

Company Overview and Products



Backed by Global Capabilities, AGC Meets Your Unique Needs

LOOK BEYOND



AGC: A NEW WORLD OF PRODUCTS AND SERVICES

AGC Flat Glass North America is a new name—backed by a 30-year history of leadership in the North American glass market. Formerly AFG Glass, AGC Flat Glass North America is a subsidiary of Asahi Glass Company, one of the world's largest float glass organizations.

With our new name, you will continue to benefit from our long tradition of serving the North American marketplace—and building value-added partnerships that meet your needs.

Today, you will also benefit from AGC's global connections with sister companies in Europe and Asia—which provide unique access to such world-leading products as Matelux® acid-etched satin-finish glass, Sunergy® low-emissivity glass and Stopsol® reflective glass. You can also rely on our subsidiary AGC InterEdge for proven fire- and safety-rated solutions.

With a world of product possibilities, AGC can provide the perfect solution for your unique needs—backed by extraordinary service and support.

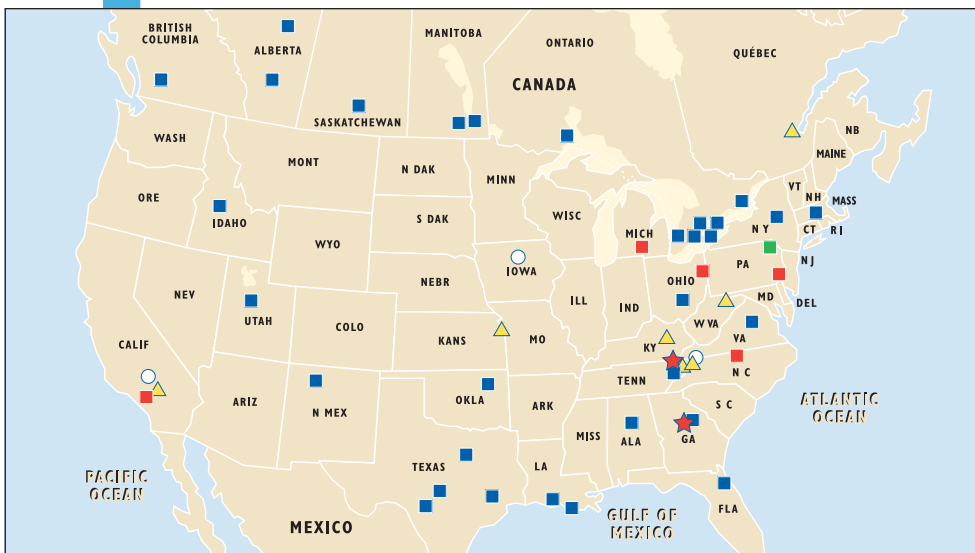
Looking Beyond the Ordinary

In addition to accessing an international array of products, you can depend on AGC to develop next-generation glass solutions. Guided by a global Look Beyond strategy that ensures a continuing focus on innovation, we are committed to looking

beyond your current requirements and today's market trends—and offering leading-edge products that set a new standard for the industry.

All of our North American facilities are dedicated to anticipating and meeting your needs, as well as delivering the highest-quality products every day. Our facilities include **AGC Primary**, focused on primary glass manufacturing; **AGC Coatings**, which applies leading-edge coatings; and **AGC Fabrication**, responsible for tempering, laminating and insulating processes.

The following pages only provide an overview of AGC's capabilities. You can learn more by calling (800) 251-0441 or visiting AGC's corporate Web site at agc-flatglass.com—or go directly to our North American Web site at na.agc-flatglass.com.



AGC Locations

- AGC Corporate
- AGC Primary
- AGC Coatings
- AGC Fabrication—Residential
- AGC Fabrication—Commercial
- AGC Fabrication—Laminating

FLOAT GLASS: PARTNER WITH A WORLD LEADER

Every day, AGC Flat Glass North America focuses on meeting your needs at our seven float lines—and these facilities are backed by the expertise of Asahi Glass Company, a world leader in float glass.

AGC's global strength enables you to benefit from the industry's broadest and most versatile line of float solutions. While other suppliers may embrace a "one-glass-fits-all" philosophy, our Look Beyond strategy ensures that you can access the world's most innovative solutions—and benefit from customized products that meet both your aesthetic and performance needs.

