



# PPG ARCHITECTURAL GLASS PERFORMANCE

Comparisons for One-Inch Insulating Glass Units



PPG is the first glass manufacturer in the U.S. to have its entire collection of architectural glasses **Cradle to Cradle Certified<sup>SM</sup>**. To learn what that means for architects seeking to design more sustainable buildings or to earn LEED certification for their projects, visit [www.ppgideascape.com/C2C](http://www.ppgideascape.com/C2C).

Cradle to Cradle<sup>SM</sup> is a certification mark of MBOC, LLC.



# One-Inch Insulating Glass Unit Comparisons with PPG Glass

Insulating Vision Unit Performance Comparisons 1-inch (25mm) units with 1/2-inch (13mm) airspace and two 1/4-inch (6mm) lites; interior lite clear unless otherwise noted													
Outdoor Lite: Coating if Any (Surface) Glass	Glass Type +	Indoor Lite: Coating if Any (Surface) Glass	Transmittance <sup>2</sup>			Exterior Reflectance <sup>2</sup>		(BTU/hr•ft <sup>2</sup> •F) NFRC U-Value <sup>3</sup>		U-Value <sup>4</sup> EN 673 (W/m <sup>2</sup> •°C)	Shading Coeffi- cient <sup>5</sup>	Solar Heat Gain Coeffi- cient <sup>6</sup>	Light to Solar Gain (LSG) <sup>7</sup>
			Ultra- violet %	Visible %	Total Solar Energy %	Visible Light %	Total Solar Energy %	Winter Night- time	Summer Day- time				
<b>Uncoated</b>													
	CLEAR Glass + Clear		50	79	61	15	12	0.47	0.50	2.8	0.81	0.70	1.13
	STARPHIRE® + STARPHIRE		77	84	80	15	14	0.47	0.50	2.8	0.94	0.82	1.02
	SOLEXIA® + Clear		25	69	39	13	8	0.47	0.50	2.8	0.57	0.50	1.38
	ATLANTICA® + Clear		13	60	29	11	6	0.47	0.50	2.8	0.47	0.41	1.46
	AZURIA® + Clear		34	61	28	11	7	0.47	0.50	2.8	0.45	0.39	1.56
	PACIFICA® + Clear		12	38	23	7	6	0.47	0.50	2.8	0.41	0.36	1.06
	SOLARBLUE® + Clear		25	50	37	9	7	0.47	0.50	2.8	0.56	0.49	1.02
	SOLARBRONZE® + Clear		21	47	39	8	7	0.47	0.50	2.8	0.59	0.51	0.92
	SOLARGRAY® + Clear		20	40	33	7	7	0.47	0.50	2.8	0.53	0.46	0.87
	GRAYLITE® II + Clear		2	8	7	4	4	0.47	0.50	2.8	0.25	0.22	0.36
<b>Coated</b>													
<b>SUNGATE® 400 Low-E Glass</b>													
	SUNGATE 400 (2) Clear + Clear		28	76	51	14	16	0.32	0.31	1.8	0.69	0.60	1.27
	SUNGATE 400 (2) Starphire + Starphire		39	80	65	14	20	0.32	0.31	1.8	0.78	0.68	1.82
