



GLASS

MALLARDS - Greenheads and Suzies (mallard males & females) are dabbling ducks most prevalent in the Arkansas timber. Mr. Smith's favorite ducks are easily distinguishable with their coloring and "quacks". The Peabody Hotel in Memphis features the mallard as a popular hotel attraction, trotting them out of and into a waiting elevator two times a day.



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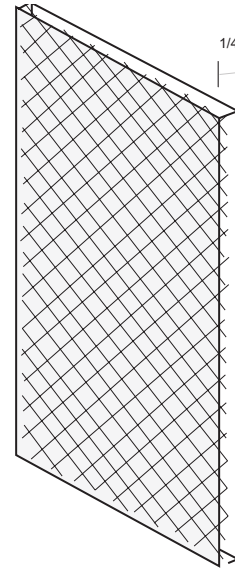
Protect3™

Fire Protective Safety Wired Glass

- 1/4" (6mm) thick
- Fits standard L-FRA100 and L-GLF100 Lite kits
- 3/4" X 3/4" Diamond pattern electrically welded steel wire mesh
- Heavy duty fire-rated and impact-safety rated film
- Maintains integrity when fractured or subjected to a hose stream
- Etched with UL classification on each piece
- Weight: 3.6 lbs./sq. ft.
- STC 28 rating

Fire-rating information:

- Certified by UL to ANSI/UL 9, ANSI/UL10B, ANSI/UL10C, CAN/ULC-S104, ULC CAN4-S106 with closed cell PVC foam glazing tape like NGP GT-116, GT-118, GT-132 or GT-316



Rating	Application	Max. Visible Glass Area (Sq. Inches)	Max. Width Visible Glass	Max. Height Visible Glass
20, 45 Minute	Doors*, Borrowed lites	1,296	54"	54"
60, 90 Minute	Doors*	100	12"	33"

*with fire-rated glass Lite kit

Impact Safety Rating Information:

Meets ANSI Z97.1, Class A

Meets CPSC 16CFR 1201 (Category I and II)

Complies with IBC requirements for use in doors, side-lites, transom lites and borrowed lites.

Pyran® Platinum F

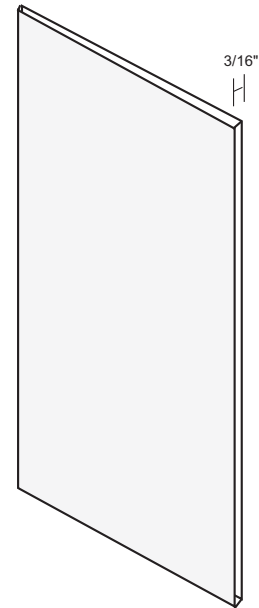
Fire-Protective Safety Glass Ceramic

- 3/16" (5mm) thick glass ceramic
- Heavy duty 7 mil durable safety film
- Neutral coloration - clear and wireless
- Advanced manufacturing process eliminates the need for surface polishing
- Etched with UL classification on each piece
- 10 year Manufacturer Warranty
- Weight: 2.5 lbs./sq. ft.
- STC 31 rating

Fire-rating information:

- Certified by UL to ANSI/UL9, ANSI/UL10B, ANSI/UL10C, CAN/ULC-S104, ULC CAN4-S106 with closed cell PVC foam glazing tape like NGP GT-116, GT-118, or GT132

- IBC applicable edition may limit maximum size allowable



Rating	Application	Max. Visible Glass Area (Sq. Inches)	Max. Width Visible Glass	Max. Height Visible Glass
20, 45, 60, 90 Minute	Doors* (non-temp rise)	2,736	36"	76"
20, 45, 60, 90 Minute	Side-lites, Borrowed lites, Transom lites	3,422	76"	76"
180 Minutes	Doors* including temp-rise	100	12"	33"

*with fire-rated glass Lite kit

Impact Safety Rating Information:

Meets ANSI Z97.1, Class A

Meets CPSC 16CFR 1201 (Category I and II)

Complies with IBC requirements for use in doors, side-lites, transom lites and borrowed lites .

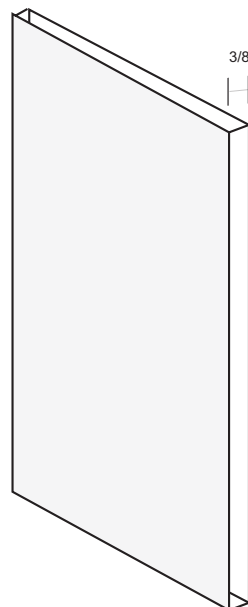
Pyran® Platinum L

Fire Protective Safety Glass Ceramic

- 3/8" (9mm) thick laminated glass ceramic
- Neutral coloration - clear and wireless
- Advanced manufacturing process eliminates the need for surface polishing
- Etched with UL classification on each piece
- 5 year Manufacturer Warranty
- Weight: 4 lbs./sq. ft.
- STC 36 rating