AGC leads the industry in offering innovative, value-added float solutions—including clear float, heavy float, low-iron and tinted Solarshield™ solutions. While most of our products are used in architectural installations, AGC also provides forward-looking glass solutions for residential, automotive, solar and other specialty applications.

Whatever your specific application, aesthetic demand or performance requirement, you can rely on AGC to deliver outstanding float glass that represents the best the world has to offer.

Solarshield™ Tints: A New View of Energy Efficiency

Tinted Solarshield products represent just one example of AGC's world leadership in float glass. By absorbing solar energy, Solarshield solutions help to dramatically reduce energy consumption—while also reducing glare and increasing comfort. Their energy-efficiency benefits are maximized in regions where air conditioning expenses outweigh heating costs.

Available in Solarshield Bronze™, Solarshield Gray™, Solarshield Green™ and Solarshield Dark Green™, this diverse product line is ideal for a range of commercial applications and aesthetic viewpoints. You might find them the perfect solution for atriums, skylights, entrances and storefronts, spandrel glass windows and insulating units—where they provide unobstructed views and unmatched beauty.



COATED PRODUCTS



LOW-E: TAKE CUSTOMIZATION TO A NEW LEVEL

AGC Flat Glass North America offers one of the broadest lines of low-emissivity products—including both sputter-coated (soft-coat) and pyrolytic (hard-coat) solutions. By creating a world of Low-E options, we can meet your exacting requirements for energy efficiency, interior comfort, views, daylighting and architectural aesthetics. AGC is committed to customer satisfaction—meeting the turnaround and delivery needs of contractors, as well as the inventory and durability requirements of fabricators.

Comfort Ti™: Meeting the Needs of North America

Wherever AGC Low-E glass will be installed, you can benefit from a sputter-coated Comfort Ti solution that's customized to regional energy requirements. In fact, Comfort Ti products are designed to meet the needs of an entire continent.

For the coldest regions, **Comfort Ti-PS™** combines outstanding color neutrality, superior light transmission and one of the lowest emissivity ratings available. It reduces annual heating costs by leveraging passive solar energy. In areas where heating and cooling requirements vary by season, AGC's **Comfort Ti-R™** promises balanced annual performance, achieved through excellent insulation.

We also offer an extensive product range for those regions where air conditioning usage outweighs heating usage. These single- and double-silver solutions offer highly customized levels of visible light transmittance and solar heat blocking. The Comfort Ti-AC™ family includes:

- ▶ **Comfort Ti-AC 36™** and **Comfort Ti-AC 40™**, designed for high light transmittance, neutral color and low reflectance
- ▶ **Comfort Ti-AC 23™**, a non-glare, visible light absorber for the hottest climates
- ▶ **Comfort Ti-AC™**, offering solar protection, privacy, a neutral color and a hint of reflectivity
- ▶ **Comfort Ti on Solarshield™ tints**, combining outstanding solar control with a choice of four tints—available with Comfort Ti-AC, Ti-AC 23 or Ti-AC 40 substrates

Comfort E2™ and Sunergy®: Expanding the Options

If you prefer a pyrolytic Low-E solution, AGC offers two attractive options. With excellent passive solar properties, **Comfort E2** combines low emissivity with high light transmission—ensuring comfortable, bright interior spaces. This durable product is also easy to temper, laminate, insulate, transport, stack and store.

Hard-coat **Sunergy** also offers worry-free transportation, stacking, and storage—and is available in Clear, Green, Dark Blue and Azur tints. It combines exceptional solar control and thermal insulation with a neutral, non-reflective appearance.

COATED PRODUCTS

2nd Surface Low-E Solutions — All data based on 1/4"(6mm) Clear or Solarshield Tinted Low-E Exterior / 1/4"(6mm) Clear Interior Lites

