

NG-20

Solar Optical Performance Data

Center of Glass Measurements:*

Total Solar Energy:

Transmitted 15%
 Reflected 38%
 Absorbed 47%

Visible Light:

Transmitted 10%
 Reflected Interior.....17%
 Reflected Exterior18%

U Value..... 0.97
 Emissivity0.70
 Ultraviolet Light Rejected99%

Glare Reduction89%
 Shading Coefficient0.33
 Solar Heat Gain Coefficient 0.28

Total Solar Energy Rejected 73%

Window Performance:**

	NG-20					
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film	
Residential	3 mm (1/8in.) clear	0.71	0.24	0.74	0.08	
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.35	0.67	0.07	
Non Residential	6 mm (1/4in.) clear	0.75	0.28	0.80	0.09	
Non Residential	6 mm (1/4in.) grey	0.53	0.28	0.40	0.04	
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.38	0.71	0.08	
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.28	0.36	0.04	

* Read in accordance with National Fenestration Rating Council (NFRC) standards on 3mm. clear glass.

**As certified by the National Fenestration Rating Council (NFRC).

† Dual pane window



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SRS-220

Solar Optical Performance Data

Center of Glass Measurements:*

Total Solar Energy:

Transmitted14%
 Reflected60%
 Absorbed26%

Visible Light:

Transmitted19%
 Reflected Interior57%
 Reflected Exterior..... 57%

U Value0.93
 Emissivity 0.64
 Ultraviolet Light Rejected 99%

Glare Reduction 78%
 Shading Coefficient 0.26
 Solar Heat Gain Coefficient 0.22

Total Solar Energy Rejection80%

Window Performance:**

	SRS-220					
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film	
Residential	3 mm (1/8in.) clear	0.71	0.19	0.74	0.15	
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.26	0.67	0.14	
Non Residential	6 mm (1/4in.) clear	0.75	0.22	0.80	0.16	
Non Residential	6 mm (1/4in.) grey	0.53	0.26	0.40	0.08	
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.30	0.71	0.15	
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.24	0.36	0.07	

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† Dual pane window



SRS-330

Solar Optical Performance Data

Center of Glass Measurements:*

Total Solar Energy:
 Transmitted 22%
 Reflected 48%
 Absorbed30%

Visible Light:
 Transmitted29%
 Reflected Interior45%
 Reflected Exterior.....45%

U Value 0.95
 Emissivity.....0.67
 Ultraviolet Light Rejected99%

Glare Reduction 67%
 Shading Coefficient 0.35
 Solar Heat Gain Coefficient0.30

Total Solar Energy Rejected 71%

Window Performance:**

SRS-330					
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film
Residential	3 mm (1/8in.) clear	0.71	0.26	0.74	0.23
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.32	0.67	0.22
Non Residential	6 mm (1/4in.) clear	0.75	0.29	0.80	0.25
Non Residential	6 mm (1/4in.) grey	0.53	0.30	0.40	0.13
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.36	0.71	0.23
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.27	0.36	0.11

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† Dual pane window



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RS-440

Solar Optical Performance Data

Center of Glass Measurements:*

Total Solar Energy:
 Transmitted35%
 Reflected32%
 Absorbed 33%

Visible Light:
 Transmitted42%
 Reflected Interior 31%
 Reflected Exterior30%

U Value..... 0.98
 Emissivity.....0.73
 Ultraviolet Light Rejected99%

Glare Reduction52%
 Shading Coefficient 0.48
 Solar Heat Gain Coefficient 0.42

Total Solar Energy Rejected57%

Window Performance:**

	RS-440				
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film
Residential	3 mm (1/8in.) clear	0.71	0.35	0.74	0.34
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.40	0.67	0.31
Non Residential	6 mm (1/4in.) clear	0.75	0.39	0.80	0.37
Non Residential	6 mm (1/4in.) grey	0.53	0.34	0.40	0.18
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.43	0.71	0.33
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.31	0.36	0.17

* Read in accordance with National Fenestration Rating Council (NFRC) standards on 3mm. clear glass.
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 † Dual pane window



