	SHGC (N)	0.24	AIR	AFG-AC-23(#2) VT (N) 0.37	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.54	SHGC (N)	0.34	AIR	PPG Solarban z50(#2) VT (N) 0.56	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.54	SHGC (N)	0.38	AIR	Guardian ClimaGuard 71/38(#2) VT (N) 0.66	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.57	SHGC (N)	0.62	AIR	AFG Comfort E2(#2) VT (N) 0.70	LOW-E
DSB	U-Factor = 1.09	SHGC (N)	0.81		VT (N) 0.84	CLEAR
DSB	U-Factor = 1.09	SHGC (N)	0.65		VT (N) 0.77	GREEN
DSB	U-Factor = 1.09	SHGC (N)	0.68		VT (N) 0.62	BRONZE
DSB	U-Factor = 1.09	SHGC (N)	0.64		VT (N) 0.56	GRAY
3/16"	U-Factor = 1.09	SHGC (N)	0.79		VT (N) 0.83	CLEAR
3/16"	U-Factor = 1.09	SHGC (N)	0.59		VT (N) 0.73	GREEN
3/16"	U-Factor = 1.09	SHGC (N)	0.62		VT (N) 0.54	BRONZE
3/16"	U-Factor = 1.09	SHGC (N)	0.58		VT (N) 0.47	GRAY
1/4"	U-Factor = 1.09	SHGC (N)	0.77		VT (N) 0.83	CLEAR
1/4"	U-Factor = 1.09	SHGC (N)	0.56		VT (N) 0.70	GREEN
1/4"	U-Factor = 1.09	SHGC (N)	0.59		VT (N) 0.49	BRONZE
1/4"	U-Factor = 1.09	SHGC (N)	0.54		VT (N) 0.41	GRAY
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.53	SHGC (N)	0.27	AIR	Cardinal LowE 366 VT (N) 0.60	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.54	SHGC (N)	0.36	AIR	Cardinal LowE 270 VT (N) 0.65	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.54	SHGC (N)	0.26	AIR	Cardinal LowE 240 VT (N) 0.37	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.47	SHGC (N)	0.27	ARGON	Cardinal LowE 366 VT (N) 0.60	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.47	SHGC (N)	0.35	ARGON	Cardinal LowE 270 VT (N) 0.65	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.48	SHGC (N)	0.25	ARGON	Cardinal LowE 240 VT (N) 0.37	LOW-E

LAWSON 4200/6200 IMPACT FIXED LITES THERMAL PROPERTY SUMMARY

ENERGY STAR RATED GLAZING OPTIONS ARE HIGHLIGHTED IN YELLOW.

Glass Composition	Pane Thickness I		Gap Fill	LowE (surface#)	Tint
	U-factor	Solar Heat Gain Coefficient (SHGC)		Visible Transmittance (VT)	
Impact 1/8 - .09 lami - 1/8"	U-Factor = 1.03	SHGC (N) 0.72		VT (N) 0.81	CLEAR
Impact 1/8 - .09 lami - 1/8"	U-Factor = 1.03	SHGC (N) 0.57		VT (N) 0.46	BRONZE
Impact 1/8 - .09 lami - 1/8"	U-Factor = 1.03	SHGC (N) 0.56		VT (N) 0.41	GRAY
Impact 3/16 - .09 lami - 3/16"	U-Factor = 1.01	SHGC (N) 0.68		VT (N) 0.79	CLEAR
Impact 3/16 - .09 lami - 3/16"	U-Factor = 1.01	SHGC (N) 0.54		VT (N) 0.45	BRONZE
Impact 3/16 - .09 lami - 3/16"	U-Factor = 1.01	SHGC (N) 0.53		VT (N) 0.40	GRAY
Impact Insulated 1/8"- 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.53	SHGC (N) 0.27	AIR	Cardinal LowE 366 VT (N) 0.58	LOW-E
Impact Insulated 1/8"- 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.53	SHGC (N) 0.35	AIR	Cardinal LowE 270 VT (N) 0.63	LOW-E
Impact Insulated 1/8"- 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.54	SHGC (N) 0.25	AIR	Cardinal LowE 240 VT (N) 0.36	LOW-E
Impact Insulated 1/8"- 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.47	SHGC (N) 0.26	ARGON	Cardinal LowE 366 VT (N) 0.58	LOW-E
Impact Insulated 1/8"- 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.47	SHGC (N) 0.34	ARGON	Cardinal LowE 270 VT (N) 0.63	LOW-E
Impact Insulated 1/8"- 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.48	SHGC (N) 0.24	ARGON	Cardinal LowE 240 VT (N) 0.36	LOW-E

LAWSON 7500/7600 NON-IMPACT SINGLE HUNG WINDOW THERMAL PROPERTY SUMMARY

ENERGY STAR RATED GLAZING OPTIONS ARE HIGHLIGHTED IN YELLOW.

