



**BUILD WITH LIGHT.** Our comprehensive range of coatings, colors and design solutions allows architects to explore fully the aesthetic and functional possibilities of light — both interior and exterior — while meeting complex energy and performance requirements.

## SuperNeutral Series

### NATURAL LIGHT AND SOLAR PERFORMANCE IN LOW-E GLASS

Guardian's SuperNeutral Series offers industry leading light-to-solar-gain ratios with a variety of appearance options.

**SNX 62/27      SUPERNEUTRAL 68      SNR 43**  
**SNX 51/23      SUPERNEUTRAL 54**

### SPECIALTY GLASS, TINTS AND THE #3 SURFACE

In addition to standard clear float glass, SuperNeutral products are available with Guardian's UltraWhite low-iron float glass, along with green, TwilightGreen, CrystalGray and gray for lower reflectance, reduced glare and improved solar control. The SunGuard coatings that can be used on the #3 surface are SN 68, SNX 62/27 and Neutral 78/65. Guardian recommends a tinted or coated outboard lite when these coatings are used on the #3 surface. All other SunGuard coatings are not recommended for use on the #3 surface.

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ARCHITECT: **Weiss/Manfredi  
Architects**

GLAZIER: **National Glass**

FABRICATOR: **JE Berkowitz**

GLASS: **SunGuard AG 50  
on UltraWhite**

## High Performance Series

### HIGH PERFORMANCE LOW-E COATED GLASS

SunGuard High Performance Series glass delivers medium to high visible light transmission and moderate reflectivity along with maximum energy savings that meet or exceed energy code requirements. SunGuard IS 20 can be used on the #4 surface of a double-glazed IG unit or the #6 surface of a triple-glazed unit in conjunction with another SunGuard low-E coating on the #2 surface to significantly improve U-value.

**NEUTRAL 78/65      NEUTRAL 61      NEUTRAL 50**  
**NEUTRAL 40      AG 50      AG 43      SUNGUARD IS 20**

## Solar Control

### SOLAR CONTROL REFLECTIVE COATED GLASS

Our SunGuard Silver 20 is a high-performance, solar-reflective product that specializes in blocking heat and delivering energy efficiency to meet or exceed energy code requirements.

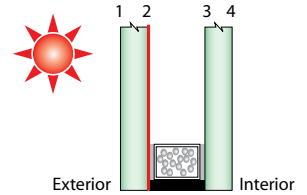
**SILVER 20**

## Guardian Select Fabricators

SunGuard products are produced at multiple U.S. locations and are distributed through Guardian's independent network of Select Fabricators. To locate a Select Fabricator, visit [www.SunGuardGlass.com](http://www.SunGuardGlass.com).



To learn more, call us at  
**1-866-GuardSG (482-7374)** or visit us  
online **[www.SunGuardGlass.com](http://www.SunGuardGlass.com)**