SB-221

Solar Optical Performance Data

Center of Glass Measurements:*

Total Solar Energy:
 Transmitted 17%
 Reflected 46%
 Absorbed 37%

Visible Light:
 Transmitted24%
 Reflected Interior29%
 Reflected Exterior 34%

U Value 1.02
 Emissivity 0.69
 Ultraviolet Light Rejected 99%

Glare Reduction 73%
 Shading Coefficient0.34
 Solar Heat Gain Coefficient0.29

Total Solar Energy Rejected 73%

Window Performance:**

	SB-221				
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film
Residential	3 mm (1/8in.) clear	0.71	0.25	0.74	0.19
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.34	0.67	0.18
Non Residential	6 mm (1/4in.) clear	0.75	0.28	0.80	0.21
Non Residential	6 mm (1/4in.) grey	0.53	0.29	0.40	0.10
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.37	0.71	0.19
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.28	0.36	0.09

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† Dual pane window



SB-341

Solar Optical Performance Data

Center of Glass Measurements:*

Total Solar Energy:

Transmitted 35%
 Reflected 28%
 Absorbed 37%

Visible Light:

Transmitted 41%
 Reflected Interior 15%
 Reflected Exterior 19%

U Value0.96
 Emissivity 0.69
 Ultraviolet Light Rejected 99%

Glare Reduction53%
 Shading Coefficient0.52
 Solar Heat Gain Coefficient0.45

Total Solar Energy Rejected 56%

Window Performance:**

	SB-341					
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film	
Residential	3 mm (1/8in.) clear	0.71	0.38	0.74	0.33	
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.44	0.67	0.30	
Non Residential	6 mm (1/4in.) clear	0.75	0.41	0.80	0.36	
Non Residential	6 mm (1/4in.) grey	0.53	0.35	0.40	0.18	
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.46	0.71	0.32	
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.32	0.36	0.16	

* Read in accordance with National Fenestration Rating Council (NFRC) standards on 3mm. clear glass.

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† Dual pane window



SG-220

Solar Optical Performance Data

Center of Glass Measurements:*

Total Solar Energy:
 Transmitted.....18%
 Reflected32%
 Absorbed50%

Visible Light:
 Transmitted19%
 Reflected Interior29%
 Reflected Exterior.....33%

U Value1.05
 Emissivity.....0.86
 Ultraviolet Light Rejected99%

Glare Reduction78%
 Shading Coefficient0.41
 Solar Heat Gain Coefficient0.35

Total Solar Energy Rejected 68%

Window Performance:**

	SG-220					
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film	
Residential	3 mm (1/8in.) clear	0.71	0.30	0.74	0.16	
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.40	0.67	0.15	
Non Residential	6 mm (1/4in.) clear	0.75	0.33	0.80	0.17	
Non Residential	6 mm (1/4in.) grey	0.53	0.32	0.40	0.09	
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.42	0.71	0.15	
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.31	0.36	0.08	

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SG-330

Solar Optical Performance Data

Center of Glass Measurements:*

Total Solar Energy:

Transmitted 32%
 Reflected 17%
 Absorbed 51%

Visible Light:

Transmitted34%
 Reflected Interior..... 20%
 Reflected Exterior.....17%

U Value.....1.09
 Emissivity.....0.94
 Ultraviolet Light Rejected99%

Glare Reduction 61%
 Shading Coefficient0.56
 Solar Heat Gain Coefficient0.48

Total Solar Energy Rejected54%

Window Performance:**

	SG-330					
Type	Default Glazing Reference		SHGC No Film	SHGC With Film	VLT No Film	VLT With Film
Residential	3 mm (1/8in.) clear		0.71	0.41	0.74	0.28
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear		0.63	0.48	0.67	0.26
Non Residential	6 mm (1/4in.) clear		0.75	0.44	0.80	0.30
Non Residential	6 mm (1/4in.) grey		0.53	0.38	0.40	0.15
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear		0.65	0.49	0.71	0.27
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear		0.42	0.35	0.36	0.14

* Read in accordance with National Fenestration Rating Council (NFRC) standards on 3mm. clear glass.