PRODUCT	Transmittance			Reflectance			U-Value				Shading Coefficient	SHGC	Rel. Heat Gain	Light to SHGC Ratio	Damage-Weighted Index ISO
	Vis.	Solar	UV	Vis. Ext.	Vis. In.	Solar	Winter		Summer						
							Air	Argon	Air	Argon					
Clear Comfort Ti-AC 40	68	34	39	9	11	30	0.29	0.24	0.28	0.22	0.45	0.39	94	1.74	0.59
Clear Comfort Ti-AC 36	65	31	32	10	11	32	0.29	0.24	0.28	0.21	0.41	0.36	86	1.81	0.54
Clear Comfort Ti-AC 23	38	18	16	13	11	27	0.29	0.24	0.28	0.22	0.27	0.23	58	1.65	0.33
Clear Comfort Ti-AC	58	33	25	29	23	36	0.29	0.24	0.28	0.22	0.44	0.38	91	1.53	0.48
Clear Comfort Ti-R	66	38	17	21	19	30	0.29	0.24	0.28	0.21	0.50	0.44	104	1.50	0.47
Clear Comfort Ti-PS	74	46	36	11	11	21	0.30	0.25	0.29	0.23	0.61	0.53	126	1.40	0.63
Clear Comfort E2	73	54	39	14	15	13	0.34	0.30	0.35	0.30	0.72	0.63	149	1.16	0.61
Clear Sunergy	60	42	36	12	16	12	0.37	0.33	0.38	0.34	0.59	0.51	124	1.18	0.54
Green Comfort Ti-AC 40	57	24	13	9	10	9	0.29	0.24	0.28	0.22	0.36	0.31	75	1.84	0.42
Green Comfort Ti-AC 23	33	13	8	11	11	10	0.29	0.24	0.28	0.22	0.24	0.21	52	1.57	0.27
Green Comfort Ti-AC	51	23	13	23	23	15	0.29	0.24	0.28	0.22	0.34	0.29	71	1.76	0.38
Green Sunergy	50	24	13	10	15	7	0.37	0.33	0.38	0.34	0.39	0.33	82	1.52	0.39
Gray Comfort Ti-AC 40	32	17	10	6	9	12	0.29	0.24	0.28	0.22	0.28	0.24	60	1.33	0.25
Gray Comfort Ti-AC 23	19	9	7	6	10	11	0.29	0.24	0.28	0.22	0.19	0.17	43	1.12	0.17
Gray Comfort Ti-AC	30	17	11	10	22	14	0.29	0.24	0.28	0.22	0.28	0.25	61	1.20	0.24
Bronze Comfort Ti-AC 40	38	19	10	7	9	13	0.29	0.24	0.28	0.22	0.30	0.26	65	1.46	0.27
Bronze Comfort Ti-AC 23	23	11	6	7	11	13	0.29	0.24	0.28	0.22	0.21	0.18	45	1.28	0.18
Bronze Comfort Ti-AC	35	20	10	13	22	16	0.29	0.24	0.28	0.22	0.31	0.27	65	1.30	0.26
DkGrn Comfort Ti-AC 40	49	19	7	8	10	7	0.29	0.24	0.28	0.22	0.30	0.26	64	1.88	0.34
DkGrn Comfort Ti-AC 23	29	11	4	9	11	7	0.29	0.24	0.28	0.22	0.21	0.18	46	1.61	0.21
DkGrn Comfort Ti-AC	44	17	7	18	23	10	0.29	0.24	0.28	0.22	0.28	0.24	60	1.83	0.31
Azur Sunergy	50	26	21	10	15	7	0.37	0.33	0.38	0.34	0.41	0.36	88	1.39	0.43
Dark Blue Sunergy	36	20	17	7	15	6	0.37	0.33	0.38	0.34	0.34	0.30	74	1.20	0.36

3rd Surface Low-E Solutions — All data based on 1/4"(6mm) Clear or Tinted Exterior / 1/4"(6mm) Clear Low-E Interior Lites