# INSULATING GLASS DATA

Product	Outboard - Inboard Substrate	Appearance	Transmission			Reflectance			U-Value Winter Nighttime		Relative Heat Gain	Shading Co-efficient	Solar Heat Gain Co-efficient	Light to Solar Gain (LSG)
			Visible Light %	Ultra-violet %	Solar Energy %	Visible Light Out %	Visible Light In %	Solar Energy Out %	Air	Argon				
<b>SuperNeutral Series</b>														
SNX 62/27	UltraWhite - UltraWhite	Ultra Clear	<b>63</b>	7	24	11	12	48	0.29	0.24	65	0.31	<b>0.27</b>	2.36
	Clear - Clear	Clear	<b>62</b>	6	23	11	12	39	0.29	0.24	65	0.31	<b>0.27</b>	2.30
	Green - Clear	Green	<b>52</b>	3	18	9	11	11	0.29	0.24	59	0.28	<b>0.25</b>	2.13
	TwilightGreen - Clear	Dark Green	<b>46</b>	2	16	8	11	8	0.29	0.24	54	0.25	<b>0.22</b>	2.08
	CrystalGray - Clear	Light Gray	<b>45</b>	4	17	8	11	19	0.29	0.24	55	0.25	<b>0.22</b>	1.99
	Gray - Clear	Gray	<b>31</b>	3	12	6	10	19	0.29	0.24	45	0.21	<b>0.18</b>	1.71
SNX 51/23	UltraWhite - UltraWhite	Light Blue	<b>52</b>	11	20	14	13	42	0.29	0.24	57	0.27	<b>0.23</b>	2.24
	Clear - Clear	Light Blue	<b>51</b>	10	19	14	13	35	0.29	0.24	57	0.27	<b>0.23</b>	2.18
	Green - Clear	Blue-Green	<b>43</b>	5	15	11	13	11	0.29	0.24	53	0.25	<b>0.22</b>	1.99
	TwilightGreen - Clear	Dark Green	<b>38</b>	3	13	10	13	8	0.29	0.24	49	0.22	<b>0.20</b>	1.93
	CrystalGray - Clear	Light Gray	<b>37</b>	6	14	9	13	17	0.29	0.24	49	0.23	<b>0.20</b>	1.85
	Gray - Clear	Gray	<b>26</b>	5	10	7	12	17	0.29	0.24	41	0.18	<b>0.16</b>	1.57
SN 68	UltraWhite - UltraWhite	Ultra Clear	<b>69</b>	32	36	11	12	39	0.29	0.25	93	0.44	<b>0.39</b>	1.79
	Clear - Clear	Clear	<b>68</b>	29	33	11	12	32	0.29	0.25	90	0.43	<b>0.38</b>	1.80
	Green - Clear	Green	<b>58</b>	14	24	9	11	9	0.29	0.25	73	0.34	<b>0.30</b>	1.91
	TwilightGreen - Clear	Dark Green	<b>51</b>	9	20	8	11	7	0.29	0.25	64	0.30	<b>0.27</b>	1.93
	CrystalGray - Clear	Light Gray	<b>49</b>	17	24	8	11	16	0.29	0.25	72	0.34	<b>0.30</b>	1.65
	Gray - Clear	Gray	<b>34</b>	13	18	6	10	16	0.29	0.25	61	0.29	<b>0.25</b>	1.37
SN 54	UltraWhite - UltraWhite	Ultra Clear	<b>55</b>	17	25	13	18	40	0.29	0.24	69	0.33	<b>0.28</b>	1.93
	Clear - Clear	Clear	<b>54</b>	15	23	13	18	33	0.29	0.24	68	0.32	<b>0.28</b>	1.91
	Green - Clear	Green	<b>46</b>	7	17	10	18	10	0.29	0.24	59	0.27	<b>0.24</b>	1.88
	TwilightGreen - Clear	Dark Green	<b>41</b>	4	15	9	17	8	0.29	0.24	53	0.25	<b>0.22</b>	1.86
	CrystalGray - Clear	Light Gray	<b>39</b>	9	17	9	17	17	0.29	0.24	57	0.26	<b>0.23</b>	1.68
	Gray - Clear	Gray	<b>27</b>	7	13	7	17	17	0.29	0.24	48	0.22	<b>0.20</b>	1.40
SNR 43	UltraWhite - UltraWhite	Light Silver	<b>44</b>	18	20	28	14	50	0.29	0.24	56	0.26	<b>0.23</b>	1.92
	Clear - Clear	Light Silver	<b>43</b>	17	19	27	14	42	0.29	0.24	56	0.26	<b>0.23</b>	1.89
	Green - Clear	Green	<b>36</b>	8	14	21	14	14	0.29	0.24	50	0.23	<b>0.20</b>	1.78
	TwilightGreen - Clear	Dark Green	<b>32</b>	5	12	18	13	11	0.29	0.24	46	0.21	<b>0.19</b>	1.73
	CrystalGray - Clear	Silver Gray	<b>31</b>	10	13	17	13	21	0.29	0.24	48	0.22	<b>0.19</b>	1.60