Glass Composition	Pane Thickness 1	Solar Heat Gain Coefficient (SHGC)		Gap Fill	LowE (surface#)	
	U-factor			Visible Transmittance (VT)		
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.75	SHGC (N)	0.66	AIR	VT (N) 0.69	CLEAR
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.75	SHGC (N)	0.51	AIR	VT (N) 0.63	GREEN
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.75	SHGC (N)	0.54	AIR	VT (N) 0.51	BRONZE
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.75	SHGC (N)	0.50	AIR	VT (N) 0.46	GRAY
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.64	SHGC (N)	0.22	AIR	AFG-AC-23(#2) VT (N) 0.33	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.64	SHGC (N)	0.32	AIR	PPG Solarban z50(#2) VT (N) 0.50	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.64	SHGC (N)	0.35	AIR	Guardian ClimaGuard 71/38(#2) VT (N) 0.59	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.67	SHGC (N)	0.56	AIR	AFG Comfort E2(#2) VT (N) 0.63	LOW-E
DSB	U-Factor = 1.13	SHGC (N)	0.74		VT (N) 0.75	CLEAR
DSB	U-Factor = 1.13	SHGC (N)	0.59		VT (N) 0.69	GREEN
DSB	U-Factor = 1.13	SHGC (N)	0.62		VT (N) 0.56	BRONZE
DSB	U-Factor = 1.13	SHGC (N)	0.58		VT (N) 0.50	GRAY
3/16"	U-Factor = 1.13	SHGC (N)	0.72		VT (N) 0.75	CLEAR
3/16"	U-Factor = 1.13	SHGC (N)	0.53		VT (N) 0.65	GREEN
3/16"	U-Factor = 1.13	SHGC (N)	0.57		VT (N) 0.49	BRONZE
3/16"	U-Factor = 1.13	SHGC (N)	0.53		VT (N) 0.42	GRAY
1/4"	U-Factor = 1.13	SHGC (N) =	0.70		VT (N) 0.74	CLEAR
1/4"	U-Factor = 1.13	SHGC (N) =	0.51		VT (N) 0.63	GREEN
1/4"	U-Factor = 1.13	SHGC (N) =	0.54		VT (N) 0.44	BRONZE
1/4"	U-Factor = 1.13	SHGC (N) =	0.49		VT (N) 0.37	GRAY
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.63	SHGC (N)	0.25	AIR	Cardinal LowE 366 VT (N) 0.54	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.63	SHGC (N)	0.33	AIR	Cardinal LowE 270 VT (N) 0.59	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.64	SHGC (N)	0.24	AIR	Cardinal LowE 240 VT (N) 0.33	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.58	SHGC (N)	0.25	ARGON	Cardinal LowE 366 VT (N) 0.54	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.58	SHGC (N)	0.33	ARGON	Cardinal LowE 270 VT (N) 0.59	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	U-Factor = 0.58	SHGC (N)	0.23	ARGON	Cardinal LowE 240 VT (N) 0.33	LOW-E

LAWSON 7700/7800 IMPACT SINGLE HUNG WINDOW THERMAL PROPERTY SUMMARY

ENERGY STAR RATED GLAZING OPTIONS ARE HIGHLIGHTED IN YELLOW.