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SG-550

Solar Optical Performance Data

Center of Glass Measurements:*

Total Solar Energy:
 Transmitted 50%
 Reflected 12%
 Absorbed 38%

Visible Light:
 Transmitted 53%
 Reflected Interior 10%
 Reflected Exterior 12%

U Value1.09
 Emissivity 0.93
 Ultraviolet Light Rejected 99%

Glare Reduction 40%
 Shading Coefficient 0.72
 Solar Heat Gain Coefficient 0.62

Total Solar Energy Rejected 39%

Window Performance:**

SG-550					
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film
Residential	3 mm (1/8in.) clear	0.71	0.52	0.74	0.43
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.55	0.67	0.39
Non Residential	6 mm (1/4in.) clear	0.75	0.56	0.80	0.46
Non Residential	6 mm (1/4in.) grey	0.53	0.44	0.40	0.23
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.56	0.71	0.41
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.38	0.36	0.21

* Read in accordance with National Fenestration Rating Council (NFRC) standards on 3mm. clear glass.

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† Dual pane window



TSG-335

Solar Optical Performance Data

Center of Glass Measurements:*

Total Solar Energy:

Transmitted 35%
 Reflected 28%
 Absorbed 37%

Visible Light:

Transmitted 39%
 Reflected Interior 19%
 Reflected Exterior 25%

U Value1.02
 Emissivity0.80
 Ultraviolet Light Rejected 99%

Glare Reduction 56%
 Shading Coefficient0.52
 Solar Heat Gain Coefficient 0.45

Total Solar Energy Rejected 55%

Window Performance:**

TSG-335					
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film
Residential	3 mm (1/8in.) clear	0.71	0.38	0.74	0.32
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.44	0.67	0.29
Non Residential	6 mm (1/4in.) clear	0.75	0.41	0.80	0.34
Non Residential	6 mm (1/4in.) grey	0.53	0.36	0.40	0.17
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.46	0.71	0.31
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.33	0.36	0.15

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† Dual pane window



SDSS-220-X

Solar Optical Performance Data

Center of Glass Measurements:*

Total Solar Energy:

Transmitted 14%
 Reflected 59%
 Absorbed27%

Visible Light:

Transmitted18%
 Reflected Interior.....55%
 Reflected Exterior58%

U Value1.01
 Emissivity0.78
 Ultraviolet Light Rejected99%

Glare Reduction80%
 Shading Coefficient0.26
 Solar Heat Gain Coefficient0.23

Total Solar Energy Rejected80%

Window Performance:**

	SDSS-220-X				
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film
Residential	3 mm (1/8in.) clear	0.71	0.20	0.74	0.15
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.27	0.67	0.14
Non Residential	6 mm (1/4in.) clear	0.75	0.23	0.80	0.16
Non Residential	6 mm (1/4in.) grey	0.53	0.28	0.40	0.08
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.31	0.71	0.15
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.25	0.36	0.07

* Read in accordance with National Fenestration Rating Council (NFRC) standards on 3mm. clear glass.

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SDSS-220-XK

Solar Optical Performance Data

Center of Glass Measurements:*

Total Solar Energy:
 Transmitted 13%
 Reflected 62%
 Absorbed 25%

Visible Light:
 Transmitted 18%
 Reflected Interior..... 60%
 Reflected Exterior..... 57%

U Value1.04
 Emissivity.....0.85
 Ultraviolet Light Rejected 99%

Glare Reduction.....80%
 Shading Coefficient 0.23
 Solar Heat Gain Coefficient.....0.20

Total Solar Energy Rejected80%

Window Performance:**

SDSS-220-XK					
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film
Residential	3 mm (1/8in.) clear	0.71	0.20	0.74	0.14
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.27	0.67	0.14
Non Residential	6 mm (1/4in.) clear	0.75	0.23	0.80	0.15
Non Residential	6 mm (1/4in.) grey	0.53	0.28	0.40	0.08
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.31	0.71	0.14
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.26	0.36	0.07

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† Dual pane window



CL-200-XSR

Solar Optical Performance Data

Center of Glass Measurements:*

Total Solar Energy:
 Transmitted 85%
 Reflected 8%
 Absorbed 7%

Visible Light:
 Transmitted 90%
 Reflected Interior..... 9%
 Reflected Exterior..... 9%

U Value1.10
 Emissivity.....0.95
 Ultraviolet Light Rejected 99%
 Shading Coefficient0.98
 Solar Heat Gain Coefficient.....0.85

Total Solar Energy Rejected 14%

Window Performance:**

CL-200-XSR					
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film
Residential	3 mm (1/8in.) clear	0.71	0.71	0.74	0.73
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.63	0.67	0.66
Non Residential	6 mm (1/4in.) clear	0.75	0.74	0.80	0.79
Non Residential	6 mm (1/4in.) grey	0.53	0.54	0.40	0.40
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.64	0.71	0.71
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.43	0.36	0.35