Fire-rating information:

- Certified by UL to ANSI/UL9, ANSI/UL10B, ANSI/UL10C, CAN/ULC-S104, ULC CAN4-S106 with closed cell PVC foam glazing tape like NGP GT-116, GT-118, or GT132



- IBC applicable edition may limit maximum size allowable

Rating	Application	Max. Visible Glass Area (Sq. Inches)	Max. Width Visible Glass	Max. Height Visible Glass
20, 45, 60, 90 Minute	Doors* (non-temp rise)	2,736	36"	75"
20, 45, 60, 90 Minute	Side-lites, Borrowed lites, Transom lites	3,143	75"	75"
180 Minutes	Doors* including temp rise	100	12"	33"

*with fire-rated glass Lite kit

Impact Safety Rating Information:

Meets ANSI Z97.1, Class A

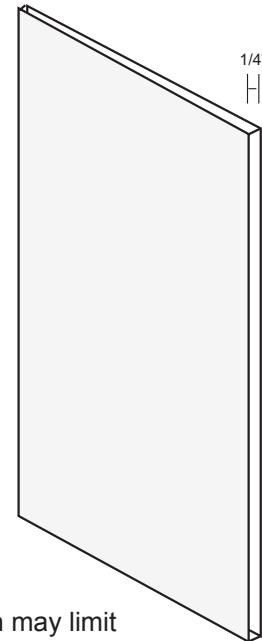
Meets CPSC 16CFR 1201 (Category I and II)

Complies with IBC requirements for use in doors, side-lites, transom lites and borrowed lites.

SuperLite™ I-20

20 Minute Fire Protective Glass

- 1/4" thick tempered fire-rated glass
- Superior optical clarity – clear and wireless
- Available with optional Starphire® Ultra-Clear glass by PPG
- Economical fire and safety rated glass
- Etched with UL classification on each piece
- Manufactured in USA
- Lifetime Manufacturer Warranty
- Weight: 3 lbs./sq. ft.
- STC 28 rating



Fire-Rating Information:

- Certified by UL to ANSI/UL9, ANSI/UL10B, ANSI/UL10C, with closed cell PVC foam glazing tape like NGP GT-116, GT-118, or GT132

- IBC applicable edition may limit maximum size allowable

Rating	Application	Max. Visible Glass Area (Sq. Inches)	Max. Width Visible Glass	Max. Height Visible Glass
20 Minute No hose stream	Hollow metal doors*	2,678	109"	109"
20 Minute No hose stream	Wood doors*	2,719	77-1/8"	77-1/8"
20 Minute No hose stream	Sidelights in Hollow Metal door frames	3,965	109"	109"
20 Minute No hose stream	Hollow Metal Borrowed Lites and Transoms	2,800	71-1/4"	71-1/4"

*with fire-rated glass Lite kit

• Impact Safety Rating Information:

Meets ANSI Z97.1, Class A

Meets CPSC 16CFR 1201 (Category I and II)

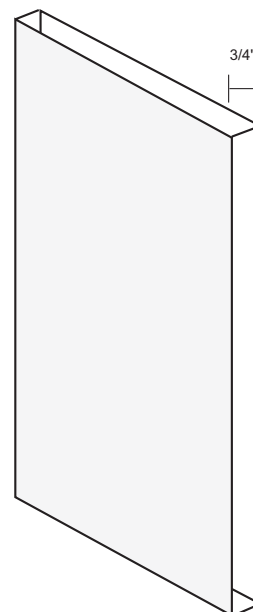
Complies with IBC requirements for use in doors

- This glass is cut to size then heat treated (tempered) to achieve its safety rating properties
- Orders for this product are non-changeable and non-cancellable

SuperLite™ X-90

90 Minute Fire Protective Glass

- 3/4" thick fire protective, safety rated glass
- Superior optical clarity – clear and wireless
- Economical fire and safety rated glass
- Etched with Intertek/Warnock-Hersey listing on each piece
- Manufactured in USA
- Lifetime Manufacturer Warranty
- Weight: 9 lbs./sq. ft.
- STC 38 rating



SIZES AVAILABLE

ORDER	FITS LITE KIT
11" x 11"	L-FRA100-SP 12" x 12"
4" x 34"	L-FRA100-SP 5" x 35"
5" x 26"	L-FRA100-SP 6" x 27"
6" x 21"	L-FRA100-SP 7" x 22"

Fire-Rating Information:

- ANSI/UL10B, ANSI/UL10C, CAN/ULC-S104 with closed cell PVC foam glazing tape like NGP GT-116, GT-118, or GT132

Rating	Application	Max. Visible Glass Area (Sq. Inches)	Max. Width Visible Glass	Max. Height Visible Glass
90 Minute	Doors* including temp rise doors	100	10"	33"

