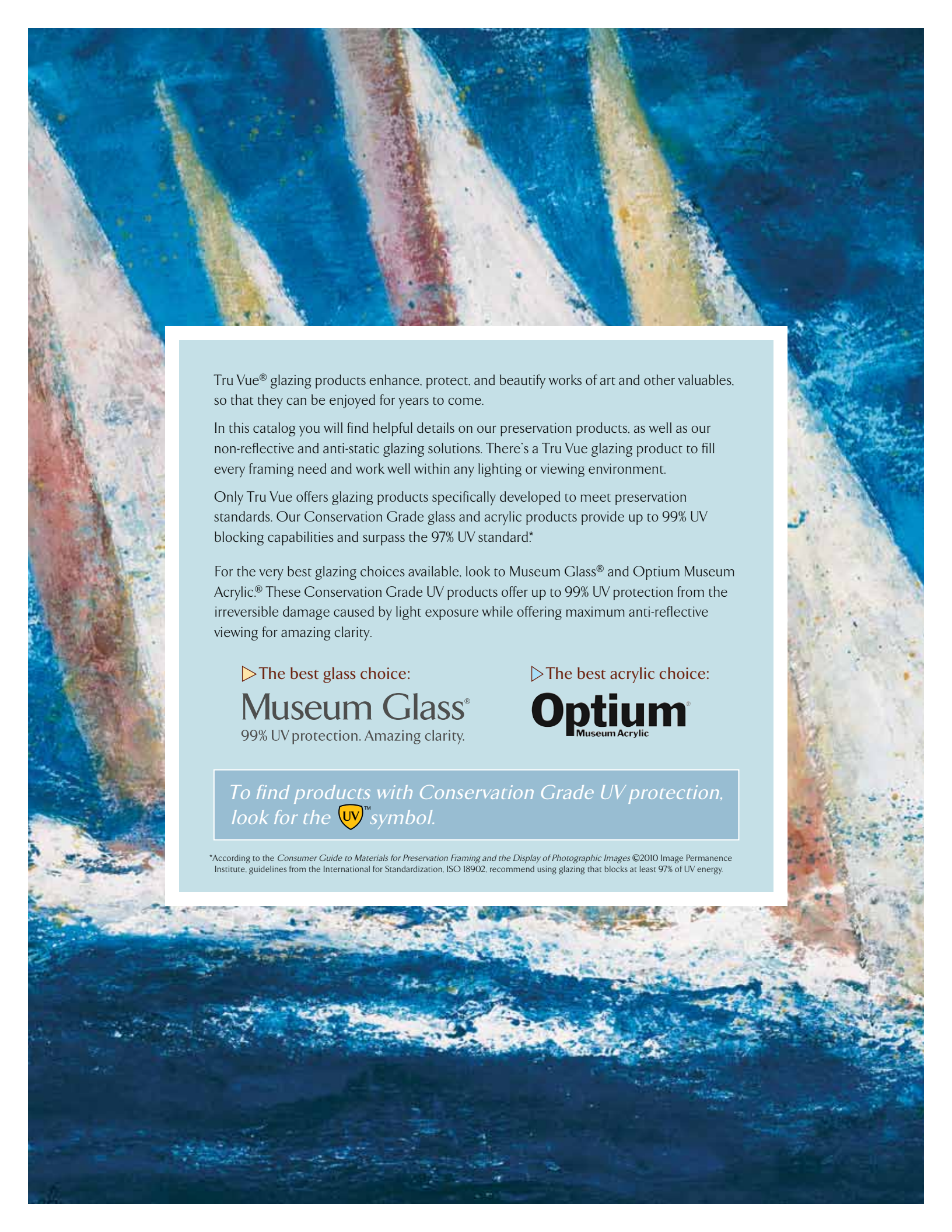




# GLASS & ACRYLIC GLAZING CATALOG

ENHANCE,  
PROTECT &  
BEAUTIFY.





Tru Vue® glazing products enhance, protect, and beautify works of art and other valuables, so that they can be enjoyed for years to come.

In this catalog you will find helpful details on our preservation products, as well as our non-reflective and anti-static glazing solutions. There's a Tru Vue glazing product to fill every framing need and work well within any lighting or viewing environment.

Only Tru Vue offers glazing products specifically developed to meet preservation standards. Our Conservation Grade glass and acrylic products provide up to 99% UV blocking capabilities and surpass the 97% UV standard\*.

For the very best glazing choices available, look to Museum Glass® and Optium Museum Acrylic®. These Conservation Grade UV products offer up to 99% UV protection from the irreversible damage caused by light exposure while offering maximum anti-reflective viewing for amazing clarity.

▶ **The best glass choice:**

**Museum Glass®**  
99% UV protection. Amazing clarity.

▶ **The best acrylic choice:**

**Optium®**  
Museum Acrylic

*To find products with Conservation Grade UV protection,  
look for the  symbol.*

\*According to the *Consumer Guide to Materials for Preservation Framing and the Display of Photographic Images* ©2010 Image Permanence Institute, guidelines from the International for Standardization, ISO 18902, recommend using glazing that blocks at least 97% of UV energy.



# TRU VUE®

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## GLASS / UV *Conservation Grade Protection*

 / Museum Glass® - *the best glass choice.*

 / Conservation Reflection Control®

 / Conservation Clear®



*Tru Vue® Conservation Grade glass products meet ISO standard 18902 and passes ISO 18916 by blocking at least 97% of UV energy.*



## WHEN TO USE

- For virtually invisible glazing that will enhance colors, brightness and contrast levels of all types of artwork, even posters
- For protecting valued diplomas or irreplaceable artwork against damage and fading caused by UV light
- Ideal for framing applications including shadow boxes, multiple mat or deep framing projects

GLASS / UV

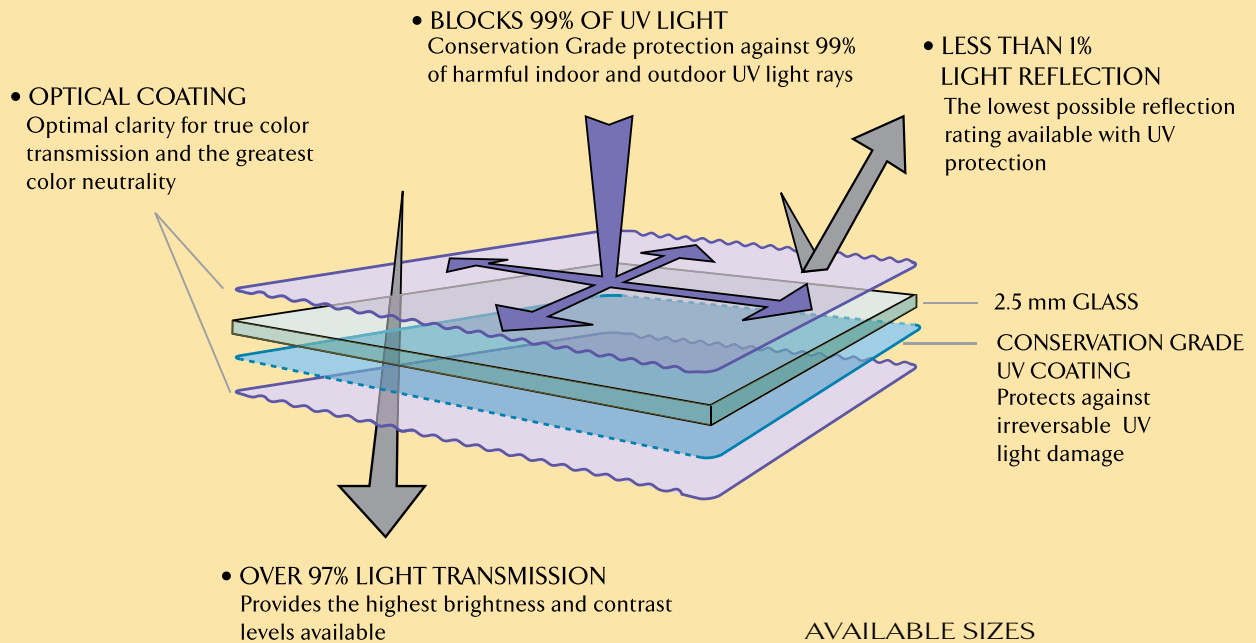
*Conservation Grade Protection*

# Museum Glass®



Museum Glass meets ISO 18902 and passes ISO 18916 by blocking at least 97% of UV energy.

No other glass product compares to Museum Glass®. This premier glass product provides 99% UV protection to protect against fading, and is optically coated for a virtually invisible finish, to create amazing clarity. Tru Vue uses a proprietary multi-step coating process. First, an inorganic silica-based UV inhibiting coating is permanently cured onto the surface of the glass substrate. Then, using Magnetron Sputtering technology, layers of highly energized metal oxides are precisely deposited onto the glass substrate. The result is the most attractive and most protective display option for all works of art.



### AVAILABLE SIZES

Size	Number of lites per box
16 x 20	4 or 16
18 x 24	12
20 x 24	11
22 x 28	8
24 x 30	7
24 x 36	6
32 x 40	1 or 4
36 x 48	3
40 x 60	2
48 x 68	2

HANDLING, CUTTING and CLEANING information can be found in the AT A GLANCE section, page 43.





## WHEN TO USE

- To minimize glare while protecting artwork against harmful UV light rays
- Use on any framing project with up to two mats away from artwork without significant resolution loss

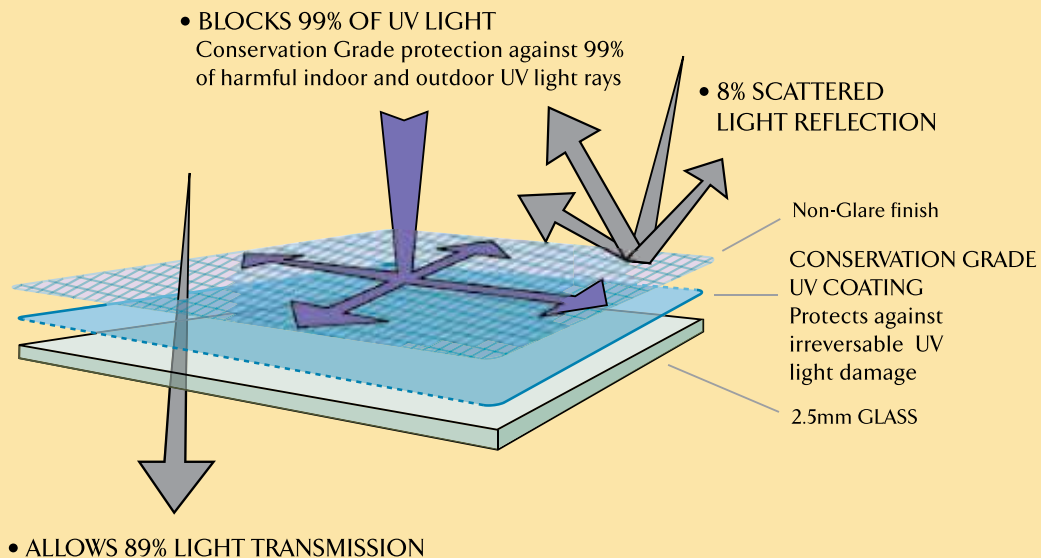
GLASS / UV

*Conservation Grade Protection*

# Conservation Reflection Control®

™ Conservation Reflection Control meets ISO 18902 and passes ISO 18916 by blocking at least 97% of UV energy.