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† Dual pane window



CLS-200-XSR

Solar Optical Performance Data

Center of Glass Measurements:*

Visible Light Transmission 89%

Ultraviolet Transmission:

Average Highest Point

300-380 NM Average—0% Highest Point—0.5%
 300-400 NM Average—1% Highest Point—12%

Film Thickness 2 mil

Window Performance:**

Type	CL-200-XSR		SHGC No Film	SHGC With Film	VLT No Film	VLT With Film
	Default Glazing Reference					
Residential	3 mm (1/8in.) clear		0.71	0.71	0.74	0.73
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear		0.63	0.63	0.67	0.66
Non Residential	6 mm (1/4in.) clear		0.75	0.74	0.80	0.79
Non Residential	6 mm (1/4in.) grey		0.53	0.54	0.40	0.40
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear		0.65	0.64	0.71	0.71
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear		0.42	0.43	0.36	0.35

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† Dual pane window



MT-200-X-BRONZE-2-MIL

Solar Optical Performance Data

Center of Glass Measurements:*

Total Solar Energy:
 Transmitted48%
 Reflected15%
 Absorbed37%

Visible Light:
 Transmitted33%
 Reflected Interior11%
 Reflected Exterior12%

U Value1.10
 Emissivity0.95
 Ultraviolet Light Rejected99%

Glare Reduction.....63%
 Shading Coefficient0.70
 Solar Heat Gain Coefficient0.60

Total Solar Energy Rejected42%

Window Performance:**

MT 200 Bronze					
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film
Residential	3 mm (1/8in.) clear	0.71	0.50	0.74	0.27
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.53	0.67	0.24
Non Residential	6 mm (1/4in.) clear	0.75	0.53	0.80	0.29
Non Residential	6 mm (1/4in.) grey	0.53	0.43	0.40	0.14
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.54	0.71	0.26
Non Residential †	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.37	0.36	0.13

* Read in accordance with National Fenestration Rating Council (NFRC) standards on 3mm. clear glass.
 **As certified by the National Fenestration Rating Council (NFRC).
 † Dual pane window



MT-200-X-GRAY-2-MIL

Solar Optical Performance Data

Center of Glass Measurements:*

Total Solar Energy:
 Transmitted 47%
 Reflected13%
 Absorbed 40%

Visible Light:
 Transmitted30%
 Reflected Interior..... 9%
 Reflected Exterior..... 10%

U Value.....1.10
 Emissivity.....0.95
 Ultraviolet Light Rejected99%

Glare Reduction.....66%
 Solar Heat Gain Coefficient.....0.61
 Shading Coefficient0.71

Total Solar Energy Rejected.....42%

Window Performance:**

MT 200 Gray					
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film
Residential	3 mm (1/8in.) clear	0.71	0.51	0.74	0.25
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.53	0.67	0.22
Non Residential	6 mm (1/4in.) clear	0.75	0.54	0.80	0.27
Non Residential	6 mm (1/4in.) grey	0.53	0.43	0.40	0.13
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.54	0.71	0.24
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.38	0.36	0.12

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BLACK OUT-X

Solar Optical Performance Data

Center of Glass Measurements:*

Total Solar Energy:
 Transmitted 0%
 Reflected7%
 Absorbed93%

Visible Light:
 Transmitted 0%
 Reflected Interior..... 6%
 Reflected Exterior 7%

U Value1.09
 Emissivity0.93
 Ultraviolet Light Rejected99%

Glare Reduction100%
 Shading Coefficient0.36
 Solar Heat Gain Coefficient0.30

Total Solar Energy Rejected..... 100%

Window Performance:**

	Blackout				
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film
Residential	3 mm (1/8in.) clear	0.71	0.26	0.74	0.00
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.44	0.67	0.00
Non Residential	6 mm (1/4in.) clear	0.75	0.29	0.80	0.00
Non Residential	6 mm (1/4in.) grey	0.53	0.29	0.40	0.00
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.45	0.71	0.00
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.32	0.36	0.00

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**As certified by the National Fenestration Rating Council (NFRC).

† Dual pane window

