

PERFORMANCE COMPARISON TABLES

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BUILD WITH LIGHT®

SOLAR SERIES PERFORMANCE COMPARISON

SunGuard Silver 32

1" Insulating Units Performance Data - 6mm / 12mm air / 6mm - coating on #2 surface									
Manufacturer	Product	Substrate	Visible Light			Shading Coefficient	Solar Heat Gain Coefficient	U-Value Winter	Light to Solar Gain (LSG)
			Transmittance %	Reflectance					
				Out %	In %				
Guardian	SunGuard Silver 32	Clear/Clear	29	22	21	.35	.31	.42	.94
Viracon	Solarscreen VS1-30	Clear/Clear	26	15	30	.35	.30	.44	.87
Guardian	SunGuard Silver 32	Green/Clear	24	17	21	.27	.24	.42	1.00
Viracon	Solarscreen VS2-30	Green/Clear	24	12	29	.29	.25	.44	.95

SunGuard Silver 20

1" Insulating Units Performance Data - 6mm / 12mm air / 6mm - coating on #2 surface									
Manufacturer	Product	Substrate	Visible Light			Shading Coefficient	Solar Heat Gain Coefficient	U-Value Winter	Light to Solar Gain (LSG)
			Transmittance %	Reflectance					
				Out %	In %				
Guardian	SunGuard Silver 20	Clear/Clear	18	31	27	.24	.21	.39	.84
Viracon	Solarscreen VY1-20	Clear/Clear	18	27	35	.28	.24	.42	.76
Guardian	SunGuard Silver 20	Green/Clear	15	24	27	.21	.19	.39	.82
Viracon	Solarscreen VY2-20	Green/Clear	16	22	35	.24	.21	.42	.74

Notes:

- All coatings on the #2 surface unless otherwise noted.
- The Guardian SunGuard performance values shown are nominal and subject to manufacturing tolerances. Performance data are calculated in accordance with the LBNL Window 5.2 computer analysis using an air mass of 1.5. Guardian reserves the right to change product performance characteristics without notice or obligation.
- Performance data from other glass companies are based on available public information. Products shown are not exact visual matches. Glass samples should be obtained to determine similarity of products in appearance.
- Solarban is a trademark of PPG Corp.

HIGH PERFORMANCE SERIES PERFORMANCE COMPARISON

SunGuard AG 43, AG 50 & Neutral 61

1" Insulating Units Performance Data - 6mm / 12mm air / 6mm - coating on #2 surface									
Manufacturer	Product	Substrate	Visible Light			Shading Coefficient	Solar Heat Gain Coefficient	U-Value Winter	Light to Solar Gain (LSG)
			Transmittance %	Reflectance					
				Out %	In %				
Guardian	SunGuard AG 43	Clear/Clear	41	30	15	.33	.29	.31	1.39
	SunGuard AG 50	Clear/Clear	50	28	18	.38	.33	.30	1.51
	SunGuard Neutral 61 *	Clear/Clear	61	20	15	.45	.40	.30	1.53
Viracon	VRE 1-38	Clear/Clear	36	44	21	.27	.23	.30	1.57
	VRE 1-46	Clear/Clear	43	34	15	.33	.28	.30	1.53
	VRE 1-54	Clear/Clear	48	32	16	.36	.31	.30	1.60
	VRE 1-59	Clear/Clear	53	30	19	.39	.33	.30	1.60
	VRE 1-67	Clear/Clear	60	29	25	.43	.38	.30	1.57
PPG	Solarban 80	Clear/Clear	47	32	36	.27	.24	.29	1.96
Guardian	SunGuard AG 43	CrystalGray™/Clear	30	18	14	.27	.24	.31	1.25
	SunGuard AG 50	CrystalGray™/Clear	36	17	18	.30	.26	.30	1.38
Viracon	VRE 19-38	CrystalGray™/Clear	26	26	21	.23	.20	.30	1.30
	VRE 19-46	CrystalGray™/Clear	31	20	15	.27	.23	.30	1.35
	VRE 19-54	CrystalGray™/Clear	34	19	16	.29	.25	.30	1.36
	VRE 19-59	CrystalGray™/Clear	38	18	19	.31	.27	.30	1.41
Guardian	SunGuard AG 43	Green/Clear	35	23	14	.26	.23	.31	1.52
	SunGuard AG 50	Green/Clear	43	21	18	.29	.25	.30	1.67
	SunGuard Neutral 61 *	Green/Clear	51	15	14	.34	.30	.30	1.74
Viracon	VRE 2-38	Green/Clear	30	35	21	.22	.19	.30	1.60
	VRE 2-46	Green/Clear	36	26	15	.26	.23	.30	1.57
	VRE 2-54	Green/Clear	40	24	16	.28	.24	.30	1.60
	VRE 2-59	Green/Clear	44	23	19	.30	.26	.30	1.70
	VRE 2-67	Green/Clear	50	22	24	.33	.28	.30	1.79