*with fire-rated glass Lite kit

• Impact Safety Rating Information:

Meets ANSI Z97.1, Class B

Meets CPSC 16CFR 1201 (Category I & II)

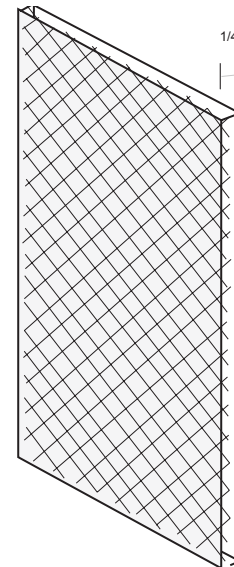
Complies with IBC requirements for use in doors

- Orders for this product are non-changeable and non-cancellable



Fire Protective Wired Glass

- 1/4" (7mm) Thick
- 3/4" X 3/4" Diamond pattern electrically welded steel wire mesh
- Clear glass - ground and polished both sides
- Maintains integrity when fractured or subjected to a hose stream
- Etched with UL classification on each piece
- Weight: 3 lbs./sq. ft.
- STC 28 rating



Fire-rating information: Certified by UL to

- ANSI/UL10C: 20 min. with closed cell PVC foam glazing tape like NGP GT-116, GT-118, or GT132
45, 60 & 90 min. with NGP GT-9800 intumescent glazing tape
- ANSI/UL10B with Butyl glazing tape like NGP GT-16
- ANSI/UL9 with closed cell PVC glazing tape like NGP GT-116, GT-118, GT-132

Rating	Max. Visible Glass Area (Sq. Inches)	Max. Width Visible Glass	Max. Height Visible Glass
20, 45 Minute*	1,296	54"	54"
60, 90 Minute*	100	10"	33"

*with NGP fire-rated glass Lite Kit

Impact Safety Rating Information:

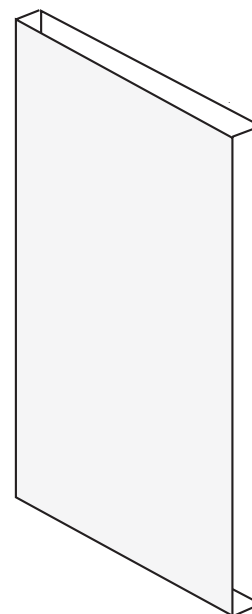
Meets ANSI Z97.1 Class C

Does **NOT** comply with IBC 2006 or newer requirements for use in doors or sidelights. Allowed only in non-hazardous locations defined in IBC

SuperLite™ II-XL

Fire Resistive Glass

- Fire resistive with intumescent interlayer
- Full radiant heat protection, maintains 250° F temperature rise rating
- Tint free and optically clear
- Available with optional Starphire® Ultra-Clear glass by PPG
- Etched with fire-rating on each piece
- Manufactured in USA
- 5 year Manufacturer Warranty
- Standard profiles:
 - 45 minute, 3/4" thick, 8 lbs./sq.ft., STC 40 rating
 - 60 minute, 1-1/8" thick, 9 lbs./sq.ft., STC 42 rating
 - 90 minute, 1-1/2" thick, 12 lbs/sq. ft., STC 44 rating



Fire-Rating Information: Certified by UL to

- ANSI/UL9, ANSI/UL10B, ANSI/UL10C,
CAN/ULC-S104, ULC CAN4-S106 with closed cell PVC
foam glazing tape like NGP GT-116, GT-118, or GT132
- IBC applicable edition may limit
maximum size allowable

Rating	Application	Max. Visible Glass Area (Sq. Inches)	Max. Width Visible Glass	Max. Height Visible Glass
45 Minute	Doors*, Temp rise doors, Sidelites, Borrowed lites, Transom lites	4,952	124"	124"
60 Minute	Doors*, Temp rise doors, Sidelites, Borrowed lites, Transom lites	4,952	124"	124"
90 Minute	Doors* , Temp rise doors *with fire-rated glass Lite kit	4,990	126"	126"

Impact Safety Rating Information:

Meets ANSI Z97.1, Class A

Meets CPSC 16CFR 1201 (Category I and II)

Complies with IBC requirements for use in doors

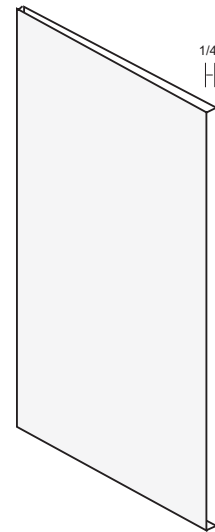
- Orders for this product are non-changeable and non-cancellable