	CLEAR + SUNGATE 400 (3) Clear		28	76	51	14	17	0.32	0.31	1.8	0.73	0.63	1.21
	SOLEXIA + SUNGATE 400 (3) Clear		15	66	33	11	9	0.32	0.31	1.8	0.50	0.44	1.50
	ATLANTICA + SUNGATE 400 (3) Clear		8	58	25	10	7	0.32	0.31	1.8	0.40	0.35	1.66
	AZURIA + SUNGATE 400 (3) Clear		20	59	25	10	7	0.32	0.31	1.8	0.39	0.34	1.74
	PACIFICA + SUNGATE 400 (3) Clear		7	37	19	7	6	0.32	0.31	1.8	0.34	0.30	1.23
	SOLARBLUE + SUNGATE 400 (3) Clear		15	48	31	8	9	0.32	0.31	1.8	0.49	0.42	1.14
	SOLARBRONZE + SUNGATE 400 (3) Clear		12	46	32	8	10	0.32	0.31	1.8	0.50	0.44	1.05
	SOLARGRAY + SUNGATE 400 (3) Clear		12	38	27	7	9	0.32	0.31	1.8	0.44	0.39	0.97
	GRAYLITE II + SUNGATE 400 (3) Clear		1	8	5	4	5	0.32	0.31	1.8	0.17	0.15	0.53
<b>SUNGATE® 500 Low-E Glass</b>													
	SUNGATE 500 (2) + Clear		42	74	52	17	14	0.35	0.35	2.0	0.71	0.62	1.19
	CLEAR + SUNGATE 500 (3) Clear		42	74	52	17	14	0.35	0.35	2.0	0.76	0.66	1.12
	SOLEXIA + SUNGATE 500 (3) Clear		21	64	33	14	9	0.35	0.35	2.0	0.51	0.44	1.42
	ATLANTICA + SUNGATE 500 (3) Clear		11	56	25	12	7	0.35	0.35	2.0	0.41	0.36	1.56
	AZURIA + SUNGATE 500 (3) Clear		29	57	24	12	7	0.35	0.35	2.0	0.40	0.34	1.68
	PACIFICA + SUNGATE 500 (3) Clear		10	35	19	7	6	0.35	0.35	2.0	0.35	0.31	1.13
	SOLARBLUE + SUNGATE 500 (3) Clear		21	46	32	10	9	0.35	0.35	2.0	0.51	0.44	1.05
	SOLARBRONZE + SUNGATE 500 (3) Clear		18	44	33	9	9	0.35	0.35	2.0	0.53	0.46	0.96
	SOLARGRAY + SUNGATE 500 (3) Clear		17	37	28	8	8	0.35	0.35	2.0	0.47	0.41	0.90
	GRAYLITE II + SUNGATE 500 (3) Clear		1	7	5	4	4	0.35	0.35	2.0	0.19	0.17	0.41
<b>SUNGATE® 600 Low-E Glass</b>													
	CLEAR + SUNGATE 600 (3) Clear		38	71	48	17	15	0.33	0.32	1.8	0.75	0.65	1.09
	SUNGATE 600 (2) Clear + Clear		38	71	48	16	13	0.33	0.32	1.8	0.66	0.57	1.25
	SOLEXIA + SUNGATE 600 (3) Clear		20	62	31	14	9	0.33	0.32	1.8	0.51	0.44	1.41
	ATLANTICA + SUNGATE 600 (3) Clear		10	54	23	12	7	0.33	0.32	1.8	0.40	0.35	1.54
	AZURIA + SUNGATE 600 (3) Clear		26	55	23	12	7	0.33	0.32	1.8	0.39	0.34	1.62
	PACIFICA + SUNGATE 600 (3) Clear		10	34	18	7	6	0.33	0.32	1.8	0.34	0.30	1.13
	SOLARBLUE + SUNGATE 600 (3) Clear		20	45	29	9	9	0.33	0.32	1.8	0.50	0.43	1.05
	SOLARBRONZE + SUNGATE 600 (3) Clear		16	43	30	9	9	0.33	0.32	1.8	0.52	0.45	0.96
	SOLARGRAY + SUNGATE 600 (3) Clear		15	36	25	8	8	0.33	0.32	1.8	0.46	0.40	0.90
