

Residential Fabrication

AGC provides custom laminated glass for use monolithically, or as part of an insulating glass unit, combining security, sound control and impact resistance with attractive appearance and energy-efficiency for a wide range of residential applications. Laminated Glass is a safety glazing product and can be a good substitute for tempered glass. It meets the same building code requirements for safety glass applications per CPSC 16 CFR 1201 for Categories I and II, as well as ANSI Z97 .1 and ASTM C-11 72.



Minguell-McQuary Architects

SAFETY AND SECURITY

Laminated glass provides security for both homes and businesses. Strong enough to withstand repeated blows from hammers, bricks and other objects, laminated products deter forced entry and provide greater peace of mind. A variety of interlayers are available, which determine level of protection.

Laminated glass manufactured in accordance with the UL/ANSI 972 - Burglary Resistant Glass.

SOUND CONTROL

Laminated is the perfect choice for sound control. The polyvinyl butyral (PVB) interlayers in laminated glass can significantly reduce noise from highways, airports, railroads, or manufacturing plants. Ideal for single family, multi-family and luxury highrise residential construction in urban areas.

STC Example : 1/4" Monolithic glass has an STC of ~31dB. By comparison, a 1/4" laminated glass has an STC rating of ~34 dB.

Using laminated glass in an insulated glass unit further reduces the level of sound transmitted, improving the sound-control characteristics of the overall window or door. Example: 1" Laminated IGU can deliver an STC of ~39dB.



HURRICANE IMPACT RESISTANCE

Impact resistant laminated glass is ideal for protecting homes from hurricanes, and other impact related events. Impact code requirements will dictate the type of impact glass required, which must be tested and approved within a complete system. Typically, the laminated is on the inboard lite of the IGU.

When installed on an approved window or door, these products meet the requirements of ASTM E-1886 (Small Missile) and E-1996 (Large Missile) wind borne debris standards. E-1886 conformance requires a 0.060 PVB interlayer, while E1996 requires a 0.090 PVB or greater to meet impact test standards.



LOW-E LAMINATED IGU

AGC offers a range of Comfort Select Low-E Coated Glass to meet Energy Star requirements in every region. Comfort Select Low-E glass can be insulated either to the airspace, or as part of the laminated lite depending on your needs. Low-E Laminated units range from 3/4" overall up to 1-7/8" overall thickness, with laminated lites ranging from 1/4" to 2" to meet a variety of needs.



COMMITTED TO ENVIRONMENTAL STEWARDSHIP

AGC Glass Company is committed to promoting environmental stewardship and sustainable building design. This commitment is evident in product innovations that optimize energy performance and improve natural daylighting. AGC's dedication to environmental responsibility extends to the company's manufacturing processes as well. AGC utilizes recycled, recovered, and reusable materials in its operations, including recycled packaging materials and returnable steel racks. Additionally, AGC's internal recycling program is designed to minimize waste and encourage environmental stewardship among employees.



AGC GLASS COMPANY NORTH AMERICA

us.agc.com | info@us.agc.com

330-965-1000 Boardman Plant

215-538-9424 Quakertown Plant

Residential Fabrication

GETTING CUSTOM LAMINATED RESIDENTIAL INSULATING GLASS UNITS JUST GOT EASIER — AND FASTER

LOW-E GLASS OPTIONS:

Comfort Select™ 28

Comfort Select™ 36

Comfort Select™ 73

Other low-e coated glass available, but not standard stock. Check for availability prior to ordering.

TINTED GLASS OPTIONS:

1/8" (3mm) Grey and Bronze

3/16" (5mm) Grey, Bronze and Green

AGC ALLOWS YOU TO CHOOSE THE SPACER THAT BEST MEETS YOUR NEEDS.

SPACER OPTIONS:

Intercept® Tin Plate

Intercept® Ultra Stainless Steel

Duraseal®

Duralite®

Super Spacer®

SOUND TRANSMISSION CLASS (STC)

STC is a standard rating that measures the sound transmission loss for interior walls. This relates to sounds generated indoors.

OUTSIDE INSIDE TRANSMISSION CLASS (OITC)

OITC is a standard rating that measures the sound transmission loss for exterior walls. This relates to sounds generated outdoors: the typical noises that are undesirable to hear inside the dwelling such as automobiles, trains and airplanes.

LAMINATED GLASS CONFIGURATION	STC	OITC
1/8" - 0.030 PVB - 1/8"	34	30
1/8" - 0.060 PVB - 1/8"	35	31
1/8" - 0.090 PVB - 1/8"	35	32
3/16" - 0.030 PVB - 3/16"	36	33
3/16" - 0.060 PVB - 3/16"	36	32
3/16" - 0.090 PVB - 3/16"	35	32

The data shared is based on samples tested and are not guaranteed for all samples or applications. Riverbank Acoustical Laboratories. GANA Glazing Manual 50th Anniversary Edition.

LAMINATED GLASS STOCKED:

CONFIGURATION		WEIGHT (LBS/PSF)	
Nominal Thickness	Interlayer	Monolithic	IGU
1/4"	0.030	3.20	5.33
5/16"	0.060	3.58	5.71
5/16"	0.090	4.02	6.15
5/16"	SentryGlas®	4.02	6.15

Nominal measurements may vary based on exact configuration and components of insulating glass unit. Stock laminated is clear. Tinted laminated glass options available : Grey, Bronze, Green Blue

LEAD TIMES:

Stock Low-Volume	4-5 Days
Custom Low-Volume	7-10 Days
Stock High-Volume	5-6 Weeks
PVB .060 or .090	Quote Basis
SentryGlas®	

PRICING GUIDELINES (Per Unit):

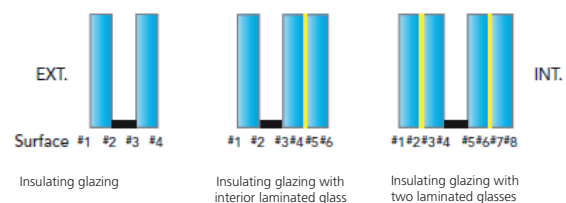
2.0 - 2.0 SF	Standard Pricing
12.1 - 30.0 SF	Call For Quote
Minimum Billing	3.0 SF
Maximum Size	30.0 SF*

*Call for quote over 30.0 sf

GUIDELINES FOR REDUCING NOISE TRANSMITTED

- Use dual insulating glass units in lieu of single pane glass
- Use dissymmetrical glazing
- Thicker glass and/or larger airspace will improve sound control
- Use laminated glass on one or both lites of insulating glass unit

Conventions in Coating Position and Laminated Interlayers



Note: Typically, the laminated lite is on the inboard. Laminated may be used on both the inboard and outboard lites of an insulating glass unit.



AGC GLASS COMPANY NORTH AMERICA

Comfort Select® is a registered trademark of AGC Glass Company North America. Intercept® is a registered trademark of PPG. Duralite® and Super Spacer® are registered trademarks of QUANEX IG SYSTEMS, INC. ©2016 AGC Glass Company North America, Inc. All rights reserved. Reference# 03082016

us.agc.com | info@us.agc.com

330-965-1000 Boardman Plant

215-538-9424 Quakertown Plant