We offer the largest selection of architectural glass available anywhere.

architectural glass



Our high-performance architectural glass sets the industry standard.

With the largest national footprint of any manufacturer in North America, Oldcastle BuildingEnvelope® can deliver the results you want to meet your architectural glass needs. We offer some of the best engineering minds in the industry for you to rely on, as well as the experience and knowledge to handle the most complex projects. Our quality-driven approach to the design, testing and manufacturing of a wide range of architectural glass products applies state-of-the-art technologies and best practices—every step of the way.

In addition to our capabilities as the leading supplier of architectural glass, we offer the most comprehensive portfolio of products and services specified to close the building envelope. Our products include custom-engineered curtain wall and window wall,

architectural windows, storefront systems,
doors and skylights, along with the expertise to
seamlessly integrate all of those elements into
one holistic building envelope.



PROPRIETARY SPECIFICATION

SOFTWARE

BuildingEnvelope®

is a patented glass specification tool that

makes specifying glass



So why choose us as your architectural glass supplier?



THE FIRST AND ONLY **BUILDING ENVELOPE COMPANY**

Why specify glass from just a "glass company" when you can specify glass from a company responsible for what holds the glass in place?



Whether you need one piece of replacement glass in 24 hours or 100,000 square feet of solar control glass for a monumental project, only Oldcastle BuildingEnvelope® is uniquely organized to handle both requests seamlessly. Our strategically located plants allow us to satisfy not only your everyday architectural glass needs, but places us in the unique position to also successfully accommodate large monumental projects throughout North America. And our dozens of local manufacturing plants handle smaller scale projects on a daily basis. The benefit? You will never hear from us that your project is caught behind someone's skyscraper. We also have some of the best engineering minds in the industry for you to rely on, as well as experienced and knowledgeable

local representation to help you with your daily needs. Add to that, a client list on monumental glass projects that reads like a who's who in architecture—

INNOVATIONS IN GLASS If it is happening in glass, chances are we are at the forefront. Our innovative decorative i-Glass® can be imprinted

with any impression imaginable for a truly unique look.

TRACK YOUR ORDER ANYTIME

We are committed to investing in technologies that make your job and doing business with us easier. e-Track® is our exclusive online tracking software that allows you to know exactly where your glass is, from the moment you place the order.



THE BEST

TECHNICAL

here to help you.

ASSISTANCE PERSONNEL

From your local sales and

and project managers—the industry's best people are

support people to some of the most experienced engineers

ONE WARRANTY

Peace of mind, Why juggle multiple fabricators' warranties when you can have just one?



from Vinoly, Foster, Kohn Pedersen Fox to Skidmore Owings and Merrill, HOK and many others, our glass graces some of the most highly regarded architecture. What's more, we offer the most comprehensive collection of glazing products available anywhere. From high-performance products, such as our exclusive ArmorProtect® series of security glazing and StormGlass[™] hurricane-resistant glazing, to highly visual design products, such as Stackwall®, the

industry standard for structural glass wall systems, and our newest innovation, i-Glass® decorative glass for one-of-a-kind custom effects. So whether your next project is one story or 100, we have the glass products

you want, when and where you need them.

WE HAVE THE LARGEST NATIONAL FOOTPRINT

Whether your next project has one or 500 locations and is in Palm Springs or Providence, we have a manufacturing location nearby.





GLASSELECT®

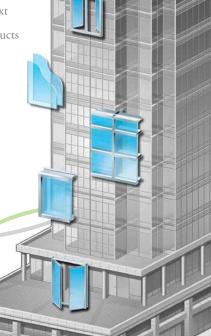
Our original and patented GlasSelect® sets the industry standard for specifying architectural glass—online. Now the best online glass specification tool is even better. It features a simplified user interface, which saves you time. It also offers an almost limitless selection of glass types and options.





AN INTEGRATED APPROACH

Our approach is one of integration: integrated products, processes and stakeholders. The American Institute of Architects calls it Integrated Project Delivery (IPD). It's an approach that focuses on increased collaboration among all parties involved in a building's construction. We approach each project the same way.











Wolfe Center for the Collaborative Arts

Orlando Utilities Commission

Rhythm City Skybridge

Parkland Hospital

We are everywhere.

From Tampa to Tahoe, our architectural glass products grace some of America's most discerning buildings. And we have experience in all industries: hospitals, shopping malls, convention centers, airports, hotels, museums, universities, government and more.