Glass Composition	Pane Thickness 1	Solar Heat Gain Coefficient (SHGC)		Gap Fill	LowE (surface#)	Tint
	U-factor	SHGC (N)	SHGC (N)		Visible Transmittance (VT)	
Impact 1/8 - .09 lami - 1/8"	0.299 U-Factor = 1.09	SHGC (N) 0.64			VT (N) 0.71	CLEAR
Impact 1/8 - .09 lami - 1/8"	0.354 U-Factor = 1.09	SHGC (N) 0.51			VT (N) 0.41	BRONZE
Impact 1/8 - .09 lami - 1/8"	0.366 U-Factor = 1.09	SHGC (N) 0.50			VT (N) 0.36	GRAY
Impact Insulated 1/8"- 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.65	SHGC (N) 0.24		AIR	Cardinal LowE 366 VT (N) 0.51	LOW-E
Impact Insulated 1/8"- 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.65	SHGC (N) 0.31		AIR	Cardinal LowE 270 VT (N) 0.55	LOW-E
Impact Insulated 1/8"- 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.66	SHGC (N) 0.23		AIR	Cardinal LowE 240 VT (N) 0.32	LOW-E
Impact Insulated 1/8"- 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.60	SHGC (N) 0.24		ARGON	Cardinal LowE 366 VT (N) 0.51	LOW-E
Impact Insulated 1/8"- 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.61	SHGC (N) 0.31		ARGON	Cardinal LowE 270 VT (N) 0.55	LOW-E
Impact Insulated 1/8"- 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.61	SHGC (N) 0.22		ARGON	Cardinal LowE 240 VT (N) 0.32	LOW-E

LAWSON NON-IMPACT 8500/8600 HORIZONTAL ROLLING WINDOW THERMAL PROPERTY SUMMAR

ENERGY STAR RATED GLAZING OPTIONS ARE HIGHLIGHTED IN YELLOW.

Glass Composition	Pane Thickness 1		Gap Fill	LowE (surface#)	Tint
	U-factor	Solar Heat Gain Coefficient (SHGC)		Visible Transmittance (VT)	
DSB Insulated 1/8" - 1/4" air" - 1/8"	0.118 U-Factor = 0.78	SHGC (N) = 0.63	AIR	VT (N) 0.65	CLEAR
DSB Insulated 1/8" - 1/4" air" - 1/8"	0.118 U-Factor = 0.78	SHGC (N) = 0.50	AIR	VT (N) 0.59	GREEN
DSB Insulated 1/8" - 1/4" air" - 1/8"	0.130 U-Factor = 0.78	SHGC (N) = 0.52	AIR	VT (N) 0.48	BRONZE
DSB Insulated 1/8" - 1/4" air" - 1/8"	0.130 U-Factor = 0.78	SHGC (N) = 0.48	AIR	VT (N) 0.43	GRAY
DSB Insulated 1/8" - 1/4" air" - 1/8"	0.122 U-Factor = 0.68	SHGC (N) = 0.22	AIR	AFG-AC-23(#2) VT (N) 0.31	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	0.130 U-Factor = 0.67	SHGC (N) = 0.31	AIR	PPG Solarban z50(#2) VT (N) 0.47	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	0.118 U-Factor = 0.67	SHGC (N) = 0.34	AIR	Guardian ClimaGuard 71/38(#2) VT (N) 0.56	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	0.122 U-Factor = 0.71	SHGC (N) = 0.54	AIR	AFG Comfort E2(#2) VT (N) 0.60	LOW-E
DSB	0.118 U-Factor = 1.17	SHGC (N) = 0.71		VT (N) 0.71	CLEAR
DSB	0.118 U-Factor = 1.17	SHGC (N) = 0.57		VT (N) 0.65	GREEN
DSB	0.130 U-Factor = 1.17	SHGC (N) = 0.59		VT (N) 0.53	BRONZE
DSB	0.130 U-Factor = 1.17	SHGC (N) = 0.56		VT (N) 0.47	GRAY
3/16"	0.189 U-Factor = 1.17	SHGC (N) = 0.69		VT (N) 0.71	CLEAR
3/16"	0.181 U-Factor = 1.17	SHGC (N) = 0.51		VT (N) 0.62	GREEN
3/16"	0.185 U-Factor = 1.17	SHGC (N) = 0.55		VT (N) 0.46	BRONZE
3/16"	0.185 U-Factor = 1.17	SHGC (N) = 0.51		VT (N) 0.40	GRAY
1/4"	0.224 U-Factor = 1.17	SHGC (N) = 0.67		VT (N) 0.70	CLEAR
1/4"	0.220 U-Factor = 1.17	SHGC (N) = 0.49		VT (N) 0.60	GREEN
1/4"	0.224 U-Factor = 1.17	SHGC (N) = 0.52		VT (N) 0.42	BRONZE
1/4"	0.224 U-Factor = 1.17	SHGC (N) = 0.48		VT (N) 0.35	GRAY
DSB Insulated 1/8" - 1/4" air" - 1/8"	0.67 U-Factor = 0.67	SHGC (N) 0.25	AIR	Cardinal LowE 366 VT (N) 0.51	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	0.67 U-Factor = 0.67	SHGC (N) 0.32	AIR	Cardinal LowE 270 VT (N) 0.55	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	0.67 U-Factor = 0.67	SHGC (N) 0.24	AIR	Cardinal LowE 240 VT (N) 0.32	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	0.61 U-Factor = 0.61	SHGC (N) 0.24	ARGON	Cardinal LowE 366 VT (N) 0.51	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	0.61 U-Factor = 0.61	SHGC (N) 0.32	ARGON	Cardinal LowE 270 VT (N) 0.55	LOW-E
DSB Insulated 1/8" - 1/4" air" - 1/8"	0.62 U-Factor = 0.62	SHGC (N) 0.23	ARGON	Cardinal LowE 240 VT (N) 0.32	LOW-E