Conservation Reflection Control® is the conservation grade non-glare glass solution. Different from the invisible finish of an anti-reflective glass product, Conservation Reflection Control has a matte-like finish that scatters light to reduce unwanted glare. Additionally, this product provides 99% UV protection to protect against fading. Tru Vue uses a proprietary coating process to produce this ultra protective glass option. An inorganic silica-based UV inhibiting coating is permanently cured onto the glass surface.



### AVAILABLE SIZES

Size	Number of lites per box
16 x 20	23
18 x 24	17
20 x 24	15
22 x 28	12
24 x 30	10

### AVAILABLE SIZES

Size	Number of lites per box
24 x 36	8
26 x 32	9
32 x 40	6
36 x 48	4
40 x 50	2

HANDLING, CUTTING and CLEANING information can be found in the AT A GLANCE section, page 43.

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## WHEN TO USE

- For protecting artwork against damage and fading caused by UV light
- Ideal for any framing application, if reflection-free viewing is not important

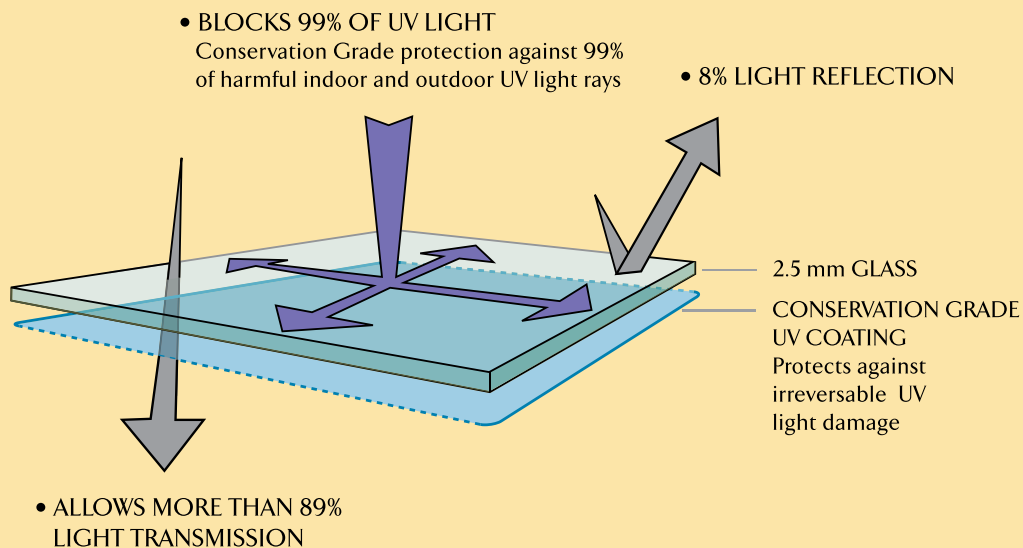
GLASS / UV

Conservation Grade Protection

## Conservation Clear®

 Conservation Clear meets ISO 18902 and passes ISO 18916 by blocking at least 97% of UV energy.

Conservation Clear® is the standard conservation grade glass product. Most frame shops use this product as their default glass option. Conservation Clear glass provides 99% UV protection to protect against fading. Tru Vue uses a proprietary coating process where an inorganic silica-based UV inhibiting coating is permanently cured onto the surface of a glass substrate to produce this ultra protective glass option.



### AVAILABLE SIZES

Size	Number of lites per box
11 x 14	47
12 x 16	38
14 x 18	29
16 x 20	23
18 x 24	17
20 x 24	15
22 x 28	12

### AVAILABLE SIZES

Size	Number of lites per box
24 x 30	10
24 x 36	8
26 x 32	9
32 x 40	6
36 x 48	4
40 x 60	2
48 x 68	2

HANDLING, CUTTING and CLEANING information can be found in the AT A GLANCE section, page 43.



## GLASS

/ AR Reflection-Free®

/ UltraVue®

/ Reflection Control®

/ Premium Clear



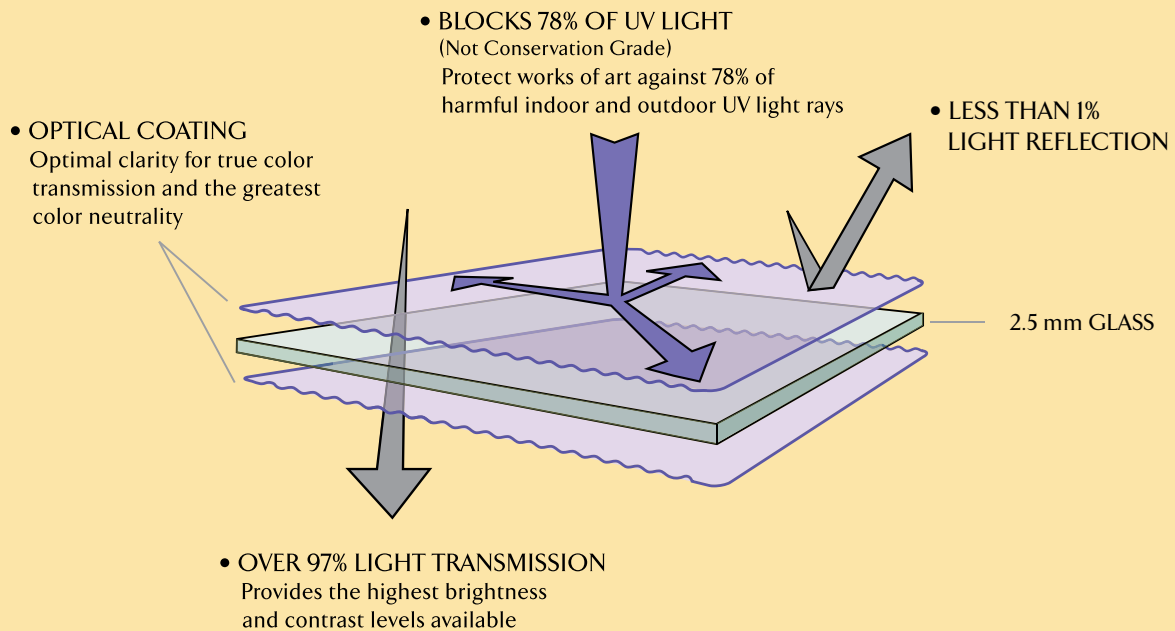


## WHEN TO USE

- Ideal for reflection-free viewing when conservation grade UV protection is not a concern
- To enhance colors, brightness and contrast levels of all types of artwork, such as photographs

# GLASS AR Reflection-Free®

AR Reflection-Free® glass is the best anti-reflective glass solution when preservation is not a concern. This high-quality, anti-reflective glass product provides 78% UV protection and is optically coated to create a virtually invisible finish. Similar to its other anti-reflective products, Tru Vue uses its proprietary coating process using Magnetron Sputtering technology, which deposits precisely controlled layers of highly energized metal oxides onto a color neutral substrate, to produce this product.



### AVAILABLE SIZES

Size	Number of lites per box
16 x 20	3
24 x 36	4
32 x 40	3
36 x 48	2
40 x 60	2

HANDLING, CUTTING and CLEANING information can be found in the AT A GLANCE section, page 43.



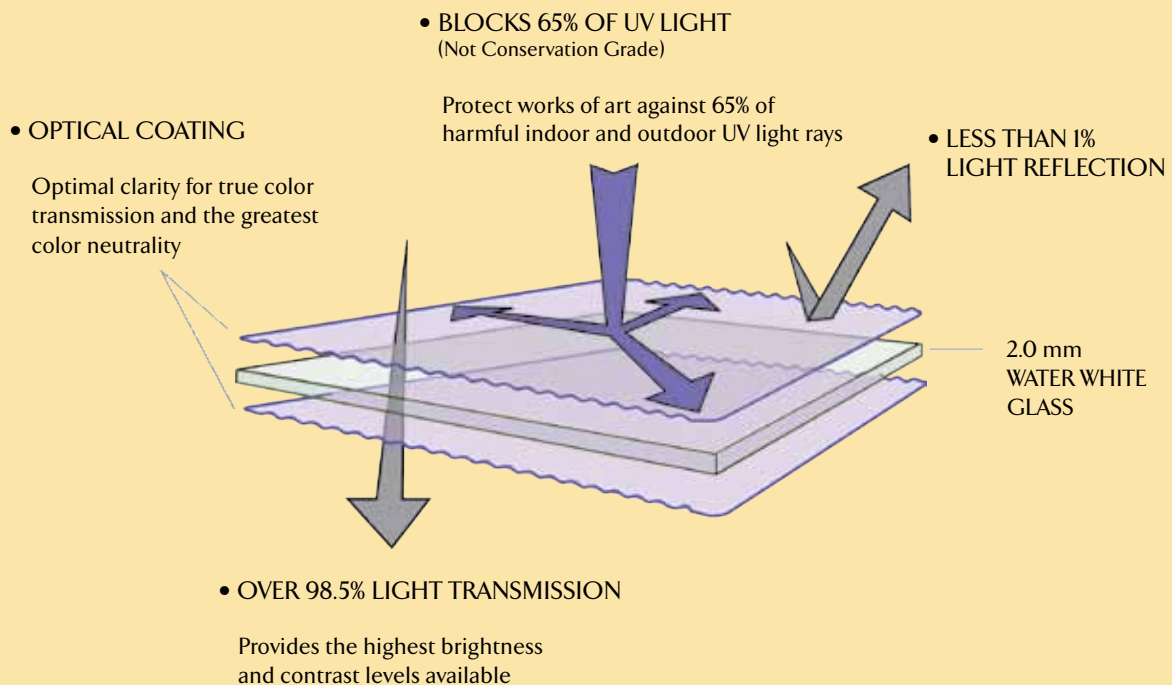


## WHEN TO USE

- Ideal for reflection-free viewing when conservation grade UV protection is not a concern
- To enhance colors, brightness and contrast levels of all types of artwork, such as photographs

# GLASS UltraVue®

UltraVue® glass offers the same superior anti-reflective properties you've come to expect from Tru Vue, on a water white substrate. This high-quality, anti-reflective glass product provides 65% UV protection and is optically coated to create a nearly invisible finish. Similar to its other anti-reflective products, Tru Vue uses its proprietary coating process using Magnetron Sputtering technology, which deposits precisely controlled layers of highly energized metal oxides onto a 2 mm water white substrate to produce the UltraVue product.



### AVAILABLE SIZES

Size	Number of lites per box
32 x 40	3
36 x 48	2
40 x 60	2
48 x 68	2

HANDLING, CUTTING and CLEANING information can be found in the AT A GLANCE section, page 43.