	GRAYLITE II + SUNGATE 600 (3) Clear		1	7	5	4	4	0.33	0.32	1.8	0.18	0.16	0.44
<b>SUNGATE® 600 Low-E Glass 4<sup>th</sup> Surface plus other low-e</b>													
	SUNGATE 400 (2) Clear + SUNGATE 600 (4) Clear		22	69	43	15	17	0.25	0.23	1.5	0.63	0.55	1.25
	SOLARBAN 60 (2) Clear + SUNGATE 600 (4) Clear		14	63	29	12	30	0.23	0.21	1.3	0.41	0.36	1.77
	SOLARBAN 70XL (2) <sup>1</sup> + SUNGATE 600 (4) Clear		5	58	22	13	53	0.23	0.20	1.2	0.30	0.26	2.23
	SOLARBAN 67 (2) Clear + SUNGATE 600 (4) Clear		9	48	22	20	34	0.23	0.21	1.3	0.31	0.27	1.78
	SOLARBAN z50 (2) OPTIBLUE + SUNGATE 600 (4) Clear		11	46	23	8	24	0.23	0.21	1.3	0.34	0.29	1.55
	SOLARBAN R100 (2) Clear + SUNGATE 600 (4) Clear		9	37	17	32	41	0.23	0.21	1.3	0.25	0.22	1.73
	SOLARBAN 72 (2) STARPHIRE + SUNGATE 600 (4) Clear		6	62	24	14	53	0.23	0.20	1.3	0.32	0.28	2.21
<b>SOLARBAN® 60 Solar Control Low-E Glass</b>													
	SOLARBAN 60 (2) Clear + Clear		18	70	34	11	28	0.29	0.27	1.6	0.45	0.39	1.79
	SOLARBAN 60 (2) STARPHIRE + STARPHIRE		24	74	39	11	41	0.29	0.27	1.6	0.45	0.41	1.80
	SOLARBAN 60 (2) SOLEXIA + Clear		10	61	25	9	10	0.29	0.27	1.6	0.37	0.32	1.91
	SOLARBAN 60 (2) ATLANTICA + Clear		5	53	20	8	7	0.29	0.27	1.6	0.32	0.27	1.96
	SOLARBAN 60 (2) AZURIA + Clear		13	54	21	8	6	0.29	0.27	1.6	0.32	0.28	1.93
	SOLARBAN 60 (2) PACIFICA + Clear		5	34	15	6	6	0.29	0.27	1.6	0.26	0.22	1.55
	SOLARBAN 60 (2) SOLARBLUE + Clear		10	45	21	7	12	0.29	0.27	1.6	0.33	0.28	1.61
	SOLARBAN 60 (2) SOLARBRONZE + Clear		8	42	21	7	15	0.29	0.27	1.6	0.32	0.28	1.50
	SOLARBAN 60 (2) SOLARGRAY + Clear		8	35	18	6	12	0.29	0.27	1.6	0.29	0.25	1.40
	SOLEXIA + SOLARBAN 60 (3) Clear		10	61	25	10	11	0.29	0.27	1.6	0.42	0.37	1.65
	ATLANTICA + SOLARBAN 60 (3) Clear		5	53	20	9	7	0.29	0.27	1.6	0.36	0.31	1.71
	AZURIA + SOLARBAN 60 (3) Clear		13	54	21	9	7	0.29	0.27	1.6	0.36	0.31	1.74
	PACIFICA + SOLARBAN 60 (3) Clear		5	34	15	6	7	0.29	0.27	1.6	0.29	0.25	1.36
	SOLARBLUE + SOLARBAN 60 (3) Clear		10	45	21	7	13	0.29	0.27	1.6	0.38	0.33	1.36
	SOLARBRONZE + SOLARBAN 60 (3) Clear		8	42	21	7	16	0.29	0.27	1.6	0.37	0.32	1.31
	SOLARGRAY + SOLARBAN 60 (3) Clear		8	35	18	7	13	0.29	0.27	1.6	0.33	0.29	1.21
	GRAYLITE II + SOLARBAN 60 (3) Clear		1	7	4	4	5	0.29	0.27	1.6	0.14	0.13	0.54