PRODUCT	Transmittance			Reflectance			U-Value				Shading Coefficient	SHGC	Rel. Heat Gain	Light to SHGC Ratio	Damage-Weighted Index ISO
	Vis.	Solar	UV	Vis. Ext.	Vis. In.	Solar	Winter		Summer						
							Air	Argon	Air	Argon					
Clear/Comfort Ti-AC 40	68	34	39	11	9	32	0.29	0.24	0.28	0.22	0.55	0.47	113	1.45	0.59
Clear/Comfort Ti-AC 36	65	31	32	11	10	34	0.29	0.24	0.28	0.21	0.52	0.45	107	1.44	0.54
Clear/Comfort Ti-R	66	38	17	19	21	32	0.29	0.24	0.28	0.21	0.56	0.49	116	1.35	0.47
Clear/Comfort Ti-PS	74	46	36	11	11	23	0.30	0.25	0.29	0.23	0.68	0.59	139	1.25	0.63
Clear/Comfort E2	73	54	39	15	14	14	0.34	0.30	0.35	0.30	0.79	0.69	163	1.06	0.61
Clear/Sunergy	60	42	36	16	12	14	0.37	0.33	0.38	0.34	0.75	0.65	156	0.92	0.54
Green/Comfort Ti-AC 40	59	25	20	9	9	10	0.29	0.24	0.28	0.22	0.43	0.37	89	1.59	0.47
Green/Comfort Ti-AC 36	57	23	16	9	10	11	0.29	0.24	0.28	0.21	0.41	0.36	86	1.58	0.43
Green/Comfort Ti-R	58	26	9	16	20	13	0.29	0.24	0.28	0.21	0.41	0.35	85	1.66	0.38
Green/Comfort Ti-PS	65	31	19	9	11	9	0.30	0.25	0.29	0.23	0.48	0.41	99	1.59	0.50
Green/Comfort E2	64	33	20	12	13	9	0.34	0.30	0.35	0.30	0.52	0.45	108	1.42	0.49
Green/Sunergy	53	27	18	13	12	9	0.37	0.33	0.38	0.34	0.50	0.43	106	1.23	0.43
Gray/Comfort Ti-AC 40	35	18	16	6	8	13	0.29	0.24	0.28	0.22	0.34	0.30	73	1.17	0.30
Gray/Comfort Ti-AC 36	33	16	13	6	9	13	0.29	0.24	0.28	0.21	0.33	0.28	69	1.18	0.28
Gray/Comfort Ti-R	34	20	7	8	20	13	0.29	0.24	0.28	0.21	0.35	0.30	74	1.13	0.24
Gray/Comfort Ti-PS	38	25	15	6	10	10	0.30	0.25	0.29	0.23	0.41	0.36	87	1.06	0.32
Gray/Comfort E2	37	29	16	7	12	7	0.34	0.30	0.35	0.30	0.48	0.42	102	0.88	0.31
Gray/Sunergy	31	23	15	7	11	7	0.37	0.33	0.38	0.34	0.47	0.41	99	0.76	0.28
Bronze/Comfort Ti-AC 40	41	20	15	7	8	15	0.29	0.24	0.28	0.22	0.37	0.32	78	1.28	0.32
Bronze/Comfort Ti-AC 36	40	19	13	7	9	15	0.29	0.24	0.28	0.21	0.36	0.31	75	1.29	0.29
Bronze/Comfort Ti-R	40	23	7	10	20	15	0.29	0.24	0.28	0.21	0.38	0.33	80	1.21	0.26
Bronze/Comfort Ti-PS	45	28	14	7	10	11	0.30	0.25	0.29	0.23	0.45	0.39	94	1.15	0.34
Bronze/Comfort E2	44	32	15	8	12	8	0.34	0.30	0.35	0.30	0.52	0.45	109	0.98	0.33
Bronze/Sunergy	37	25	14	8	11	8	0.37	0.33	0.38	0.34	0.51	0.44	107	0.84	0.29
BlueGrn/Comfort Ti-AC 40	58	25	21	9	9	11	0.29	0.24	0.28	0.22	0.43	0.37	89	1.57	0.48
BlueGrn/Comfort Ti-AC 36	56	23	17	10	10	12	0.29	0.24	0.27	0.21	0.41	0.36	86	1.56	0.44
BlueGrn/Comfort Ti-R	56	26	10	16	21	14	0.29	0.24	0.27	0.21	0.41	0.36	86	1.56	0.39
BlueGrn/Comfort Ti-PS	64	31	20	10	11	10	0.30	0.25	0.29	0.23	0.48	0.42	100	1.50	0.51
BlueGrn/Comfort E2	62	34	21	13	13	9	0.34	0.30	0.35	0.30	0.53	0.46	110	1.35	0.49
BlueGrn/Sunergy	51	27	20	13	12	9	0.37	0.33	0.38	0.34	0.51	0.44	108	1.16	0.43
DkGrn/Comfort Ti-AC 40	50	19	10	8	9	6	0.29	0.24	0.28	0.22	0.35	0.30	74	1.67	0.37
DkGrn/Comfort Ti-AC 36	48	18	8	8	9	7	0.29	0.24	0.28	0.21	0.34	0.29	72	1.66	0.34
DkGrn/Comfort Ti-R	49	19	4	13	20	8	0.29	0.24	0.28	0.21	0.33	0.28	69	1.75	0.31
DkGrn/Comfort Ti-PS	55	23	9	8	11	6	0.30	0.25	0.29	0.23	0.37	0.32	79	1.72	0.40
DkGrn/Comfort E2	54	24	10	10	13	6	0.34	0.30	0.35	0.30	0.40	0.35	85	1.54	0.38
DkGrn/Sunergy	44	19	9	11	12	6	0.37	0.33	0.38	0.34	0.39	0.34	84	1.29	0.33