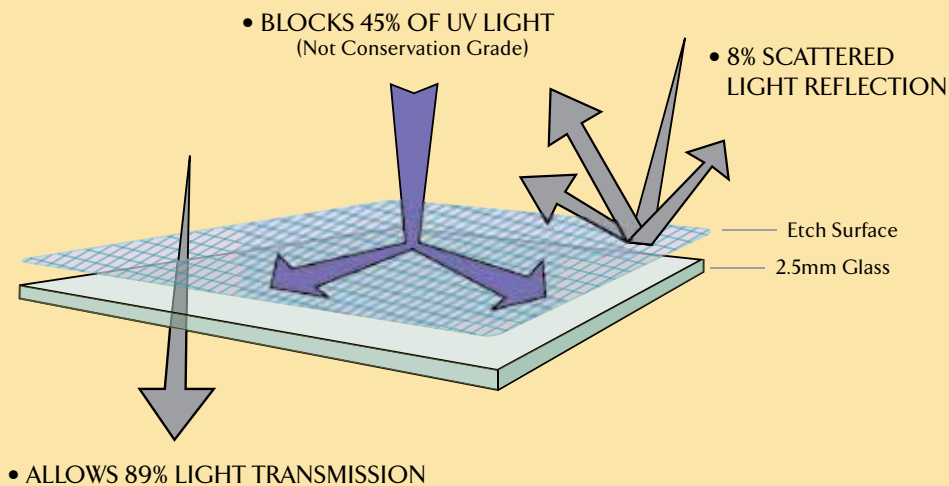


## WHEN TO USE

- Ideal for minimizing glare and reflection when conservation grade UV protection is not a concern
- Use on any framing project with up to two mats away from artwork without significant resolution loss

# GLASS Reflection Control®

Reflection Control® is the non-conservation grade, non-glare glass solution. Different from the invisible finish of an anti-reflective glass product, Reflection Control has a matte-like finish that scatters light to minimize unwanted glare.



### AVAILABLE SIZES

Size	Number of lites per box
11 x 14	47
14 x 18	29
16 x 20	23
18 x 24	17
20 x 24	15
22 x 28	12
24 x 30	10

### AVAILABLE SIZES

Size	Number of lites per box
24 x 36	8
26 x 32	9
30 x 36	7
32 x 40	6
36 x 48	4
40 x 60	2

HANDLING, CUTTING and CLEANING information can be found in the AT A GLANCE section, page 43.

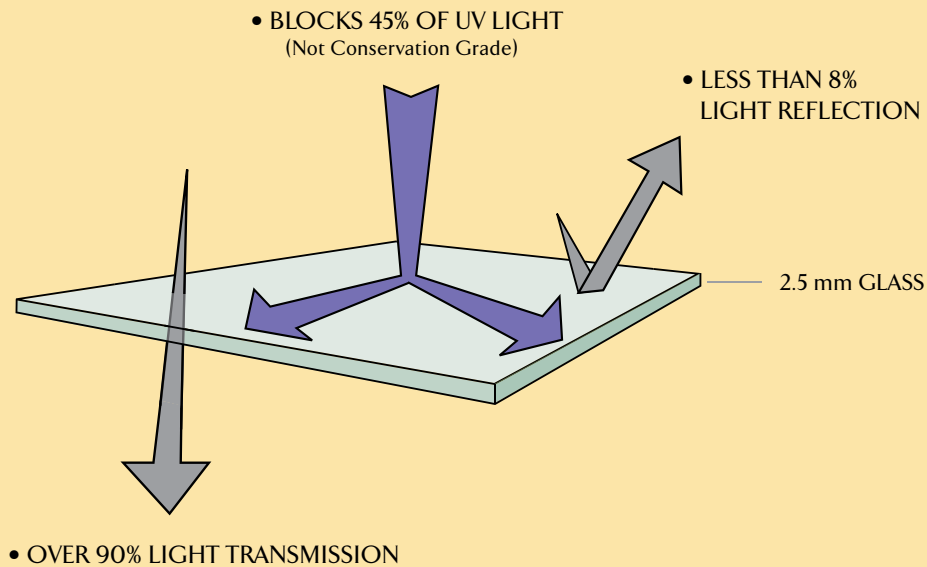


## WHEN TO USE

- Works well in any presentation hung in a controlled lighting environment
- Can be used with any number of mats

# GLASS Premium Clear

Premium Clear glass is the highest quality regular framing glass available.



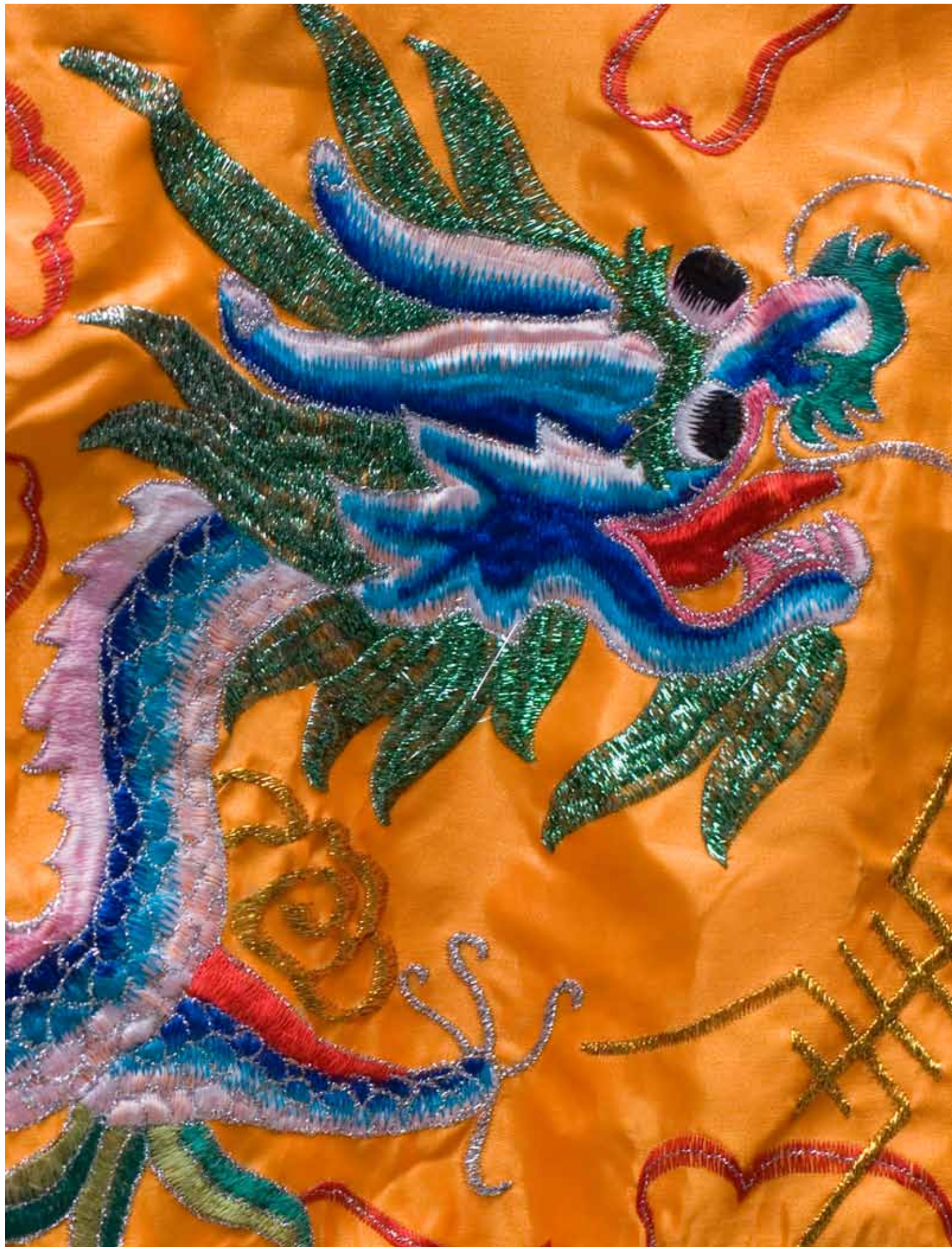
### AVAILABLE SIZES

Size	Number of lites per box
8 x 10	90
11 x 14	47
12 x 16	38
14 x 18	29
16 x 20	23
18 x 24	17
20 x 24	15
22 x 28	12
24 x 30	10
24 x 36	8

### AVAILABLE SIZES

Size	Number of lites per box
26 x 32	9
26 x 36	8
28 x 36	7
28 x 38	7
30 x 36	7
32 x 40	6
36 x 48	4
40 x 50	2
40 x 60	3

HANDLING, CUTTING and CLEANING information can be found in the AT A GLANCE section, page 43.



## ACRYLIC / UV *Conservation Grade Protection*

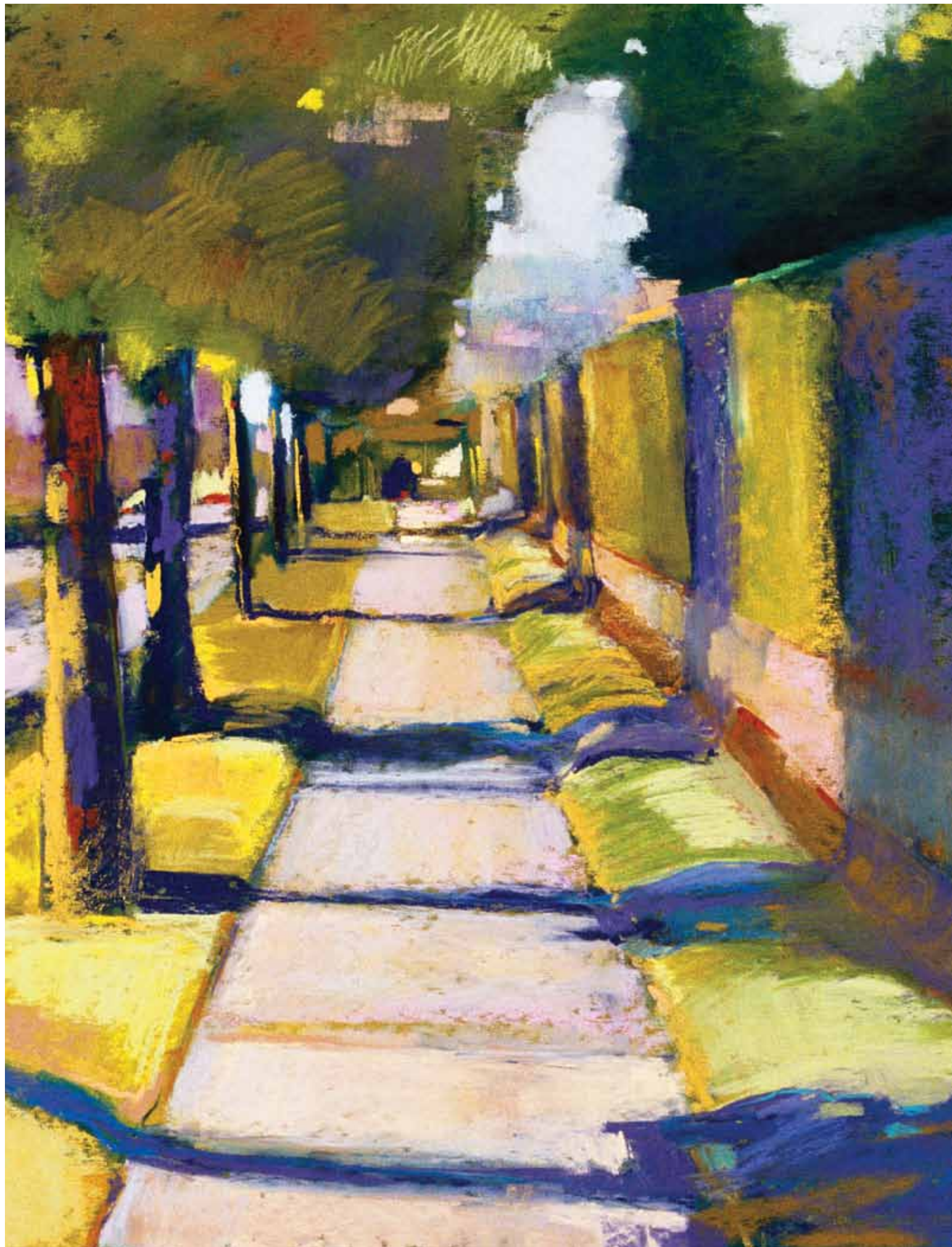
UV™ / Optium Museum Acrylic® - *the best acrylic choice.*