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Insulating Vision Unit Performance Comparisons			1-inch (25mm) units with 1/2-inch (13mm) airspace and two 1/4-inch (6mm) lites; interior lite clear unless otherwise noted										
Outdoor Lite: Coating if Any (Surface)	Glass Type +	Indoor Lite: Coating if Any (Surface)	Transmittance <sup>2</sup>			Exterior Reflectance <sup>2</sup>		(BTU/hr·ft <sup>2</sup> ·F) NFRC U-Value <sup>3</sup>		U-Value <sup>4</sup> EN 673 (W/m <sup>2</sup> ·°C)	Shading Coefficient <sup>5</sup>	Solar Heat Gain Coefficient <sup>6</sup>	Light to Solar Gain (LSG) <sup>7</sup>
			Ultra- violet %	Visible %	Total Solar Energy %	Visible Light %	Total Solar Energy %	Winter Night- time	Summer Day- time				
<b>Coated</b>													
<b>SOLARBAN® 67 Solar Control Low-E Glass</b>													
	SOLARBAN 67 (2) CLEAR + Clear		11	54	24	19	34	0.29	0.27	1.6	0.33	0.29	1.86
	SOLARBAN 67 (2) STARPHIRE + STARPHIRE		15	57	28	20	49	0.29	0.27	1.6	0.34	0.30	1.90
	SOLARBAN 67 (2) SOLEXIA + Clear		6	47	19	16	13	0.29	0.27	1.6	0.29	0.25	1.88
	SOLARBAN 67 (2) ATLANTICA + Clear		3	41	15	13	9	0.29	0.27	1.6	0.26	0.22	1.86
	SOLARBAN 67 (2) AZURIA + Clear		8	42	16	13	9	0.29	0.27	1.6	0.26	0.23	1.83
	SOLARBAN 67 (2) OPTIBLUE + Clear		8	39	19	12	27	0.29	0.27	1.6	0.28	0.25	1.56
	SOLARBAN 67 (2) PACIFICA + Clear		3	26	11	8	8	0.29	0.27	1.6	0.21	0.19	1.37
	SOLARBAN 67 (2) SOLARBLUE + Clear		6	34	16	10	15	0.29	0.27	1.6	0.26	0.22	1.55
	SOLARBAN 67 (2) SOLARBRONZE + Clear		5	32	15	10	18	0.29	0.27	1.6	0.25	0.22	1.45
	SOLARBAN 67 (2) SOLARGRAY + Clear		5	27	13	8	14	0.29	0.27	1.6	0.23	0.20	1.35
	ATLANTICA + SOLARBAN 67 (3) Clear		3	41	15	11	8	0.29	0.27	1.6	0.33	0.29	1.41
	AZURIA + SOLARBAN 67 (3) Clear		8	42	16	11	8	0.29	0.27	1.6	0.33	0.29	1.45
	OPTIBLUE + SOLARBAN 67 (3) Clear		8	39	19	10	26	0.29	0.27	1.6	0.39	0.34	1.15
	PACIFICA + SOLARBAN 67 (3) Clear		3	26	11	7	7	0.29	0.27	1.6	0.27	0.23	1.13
	SOLARBLUE + SOLARBAN 67 (3) Clear		6	34	16	9	14	0.29	0.27	1.6	0.34	0.30	1.13
	SOLARBRONZE + SOLARBAN 67 (3) Clear		5	32	15	9	18	0.29	0.27	1.6	0.33	0.29	1.10
	SOLARGRAY + SOLARBAN 67 (3) Clear		5	27	13	8	14	0.29	0.27	1.6	0.30	0.26	1.04
	GRAYLITE II + SOLARBAN 67 (3) Clear		0	5	3	4	5	0.29	0.27	1.6	0.14	0.12	0.42
<b>SOLARBAN® 70XL Solar Control Low-E Glass<sup>1</sup></b>													
	SOLARBAN 70XL (2) + Clear		6	64	25	12	52	0.28	0.26	1.5	0.32	0.27	2.37
	SOLARBAN 70XL (2) SOLEXIA + Clear		4	58	21	10	13	0.28	0.26	1.5	0.31	0.27	2.15
	SOLARBAN 70XL (2) ATLANTICA + Clear		2	51	17	9	8	0.28	0.26	1.5	0.28	0.24	2.13
	SOLARBAN 70XL (2) AZURIA + Clear		5	52	18	9	7	0.28	0.26	1.5	0.29	0.25	2.08
	SOLARBAN 70XL (2) PACIFICA + Clear		2	32	12	6	7	0.28	0.26	1.5	0.22	0.19	1.68
	SOLARBAN 70XL (2) SOLARBLUE + Clear		4	42	17	8	15	0.28	0.26	1.5	0.26	0.23	1.83
	SOLARBAN 70XL (2) SOLARBRONZE + Clear		3	40	15	7	19	0.28	0.26	1.5	0.25	0.21	1.90
	SOLARBAN 70XL (2) SOLARGRAY + Clear		3	34	13	6	15	0.28	0.26	1.5	0.23	0.20	1.70
	SOLEXIA + SOLARBAN 70XL (3)		3	56	20	11	13	0.28	0.26	1.5	0.37	0.32	1.75
	ATLANTICA + SOLARBAN 70XL (3)		2	49	17	10	8	0.28	0.26	1.5	0.32	0.28	1.75
	AZURIA + SOLARBAN 70XL (3)		4	49	17	9	8	0.28	0.26	1.5	0.33	0.29	1.69
