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.
## Glass Product Index

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<td>GT-118</td>
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<td>GL10</td>
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<td>GT-132</td>
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<td>GL10</td>
</tr>
<tr>
<td>GT-316</td>
<td>3/16&quot; Thick Closed Cell PVC Foam</td>
<td>GL10</td>
</tr>
<tr>
<td>GT-9800</td>
<td>1/16&quot; Thick Intumescent</td>
<td>GL10</td>
</tr>
</tbody>
</table>
**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

<table>
<thead>
<tr>
<th>Rating</th>
<th>Application</th>
<th>Max. Visible Glass Area (Sq. Inches)</th>
<th>Max. Width Visible Glass</th>
<th>Max. Height Visible Glass</th>
</tr>
</thead>
<tbody>
<tr>
<td>20, 45 Minute</td>
<td>Doors*, Borrowed lites</td>
<td>1,296</td>
<td>54&quot;</td>
<td>54&quot;</td>
</tr>
<tr>
<td>60, 90 Minute</td>
<td>Doors*</td>
<td>100</td>
<td>12&quot;</td>
<td>33&quot;</td>
</tr>
</tbody>
</table>

*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

<table>
<thead>
<tr>
<th>Rating</th>
<th>Application</th>
<th>Max. Visible Glass Area (Sq. Inches)</th>
<th>Max. Width Visible Glass</th>
<th>Max. Height Visible Glass</th>
</tr>
</thead>
<tbody>
<tr>
<td>20, 45, 60, 90 Minute</td>
<td>Doors* (non-temp rise)</td>
<td>2,736</td>
<td>36&quot;</td>
<td>76&quot;</td>
</tr>
<tr>
<td></td>
<td>Side-lites, Borrowed lites, Transom lites</td>
<td>3,422</td>
<td>76&quot;</td>
<td>76&quot;</td>
</tr>
<tr>
<td>180 Minutes</td>
<td>Doors* including temp-rise</td>
<td>100</td>
<td>12&quot;</td>
<td>33&quot;</td>
</tr>
</tbody>
</table>

*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

<table>
<thead>
<tr>
<th>Rating</th>
<th>Application</th>
<th>Max. Visible Glass Area (Sq. Inches)</th>
<th>Max. Width Visible Glass</th>
<th>Max. Height Visible Glass</th>
</tr>
</thead>
<tbody>
<tr>
<td>20, 45, 60, 90 Minute</td>
<td>Doors* (non-temp rise)</td>
<td>2,736</td>
<td>36&quot;</td>
<td>75&quot;</td>
</tr>
<tr>
<td>20, 45, 60, 90 Minute</td>
<td>Side-lites, Borrowed lites, Transom lites</td>
<td>3,143</td>
<td>75&quot;</td>
<td>75&quot;</td>
</tr>
<tr>
<td>180 Minutes</td>
<td>Doors* including temp rise</td>
<td>100</td>
<td>12&quot;</td>
<td>33&quot;</td>
</tr>
</tbody>
</table>

*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

<table>
<thead>
<tr>
<th>Rating</th>
<th>Application</th>
<th>Max. Visible Glass Area (Sq. Inches)</th>
<th>Max. Width Visible Glass</th>
<th>Max. Height Visible Glass</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 Minute</td>
<td>Hollow metal doors*</td>
<td>2,678</td>
<td>109&quot;</td>
<td>109&quot;</td>
</tr>
<tr>
<td>No hose stream</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20 Minute</td>
<td>Wood doors*</td>
<td>2,719</td>
<td>77-1/8&quot;</td>
<td>77-1/8&quot;</td>
</tr>
<tr>
<td>No hose stream</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20 Minute</td>
<td>Sidelights in Hollow Metal door frames</td>
<td>3,965</td>
<td>109&quot;</td>
<td>109&quot;</td>
</tr>
<tr>
<td>No hose stream</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20 Minute</td>
<td>Hollow Metal Borrowed Lites and Transoms</td>
<td>2,800</td>
<td>71-1/4&quot;</td>
<td>71-1/4&quot;</td>
</tr>
<tr>
<td>No hose stream</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* 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

<table>
<thead>
<tr>
<th>ORDER</th>
<th>FITS LITE KIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>11&quot; x 11&quot;</td>
<td>L-FRA100-SP 12&quot; x 12&quot;</td>
</tr>
<tr>
<td>4&quot; x 34&quot;</td>
<td>L-FRA100-SP 5&quot; x 35&quot;</td>
</tr>
<tr>
<td>5&quot; x 26&quot;</td>
<td>L-FRA100-SP 6&quot; x 27&quot;</td>
</tr>
<tr>
<td>6&quot; x 21&quot;</td>
<td>L-FRA100-SP 7&quot; x 22&quot;</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Rating</th>
<th>Application</th>
<th>Max. Visible Glass Area (Sq. Inches)</th>
<th>Max. Width Visible Glass</th>
<th>Max. Height Visible Glass</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 Minute</td>
<td>Doors* including temp rise doors</td>
<td>100</td>
<td>10&quot;</td>
<td>33&quot;</td>
</tr>
</tbody>
</table>

*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

<table>
<thead>
<tr>
<th>Rating</th>
<th>Max. Visible Glass Area (Sq. Inches)</th>
<th>Max. Width Visible Glass</th>
<th>Max. Height Visible Glass</th>
</tr>
</thead>
<tbody>
<tr>
<td>20, 45 Minute*</td>
<td>1,296</td>
<td>54&quot;</td>
<td>54&quot;</td>
</tr>
<tr>
<td>60, 90 Minute*</td>
<td>100</td>
<td>10&quot;</td>
<td>33&quot;</td>
</tr>
</tbody>
</table>

*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 Resistant 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

<table>
<thead>
<tr>
<th>Rating</th>
<th>Application</th>
<th>Max. Visible Glass Area (Sq. Inches)</th>
<th>Max. Width Visible Glass</th>
<th>Max. Height Visible Glass</th>
</tr>
</thead>
<tbody>
<tr>
<td>45 Minute</td>
<td>Doors*, Temp rise doors, Sidelites, Borrowed lites, Transom lites</td>
<td>4,952</td>
<td>124&quot;</td>
<td>124&quot;</td>
</tr>
<tr>
<td>60 Minute</td>
<td>Doors*, Temp rise doors, Sidelites, Borrowed lites, Transom lites</td>
<td>4,952</td>
<td>124&quot;</td>
<td>124&quot;</td>
</tr>
<tr>
<td>90 Minute</td>
<td>Doors*, Temp rise doors</td>
<td>4,990</td>
<td>126&quot;</td>
<td>126&quot;</td>
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</tbody>
</table>

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**

- 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

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**Insulated Tempered Glass**

- 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

- 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

- 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:  
  \[ 1/4" = \text{STC 29} \]
  \[ 1/2" = \text{STC 34} \]
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 SuperLite® I-W 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