UV™ / Conservation Reflection Control® Acrylic

UV™ / Conservation Clear® Acrylic



*Tru Vue® Conservation Grade glass products meet ISO standard 18902 and passes ISO 18916 by blocking at least 97% of UV energy.*






## WHEN TO USE

- For virtually invisible glazing that will enhance colors, brightness and contrast levels of all types of artwork, including shadow boxes
- For protecting valued, irreplaceable artwork against damage and fading caused by UV light
- Ideal for oversized framing applications and static sensitive pieces, such as pastels and charcoals
- When lightweight, shatter and abrasion resistant glazing is essential for protection

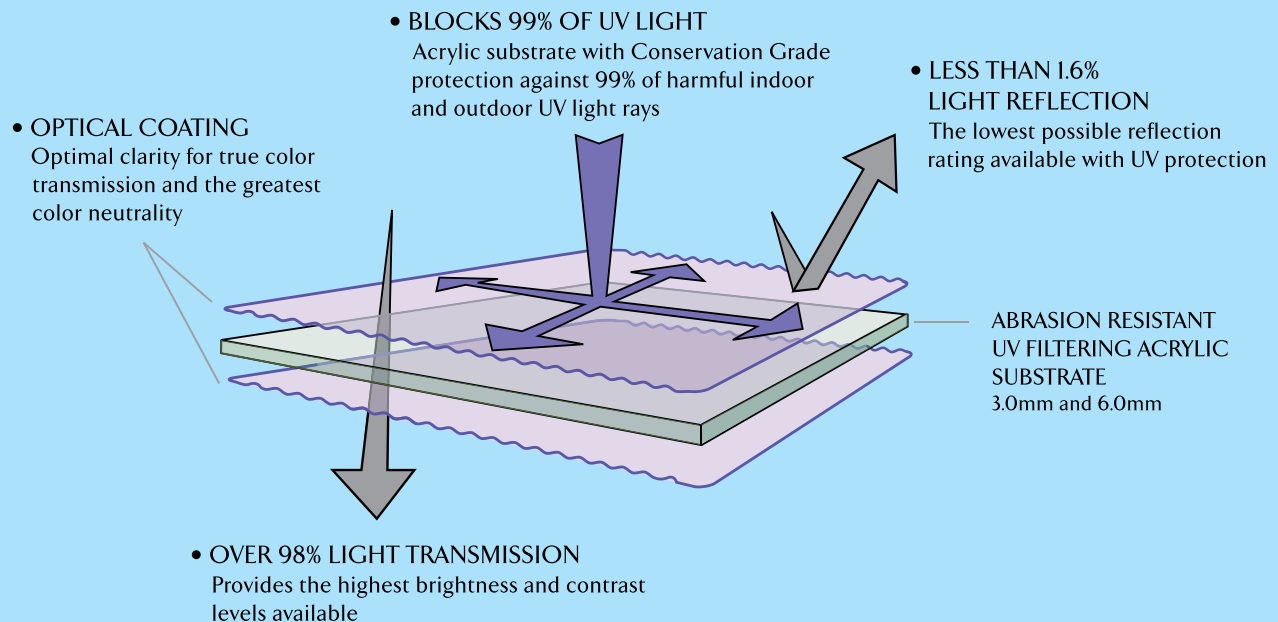
ACRYLIC / UV

Conservation Grade Protection

# Optium Museum Acrylic®

 *Optium Museum Acrylic meets ISO 18902 and passes ISO 18916 by blocking at least 97% of UV energy.*

Optium Museum Acrylic® is the ultimate glazing product that performs more like glass than acrylic. This state-of-the-art acrylic product provides 99% UV protection to protect against fading and is optically coated. Tru Vue's proprietary coating process using Magnetron Sputtering technology creates a nearly invisible surface. Like most acrylic products, Optium Museum Acrylic is half the weight of glass and is shatter-resistant. However, unlike typical acrylic sheets, Optium Museum Acrylic performs like glass with its anti-static and abrasion resistant features.



## AVAILABLE SIZES

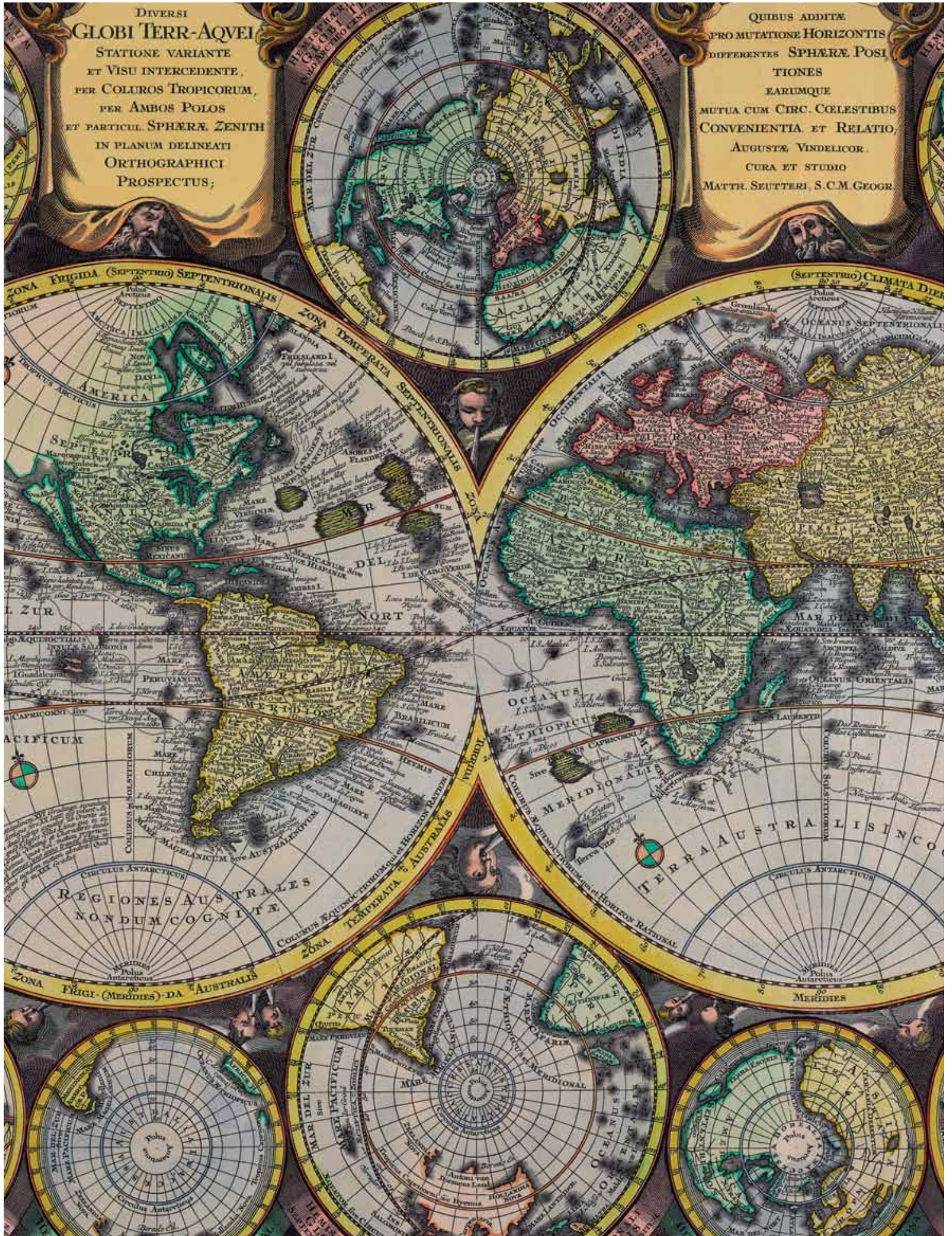
Size	Thickness	Sheets per box
40 x 60	0.118 inches / 3.0 mm	1
48 x 96	0.118 inches / 3.0 mm	1
72 x 96*	0.177 inches / 4.5 mm	
72 x 120*	0.237 inches / 6.0 mm	

HANDLING, CUTTING and CLEANING information can be found in the AT A GLANCE section, page 43.

\*72" x 96" 4.5 mm and 72" x 120" 6.0 mm sheets are available and can be ordered cut-to-size from your authorized Tru Vue Fine Art Market distributor.

DIVERSI  
**GLOBI TERR-AQUEI**  
 STATIONE VARIANTE  
 ET VISU INTERCEDENTE,  
 PER COLIROS TROPICORUM,  
 PER AMBOS POLOS  
 ET PARTICUL. SPHERA ZENITH  
 IN PLANUM DELINEATI  
 ORTHOGRAPHICI  
 PROSPECTUS;

QUIBUS ADDE  
 PRO MUTATIONE HORIZONTIS  
 DIFFERENTES SPHERA POSI  
 TIONES  
 EARUMQUE  
 MUTUA CUM CIRC. CELESTIBUS  
 CONVENIENTIA ET RELATIO,  
 AUGUSTÆ VINDELICOR.  
 CURA ET STUDIO  
 MATTH. SEUTTERI, S.C.M. GEOGR.