* Neutral 61 was formerly called NP 61

SunGuard Royal Blue 40

1" Insulating Units Performance Data - 6mm / 12mm air / 6mm - coating on #2 surface									
Manufacturer	Product	Substrate	Visible Light			Shading Coefficient	Solar Heat Gain Coefficient	U-Value Winter	Light to Solar Gain (LSG)
			Transmittance %	Reflectance					
				Out %	In %				
Guardian	SunGuard Royal Blue 40	Clear/Clear	38	24	18	.36	.31	.31	1.21
Viracon	Solarscreen VE5-52	Blue/Clear	32	9	10	.32	.28	.32	1.14
	Solarscreen VT1-30	Clear/Clear	27	17	30	.34	.29	.43	0.94
	Solarscreen VT1-40	Clear/Clear	36	12	26	.43	.37	.44	0.98
Guardian	SunGuard Royal Blue 40	Green/Clear	32	19	17	.26	.23	.31	1.40
Viracon	Solarscreen VE2-52	Green/Clear	43	12	11	.34	.29	.32	1.50
	Solarscreen VT2-30	Green/Clear	23	13	31	.27	.23	.43	1.00
	Solarscreen VT2-40	Green/Clear	31	10	26	.33	.28	.44	1.09
Guardian	SunGuard Royal Blue 40 CrystalGray™/Clear	CrystalGray™/Clear	27	15	17	.28	.25	.31	1.11
Viracon	VE 19-52	CrystalGray™/Clear	37	11	11	.35	.31	.31	1.19

Notes:

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- Performance data from other glass companies are based on available public information. Products shown are not exact visual matches. Glass samples should be obtained to determine similarity of products in appearance.
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HIGH PERFORMANCE SERIES PERFORMANCE COMPARISON

SunGuard Neutral 40 & Neutral 50

1" Insulating Units Performance Data - 6mm / 12mm air / 6mm - coating on #2 surface									
Manufacturer	Product	Substrate	Visible Light			Shading Coefficient	Solar Heat Gain Coefficient	U-Value Winter	Light to Solar Gain (LSG)
			Transmittance %	Reflectance					
				Out %	In %				
Guardian	SunGuard Neutral 40 *	Clear/Clear	40	20	12	.37	.32	.33	1.25
Viracon	Solarscreen VE1-42	Clear/Clear	37	19	14	.36	.31	.31	1.20
Guardian	SunGuard Neutral 40 *	Green/Clear	34	16	12	.27	.24	.33	1.39
Viracon	Solarscreen VE2-42	Green/Clear	31	15	14	.27	.23	.31	1.37
Guardian	SunGuard Neutral 50 *	Clear/Clear	50	16	11	.45	.39	.33	1.28
Viracon	Solarscreen VE1-52	Clear/Clear	50	16	11	.46	.40	.32	1.24
Guardian	SunGuard Neutral 50 *	Green/Clear	42	13	10	.32	.28	.33	1.49
Viracon	Solarscreen VE2-52	Green/Clear	43	12	11	.34	.29	.32	1.50

* Neutral 40 was formerly called LE 40, Neutral 50 was formerly called LE 50

SunGuard Light Blue 63

1" Insulating Units Performance Data - 6mm / 12mm air / 6mm									
Manufacturer	Product	Substrate	Visible Light			Shading Coefficient	Solar Heat Gain Coefficient	U-Value Winter	Light to Solar Gain (LSG)
			Transmittance %	Reflectance					
				Out %	In %				
Guardian	SunGuard Light Blue 63 *	Clear/Clear	62	15	12	.59	.51	.34	1.20
Viracon	VE1-85	Clear/Clear	72	12	13	.61	.53	.31	1.37
Guardian	SunGuard Light Blue 63 *	Green/Clear	52	12	12	.39	.35	.34	1.51
Viracon	VE2-85	Green/Clear	62	10	12	.44	.38	.31	1.64

* Light Blue 63 was formerly called LE 63

Notes:

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SUPERNEUTRAL SERIES PERFORMANCE COMPARISON

SunGuard SN 54 & SN 68

1" Insulating Units Performance Data - 6mm / 12mm air / 6mm									
Manufacturer	Product	Substrate	Visible Light			Shading Coefficient	Solar Heat Gain Coefficient	U-Value Winter	Light to Solar Gain (LSG)
			Transmittance %	Reflectance					
				Out %	In %				
Guardian	SunGuard SN 54	Clear/Clear	54	13	18	.32	.28	.29	1.91
	SunGuard SN 68	Clear/Clear	68	11	12	.43	.38	.29	1.80
Viracon	VE1-2M	Clear/Clear	67	11	12	.43	.37	.29	1.82
	VNE1-63	Clear/Clear	62	10	11	.32	.28	.29	2.23
PPG	Solarban 60	Clear/Clear	70	11	12	.44	.38	.29	1.84
	Solarban 70	Starphire/Clear	64	11	12	.31	.27	.28	2.37
	Comfort Ti-AC 36	Clear/Clear	66	11	12	.41	.36	.29	1.83
	Comfort Ti-AC 40	Clear/Clear	68	10	12	.44	.39	.29	1.77
Guardian	SunGuard SN 54	CrystalGray™/Clear	39	9	17	.26	.23	.29	1.68
	SunGuard SN 68	CrystalGray™/Clear	49	8	11	.34	.30	.29	1.65
Viracon	VNE19-63	CrystalGray™/Clear	46	8	11	.27	.23	.30	2.00
PPG	Solarban z-50	OptiBlue™/Clear	51	8	11	.36	.32	.29	1.61
Guardian	SunGuard SN 54	Green/Clear	46	10	18	.27	.24	.29	1.88
	SunGuard SN 68	Green/Clear	58	9	12	.34	.30	.29	1.90
Viracon	VE2-2M	Green/Clear	58	9	11	.35	.31	.29	1.86
	VNE2-63	Green/Clear	52	9	11	.29	.25	.29	2.08
	VRE2-55	Green/Clear	40	24	16	.28	.24	.30	1.60
PPG	Solarban 60	Solexia/Clear	60	9	12	.36	.32	.29	1.91

Notes:

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