	PACIFICA + SOLARBAN 70XL (3)		2	31	12	6	7	0.28	0.26	1.5	0.26	0.22	1.41
	SOLARBLUE + SOLARBAN 70XL (3)		3	40	16	8	16	0.28	0.26	1.5	0.32	0.27	1.48
	SOLARBRONZE + SOLARBAN 70XL (3)		3	38	15	8	20	0.28	0.26	1.5	0.30	0.26	1.46
	SOLARGRAY + SOLARBAN 70XL (3)		2	32	13	7	15	0.28	0.26	1.5	0.27	0.24	1.33
	GRAYLITE II + SOLARBAN 70XL (3)		0	6	3	4	5	0.28	0.26	1.5	0.13	0.11	0.55
<b>SOLARBAN® 72 Solar Control Low-E Glass</b>													
	SOLARBAN 72 (2) STARPHIRE <sup>††</sup>		9	71	28	13	53	0.29	0.27	1.5	0.34	0.30	2.37
<b>SOLARBAN® z50 Solar Control Low-E Glass<sup>†††</sup></b>													
	SOLARBAN z50 (2) OPTIBLUE + Clear		14	51	26	8	23	0.29	0.27	1.6	0.36	0.32	1.59
	SOLARBAN z50 (2) OPTIBLUE + OPTIBLUE		10	37	21	7	22	0.29	0.27	1.6	0.36	0.32	1.16
<b>SOLARBAN® R100 Solar Control Low-E Glass</b>													
	SOLARBAN R100 (2) + Clear		12	42	19	32	41	0.29	0.27	1.6	0.27	0.23	1.83
	SOLARBAN R100 (2) STARPHIRE + STARPHIRE		16	44	21	33	57	0.29	0.27	1.6	0.27	0.23	1.91
	SOLARBAN R100 (2) SOLEXIA + Clear		6	36	15	25	17	0.29	0.27	1.6	0.24	0.21	1.71
	SOLARBAN R100 (2) ATLANTICA + Clear		3	32	12	20	11	0.29	0.27	1.6	0.22	0.19	1.68
	SOLARBAN R100 (2) AZURIA + Clear		8	32	12	21	11	0.29	0.27	1.6	0.22	0.19	1.68
	SOLARBAN R100 (2) OPTIBLUE + Clear		8	30	14	19	31	0.29	0.27	1.6	0.23	0.20	1.50
	SOLARBAN R100 (2) PACIFICA + Clear		3	20	9	11	9	0.29	0.27	1.6	0.19	0.16	1.25
	SOLARBAN R100 (2) SOLARBLUE + Clear		6	26	12	15	17	0.29	0.27	1.6	0.22	0.19	1.37
	SOLARBAN R100 (2) SOLARBRONZE + Clear		5	25	11	15	20	0.29	0.27	1.6	0.21	0.18	1.39
	SOLARBAN R100 (2) SOLARGRAY + Clear		5	21	10	12	16	0.29	0.27	1.6	0.19	0.17	1.24
<b>VISTACOOl® Subtly Reflective Glass</b>													
	VISTACOOl (2) ATLANTICA + Clear		11	47	23	20	10	0.47	0.50	2.8	0.41	0.35	1.34
	VISTACOOl (2) AZURIA + Clear		29	47	22	21	11	0.47	0.50	2.8	0.39	0.34	1.38
	VISTACOOl (2) PACIFICA + Clear		10	29	19	11	7	0.47	0.50	2.8	0.37	0.32	0.91
	VISTACOOl (2) SOLARGRAY + Clear		17	31	28	12	9	0.47	0.50	2.8	0.47	0.41	0.76
<b>SOLARCOOL® Reflective Glass</b>													
	SOLARCOOL (1) SOLEXIA + Clear		7	27	18	37	30	0.47	0.50	2.8	0.32	0.28	0.96
	SOLARCOOL (2) SOLEXIA + Clear		7	27	19	24	12	0.47	0.50	2.8	0.36	0.31	0.87
	SOLARCOOL (1) AZURIA + Clear		10	23	11	37	30	0.47	0.50	2.8	0.25	0.21	1.10
	SOLARCOOL (2) AZURIA + Clear		10	24	12	20	10	0.47	0.50	2.8	0.29	0.25	0.96
	SOLARCOOL (1) PACIFICA + Clear		4	14	10	36	30	0.47	0.50	2.8	0.24	0.21	0.67
	SOLARCOOL (2) PACIFICA + Clear		4	15	11	10	7	0.47	0.50	2.8	0.29	0.25	0.60
	SOLARCOOL (1) SOLARBLUE + Clear		7	19	19	37	30	0.47	0.50	2.8	0.33	0.29	0.66
	SOLARCOOL (2) SOLARBLUE + Clear		7	20	19	15	11	0.47	0.50	2.8	0.37	0.32	0.63
	SOLARCOOL (1) SOLARBRONZE + Clear		6	18	21	37	31	0.47	0.50	2.8	0.35	0.31	0.58
	SOLARCOOL (2) SOLARBRONZE + Clear		6	19	21	14	12	0.47	0.50	2.8	0.40	0.34	0.56
	SOLARCOOL (1) SOLARGRAY + Clear		6	15	17	36	30	0.47	0.50	2.8	0.32	0.28	0.54
	SOLARCOOL (2) SOLARGRAY + Clear		6	16	18	11	10	0.47	0.50	2.8	0.36	0.32	0.50
	SOLARCOOL (1) GRAYLITE II + Clear		0	3	3	36	30	0.47	0.50	2.8	0.17	0.15	0.20
	SOLARCOOL (2) GRAYLITE II + Clear		0	3	4	5	5	0.47	0.50	2.8	0.22	0.19	0.16