## WHEN TO USE

- To minimize glare while protecting artwork against harmful UV light rays
- When lightweight and shatter-resistant glazing is essential for protection
- Use on any framing project with up to two mats away from artwork without significant resolution loss

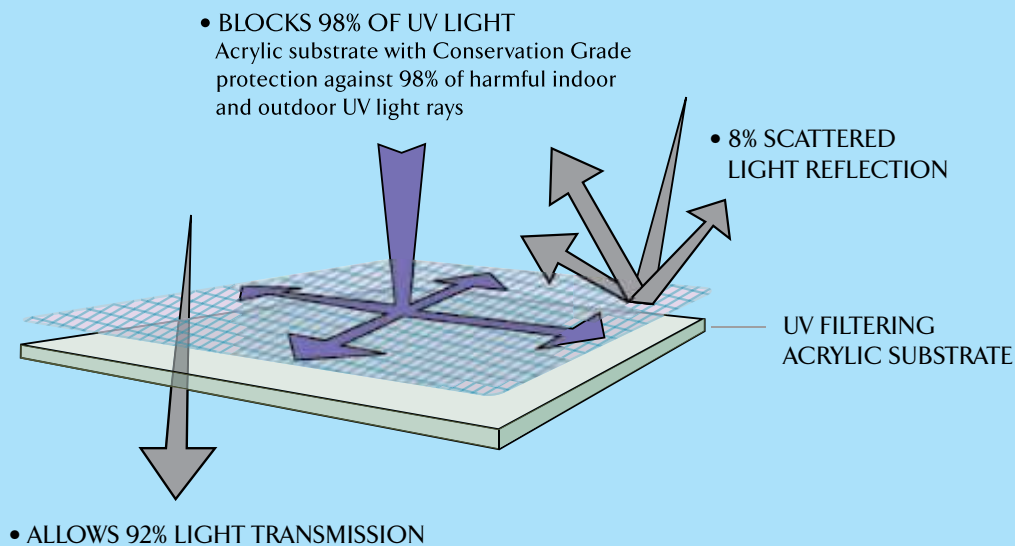
ACRYLIC / UV

Conservation Grade Protection

# Conservation Reflection Control<sup>®</sup> Acrylic

 Conservation Reflection Control Acrylic meets ISO 18902 and passes ISO 18916 by blocking at least 97% of UV energy.

Conservation Reflection Control<sup>®</sup> Acrylic is the conservation grade, non-glare acrylic solution. Built with conservation grade UV filtering technology, this acrylic product provides 98% UV protection to protect against fading. This acrylic product has a matte-like finish that scatters light to reduce unwanted glare.



### AVAILABLE SIZES

Size	Thickness	Sheets per box
32 x 40	0.090 inches / 2.3 mm	3
40 x 60	0.118 inches / 3.0 mm	2
48 x 96	0.118 inches / 3.0 mm	5

HANDLING, CUTTING and CLEANING information can be found in the AT A GLANCE section, page 43.



## WHEN TO USE

- For protecting artwork against damage and fading caused by UV light
- When lightweight and shatter-resistant glazing is essential for protection
- Ideal for any framing application. If reflection-free viewing is not important

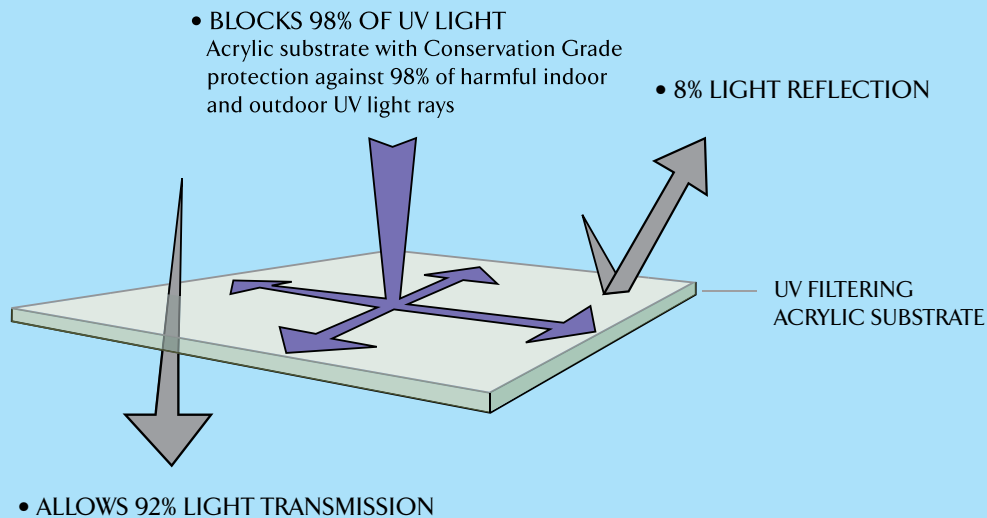
ACRYLIC / UV

Conservation Grade Protection

# Conservation Clear<sup>®</sup> Acrylic

 Conservation Clear Acrylic meets ISO 18902 and passes ISO 18916 by blocking at least 97% UV of energy.

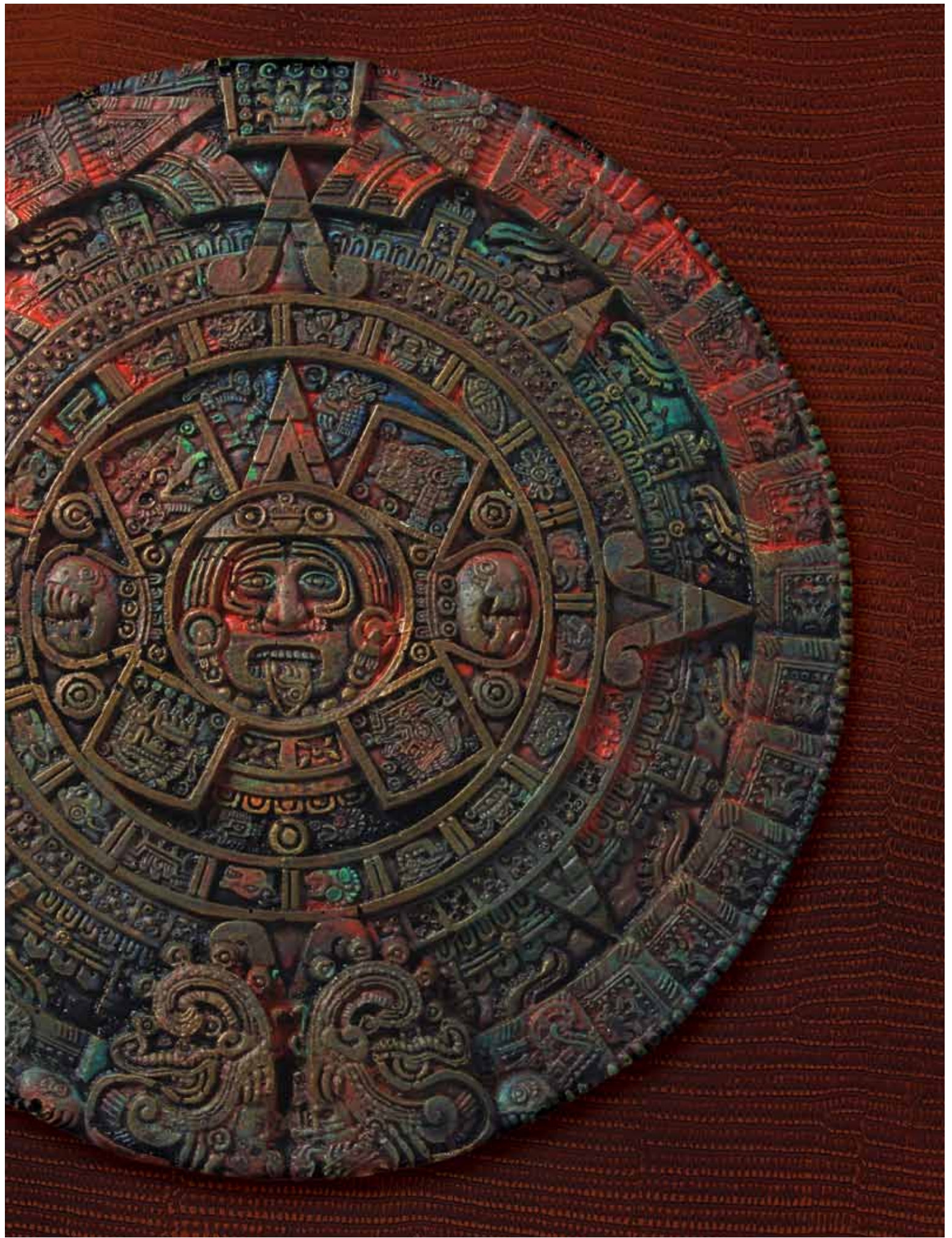
Conservation Clear<sup>®</sup> Acrylic is the standard conservation grade acrylic product. Most frame shops use this product as their default acrylic option. Built with conservation grade UV filtering technology, this acrylic product provides 98% UV protection to protect against fading.



### AVAILABLE SIZES

Size	Thickness	Sheets per box
32 x 40	0.090 inches / 2.3 mm	3
40 x 60	0.118 inches / 3.0 mm	2
48 x 96	0.118 inches / 3.0 mm	5

HANDLING, CUTTING and CLEANING information can be found in the AT A GLANCE section, page 43.



## ACRYLIC

/ Optium Acrylic®

/ Reflection Control® Acrylic

/ Premium Clear Acrylic





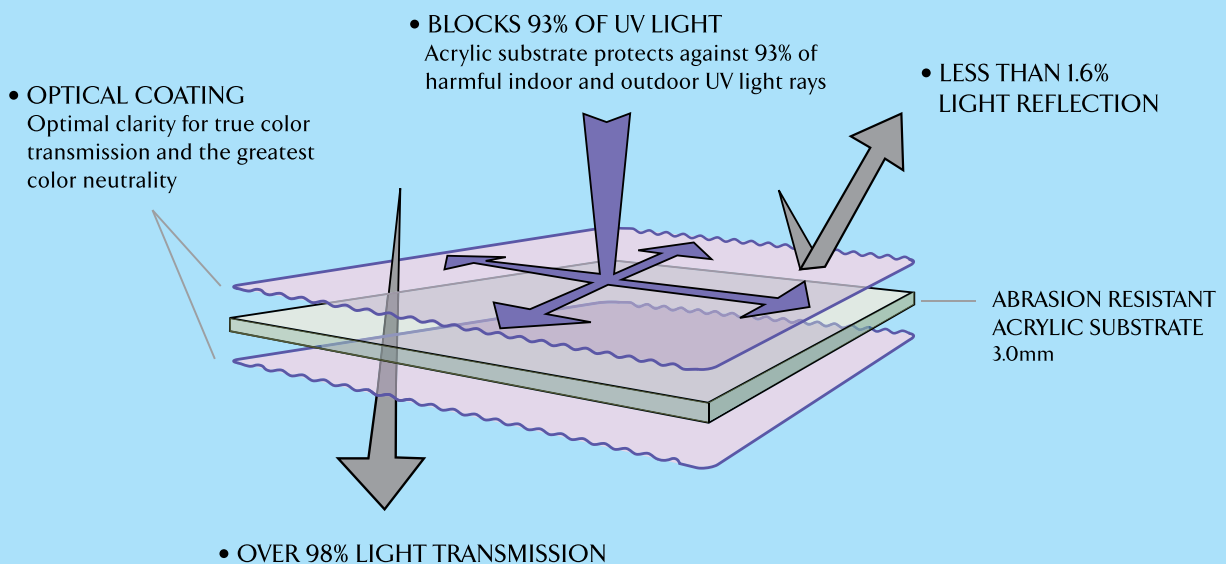


## WHEN TO USE

- Ideal for reflection-free viewing when conservation grade UV protection is not a concern
- To enhance colors, brightness and contrast levels of all types of artwork, such as photographs
- Ideal for oversized framing applications and static sensitive pieces, such as pastels and charcoals
- When lightweight, shatter and abrasion resistant glazing is essential for protection

# ACRYLIC Optium Acrylic®

When preservation is not a concern, Optium Acrylic® is the ideal anti-reflective glazing solution that performs more like glass than acrylic. Optium Acrylic provides up to 93% UV protection and is optically coated. Tru Vue's proprietary coating process using Magnetron Sputtering technology creates a nearly invisible surface. Like most acrylic products, Optium Acrylic is half the weight of glass and is shatter-resistant. However, unlike typical acrylic sheets, Optium Acrylic performs like glass with its anti-static and abrasion resistant features.