Transmittance of UV rays are calculated as Tuv. Additional methods of calculation including Krochmann (Tdw-K) and also an assessment of Damage-Weighted Transmittance using Tdw-ISO are available. For more information, contact AGC's Technical Services Department. All units are 1/2" airspace (air-filled). Performance values based on representative production samples and product modeling data using LBNL Optics 5.1 and Window 5.2. Actual values may differ, due to variations in the manufacturing process. Values for center of glass only.

FIRE- AND SAFETY-RATED SYSTEMS



FIRE- AND SAFETY-RATED: TRUST THE INDUSTRY AUTHORITY

AGC InterEdge may have a new name, but one thing hasn't changed: our long history of industry leadership. Formerly InterEdge Technologies, this subsidiary of AGC Flat Glass North America has built a reputation for delivering high-quality products that are proven in rigorous testing, as well as in numerous customer installations.

Glass solutions and framing systems from AGC InterEdge offer you the best of both worlds. They meet the most stringent fire and safety standards, while also satisfying the highest architectural demands—providing a beautiful appearance, plenty of natural light and high levels of visibility.

Glazings: A Product for Every Customer Need

AGC InterEdge offers an extensive line of glazings that combine beauty and security—thanks to innovative new technologies that enable larger expanses of clear viewing. **PyroEdge™** glass solutions meet or exceed code requirements for 20- and 30-minute applications without a hose stream—while **Pyrobel™** products satisfy requirements for 45 to 120 minutes, blocking both heat transmission and fire expansion. **PYRAN® Star and Crystal**—made of a revolutionary glass-ceramic material—offer you a new world of options.

Framing: Supporting Each Customer's Vision

AGC InterEdge also provides a full range of fire- and safety-rated framing systems. With a spectrum of innovative options—including **Quick-Frame™**, **StileLite** and **Vision 60™**—you no longer have to choose between security and appearance. These advanced systems offer free vision, open and aesthetically pleasing interior spaces, and a variety of materials and designs—including wood, aluminum or steel framing; thermally broken framing for transparent walls; or no intermediate framing.

To learn more about the many possibilities available, contact AGC InterEdge directly at (877) 376-3343.

Maximum Glazing Sizes (Clear View)

Product Application Rating	PyroEdge-20 Steel Doors 20 minutes	PyroEdge-20 Wood Doors 20 minutes	Pyrobel-45 Doors 45 minutes	Pyrobel-60 Doors 60 minutes	Pyrobel-90 Doors 90 minutes	PYRAN® Star Non-Temp. Rise Doors 20-60 minutes	PYRAN® Crystal Rise Doors 20-60 minutes
Max. Width	90 3/4"	87 9/16"	58 3/4"	87 5/8"	36"	31"	31"
Max. Height	90 3/4"	87 9/16"	58 3/4"	87 5/8"	61"	76"	76"
Max. Sq. Inches	3154"	2868"	2747"	3855"	2196"	2356"	2356"
Stop Height	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
Product Application Rating	PYRAN® Star 20-60 minutes	PYRAN® Crystal Sidelites, Borrowed Lites, Transoms and Windows 20-60 minutes	Pyrobel-60 Lites, Transoms and Windows 60 minutes	Pyrobel-90 90 minutes	Pyrobel-45 45 minutes	Pyrobel-60 Walls 60 minutes	Pyrobel-120 Walls 120 minutes
Max. Width	76"	76 1/4"	87 5/8"	83 1/2"	96"	96 1/2"	88"
Max. Height	76"	76 1/4"	87 5/8"	83 1/2"	96"	96 1/2"	88"
Max. Sq. Inches	3192"	3246"	3855"	3465"	4608"	4487"	3828"
Stop Height	5/8"	5/8"	5/8"	5/8"	5/8"	1"	1"

PATTERNED AND LAMINATED GLASS

**PATTERNED AND LAMINATED:
VIEW THE AGC DIFFERENCE**

AGC Flat Glass North America offers one of the world's broadest lines of specialty products—including beautiful patterned glass, as well as durable laminated glass. For both product lines, we combine the most advanced technologies with the highest-quality materials—supporting our commitment to product leadership and innovation.

