

GT2200 SERIES DATA SHEET

TYPE	AAMA RATING & TEST SIZE	AIR (cfm/ft ²) at 50 mph	WATER (psf)	DESIGN PRESSURE (psf)	STRUCTURAL OVERLOAD (psf)	U-VALUE (BTU/hr/ft ² /°F) ¹	CRF
SINGLE HUNG	AW-PG50 60 x 99	0.18	12.11	50.13	75.19	0.35 – 0.44	62
SINGLE HUNG (heavy lock rail)	AW-PG70 60 x 99			70.18	105.27		

NOTE: The air infiltration and water resistance performance values provided above were achieved in a controlled lab environment. Performance of our products in the field will vary depending on product configurations, installation methods, and ambient conditions. AAMA 502 "Voluntary Specification for Field Testing of Newly Installed Fenestration Products" should be adhered to for testing installed products. | ¹ U-values will vary depending upon glazing selected.

GT2200 SERIES QUICK VIEW:

A single-hung window with side-load sash that mulls to 4" frame products. Sash easily removes from frame for cleaning. Thermal strut for enhanced thermal performance.

STANDARD FEATURES

- Dual strut thermal breaks with 24 mm separation for improved thermal performance
- Block & tackle balances for superior operation
- Mulls to 4" frame fixed and operable products
- Sash removes from frame for maintenance & cleaning without special tools
- Full-length extruded lift handles
- Exterior-beveled (putty) glazing leg & up to 15/16" insulating glass

OPTIONAL FEATURES

- Applied-profile muntin grids
- Extruded automatic latch at sill
- High-performance balances up to 100 lbs. per sash with same sightlines at jambs as standard balance
- White bronze hardware
- Dual finish (two-tone color) option



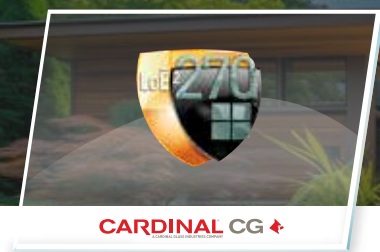
Window series: GT2200 Single Hung — General Specifications & Details

- Nominal Frame/Sill Wall Thickness: 0.062/0.094"
- Applications: Industrial, Educational, Hospitals, Acoustical
- Mulls to operable and fixed units with 4" frame depth
- Max. Test size: 5'0" x 8'3"
- Glazing Options:
 - Single Glazed: Available
 - Insulating: 15/16" IG available
- Muntins: Grids between lites of IG or exterior applied
- Maximum Sash Weight: Standard balancing of both sash to 80 lbs. Optional heavy-duty system to 120 lbs. Depends on height-to-width ratio (please contact factory)

- Finish Options:
 - AAMA 2603 — Standard acrylic or polyester
 - AAMA 2604 — 2 coat 50% fluoropolymer
 - AAMA 2605 — 2 coat fluoropolymer 70% kynar
 - Powder Coat
 - Anodized
- Hardware:
 - White bronze hardware
- Accessories:
 - Frame Family: 4"
 - Fixed Lite Option System: GT1400
 - Mullions:
 - Stacking: Integral & fixed-stack mull
 - Side: 3-piece-mull
 - Panning/Trims: Available
 - Receptor Systems: Available
 - Screen: Security/vandal screen available

Our products are tested to the standards of and certified by the American Architectural Manufacturer's Association and the National Fenestration Rating Council.