### AVAILABLE SIZES

HANDLING, CUTTING and CLEANING information can be found in the AT A GLANCE section, page 43.

Size	Thickness	Sheets per box
48 x 96	0.118 inches / 3.0 mm	1



# HARPER'S

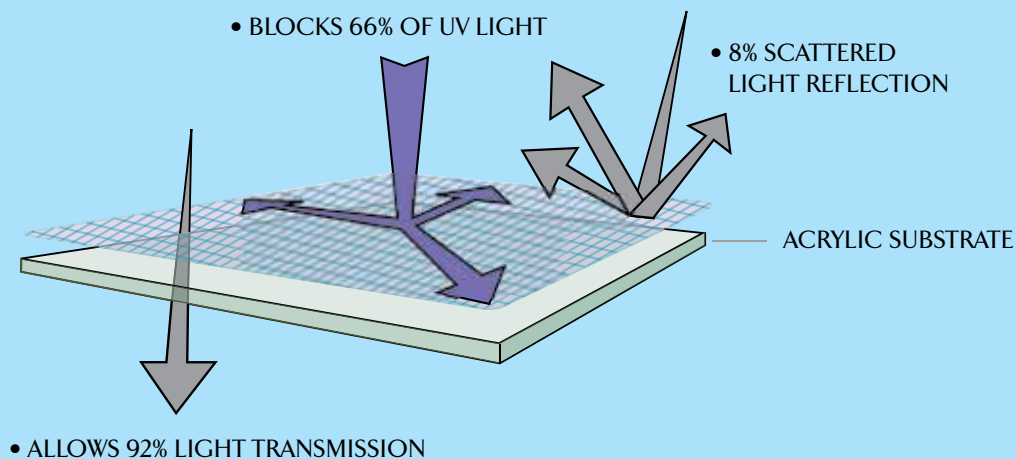
FOOT  
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## WHEN TO USE

- Ideal for minimizing glare and reflection when conservation grade UV protection is not a concern
- When lightweight and shatter resistant glazing is essential for protection
- Use on any framing project with up to two mats away from artwork without significant resolution loss

# ACRYLIC Reflection Control® Acrylic

Reflection Control® Acrylic is the non-conservation grade, non-glare acrylic solution. This acrylic product has a matte-like finish that scatters light to reduce unwanted glare.



### AVAILABLE SIZES

Size	Thickness	Sheets per box
32 x 40	0.090 inches / 2.3 mm	3
40 x 60	0.118 inches / 3.0 mm	2
48 x 96	0.118 inches / 3.0 mm	5

HANDLING, CUTTING and CLEANING information can be found in the AT A GLANCE section, page 43.

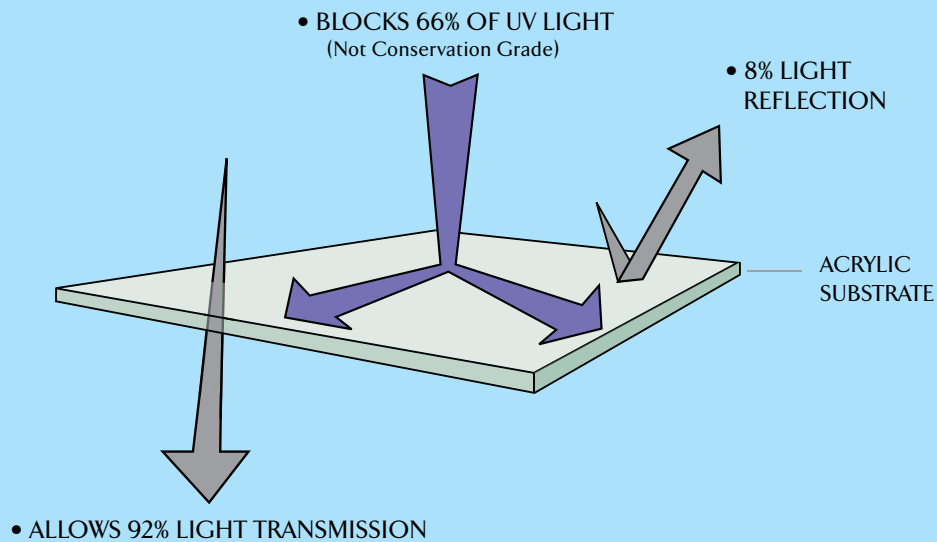


## WHEN TO USE

- Works well in any presentation hung in a controlled lighting environment
- Any framing project that would benefit from lightweight acrylic

# ACRYLIC Premium Clear Acrylic

Premium Clear Acrylic is a general-purpose glazing for indoor framing.



### AVAILABLE SIZES

Size	Thickness	Sheets per box
32 x 40	0.090 inches / 2.3 mm	3
40 x 60	0.118 inches / 3.0 mm	2
48 x 96	0.098 inches / 2.5 mm	5
48 x 96	0.118 inches / 3.0 mm	5

HANDLING, CUTTING and CLEANING information can be found in the AT A GLANCE section, page 43.



## AT A GLANCE

/ Properties - Sizes

/ Handling

/ FAQs

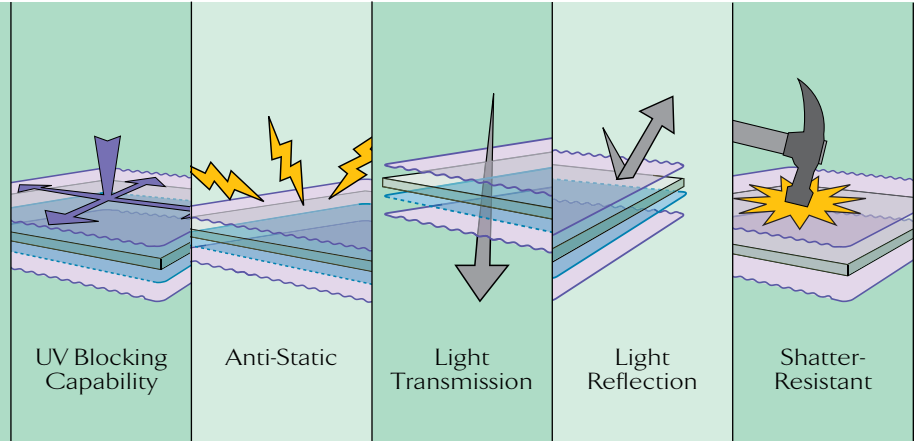
/ About Tru Vue

/ Importance of UV Protection

/ Glass Displays



# PROPERTIES



ANTI-REFLECTIVE GLAZING		UV Blocking Capability	Anti-Static	Light Transmission	Light Reflection	Shatter-Resistant
UV	Museum Glass®	99%	X	>97%	< 1%	
UV	Optium Museum Acrylic®	99%	X	>98%	< 1.6%	X
	Optium Acrylic®	93%	X	>98%	< 1.6%	X
	AR Reflection-Free®	78%	X	>97%	< 1%	
	UltraVue®	65%	X	98.5%	< 1%	

NON-GLARE GLAZING		UV Blocking Capability	Anti-Static	Light Transmission	Light Reflection	Shatter-Resistant
UV	Conservation Reflection Control®	99%		89%	8%	
UV	Conservation Reflection Control® Acrylic	98%		92%	8%	X
	Reflection Control® Acrylic	66%		92%	8%	X
	Reflection Control®	45%		89%	8%	

STANDARD GLAZING		UV Blocking Capability	Anti-Static	Light Transmission	Light Reflection	Shatter-Resistant
UV	Conservation Clear®	99%		89%	8%	
UV	Conservation Clear® Acrylic	98%		92%	8%	X
	Premium Clear Acrylic	66%		92%	8%	X
	Premium Clear	45%		90%	8%	

\*According to the *Consumer Guide to Materials for Preservation Framing and the Display of Photographic Images* ©2010 Image Permanence Institute, guidelines from the International Organization for Standardization ISO 18902, recommend using glazing that blocks at least 97% of UV energy.







# SIZES

## GLASS / UV *Conservation Grade Protection*

	8" x 10"	11" x 14"	12" x 16"	14" x 18"	16" x 20"	18" x 24"	20" x 24"	22" x 28"	24" x 30"	24" x 36"	26" x 32"	26" x 36"	28" x 36"	28" x 38"	30" x 36"	32" x 40"	36" x 48"	40" x 50"	40" x 60"	48" x 68"	48" x 96"	72" x 96"	72" x 120"
<b>UV</b> Museum Glass® (2.5 mm)																							
# of Lites					16*	12	11	8	7	6					4*	3		2	2				
<b>UV</b> Conservation Reflection Control® (2.5 mm)																							
# of Lites					23	17	15	12	10	8	9					6	4	2					
<b>UV</b> Conservation Clear® (2.5 mm)																							
# of Lites					47	38	29	23	17	15	12	10	8	9			6	4		2	2		

\*16"x30" size is also available 4 lites per box. 32"x40" is also available 1 lite per box.

## GLASS

AR Reflection-Free® (2.5 mm)																							
# of Lites					4					4						3	2		2				
UltraVue® (2.5 mm)																							
# of Lites																3	2		2	2			
Reflection Control® (2.5 mm)																							
# of Lites					47		29	23	17	15	12	10	8	9			7		6	4		2	
Premium Clear (2.5 mm)																							
# of Lites	90	47	38	29	23	17	15	12	10	8	9	8	7	7	7	6	4	2	3				

## ACRYLIC / UV *Conservation Grade Protection*

<b>UV</b> Optium Museum Acrylic®																							
3.0 mm / 0.118 inches (# of Sheets)																			1		1		
4.5 mm / 0.177 inches (# of Sheets)																						1*	
6.0 mm / 0.237 inches (# of Sheets)																							1*
<b>UV</b> Conservation Reflection Control® Acrylic																							
2.3 mm / 0.090 inches (# of Sheets)																3							
3.0 mm / 0.118 inches (# of Sheets)																			2		5		
<b>UV</b> Conservation Clear® Acrylic																							
2.3 mm / 0.090 inches (# of Sheets)																3							
3.0 mm / 0.118 inches (# of Sheets)																			2		5		

\*72" x 96" 4.5 mm / 72" x 120" 6.0 mm sheets are available and can be ordered cut-to-size from your authorized Tru Vue Fine Art Market distributor.