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			Ultra- violet %	Visible %	Total Solar Energy %	Visible Light %	Total Solar Energy %	Winter Night- time	Summer Day- time				
<b>Coated</b>													
<b>VISTACOO<sup>®</sup> (Subtly Reflective) and SOLARCOOL<sup>®</sup> (Reflective) with SUNGATE<sup>®</sup> 500 Low-E (3)</b>													
VISTACOO <sup>®</sup> (2) ATLANTICA + SUNGATE 500 (3) Clear			9	44	20	21	11	0.35	0.35	2.0	0.35	0.31	1.42
VISTACOO <sup>®</sup> (2) AZURIA + SUNGATE 500 (3) Clear			24	44	19	22	11	0.35	0.35	2.0	0.34	0.29	1.52
VISTACOO <sup>®</sup> (2) PACIFICA + SUNGATE 500 (3) Clear			9	27	16	11	8	0.35	0.35	2.0	0.31	0.27	1.00
VISTACOO <sup>®</sup> (2) SOLARGRAY + SUNGATE 500 (3) Clear			14	29	23	12	10	0.35	0.35	2.0	0.41	0.36	0.81
SOLARCOOL (2) PACIFICA + SUNGATE 500 (3) Clear			3	14	9	10	7	0.35	0.35	2.0	0.23	0.20	0.70
SOLARCOOL (2) SOLEXIA + SUNGATE 500 (3) Clear			6	25	15	24	13	0.35	0.35	2.0	0.31	0.27	0.93
SOLARCOOL (2) AZURIA + SUNGATE 500 (3) Clear			8	22	10	20	10	0.35	0.35	2.0	0.23	0.20	1.10
SOLARCOOL (2) SOLARBLUE + SUNGATE 500 (3) Clear			6	18	15	15	12	0.35	0.35	2.0	0.32	0.27	0.67
SOLARCOOL (2) SOLARBRONZE + SUNGATE 500 (3) Clear			5	18	17	14	13	0.35	0.35	2.0	0.34	0.29	0.62
SOLARCOOL (2) SOLARGRAY + SUNGATE 500 (3) Clear			5	15	14	11	10	0.35	0.35	2.0	0.30	0.26	0.58
SOLARCOOL (2) GRAYLITE II + SUNGATE 500 (3) Clear			0	3	3	5	5	0.35	0.35	2.0	0.16	0.14	0.21
<b>VISTACOO<sup>®</sup> (Subtly Reflective) and SOLARCOOL<sup>®</sup> (Reflective) with SUNGATE<sup>®</sup> 600 Low-E (3)</b>													
VISTACOO <sup>®</sup> (2) ATLANTICA + SUNGATE 600 (3) Clear			9	42	19	21	10	0.33	0.32	1.8	0.34	0.30	1.40
VISTACOO <sup>®</sup> (2) AZURIA + SUNGATE 600 (3) Clear			22	43	18	22	11	0.33	0.32	1.8	0.33	0.29	1.48
VISTACOO <sup>®</sup> (2) PACIFICA + SUNGATE 600 (3) Clear			8	27	14	11	8	0.33	0.32	1.8	0.30	0.26	1.04
VISTACOO <sup>®</sup> (2) SOLARGRAY + SUNGATE 600 (3) Clear			13	28	21	12	10	0.33	0.32	1.8	0.40	0.35	0.80
SOLARCOOL (2) PACIFICA + SUNGATE 600 (3) Clear			3	13	8	10	7	0.33	0.32	1.8	0.22	0.19	0.68
SOLARCOOL (2) SOLEXIA + SUNGATE 600 (3) Clear			6	25	14	24	13	0.33	0.32	1.8	0.29	0.26	0.96
SOLARCOOL (2) AZURIA + SUNGATE 600 (3) Clear			8	23	10	21	11	0.35	0.33	1.8	0.24	0.21	1.10
SOLARCOOL (2) SOLARBLUE + SUNGATE 600 (3) Clear			6	18	14	15	12	0.33	0.32	1.8	0.30	0.26	0.69
SOLARCOOL (2) SOLARBRONZE + SUNGATE 600 (3) Clear			5	17	15	14	13	0.33	0.32	1.8	0.33	0.28	0.61