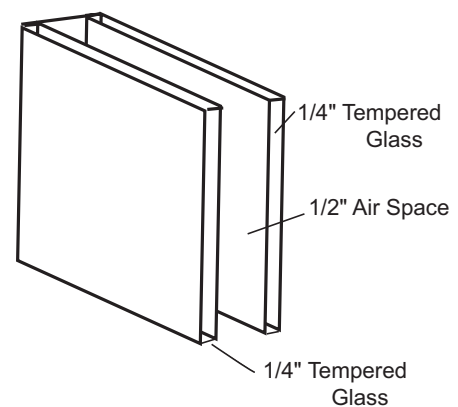
Tempered Glass

- Impact safety-rated: complies with IBC requirements for use in doors. Meets ANSI Z97.1 Class A and CPSC 16CFR 1201 (CAT I and II)
- 1/4" thick clear heat treated glass
- Approximately 4 times stronger than annealed (ordinary) glass
- Breaks into small harmless fragments
- Can NOT be cut after manufacturing
- 11" minimum height
- Manufactured in USA
- NOT fire-rated
- STC 31 rating



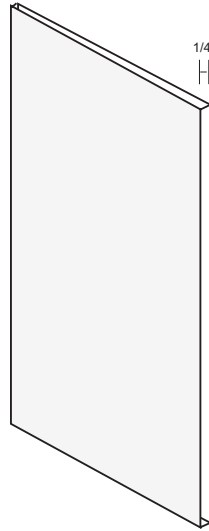
Insulated Tempered Glass

- Impact safety-rated: complies with IBC requirements for use in doors. Meets ANSI Z97.1 Class A and CPSC 16CFR 1201 (CAT I and II)
- 1" thick - consists of two pieces of 1/4" thick clear tempered glass with 1/2" air space between and butyl seal
- Increased energy efficiency
- Approximately 4 times stronger than annealed (ordinary) glass
- Breaks into small harmless fragments
- Can NOT be cut after manufacturing
- Manufactured in USA
- 5 year manufacturer Warranty
- NOT fire-rated
- STC 35 rating



Laminated Glass

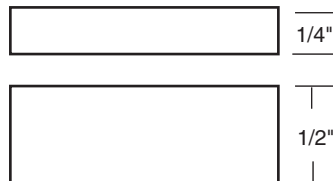
- Impact Safety rated. Complies with IBC requirements for use in doors. Meets ANSI Z97.1 Class A and CPSC 16CFR 1201 (CAT I and II)
- 1/4" thick laminated architectural glass
- Comprised of two plies of glass and a .030" PVB interlayer
- Manufactured in USA
- NON-Fire-Rated
- STC 35 rating



Polycarbonate High Impact

- Impact safety-rated: complies with IBC requirements for use in doors. Meets ANSI Z97.1, Class A and CPSC 16CFR 1201 (CAT I and II)
- Burglary-resisting material. Meets UL Standard 972
- Available in 1/4", 1/2" thicknesses (specify on order)
- Colorless transparent sheet
- Virtually unbreakable - 300 times stronger than ordinary glass
- Unlikely to shatter or chip when bombarded with thrown rocks, bricks or bottles.
- UV stabilized to resist solar exposure
- Manufactured in USA
- 5 year Manufacturer Warranty
- NOT fire-rated
- Acoustical ratings: 1/4" = STC 29
1/2" = STC 34

Thicknesses Available



Glazing Tape

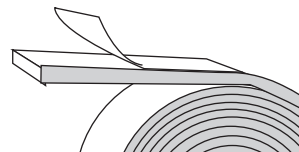
Closed Cell PVC Foam

GT-116 3/8" wide x 1/16" thick - 200' rolls

GT-118 3/8" wide x 1/8" thick - 100' rolls

GT-132 3/8" wide x 1/32" thick - 200' rolls

GT-316 3/8" wide x 3/16" thick - 50' rolls



- Closed cell PVC Foam glazing tape with adhesive both sides.
- Color is black
- For use in lite kits on UL10C positive pressure fire-rated wood or steel doors rated up to:
 - 20 minutes with Superlite™ I-20 or Fire Protective Wired glass
 - 90 minutes with Protect3™ or SuperLite™ X-90 and SuperLite™ II-XL
 - 180 minutes with Pyran® Platinum F or Pyran® Platinum L

Intumescent

GT-9800 1/2" wide x 1/16" thick - 150' rolls



- Intumescent glazing tape with adhesive one side
- Color is black
- For use in lite kits on UL10C positive pressure fire-rated wood or steel doors using 1/4" Fire-protective Wired glass, up to 90 minutes

Butyl Rubber

GT-16 3/8" wide x 1/16" thick - 50' rolls



- Butyl rubber glazing tape with adhesive both sides
- Color is black
- For use in lite kits on UL10B fire-rated wood or steel doors, using 1/4" Fire-protective Wired glass, up to 90 minutes