## ACRYLIC

Optium Acrylic®																							
3.0 mm / 0.118 inches (# of Sheets)																						1	
Reflection Control® Acrylic																							
2.3 mm / 0.090 inches (# of Sheets)																3							
3.0 mm / 0.118 inches (# of Sheets)																			2		5		
Premium Clear Acrylic																							
2.3 mm / 0.090 inches (# of Sheets)																3							
2.5 mm / 0.098 inches (# of Sheets)																						5	
3.0 mm / 0.118 inches (# of Sheets)																			2		5		

**UV** Conservation Grade Protection\*

# HANDLING / GLASS



## HANDLING

- Glass should be handled with care. Cotton gloves should be worn to minimize injury.
- Avoid dragging the lites of glass against one another when removing from the box.
- Do not slide the lite of glass into place. Lift it up to adjust position.

## CUTTING

- Place a non-slip surface (such as suede or kraft paper) between the glass and the back of the wall cutter to avoid scratching.
- For Tru Vue Conservation Grade glass products, place the lite of glass in the wall unit with the UV coated side towards the wall, facing the slip sheet. Do not score the UV coated side. The inkjet printing stating "this side faces artwork" indicates the UV coated side. For all other Tru Vue glass products, either side can be scored.
- Keep the glass cutter clean of glass chips by brushing away fragments frequently with a horse hair brush.

## CLEANING

Tru Vue glass products are clean and ready to use. If spot cleaning is needed, use the following techniques:

- Place the glass on a clean, non-abrasive surface for cleaning.
- Use a clean, soft, lint-free cloth to clean the glass. Tru Vue recommends using a micro-fiber cloth.
- Spray a small amount of ammonia-free cleaner onto the cloth. Spraying on the cloth will prevent streaking and overspray.
- Press the cloth against the glass and clean in round, circular motions to reduce streaking or leaving spots.



# HANDLING / ACRYLIC

## OPTIUM® & ACRYLIC

### HANDLING

- Cotton or nitrile rubber gloves should be worn to minimize prints and other particles.
- Tru Vue acrylic products are covered with a protective film masking on each surface. This masking prevents scratching during handling and cutting and should be left in place on the sheet as long as possible.
- To remove the masking, start at one corner and pull towards the opposite side of the sheet slowly and evenly without stopping.
- The masking should never be exposed to excessive sunlight or outdoor conditions for extended periods of time.
- SIZES 40" x 60" AND LARGER: to prevent bowing, twisting, and/or warping provide reinforcing support of the acrylic sheet during framing.

### CUTTING

- For 2.3 mm, 3.0 mm and 4.5 mm acrylic products
  - Place on a clean, dust-free work area.
  - Cover the work table with a soft, clean, lint-free felt.
  - Use a Multi-Material cutter "scribe and break" method.
- 6.0 mm Optium Museum Acrylic®
  - Fabricate using a power saw with a saw blade specifically designed to cut acrylic. Contact us for saw blade recommendations or visit [www.tru-vue.com](http://www.tru-vue.com).

### CLEANING

- Place the acrylic on a clean, non-abrasive surface for cleaning
- Use a clean, soft, lint-free or micro-fiber cloth to clean.
- Do not use coarse or abrasive cleaning agents or dirty cloths.
- Optium only: Cleans like glass. Do not use an acrylic cleaner. Never spray cleaner directly on the acrylic. Spray an ammonia-free cleaner onto the cloth and wipe the acrylic.
- For all other acrylic products use an acrylic cleaner and a clean damp cleaning cloth. Apply only light pressure, rinse with clean water, or a cleaner designed specifically for acrylic, and dry by blotting with a clean, damp cloth or chamois.

# FAQs - Glazing



## **What is glazing?**

Glazing is a term that describes the protective covering used in picture framing. It refers to glass or acrylic.

## **FRAMING WITH GLASS**

### **What is a lite of glass?**

A lite of glass is simply a piece of glass, regardless of size or thickness.

### **What is the difference between paper-packed and powder-packed glass?**

Powder-packed glass has a fine powder interleaving material (plastic beads and an acidic stain inhibitor) that must be removed prior to use. Cleaning powder-packed glass can be very labor intensive, impacting a framer's productivity.

Paper-packed glass is cleaned and packaged with buffered paper interleaving material so that it arrives ready to use. Tru Vue uses paper-packed glass.

### **Is there a recommended thickness for picture framing glass?**

Professional picture framers use either 2.0 mm or 2.5 mm glass. The 2.5 mm thickness is the preferred choice as it is more resilient, which reduces chipping and makes it easier to handle. It also will not bow on large size pieces. 2.5 mm glass is 130% the strength of 2 mm glass.

### **Which side of Tru Vue® Conservation Grade glass should be placed towards artwork?**

It is recommended that the UV coated side of the glass face the artwork. This side can be identified by the inkjet printing, which appears along the edge of the lite. However, the UV blocking capabilities are in no way diminished by the placement of the lite. When using Conservation Reflection Control®, the matte finished side should face out and the non-finished side should face the artwork.

## **FRAMING WITH ACRYLIC**

### **When should I use acrylic?**

Tru Vue recommends using acrylic for hanging and shipping heavy oversized artwork, in children's rooms, in earthquake zones, in high traffic areas or anywhere where safety is a concern. You should use 3mm acrylic when the frame's size exceeds 36" x 48". Tru Vue also offers 4.5 mm and 6.0 Optium Museum Acrylic® for oversized framing projects over 40" x 60".

### **Does acrylic have out-gassing?**

Framing grades of acrylic have out-gassing. However, to be certain, we recommend only buying acrylic made in North America. All Tru Vue acrylic products are out-gassing free.

### **Which side of Tru Vue Conservation Grade acrylic should be placed towards artwork?**

Either side of the conservation grade acrylic can face the artwork. Both sides carry the protective technology.

### **How much space should I allow for expansion and contraction of acrylic?**

The standard 1/16" is recommended for every 12".

## **HANDLING GLASS**

### **How should glass be handled?**

Care should be given when handling glass. To avoid injury, Tru Vue recommends wearing cotton gloves when handling glass. Avoid dragging the lites of glass against one another when removing from the box. Do not slide the lite of glass into place. Lift it up to adjust and reposition.

## HANDLING ACRYLIC

### How should acrylic be handled?

Care should be given when handling acrylic. To minimize finger prints and other particles, Tru Vue recommends wearing cotton or nitrile rubber gloves when handling acrylic. Tru Vue acrylic products are covered with a protective film masking on each surface. This masking prevents scratching during handling and cutting and should be left in place on the sheet as long as possible. To remove the masking start at one corner and pull towards the opposite side of the sheet slowly and evenly without stopping. The masking should never be exposed to excessive sunlight or outdoor conditions for extended periods of time.

## CLEANING GLASS

### How do I clean Tru Vue® glass products?

All of Tru Vue glass products are clean and ready to use out of the box. If spot cleaning is needed, spray a small amount of ammonia-free glass cleaner on a micro-fiber cloth or a clean lint-free cotton rag. To prevent overspray, do not spray the cleaner directly on the glass. Press the cloth against the glass and clean in a round, circular motions.

### Why does Tru Vue recommend using an ammonia-free glass cleaner?

Cleaning glass products with harsh chemicals such as ammonia can be harmful to your customers' valued pieces. Ammonia can cause out-gassing within the framing package.

### How can I remove the inkjet printing from the lite of glass?

The inkjet printing is printed at the very edge of the lite of glass and is small enough to be hidden by the rabbet of the frame. If you choose to remove the inkjet printing, apply a small amount of acetone (fingernail polish remover) to a cotton swap to wipe the lite clean.

## CLEANING ACRYLIC

### How do I clean Tru Vue acrylic products?

Cleaning techniques vary by acrylic product.

**For Optium® Acrylic Glazing** products, use the following cleaning techniques. Place the acrylic on a clean, non-abrasive surface for cleaning. Spray a small amount of ammonia-free glass cleaner onto a clean micro-fiber cloth or a soft, lint-free cloth. To prevent overspray, do not spray cleaner directly on the acrylic. **DO NOT USE AN ACRYLIC CLEANER (i.e. BRILLANIZE) ON THIS PRODUCT.** Do not use coarse or abrasive cleaning agents or dirty cloths. Do not buff scratch in this product as it may damage the anti-reflective coating.

**For Conservation Clear® Acrylic, Conservation Reflection Control® Acrylic, Reflection Control® Acrylic and Premium Clear Acrylic,** use the following cleaning techniques. Place the acrylic on a clean, non-abrasive surface for cleaning. Use an acrylic cleaner and a clean damp cleaning cloth. Apply only light pressure, rinse with clean water or a cleaner designed specifically for acrylic, and dry by blotting with a clean, damp cloth or chamois. Do not use dry or gritty cloths, as they may cause surface scratches and create a static electric charge on the surface. Do not use glass cleaning sprays, kitchen scouring compounds or solvents such as acetone, gasoline or lacquer to clean acrylic.

## CUTTING GLASS

### What type of cutter is recommended for cutting Tru Vue Conservation Grade glass?

Any glass cutter that is used for cutting regular glass may be used.

### How do I cut Tru Vue glass products?

Place a slip sheet or a non-slip matboard between the glass and the back of the wall cutter. For Tru Vue Conservation Grade glass products, including Museum Glass®, Conservation Clear® and Conservation Reflection Control®, place the lite of glass in the wall unit, with the UV coated side towards the wall, facing the slip sheet or matboard. Do not score the UV coated side. Premium Clear can be scored on either side, so placement in the cutter doesn't matter. Be sure to keep the glass cutter clean of glass chips by brushing away fragments frequently with a horse hair brush.

### How can I tell which side of the Tru Vue Conservation Grade glass has the UV coating?

The inkjet printing or static cling sticker will indicate which side to score. The side to be scored is the non UV coated side, so the UV coating is on the opposite side. For Museum Glass and Conservation Clear, the UV coated side is always the side with the inkjet printing or static cling sticker. For Conservation Reflection Control, the UV coating is on the opposite side of the inkjet printing.

The UV coated side will also bead water or glass cleaner more than the non UV side. Using a razor blade you can apply a small light scratch on the edge of the glass which will be hidden by the rabbet of the frame. The UV coating will be scratched, the glass will not. Wear gloves while doing this to prevent cuts.

# FAQs - Glazing



## CUTTING ACRYLIC

**How do I cut Tru Vue® acrylic products?**

**For 2.3 mm, 3.0 mm and 4.5 mm acrylic products,** place the acrylic sheet on a clean, dust-free work area. Cover the work table with a soft, clean, lint-free felt. Use a multi-material cutter “scribe and break” method.

**For 6.0 mm Optium Museum Acrylic®** fabricate using a power saw with a saw blade specifically designed to cut acrylic. Contact Tru Vue directly for saw blade recommendations. Optium® Acrylic Glazing should NOT be cut with a laser. The extreme heat can cause crazing, which may lead to delamination of the coating.

## UV PROTECTION

**Is all UV filtering glazing the same?**

**No.** There is a distinct difference between UV filtering glazing and glazing that provides UV protection. According to PPFA Guidelines for Framing Works of Art on Paper, for glazing to be labeled as providing UV protection, it must block at least 97% of the UV light rays in the 300 to 380 nanometer range.