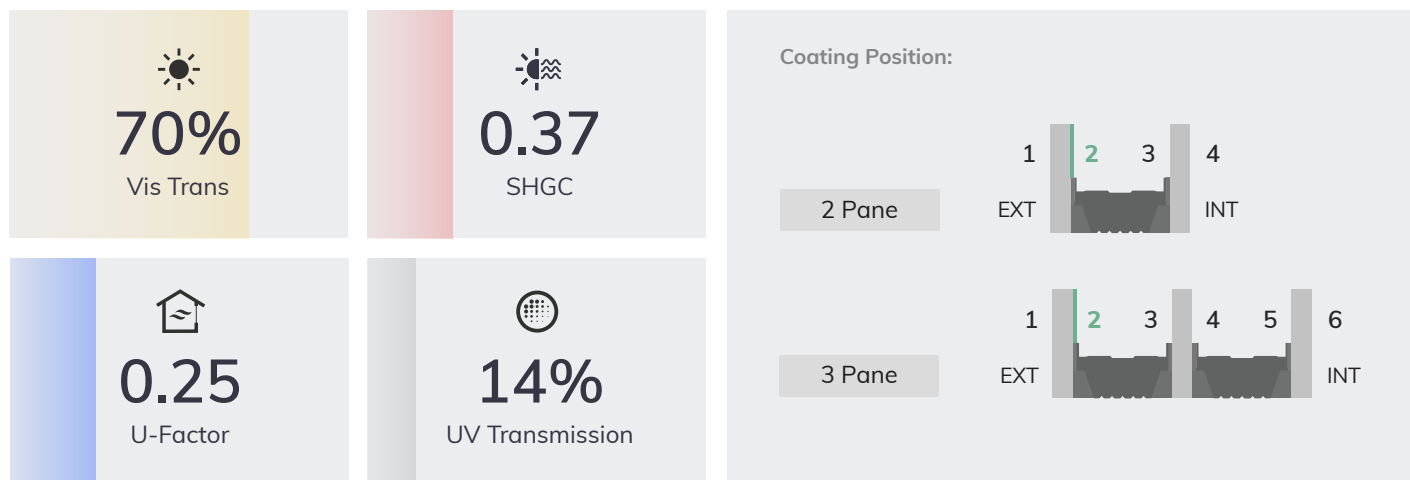




LoE²-270

Moderate Solar Control for All Seasons

Cardinal LoE²-270® is a previous-generation glass coating that provides great solar heat gain protection and a low U-Factor, bringing interior comfort for all seasons. It has slightly better SHGC and UV transmission values compared to LoE²-272 glass.



Data is produced using LBNL Window 7.8. 2-pane IG units have 13mm airspace and filled to 90% argon.

Benefits of LoE²-270

All-Season Comfort	Low U-Factors	Neutral Appearance
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The LoE² coated glass family delivers year-round comfort in any weather. In summer, it rejects the sun's heat and damaging UV rays. In winter, it reflects heat back into the room.

Laminated options

Custom shapes & sizes

Max dimensions: 96" x 144"

Thicknesses: 2.2 to 6mm

Note: LoE²-270 is available as annealed, heat-strengthened or tempered glass.

ENERGY STAR 7.0

ENERGY STAR® is a program run by the U.S. Environmental Protection Agency (EPA) that promotes energy efficiency in consumer products, including windows. ENERGY STAR 7.0 is the latest version of the ENERGY STAR program's requirements for windows.

LoE²-270 can be used to meet the criteria for the **Northern** and **North-Central** climate zones. In the Northern climate zone, choose LoE²-270 with a triple pane IG unit.

Whole-Window Performance Criteria

	U-Factor	SHGC	
► Northern	≤0.22	≥0.17	Prescriptive
	≤0.23	≥0.35	Equivalent Energy Performance
	≤0.24		
	≤0.25		
	≤0.26		
► North-Central	≤0.25	≤0.40	
► South-Central	≤0.28	≤0.23	
► Southern	≤0.32	≤0.23	



3/4" Dual Pane with 3mm Glass • 1" Triple Pane with 3mm Glass • 90% Argon

Center-of-Glass Performance		VISIBLE LIGHT		FADING		SHGC	U-FACTOR	
		Transmission	Exterior	UV	ISO		Air Fill	Argon Fill
							IP / SI	IP / SI
Dual Pane	► LoE ² -270 / Clear	70%	12%	14%	52%	0.37	0.30 / 1.68	0.25 / 1.41
	► LoE ² -270 / LoE-i89	68%	12%	14%	50%	0.36	0.23 / 1.32	0.20 / 1.14
Triple Pane	► LoE ² -270 / Clear / LoE-180	62%	16%	7%	42%	0.33	0.16 / 0.92	0.13 / 0.73
	► LoE ² -270 / LoE-180 / LoE-i89	60%	16%	6%	41%	0.32	0.14 / 0.79	0.11 / 0.64

LBNL Window 7 per NFRC100 conditions. LoE²-270 is intended for the 2nd surface on an insulating glass unit.



ENGINEERING THE FUTURE OF GLASS

Contact Cardinal CG to learn more about LoE²-270 and other Cardinal glass products.

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 www.cardinalcorp.com