Infiniti of Naperville

Omni Hotel Fort Worth









Perot Museum of Nature and Science

Iowa State University Recreation Facility

University of Texas Southwestern Medical Center

7

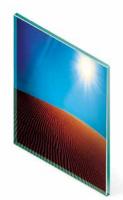
Architectural Glass



HEAT-TREATED: HEAT-STRENGTHENED & TEMPERED

Heat-Treated Product Chart

Products	Strength vs. Annealed	Specifications / Standards	Products Attributes
Heat-Strengthened	Approx. 2x	ASTM C1048	Increased resistance to thermal and wind loads
Fully Tempered	Approx. 4x	ASTM C1048, CPSC 16 CFR-1201, ANSI Z97.1 CAN/CGSB-12.1	Breaks into small particles, meeting safety glazing requirements



DECORATIVE GLASS: i-GLASS®

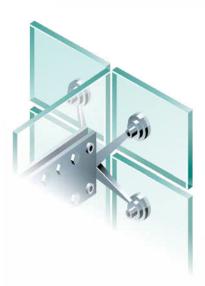
Specifications

Applications:	Interior, Exterior Glass
Minimum Size:	12"x12"
Maximum Size:	96"x144"
Glass Thickness Range:	1/8" - 1/2"
Print Resolution:	360 dpi
File Formats:	PDF, PS, AI, EPS, TIFF, BMP and JPEG

Silk-Screened & Spandrel

Also available. Please visit oldcastlebe.com for more information.





STRUCTURAL GLASS: STACKWALL®

Capabilities

For a floor-loaded system less than 40' high or a suspended-fin system for taller applications and seismic loading conditions. Glass plates are joined to the fins with metal patch or "spider" fittings, and structural silicone. Metal framing (revealed or recessed) is used at the perimeter only.



Stackwall® uses structural glass mullions (fins) to provide unobstructed views. Various insulating glass make-ups can be used to maximize performance.



STRUCTURAL GLASS: FINWALL®

Capabilities

For openings less than 16' tall, exterior flush glazed wall uses interior glass fins (not metal); monolithic, laminated or insulating glass facade. Height limitations will vary according to glass type.





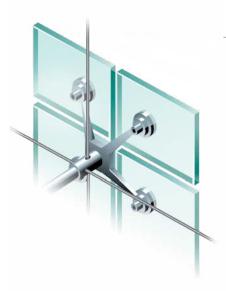
Typical

STRUCTURAL GLASS: POINT-SUPPORT

Capabilities

Oldcastle BuildingEnvelope® will supply point-supported glass for vertical, horizontal and sloped glazing applications as part of an engineered system. The fittings can be designed to mount to structural steel, cable, or rod substructure by others.

Point-supported systems can also be designed to work with the Stackwall® glass fin system.



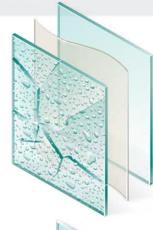
STRUCTURAL GLASS: SPECIALTY SYSTEMS

Capabilities

Oldcastle BuildingEnvelope® has extensive experience in the design of structural glass systems. Custom design assistance is available for structural glass applications according to project development needs.

All-glass entrance systems, insulating glass, laminated glass, or monolithic glass can engineer and supply the steel backup structure for many point-supported glass applications.

Architectural Glass



HURRICANE-RESISTANT: STORMGLASS™

Product Configuration

Outboard Lite	Interlayer	Inboard Lite	Min. Thickness	Average Thickness	Max. Thickness	Weight lbs/ft ²
1/8"	0.075"	1/8"	.31"	.33"	.35"	3.7
3/16"	0.075"	3/16"	.44"	.46"	.48"	5.4
1/4"	0.075"	1/4"	.51"	.54"	.57"	6.5



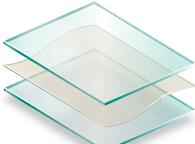
SOUND: RESISTANT

Glass Type	Outboard Lite		Air Space	Inboard Lite					
	Glass	PVB	Glass		Glass	PVB	Glass	STC	OITC
Monolithic IG	1/4"	_	_	1/2"	1/4"	_	_	35	28
Monolithic Laminated	1/4"	0.060"	1/4"	_	_	_	_	39	34
Laminated IG	1/8"	0.030"	1/8"	1/2"	1/4"	_	_	39	31
Double Laminated IG	1/8"	0.030"	1/8"	1/2"	1/8"	0.030"	1/8"	42	33



