

ENERGYSelect™

25 | 28 | 36 | 40 | R42 | 63

Energy Select™ is the family of low-emissivity coated glass products designed to meet and exceed the most stringent code requirements for commercial applications. These high-performance glass solutions go beyond what is required today, positioning architects to meet the challenges of designing for the future. With a broad range of architectural low-e options and tinted glass colors, Energy Select provides aesthetic appeal and energy efficiency, meeting the design and performance requirements of each project. AGC has made choosing the right product easier: For Every Code. For Every Region.

ENERGYSelect™
25

Energy Select 25 combines the benefits of a low-e glass and the visual appeal and solar control of the Solarshield® tinted glass options, achieving SHGC performance as low as 0.25 using Pure Grey with the coating on the #2 surface. Available in Pure Grey, Pure Bronze, Meadow Green and Forest Green, Energy Select 25 blocks solar energy up to 82%, while providing a 0.25 winter U-value. In a triple-glazed application with the addition of Energy Select 63 on surface #5, Energy Select 25 offers winter U-values as low as 0.12. These spectrally selective glass options provide architects with the ability to select the aesthetics desired, and PERFORMANCE required, resulting in a beautiful and energy-efficient design for each project.

ENERGYSelect™
28

Energy Select 28 is a premium low-e glass, offering maximum performance to meet the most stringent energy code requirements. Energy Select 28 utilizes the coating on the #2 surface of the glass to provide a 0.29 SHGC, blocking 76% of the solar energy without sacrificing daylighting. Energy Select 28 has a visible light transmittance of 60% and 2.11 light to solar gain ratio. A triple IGU combined with Energy Select 63 on surface #5 offers a 0.13 U-value with a 0.26 SHGC.

ENERGYSelect™
36

Energy Select 36 low-e glass is designed to block solar heat gain. This product provides energy efficiency, attractive neutral appearance and high light transmittance 63%, while blocking 69% of the solar energy. The 0.36 SHGC helps lower cooling costs and provides a superior 1.75 light to solar gain ratio. For colder regions where a low U-value is required, Energy Select 36 combined with Energy Select 63 on surface #5 results in a 0.12 U-value.

ENERGYSelect™
40

Energy Select 40 low-e glass blocks 66% of the solar energy with a 0.39 SHGC. The 69% visible light transmittance and low indoor reflectance of 12% delivers energy savings and high levels of natural light, resulting in a stunning neutral appearance. For applications requiring lower U-value, Energy Select 40 can be combined with Energy Select 63 in a triple glazed IGU.

ENERGYSelect™
R42

Energy Select R42 is a neutral reflective low-e glass with moderate solar control—0.42 SHGC and a high level of visible light 62%. With just the right amount of reflectivity to bring the glass to life, Energy Select R42 is the perfect choice for high-rise residential and architectural facades. This versatile product is the natural choice for regions where air conditioning is used most of the year, while still providing energy savings in cooler temperatures with a 0.25 winter U-value. Energy Select R42 can also be combined in a triple IGU with Energy Select 63 on the #5 surface, achieving a 0.13 U-value.

ENERGYSelect™
63

Energy Select 63 is a neutral low-emissivity glass for use on the #2 or #3 surface, providing passive solar energy and a U-value performance of 0.26 if used with a Solarshield® tinted glass on the outboard lite. Utilized on the #2 and #4 surfaces of a triple insulating unit, the U-value can be lowered to 0.13. Energy Select 63 allows for solar gain and high levels of visible light 76%, supporting the need for energy-efficient daylighting.

AGC

BEYOND GLASS™

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BUILDING

ENERGY SELECT™

PERFORMANCE DATA COMPARISONS - DUAL INSULATING GLASS - All data based on 1" (25mm) Unit: 1/4" (6mm) | 1/2" (13mm) spacer | 1/4" (6mm)

Energy Select™ Solar Control Low-E Insulating Glass

Product	Transmittance			Reflectance			Winter U-Value		Shading Coefficient	SHGC (100% Air)	LSG	DW Index
	Visible	Solar	UV	Out	In	Solar	Air	Argon				
Energy Select 28 Clear (2) Clear	60%	24%	12%	13%	14%	38%	0.29	0.24	0.33	0.29	2.11	0.44
Energy Select 36 Clear (2) Clear	63%	31%	13%	12%	16%	30%	0.29	0.25	0.41	0.36	1.75	0.48
Energy Select 40 Clear (2) Clear	69%	34%	17%	12%	12%	31%	0.29	0.25	0.44	0.39	1.79	0.53
Energy Select R42 Clear (2) Clear	62%	37%	22%	26%	21%	33%	0.30	0.25	0.49	0.42	1.46	0.48
Clear Energy Select 63 (3)	76%	48%	32%	11%	11%	23%	0.30	0.26	0.68	0.59	1.29	0.64