	Gray - Clear	Silver Gray	<b>22</b>	8	10	11	13	19	0.29	0.24	41	0.19	<b>0.17</b>	1.31
<b>High Performance Series</b>														
Neutral 78/65 (#3)	UltraWhite - UltraWhite	Ultra Clear	<b>80</b>	41	62	12	12	21	0.31	0.27	166	0.81	<b>0.70</b>	1.13
	Clear - Clear	Clear	<b>78</b>	38	54	13	12	19	0.31	0.27	155	0.75	<b>0.65</b>	1.19
Neutral 78/65	UltraWhite - UltraWhite	Ultra Clear	<b>80</b>	41	62	12	12	20	0.31	0.27	156	0.76	<b>0.66</b>	1.21
	Clear - Clear	Clear	<b>78</b>	38	54	13	13	17	0.31	0.27	145	0.71	<b>0.62</b>	1.27
Neutral 61	Clear - Clear	Neutral Pewter	<b>61</b>	27	34	20	15	31	0.30	0.26	95	0.45	<b>0.40</b>	1.53
	Green - Clear	Green	<b>51</b>	13	23	15	14	11	0.30	0.26	71	0.34	<b>0.30</b>	1.74
Neutral 50	Clear - Clear	Neutral Blue	<b>50</b>	30	32	16	11	19	0.33	0.29	94	0.45	<b>0.39</b>	1.27
	Green - Clear	Green	<b>42</b>	14	20	13	10	9	0.33	0.29	69	0.32	<b>0.28</b>	1.50
Neutral 40	Clear - Clear	Neutral Gray	<b>40</b>	26	25	20	12	22	0.33	0.29	78	0.37	<b>0.32</b>	1.25
	Green - Clear	Green	<b>34</b>	12	16	16	12	10	0.33	0.29	59	0.27	<b>0.24</b>	1.40
AG 50	UltraWhite - UltraWhite	Light Silver	<b>51</b>	29	31	28	18	42	0.30	0.25	83	0.40	<b>0.35</b>	1.49
	Clear - Clear	Light Silver	<b>50</b>	26	28	28	18	36	0.30	0.25	80	0.38	<b>0.33</b>	1.51
	Green - Clear	Green	<b>43</b>	12	19	21	18	14	0.30	0.25	62	0.29	<b>0.25</b>	1.68
	CrystalGray - Clear	Silver Gray	<b>36</b>	15	20	17	18	19	0.30	0.25	64	0.30	<b>0.26</b>	1.38
	Gray - Clear	Silver Gray	<b>25</b>	11	16	11	17	17	0.30	0.25	56	0.26	<b>0.23</b>	1.10
AG 43	UltraWhite - UltraWhite	Light Silver	<b>42</b>	25	26	30	15	39	0.31	0.26	74	0.35	<b>0.30</b>	1.37
	Clear - Clear	Light Silver	<b>41</b>	23	24	30	15	34	0.31	0.26	71	0.33	<b>0.29</b>	1.39
	Green - Clear	Green	<b>35</b>	11	15	23	14	14	0.31	0.26	55	0.26	<b>0.23</b>	1.52
	CrystalGray - Clear	Silver Gray	<b>29</b>	13	16	18	14	18	0.31	0.26	58	0.27	<b>0.24</b>	1.25
	Gray - Clear	Silver Gray	<b>21</b>	10	13	11	14	16	0.31	0.26	52	0.24	<b>0.21</b>	0.97
<b>Solar Control</b>														
Silver 20	Clear - Clear	Silver	<b>18</b>	15	13	31	27	27	0.40	0.36	55	0.24	<b>0.21</b>	0.85
	Green - Clear	Green	<b>15</b>	7	8	24	27	13	0.40	0.36	48	0.21	<b>0.19</b>	0.82

- The performance values shown are nominal and subject to variations due to manufacturing tolerances.
- Guardian performance data are calculated for center-of-glass only (no spacer or framing) in accordance with the LBNL Window 6 program.
- Relative Heat Gain, Shading Coefficient, Solar Heat Gain Coefficient and/or LSG may change slightly when using argon gas fill.
- Glass may require heat strengthening or tempering to resist potential thermal stresses.
- SNR 43, Neutral 61 and IS 20 must be heat-treated.
- Guardian recommends edge deletion for all commercial low-E coatings.
- A slight shift in visible light reflectance or transmission may be noticed after heat-treatment.
- Guardian reserves the right to change product performance characteristics without notice or obligation.