SOLARCOOL (2) SOLARGRAY + SUNGATE 600 (3) Clear			5	14	12	11	10	0.33	0.32	1.8	0.29	0.25	0.56
SOLARCOOL (2) GRAYLITE II + SUNGATE 600 (3) Clear			0	3	2	5	5	0.33	0.32	1.8	0.15	0.13	0.23
<b>VISTACOO<sup>®</sup> and SOLARCOOL<sup>®</sup> with SOLARBAN<sup>®</sup> 60 Solar Control Low-E (3)</b>													
VISTACOO <sup>®</sup> (2) ATLANTICA + SOLARBAN 60 (3) Clear			5	41	16	20	11	0.29	0.27	1.6	0.29	0.25	1.58
VISTACOO <sup>®</sup> (2) AZURIA + SOLARBAN 60 (3) Clear			11	42	16	20	11	0.29	0.27	1.6	0.30	0.26	1.62
VISTACOO <sup>®</sup> (2) PACIFICA + SOLARBAN 60 (3) Clear			4	26	12	11	9	0.29	0.27	1.6	0.24	0.21	1.24
VISTACOO <sup>®</sup> (2) SOLARGRAY + SOLARBAN 60 (3) Clear			7	27	14	11	15	0.29	0.27	1.6	0.28	0.24	1.08
SOLARCOOL (2) PACIFICA + SOLARBAN 60 (3) Clear			2	13	6	10	8	0.29	0.27	1.6	0.17	0.15	0.87
SOLARCOOL (2) SOLEXIA + SOLARBAN 60 (3) Clear			3	24	10	24	15	0.29	0.27	1.6	0.22	0.19	1.26
SOLARCOOL (2) AZURIA + SOLARBAN 60 (3) Clear			4	21	8	19	10	0.29	0.27	1.6	0.19	0.17	1.24
SOLARCOOL (2) SOLARBLUE + SOLARBAN 60 (3) Clear			3	17	9	14	15	0.29	0.27	1.6	0.21	0.18	0.94
SOLARCOOL (2) SOLARBRONZE + SOLARBAN 60 (3) Clear			2	17	9	14	18	0.29	0.27	1.6	0.21	0.18	0.94
SOLARCOOL (2) SOLARGRAY + SOLARBAN 60 (3) Clear			2	14	8	11	14	0.29	0.27	1.6	0.20	0.17	0.82
SOLARCOOL (2) GRAYLITE II + SOLARBAN 60 (3) Clear			0	3	2	5	5	0.29	0.27	1.6	0.12	0.10	0.30
<b>VISTACOO<sup>®</sup> and SOLARCOOL<sup>®</sup> with SOLARBAN<sup>®</sup> 70XL Solar Control Low-E (3) †</b>													
VISTACOO <sup>®</sup> (2) ATLANTICA + SOLARBAN 70XL (3)			1	38	13	20	11	0.28	0.26	1.5	0.27	0.23	1.65
VISTACOO <sup>®</sup> (2) AZURIA + SOLARBAN 70XL (3)			4	38	14	21	12	0.28	0.26	1.5	0.27	0.24	1.58
VISTACOO <sup>®</sup> (2) PACIFICA + SOLARBAN 70XL (3)			1	24	9	11	9	0.28	0.26	1.5	0.22	0.19	1.26
VISTACOO <sup>®</sup> (2) SOLARGRAY + SOLARBAN 70XL (3)			2	25	10	11	17	0.28	0.26	1.5	0.23	0.20	1.25
SOLARCOOL (2) SOLEXIA + SOLARBAN 70XL (3)			1	22	8	24	15	0.28	0.26	1.5	0.20	0.17	1.29
SOLARCOOL (2) AZURIA + SOLARBAN 70XL (3)			1	19	6	19	10	0.28	0.26	1.5	0.18	0.15	1.27
SOLARCOOL (2) PACIFICA + SOLARBAN 70XL (3)			1	12	4	10	8	0.28	0.26	1.5	0.15	0.13	0.92
SOLARCOOL (2) SOLARBLUE + SOLARBAN 70XL (3)			1	16	6	14	16	0.28	0.26	1.5	0.18	0.15	1.07
SOLARCOOL (2) SOLARBRONZE + SOLARBAN 70XL (3)			1	15	6	14	19	0.28	0.26	1.5	0.17	0.15	1.00
SOLARCOOL (2) SOLARGRAY + SOLARBAN 70XL (3)			1	13	5	11	15	0.28	0.26	1.5	0.16	0.14	0.93
SOLARCOOL (2) GRAYLITE II + SOLARBAN 70XL (3)			0	3	1	5	5	0.28	0.26	1.5	0.11	0.09	0.33