Traditional Patterns and Heavy Krystal: The Industry Standard

With 18 traditional patterned solutions and five Heavy Krystal patterned products, AGC is the industry leader in patterned glass. Combining strength and beauty, patterned solutions from AGC meet the highest architectural standards—whether they are used in interior partitions, translucent doors and windows, foyers, vestibules, or shower and bath enclosures. These lovely products are also perfectly suited for use in furniture, shelving and lighting fixtures.

AGC's Heavy Krystal glass continues to generate excitement in the industry—thanks to its beautiful appearance and extreme versatility. Heavy Krystal Patterns provide the upscale features of heavy glass, but lack the “green edge” associated with high-iron solutions. AGC has created an innovative Pattern Masters network program to ensure that distributors and fabricators are available to cut, edge, drill and temper these products.

Defender™ Laminated Glass: Customized Performance

AGC's high-strength laminated glass is also designed with your needs in mind. To create these highly customized products, we combine our primary, coated or heat-treated glass in a “sandwich” configuration—in which two or more pieces of glass are separated by a vinyl interlayer. These layers are then bonded by heat and pressure.

The resulting product—which is visually indistinguishable from monolithic glass—is built to meet your most exacting specifications for appearance and performance. Whether your concerns focus on hurricane resistance, safety, security or sound control, we can custom-tailor the ideal laminated glass configuration for you.



TRADITIONAL PATTERNS

Aquatex®, Flax®, Florex®, Glacier™, Glass Block™, Glue Chip™, Hammered, Illusions™, Industex®, Krystal Flutes®, Leaf™, Pattern 62, Rain®, Serenity™, Textured Flutex®, V-Groove™, Velvex® and Washboard

HEAVY KRYSTAL PATTERNS

Heavy Krystal Glacier™, Rain™, Serenity™, Storm™ and Textured Flutex™





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(800) 251-0441

AGC Corporate Web site:
agc-flatglass.com

North American Web site:
na.agc-flatglass.com

FABRICATION: TAKE GLASS A STEP BEYOND

AGC Flat Glass North America is committed to meeting your needs for energy efficiency, strength and security. Our Fabrication business uses our outstanding primary and coated glass products to create highly customized solutions—adding unique value through insulating, laminating, heat-treating and other advanced processes. AGC can help you to meet stringent building codes, manage unusual levels of thermal stress or achieve exceptionally high energy efficiency.

AGC's fabricated products include laminated glass, fire- and safety-rated systems, storefront metal solutions, insulating units, spandrel glass and silkcreened products—as well as tempered and heat-strengthened glass.

CUSTOMER SERVICE: DISCOVER A WORLD OF RESOURCES

AGC's Look Beyond philosophy has also led to outstanding customer support. Whether you need performance data, technical support, or an improved understanding of glass options and industry trends, we can deliver a fast, comprehensive response. You can access general experts in architectural glass, specialty product managers or our Technical Services team by sending an e-mail to tech.services@na.agc-flatglass.com.

At AGC's North American Web site—na.agc-flatglass.com—you can request product samples, create and download customized literature with the "Brochure Builder" feature, or use the interactive "Glass Performance Calculator" to choose the ideal AGC glass solution.

AGC has also created a continuing education program for architects, designers, engineers and window makers. We offer online courses, as well as "lunch and learn" programs at your facility, to ensure that you understand and leverage the most recent glass advances. You can earn AIA/CES continuing education credits, education contact hours or learning units. For more information, call (800) 251-0441—or send an e-mail to info@na.agc-flatglass.com.

AGC Flat Glass North America offers the broadest product line of float glass, solar and patterned glass, and coating technologies in the flat-glass industry. For more information on AGC glass products and services, call (800) 251-0441 or visit na.agc-flatglass.com.

AGC Flat Glass North America is committed to environmental stewardship through the use of recyclable materials and sustainable processes in the manufacturing and distribution of our state-of-the-art, energy-efficient flat-glass products. AGC glass has been certified by the ENERGY STAR™ program, run by the U.S. Environmental Protection Agency and the U.S. Department of Energy, as well as the Leadership in Energy and Environmental Design (LEED®) program of the U.S. Green Building Council.