Energy Select™ 25 Tinted Solar Control Low-E Insulating Glass

Product	Transmittance			Reflectance			Winter U-Value		Shading Coefficient	SHGC (100% Air)	LSG	DW Index
	Visible	Solar	UV	Out	In	Solar	Air	Argon				
Energy Select 25 Pure Grey (2) Clear	36%	18%	7%	6%	10%	14%	0.29	0.25	0.29	0.25	1.40	0.28
Energy Select 25 Pure Bronze (2) Clear	40%	20%	6%	7%	15%	16%	0.29	0.25	0.31	0.27	1.47	0.28
Energy Select 25 Meadow Green (2) Clear	51%	20%	6%	10%	15%	8%	0.29	0.25	0.32	0.28	1.86	0.37
Energy Select 25 Forest Green (2) Clear	48%	19%	4%	9%	14%	7%	0.29	0.25	0.30	0.26	1.87	0.34

Solarshield® Tinted Glass with Energy Select™ 63 Passive Solar Low-E Insulating Glass

Product	Transmittance			Reflectance			Winter U-Value		Shading Coefficient	SHGC (100% Air)	LSG	DW Index
	Visible	Solar	UV	Out	In	Solar	Air	Argon				
Solarshield Pure Grey Energy Select 63 (3)	39%	26%	14%	6%	9%	10%	0.30	0.26	0.41	0.36	1.08	0.33
Solarshield Pure Bronze Energy Select 63 (3)	46%	29%	13%	7%	10%	12%	0.30	0.26	0.45	0.39	1.19	0.35
Solarshield Pure Green Energy Select 63 (3)	67%	32%	17%	9%	11%	9%	0.30	0.26	0.48	0.41	1.61	0.52
Solarshield Meadow Green Energy Select 63 (3)	61%	26%	12%	9%	11%	7%	0.30	0.26	0.41	0.36	1.71	0.45
Solarshield Forest Green Energy Select 63 (3)	56%	24%	9%	8%	10%	6%	0.30	0.26	0.37	0.33	1.72	0.41
Solarshield Sky Blue Energy Select 63 (3)	63%	31%	21%	9%	11%	9%	0.30	0.26	0.47	0.41	1.54	0.53
Solarshield Pure Blue Energy Select 63 (3)	49%	27%	18%	7%	10%	9%	0.30	0.26	0.43	0.37	1.32	0.46
Solarshield Midnight Blue Energy Select 63 (3)	30%	31%	10%	6%	9%	5%	0.30	0.26	0.25	0.22	1.35	0.30

Performance values are based on representative production samples and product modeling data using LBNL Window 6.3 Software. Actual values may differ due to variations in the manufacturing process. Calculations based on generic clear. Environmental conditions based on NFRC 100-2010. Argon data based on 10% air and 90% argon. (2) or (3) indicates coating surface. Thermal stress analysis or building codes may determine the requirement for heat-treated glass. Contact AGC Technical Services at 888-234-8380 to ensure the correct form of glass to be supplied. Damage Weight Index [Tdw-ISO] is a comprehensive measure of UV and visible parts of the solar spectrum from 300-700 nanometers, and a more accurate measure of fading potential. To obtain additional performance data use the AGC Glass Calculator at us.agc.com/glass-calculator.

THE AGC VERTICAL INTEGRATION ADVANTAGE

AGC is a vertically integrated company, managing every process in the value chain. As a result, we're able to align all resources to deliver innovative solutions through a network of fabricators for architectural, interior, fire-rated, and residential glass applications.

Acid-Etched » Back-Painted » Clear and Tinted Float » Coated Glass » Custom Fabrication » Digital Imaging » Fire-Rated » Heat-Treated » Insulated » Laminated » Low-Iron » Reflective » Silk-Screen » Spandrel

GLASS CALCULATOR



Create quick and accurate glass configurations from our entire catalog of product offerings. Scan code to use the glass calculator.

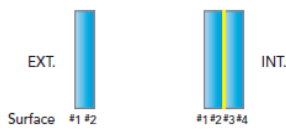
us.agc.com/glass-calculator

PROCESSING CAPABILITIES

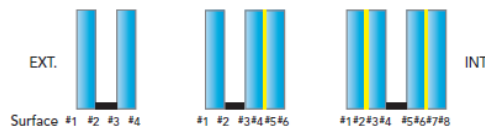


CONVENTIONS IN COATING POSITIONS

MONOLITHIC



DUAL GLAZING



Indicates laminated interlayer positions



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