All performance data calculated using LBNL Window 6.3 software, except European U-value, which is calculated using WinDat version 3.0.1 software. For detailed information on the methodologies used to calculate the aesthetic and performance values in this table, please visit [www.ppgideascape.com](http://www.ppgideascape.com) or request our Architectural Glass Catalog.

† Solarban 70XL for annealed applications is applied to Starphire glass; heat treated applications will require either clear or Starphire glass depending on manufacturing process.

†† Solarban 72 Starphire data based on using Starphire glass for both interior and exterior lites.

††† Optiblue is a unique substrate by PPG designed specifically for Solarban z50 glass.

1. Data is based on center of glass performance of representative factory production samples. Actual values may vary due to the production process and manufacturing tolerances. All tabulated data is based on NFRC methodology using the LBNL Window 6.3 software. Variations from previously published data are due to minor changes in the LBNL Window 6.3 software versus Version 5.2.

2. Transmittance and Reflectance values based on spectrophotometric measurements and energy distribution of solar radiation.

3. U-value is the overall coefficient of heat transmittance or heat flow measured in BTU/hr. • ft<sup>2</sup> • °F. Lower U-values indicate better insulating performance.

4. European U-Value is the overall coefficient of heat transmittance or heat flow measured in Watts/m<sup>2</sup> • °C, and is calculated using WinDat WIS version 3.0.1 software.

5. Shading Coefficient is the ratio of the total amount of solar energy that passes through a glass relative to 1/8-inch (3.0mm) thick clear glass under the same design conditions. It includes both solar energy transmitted directly plus any absorbed solar energy re-radiated and convected. Lower shading coefficient values indicate better performance in reducing solar heat gain. Note: Performance values were calculated using the LBNL Window 6.3 program using NFRC 100-2001 standard winter and summer design condition.

6. Solar Heat Gain Coefficient (SHGC) represents the solar heat gain through the glass relative to the incident solar radiation. It is equal to 86% of the shading coefficient.

7. Light to Solar Gain (LSG) ratio is the ratio of visible light transmittance to solar heat gain coefficient.