SPECIALTY GLASS: IONOPLAST

Construction		Thic	kness	We	Weight		
Glass	lonoplast	Glass	in.	mm	lbs/ft ²	kg/m²	
1/4"	0.035"	1/4"	1/2	13	6.3	30	
1/4"	0.060"	1/4"	9/16	14	6.4	31	
1/4"	0.090"	1/4"	19/32	15	6.6	32	

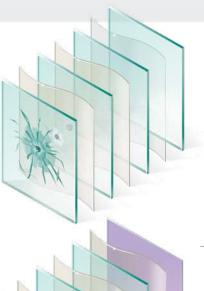


OVERHEAD GLAZING

Typical Products

Nominal		Outboard	Air	Ir	nboard Li	te	Weight
Thickness	Construction	Lite	Space	Glass	PVB	Glass	lbs/ft ²
9/16"	Mono	_	_	1/4" HS	0.060"	1/4" HS	6.4
1-3/16"	IG	1/4" FT*	1/2"	3/16" HS	0.060"	3/16" HS	8.4
1-5/16"	IG	1/4" FT*	1/2"	1/4" HS	0.060"	1/4" HS	9.5

^{*}FT - Fully Tempered, HS - Heat-Strengthened



BULLET-RESISTANT: ARMORRESIST®

A Selection of Security Laminates for Use in Bullet-Resistant Applications Thickness Weight

UL 752	in.	Weight lbs/ft²	Max. Weight	Assembly
1	1 3/16	14.7	500	AGL ⁽¹⁾
2	1 1/2	19.3	500	AGL
3	1 3/4	24.2	500	AGL
4	2	25.8	500	AGL
6	1 13/16	22.6	500	AGL
	1 2 3 4 6	1 13/16 2 11/2 3 13/4 4 2	UL 752 in. lbs/ft² 1 1 3/16 14.7 2 1 1/2 19.3 3 1 3/4 24.2 4 2 25.8	UL 752 in. lbs/ft² Max. Weight 1 1 3/16 14.7 500 2 1 1/2 19.3 500 3 1 3/4 24.2 500 4 2 25.8 500

(1) All glass laminate

BULLET-RESISTANT: ARMORRESIST® PLUS

A Selection of Security Laminates for Use in Bullet-Resistant Applications

Model#	UL 752	Thickness in.	Weight lbs/ft ²	Max. Size	Assembly
222000	2	1.03	11.2	60"x 96"	GP ⁽²⁾
224200	4	1.22	13.5	60"x 96"	GP
226000	6	1.04	10	60"x 96"	GP
228000	8	2.17	25.1	60"x 96"	GP

(2) Glass with exposed polycarbonate

BLAST MITIGATING

Typical Make-Up

	Co	Construction			ness	Weight
Model#	Glass	PVB	Glass	in.	mm	lbs/ft ² kg/m ²
110100	1/8"	0.060"	1/8"	5/16	8	3.60 17.6
110110	3/16"	0.060"	3/16"	7/16	11	5.31 25.9
110120	1/4"	0.060"	1/4"	9/16	14	6.41 33.4

Listed above are constructions of laminated glass that are most commonly specified for bomb-blast resistance mitigation. These are often used in Seismic applications.

FORCED-ENTRY: ARMORPROTECT® PLUS

A Selection of Security Laminates for Use in Forced-Entry Applications

HPW-TP-500				Thickness	Weight			
Model #	FE(3)	BR ⁽⁴⁾	WMFL ⁽⁵⁾	in.	lbs/ft ²	Max. Size	Assembly	
121000	1	Α		7/16	4.6	60"x 96"	GCP ⁽⁶⁾	
121100	1	Α		9/16	5.4	60"x 96"	GCP	
121200	1	В		11/16	6.2	60"x 96"	GCP	
122000	2	В	3	13/16	6.4	60"x 96"	GCP	
122320	2	В	2	15/16	7.2	60"x 96"	GCP	

(3) Forced-Entry (4) These products resist bullet penetration; They are not designed to resist spalling (5) Walker McGough Foltz & Lyeria (6) Glass-clad polycarbonate

We offer the most comprehensive portfolio of products specified to close the building envelope.



Thermal Products

Architectural Windows

Entrances and Storefronts

Skylights

Blast and Hurricane-Resistant



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