LAWSON 8700/8800 IMPACT HORIZONTAL ROLLING WINDOW THERMAL PROPERTY

ENERGY STAR RATED GLAZING OPTIONS ARE HIGHLIGHTED IN YELLOW.

Glass Composition	Pane Thickness 1		Gap Fill	LowE (surface#)	Tint
	U-factor	Solar Heat Gain Coefficient (SHGC)		Visible Transmittance (VT)	
Impact 1/8" - .09 lami - 1/8"	0.299 U-Factor = 1.11	SHGC (N) = 0.63		VT (N) 0.70	CLEAR
Impact 1/8" - .09 lami - 1/8"	0.354 U-Factor = 1.11	SHGC (N) = 0.50		VT (N) 0.40	BRONZE
Impact 1/8" - .09 lami - 1/8"	0.366 U-Factor = 1.11	SHGC (N) = 0.49		VT (N) 0.35	GRAY
Impact Insulated 1/8"- 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.67	SHGC (N) 0.24	AIR	Cardinal LowE 366 VT (N) 0.50	LOW-E
Impact Insulated 1/8"- 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.67	SHGC (N) 0.31	AIR	Cardinal LowE 270 VT (N) 0.54	LOW-E
Impact Insulated 1/8"- 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.68	SHGC (N) 0.23	AIR	Cardinal LowE 240 VT (N) 0.31	LOW-E
Impact Insulated 1/8"- 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.62	SHGC (N) 0.23	ARGON	Cardinal LowE 366 VT (N) 0.50	LOW-E
Impact Insulated 1/8"- 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.62	SHGC (N) 0.31	ARGON	Cardinal LowE 270 VT (N) 0.54	LOW-E
Impact Insulated 1/8"- 1/4" Gap - 1/8" - .09 lami - 1/8"	U-Factor = 0.63	SHGC (N) 0.22	ARGON	Cardinal LowE 240 VT (N) 0.31	LOW-E

LAWSON 9000 SLIDING GLASS DOOR THERMAL PROPERTY SUMMARY

ENERGY STAR RATED GLAZING OPTIONS ARE HIGHLIGHTED IN YELLOW.