Tru Vue® Conservation Grade glazing products are the only glazing products available in the industry that offer this level of protection. In providing at least 97% UV protection, Tru Vue Conservation Grade glass products are considered “photo-safe” by meeting ISO 18902 and passing ISO 18916.

**What percentage of UV rays does the coating block?**

Tru Vue Conservation Grade glazing products, including Museum Glass®, Conservation Clear®, Conservation Reflection Control®, Optium Museum Acrylic®, effectively block 99% of all harmful indoor and outdoor UV light rays. Conservation Clear® Acrylic and Conservation Reflection Control® Acrylic effectively block 98%.

**Is the UV coating permanent?**

**Yes.** Tru Vue manufactures its Conservation Grade glass products by applying an inorganic silica-based UV inhibiting coating to the surface. The UV coating is “baked” into the glass, producing a permanently bonded coating. Tru Vue Conservation Grade glass products have been field tested for over 20 years and do not delaminate or degrade over time. Tru Vue does not apply a UV coating to its Conservation Grade acrylic products. The UV protection is provided within the acrylic substrate and is permanent.

**When should UV protection glazing be used?**

Since UV light rays come from indoor and outdoor light sources, all items on display are vulnerable to the damaging effects of UV light exposure. That’s why it is important to use glazing with at least 97% UV protection on all of your custom framing jobs.

Conservation framing materials and techniques should always be used on sentimental, valuable, limited edition and one-of-a-kind artwork. Also use UV protection glass on all works of art your customers want to protect, especially posters and open edition prints. Posters or open edition prints are more susceptible to UV light damage since the inks, papers and other materials used to create them are more likely to deteriorate than those used in higher end reproductions.

**Why is UV protection important?**

Without at least 97% UV protection framed pieces will age and fade more rapidly. Indoor and outdoor UV light rays contribute to severe color loss, paper embrittlement and deterioration of framed pieces. These effects are both cumulative and irreversible. The materials that make up the piece, the paper or fabric on which the image is displayed, may become brittle. Photos may appear yellow or stained with ghostly silver deposits rising to the surface. Once

damage from light has occurred, it can never be reversed. That's why it is important to understand what you can do to minimize this type of damage before it happens.

**Are there forces other than UV light that can contribute to damage to items on display?**

**Yes.** While it is very important to reduce UV light exposure, this alone will not eliminate fading and other deterioration. All light, not just UV light can be damaging. Heat, pollution, moisture, the materials that make up the piece as well as poor quality framing materials are all contributing factors. Using conservation framing techniques and materials as well as educating your customer on how to properly display and care for their framed piece will help minimize the risk of damage caused by these factors.

Remind your customers that care should be given when displaying their framed piece to avoid unnecessary exposure to light. Since some light is required for your customers to enjoy and see their framed pieces, it is all the more important to reduce any damage from UV light, by using glazing with at least 97% UV protection.

**How can I help my customers protect their framed pieces?**

Help your customers select framing materials that will protect their framed pieces for years to come. Educate your customers on the damaging effects of all light, visible and invisible, and recommend that they select glazing with at least 97% UV protection to reduce the damaging effects of UV light. Give your customers simple instructions for displaying and caring for their framed piece. UV protection will not eliminate fading, so your customers should use care when displaying their framed pieces. Direct light exposure for any duration should be avoided. Hanging or displaying the piece in a controlled lighting environment with low humidity is recommended.

For additional tips, Tru Vue recommends reading *A Consumer Guide to Materials for Preservation Framing and the Display of Photographic Images*, created by the Image Permanence Institute. To download this guide go to [www.imagepermanenceinstitute.org](http://www.imagepermanenceinstitute.org).

**Is fluorescent light harmful?**

**Yes.** All light can be harmful. While fluorescent lighting can have a higher output in the UV range compared to incandescent lighting, the more important factor is the overall brightness of the light source. To minimize light damage, avoid placing artwork near sunlit windows or bright sources of light.

**The windows in my customer's home have UV coating. Should I still use UV filtering glass?**

**Yes.** Unfortunately, the sun is not the only source of harmful UV light rays. All light sources, whether natural or artificial, have some of their components in the ultraviolet range.

**REDUCING REFLECTIONS**

**How does anti-reflective glazing reduce reflection?**

The thin film coatings on Tru Vue anti-reflective glazing disrupt the energy contained in light waves causing them to flow out of sync. This disrupted wave pattern virtually eliminates all reflection from the glass surface. Diagrams of how this process works are included with the descriptions of all anti-reflective products.

**What is non-glare glazing?**

Non-glare glass and acrylic products finished to diffuse reflected light. This process also gives the glazing surface a matte finish. Tru Vue Conservation Reflection Control®, Reflection Control®, Conservation Reflection Control Acrylic and Reflection Control Acrylic are non-glare glazing options.

**ANTI-STATIC**

**What type of glazing should I use for pastel or charcoal based art?**

Pastel or charcoal based art can become damaged using most acrylic products due to the inherent static charge of the substrate. All of Tru Vue anti-reflective glazing products, including Optium Museum Acrylic®, Optium Acrylic®, Museum Glass®, AR Reflection-Free® and UltraVue®, provide long-lasting anti-static as well as anti-reflective properties to help protect art from damage and to help showcase your art the way it was intended.

**How can I control static on acrylic products?**

All of Tru Vue anti-reflective glass and acrylic products are anti-static. For regular acrylic products, spray with a de-ionizing air gun, then wipe with a clean, damp, high performance cleaning cloth. This will reduce static temporarily.

# ABOUT TRU VUE



**With Over 40 years of dedication to the custom picture framing industry, Tru Vue remains unmatched.**

## **Unmatched UV Performance**

- Only Tru Vue offers Conservation Grade glazing products that meet ISO 18902 and passes ISO 18916, by blocking at least 97% of UV energy.
- With 99% UV Protection, Tru Vue Conservation Grade glazing products surpass preservation standards. According to the *Art, Wall Décor, Picture Frame & Custom Framing Report, 2010* published by Unity Marketing, preservation and protection are the primary reasons consumers make the decision to custom frame.

## **Unmatched Quality Standards and More Product Choices**

- Museums around the world depend on our products to perform to exacting standards.
- Tru Vue offers a full line of high quality glass and acrylic products available in a wide selection of sizes and features to meet consumer needs.

## **Unmatched Service and Support**

- Made in the USA, Tru Vue products are readily and widely available.
- Our national network of authorized Tru Vue distributors offers speed and flexibility to bring you products, as you need them.
- Tru Vue continually invests in the industry by sponsoring educational seminars and workshops at trade events. We also provide free marketing materials, sales promotion opportunities and dedicated call center support.





# IMPORTANCE OF CONSERVATION GRADE UV PROTECTION

**Only Tru Vue offers glazing products developed specifically for preservation framing.**

## **Did you know?**

Guidelines from the International Organization for Standardization, ISO 18902 recommends choosing glazing products that block at least 97% of UV energy.\*

## **What factors cause damage to art, photographs and other personal keepsakes?**

- All light sources emit harmful UV light rays. Sunlight and indoor lighting, such as fluorescent and tungsten, contain different amounts of UV energy that can cause irreversible UV light damage. Colors may fade and shift and the materials that make up the piece may become brittle or yellow.
- UV protection reduces fading and other damage caused by UV light over time.
- All light, not just UV light, can be damaging. Heat, pollution, moisture, the materials that make up the piece, as well as poor quality framing materials, are all contributing factors.

## **How can you help you customers protect their framed piece?**

- Help your customers preserve their framed piece by recommending materials that meet conservation framing standards.
- Recommend glazing with at least 97% UV protection to reduce the damaging effects of UV light.\*
- Educate your customers on the factors that cause damage.  
Tru Vue offers a FREE consumer brochure that discusses the importance of UV protection. To order a supply for your store, please call the Framer's Helpline at 800-282-8788 or go online at <http://www.tru-vue.com/Framers/Tools/>
- Recommend displaying their framed piece in a well controlled lighting environment, with low humidity.

\*According to the *Consumer Guide to Materials for Preservation Framing* and the *Display of Photographic Images* ©2010 Image Permanence Institute, guidelines from the International Organization for Standardization, ISO 18902, recommend using glazing that blocks at least 97% of UV energy.

# GLASS DISPLAYS

**Impactful in-store displays are the easiest way to help customers make the right choice.**

Consumers want to know their options and they look to you to present them. Your Tru Vue glass displays show your customers the visual differences between Tru Vue's Conservation Clear®, Conservation Reflection Control® and Museum Glass® options and help them sell themselves on Museum Glass.



"Paint Tray" Wall Display



"Water Lily" Counter Display

## Research proves it...

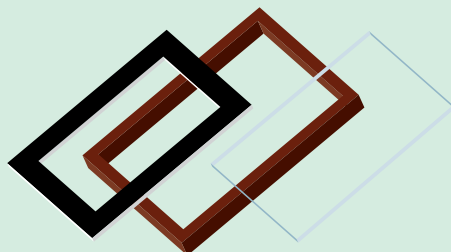
- When customers see the comparison between regular glass and Museum Glass more than 50% will choose Museum Glass.\*
- 58% of consumers would pay an additional \$75 to upgrade to Museum Glass for their posters, paintings, prints and more.\*
- 85% of consumers go with the advice of the framer.\*\*

**Call 1-800-282-8788 or visit [www.tru-vue.com](http://www.tru-vue.com) to order your free display today.**

\*Synovate® Consumer Segmentation Study 10/16/2006. \*\*Invoke Solutions® Consumer Segmentation Study 6/7/2007

# GLASS DISPLAYS

Every time a customer comes into your shop, it's **Show Time!**  
You show them the three important parts of a great design:



## ELEMENTS OF A GREAT DESIGN MATTING ♦ MOULDING ♦ GLAZING

When you are ready to show your customer glazing choices:



**1** *Show them*  
the Tru Vue glass display, just like showing matting and moulding choices.

**2** *Tell them*  
about the features—the 99% UV protection and the amazing clarity.

**3** *Let them*  
choose the glass.

Once you show your customers Museum Glass, they're sure to love what they see. And by letting them make the choice, you don't risk losing the sale. So what are you waiting for?

**Make it Show Time, Every Time, for a great design!**

To learn more about using Show Time Every Time for a great design, watch our online video at [www.tru-vue.com/123/video](http://www.tru-vue.com/123/video)

Then call 1-800-282-8788 or visit [www.tru-vue.com](http://www.tru-vue.com) to order your free display today.



## GLASS & ACRYLIC GLAZING CATALOG

Contact Us:

### US and CANADA

**Distributors:** contact your Tru Vue sales representative

**Framers:** contact the Tru Vue Framers' Helpline 800-282-8788  
or [framers@tru-vue.com](mailto:framers@tru-vue.com)

### INTERNATIONAL

**Distributors:** contact your Tru Vue representative

**Framers:** contact your distributor

To find an authorized Tru Vue distributor in your area,  
go to [www.tru-vue.com/find-a-distributor](http://www.tru-vue.com/find-a-distributor)