



RENAISSANCE CONSERVATORIES GLASS PERFORMANCE FOR TYPICAL GLAZING COMBINATIONS

Manufacturer	Product Trade Name (Coated Surface No.)	Type of Low E Coating	Substrate Outboard/ Inboard	Visible light			Ultraviolet	Solar			U-Factor / U-Value (Imperial)				Shading Coef- ficient	Solar Heat Gain Coef- ficient	Relative Heat Gain	Light to Solar Gain (LSG)
				Trans %	Reflectance		Trans %	Trans %	Refflect- ance Outside %	Winter Night-time Air Fill	Winter Night-time Argon Fill	Summer Daytime Air Fill	Summer Daytime Argon Fill					
					Outside %	Inside %												
ROOF GLASS All performance figures are approximate. (* Inboard lite is clear laminated glass)																		
	Clear (non coated)		Clear/Clear*	79	15	15	<1	56	11	0.46	0.44	0.49	0.47	0.79	0.68	165	1.16	
PPG	Sungate 500 Low-E (#2)	Hard	Clear/Clear*	73	16	17	<1	49	13	0.34	0.30	0.34	0.30	0.70	0.61	145	1.20	
PPG	Sungate 500 Low-E (#2 & #3)	Hard	Clear/Clear*	68	18	18	<1	44	15	0.32	0.27	0.31	0.26	0.67	0.58	139	1.17	
Guardian	SunGuard SuperNeutral 68 Low-E (#2)	Soft	Clear/Clear*	67	11	12	<1	31	32	0.29	0.24	0.27	0.22	0.43	0.37	90	1.80	
Guardian	SunGuard SuperNeutral 68 Low-E (#2 & #3)	Soft	Clear/Clear*	56	9	8	<1	23	32	0.28	0.23	0.26	0.21	0.40	0.34	83	1.63	
Guardian	SunGuard SuperNeutral 54 Low-E (#2)	Soft	Clear/Clear*	52	13	17	<1	21	33	0.28	0.23	0.27	0.22	0.32	0.28	67	1.86	
Guardian	SunGuard SuperNeutral 54 (#2) + SN 68 (#3)	Soft	Clear/Clear*	44	12	12	<1	17	33	0.28	0.23	0.26	0.21	0.30	0.26	64	1.69	
Guardian/PPG	SunGuard SuperNeutral 54 (#2) + Sungate 500 (#3)	Soft/Hard	Clear/Clear*	48	14	18	<1	19	34	0.28	0.23	0.27	0.22	0.31	0.27	65	1.78	
Pilkington	Blue-Green Eclipse Adv. (#2)		Reflect/Clear*	51	21	29	<1	28	12	0.34	0.30	0.34	0.30	0.43	0.38	91	1.36	
Pilkington	B-G Eclipse Adv. (#2) + Low-E (#3)	Hard	Reflect/Clear*	48	22	29	<1	25	13	0.31	0.26	0.31	0.27	0.41	0.35	86	1.36	
Pilkington	B-G Eclipse Adv. (#2) + Low-E (#3)	Soft	Reflect/Clear*	42	20	0	<1	17	14	0.24	0.27	0.21	0.33	0.29	0.29	70	1.47	
PPG	Solarcool Bronze (#2)		Reflect/Clear*	19	14	37	<1	19	12	0.46	0.44	0.49	0.47	0.38	0.33	83	0.58	
PPG	Solarcool Bronze (#2) + Low-E (#3)	Hard	Reflect/Clear*	18	14	36	<1	16	13	0.34	0.30	0.34	0.31	0.33	0.29	72	0.63	
PPG	Solarcool Bronze (#2) + Low-E (#3)	Soft	Reflect/Clear*	15	14	25	<1	8	18	0.28	0.24	0.27	0.22	0.21	0.18	45	0.85	
PPG	Solarcool Gray (#2)		Reflect/Clear*	16	11	37	<1	16	10	0.46	0.44	0.49	0.47	0.35	0.33	77	0.53	
PPG	Solarcool Gray (#2) + Low-E (#3)	Hard	Reflect/Clear*	15	11	36	<1	13	10	0.34	0.30	0.34	0.31	0.30	0.26	65	0.58	
PPG	Solarcool Gray (#2) + Low-E (#3)	Soft	Reflect/Clear*	14	11	29	<1	7	14	0.29	0.24	0.27	0.22	0.19	0.16	42	0.88	
VERTICAL GLASS All performance figures are approximate.																		
	Clear (non coated)		Clear/Clear	79	15	15	50	61	12	0.47	0.45	0.50	0.48	0.81	0.70	169	1.13	
PPG	Sungate 500 Low-E (#3)	Hard	Clear/Clear	74	17	17	42	52	15	0.35	0.31	0.35	0.31	0.76	0.66	156	1.12	
PPG	Solarban 60 Low-E (#3)	Soft	Clear/Clear	70	12	11	19	33	31	0.29	0.24	0.27	0.22	0.52	0.45	107	1.56	
Guardian	ClimaGuard 71/38 Low-E (#3)	Soft	Clear/Clear	71	10	12	-	36	37	0.40	-	0.41	-	0.46	0.40	98	-	
Guardian	ClimaGuard 55/27 Low-E (#3)	Soft	Clear/Clear	55	12	17	-	24	37	0.40	-	0.41	-	0.34	0.30	73	-	
PPG	SolarBronze Tint (outboard)		Tint/Clear	47	8	13	21	39	7	0.47	0.45	0.50	0.48	0.59	0.51	124	0.92	
PPG	SolarGray Tint (outboard)		Tint/Clear	40	7	13	20	33	7	0.47	0.45	0.50	0.48	0.53	0.45	112	0.89	
SINGLE GLAZED All performances are approximate.																		
	Clear (non coated)		Clear	89	9	9	66	77	7	1.02	NA	0.93	NA	0.94	0.82	201	1.09	
	Clear Laminated (non coated)		Clear	88	8	8	<1	71	7	0.98	NA	0.89	NA	0.89	0.77	191	1.14	
PPG	SolarBronze Tint		Tint	53	6	6	26	50	6	1.02	NA	0.93	NA	0.73	0.63	159	0.84	
PPG	SolarGray Tint		Tint	44	6	6	24	42	5	1.02	NA	0.93	NA	0.67	0.58	147	0.76	
Southwall	XIR Laminated 72-41		Clear	72	8	8	0.02	34	34	1.07	NA	NA	NA	0.48	0.41	110	NA	
Southwall	XIR Laminated 72-41 (Low "E")	Hard	Clear	66	10	11	0.02	33	33	0.75	NA	NA	NA	0.41	0.35	92	NA	
Southwall	XIR Laminated 72-41 (Bronze)		Tint	53	8	7	0.02	34	34	1.07	NA	NA	NA	0.41	0.35	97	NA	
Southwall	XIR Laminated 72-41 (Gray)		Tint	48	7	7	0.02	32	32	1.07	NA	NA	NA	0.40	0.35	96	NA	