Glass Composition	Pane Thickness 1	Solar Heat Gain Coefficient (SHGC)		Gap Fill	LowE (surface#)	Tint
		U-factor				
5/8" Insulated 3/16" - 1/4" air" - 3/16"	0.189 U-Factor = 0.78	SHGC (N)	0.58	AIR	VT (N) 0.62	CLEAR
5/8" Insulated 3/16" - 1/4" air" - 3/16"	0.181 U-Factor = 0.78	SHGC (N)	0.42	AIR	VT (N) 0.54	GREEN
5/8" Insulated 3/16" - 1/4" air" - 3/16"	0.185 U-Factor = 0.78	SHGC (N)	0.44	AIR	VT (N) 0.41	BRONZE
5/8" Insulated 3/16" - 1/4" air" - 3/16"	0.185 U-Factor = 0.78	SHGC (N)	0.41	AIR	VT (N) 0.35	GRAY
5/8" Insulated 3/16" - 1/4" air" - 3/16"	0.197 U-Factor = 0.68	SHGC (N)	0.21	AIR	AFG-AC-23 VT (N) 0.30	LOW-E
5/8" Insulated 3/16" - 1/4" air" - 3/16"	0.224 U-Factor = 0.67	SHGC (N)	0.27	AIR	PPG Solarban z50(#2) VT (N) 0.40	LOW-E
5/8" Insulated 3/16" - 1/4" air" - 3/16"	0.181 U-Factor = 0.67	SHGC (N)	0.32	AIR	Guardian ClimaGuard 71/38(#2) VT (N) 0.54	LOW-E
5/8" Insulated 3/16" - 1/4" air" - 3/16"	0.181 U-Factor = 0.70	SHGC (N)	0.51	AIR	AFG Comfort E2 VT (N) 0.58	LOW-E
3/16"	0.189 U-Factor = 1.14	SHGC (N)	0.66		VT (N) 0.69	CLEAR
3/16"	0.181 U-Factor = 1.14	SHGC (N)	0.50		VT (N) 0.60	GREEN
3/16"	0.185 U-Factor = 1.14	SHGC (N)	0.53		VT (N) 0.45	BRONZE
3/16"	0.185 U-Factor = 1.14	SHGC (N)	0.49		VT (N) 0.39	GRAY
1/4"	0.224 U-Factor = 1.14	SHGC (N)	0.65		VT (N) 0.69	CLEAR
1/4"	0.220 U-Factor = 1.14	SHGC (N)	0.47		VT (N) 0.58	GREEN
1/4"	0.224 U-Factor = 1.14	SHGC (N)	0.50		VT (N) 0.41	BRONZE
1/4"	0.224 U-Factor = 1.14	SHGC (N)	0.46		VT (N) 0.34	GRAY
5/8" Insulated 3/16" - 1/4" air" - 3/16"	U-Factor = 0.67	SHGC (N)	0.24	AIR	Cardinal LowE 366 VT (N) 0.49	LOW-E
5/8" Insulated 3/16" - 1/4" air" - 3/16"	U-Factor = 0.67	SHGC (N)	0.30	AIR	Cardinal LowE 270 VT (N) 0.53	LOW-E
5/8" Insulated 3/16" - 1/4" air" - 3/16"	U-Factor = 0.68	SHGC (N)	0.22	AIR	Cardinal LowE 240 VT (N) 0.30	LOW-E
5/8" Insulated 3/16" - 1/4" air" - 3/16"	U-Factor = 0.62	SHGC (N)	0.23	ARGON	Cardinal LowE 366 VT (N) 0.49	LOW-E
5/8" Insulated 3/16" - 1/4" air" - 3/16"	U-Factor = 0.62	SHGC (N)	0.30	ARGON	Cardinal LowE 270 VT (N) 0.53	LOW-E
5/8" Insulated 3/16" - 1/4" air" - 3/16"	U-Factor = 0.63	SHGC (N)	0.22	ARGON	Cardinal LowE 240 VT (N) 0.30	LOW-E

LAWSON 9200 IMPACT SLIDING GLASS DOOR THERMAL PROPERTY SUMMARY

ENERGY STAR RATED GLAZING OPTIONS ARE HIGHLIGHTED IN YELLOW.

Glass Composition	Pane Thickness 1	Solar Heat Gain Coefficient (SHGC)	Gap Fill	LowE (surface#)	Tint
	U-factor				
Impact 3/16 - .09 lami - 3/16"	0.461 U-Factor = 1.08	SHGC (N) 0.56		VT (N) 0.65	CLEAR
Impact 3/16 - .09 lami - 3/16"	0.547 U-Factor = 1.08	SHGC (N) 0.45		VT (N) 0.37	BRONZE
Impact 3/16 - .09 lami - 3/16"	0.563 U-Factor = 1.08	SHGC (N) 0.45		VT (N) 0.32	GRAY
Impact 3/16 - .09 lami - 3/16"	0.461 U-Factor = 0.78	SHGC (N) 0.27		Cardinal LowE 366 VT (N) 0.52	LOW-E
Impact 3/16 - .09 lami - 3/16"	0.547 U-Factor = 0.78	SHGC (N) 0.32		Cardinal LowE 270 VT (N) 0.56	LOW-E
Impact 3/16 - .09 lami - 3/16"	0.563 U-Factor = 0.79	SHGC (N) 0.25		Cardinal LowE 240 VT (N) 0.32	LOW-E