## Glazing Options

### Table of Contents

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specifications: Keralite, Swissflam, Pyroswiss</td>
<td>G2</td>
<td></td>
</tr>
<tr>
<td>WireShield</td>
<td>Clear, 1/4&quot; CAT II &amp; Fire-rated 20-90 Minute Wire Glass</td>
<td>G3</td>
</tr>
<tr>
<td>Wire Glass</td>
<td>Clear, Fire-rated 20-90 Minute Wire Glass</td>
<td>G4</td>
</tr>
<tr>
<td>Tempered Glass</td>
<td>Clear, CAT II Safety-rated Glass</td>
<td>G5</td>
</tr>
<tr>
<td>Swissflam - 45</td>
<td>Clear, Laminated CAT II &amp; Heat Barrier Fire-rated 45 Minute Glass</td>
<td>G6</td>
</tr>
<tr>
<td>Keralite FRL</td>
<td>Clear, Ceramic, CAT II &amp; Fire-rated 20-180 Minute Glass</td>
<td>G7</td>
</tr>
<tr>
<td>Keralite FRF</td>
<td>Clear, Ceramic, CAT II &amp; Fire-rated 20-90 Minute Glass</td>
<td>G8</td>
</tr>
<tr>
<td>Keralite FR-ULTRA</td>
<td>Clear, Ceramic, CAT II &amp; Fire-rated 20-90 Minute Glass</td>
<td>G9</td>
</tr>
<tr>
<td>Pyroswiss</td>
<td>Clear, CAT II &amp; Fire-rated 20 Minute Glass</td>
<td>G10</td>
</tr>
<tr>
<td>Swissflam - 60</td>
<td>Clear, Laminated CAT II &amp; Heat Barrier Fire-rated 60 Minute Glass</td>
<td>G11</td>
</tr>
<tr>
<td>Swissflam - 90</td>
<td>Clear, Laminated CAT II &amp; Heat Barrier Fire-rated 90 Minute Glass</td>
<td>G12</td>
</tr>
</tbody>
</table>

**Other Glazing Options Available Upon Request from Factory:**

* Bullet and Impact-Resistant Glazing Including Polycarbonate and Multi-layered Glass
* Security and Detention Glazing
* Insulated Glass

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ALGC0809  800-766-0660
Keralite® FRL
Laminated Ceramic
Fire Rated: 20 Minutes to 3 hours
G1

Swissflam® 45-N2
Clear Glass
Fire Rated: 45 Minutes
G6

Keralite® FRF
Ceramic Glazing
Fire Rated: 20 Minutes to 3 hours
G2

Swissflam® 60-N2
Clear Glass
Fire Rated: 60 Minutes
G7

Pyroswiss®
Clear Glass
Fire Rated: 20 Minutes
G4

Swissflam® 90-N2
Clear Glass
Fire Rated: 90 Minutes
G8

SPECIFICATIONS

GENERAL

Summary
1. Section Includes:
   A. Fire rated glazing materials installed as vision lights in fire rated doors, transoms and sidelites.

2. Related Sections:
   A. Section 08100 - steel doors and frames
   B. Section 08200 - wood doors
   C. Section 08270 - vision lite for doors

References
1. ASTM E 152 - methods for fire tests of door assemblies
2. FGMA GM - glazing material
3. FGMA SM - sealant manual
4. NFPA 80 - fire doors and windows
5. NFPA 252 - fire tests of door assemblies
6. UL 10B - fire tests of door assemblies
7. UL 10C - positive pressure fire tests of door assemblies

Performance Requirements
1. Fire rated clear and wireless glazing material with surface-applied film listed for use in impact safety-rated locations such as doors, transoms and sidelites with fire rating requirements ranging from 20 minutes to 3 hours with hose stream test. Note: This product is not a barrier to radiant heat. For barrier to radiant heat contact Air Louvers Inc. for Swissflam products.

Submittals
1. Comply with requirements of section 01300.
2. Product data: Submit manufacturer’s technical data for each type of glazing material used.

Quality Assurance
1. Glazing standards: FGMA glazing manual and sealant manual
2. Fire rated glass: Each lite shall bear permanent, nonremovable label of UL or WHI certifying it for use in tested and rated fire rated assemblies.
3. Fire rated glazing products for door assemblies: product identical to those tested per ASTM E 152, labeled and listed by UL and WHI.

Delivery, Storage and Handling
1. Glazing material must be handled with care during transportation, storage, inspection and installation. Store in a dry location.

Warranty
1. Warranty period: Keralite® FRF film is warranted for 3 years.
2. Keralite® FRF is an engineered specialty fire resistant glass-ceramic material with its primary function being that of fire resistance integrity. Certain optical and visual faults are inherent to the manufacturing process, which may be evaluated according to the manufacturers quality standards. These characteristics do not generally impair the performance of the glass in case of fire; and therefore shall not be considered cause for rejection.
3. Swissflam® is an engineered specialty fire resistant glass-ceramic material. Certain optical and visual faults are inherent to the production process. These characteristics may be evaluated according to the manufacturers quality standards but do not generally impair the transparency or affect the performance of the glass in case of fire; and therefore shall not be considered cause for rejection.
4. Pyroswiss® is an engineered specialty fire resistant glazing material. Certain optical and visual faults are inherent to the float production process, as are limited distortion and surface irregularities due to the tempering process. These characteristics may be evaluated according to the manufacturers quality standards but do not generally impair the transparency or affect the performance and shall not be considered cause for rejection.

EXECUTION

Installation (Glazing) and Examination
1. Check that the opening is plumb and square. Carefully inspect glass edges before installation. Superficial chips smaller than 5/32” (4 mm) are acceptable. Wider superficial chips or deep chips (with V profile) are not acceptable and should not be installed. Place setting blocks (3” min.) at sill located at approximately quarter points. Do not block the lite so as to restrict movement due to thermal expansion. Direct glass to perimeter frame contact should be strictly avoided. Check perimeter clearance and adjust setting blocks as needed.
2. Cut glazing tape to length and set against stops, flush with sight lines. Install in vision panels in fire rated doors to requirements of NFPA 80.
3. Install so that appropriate (UL) (WHI) markings remain permanently visible.

Protection and Cleaning
1. Protect glass from contact with contaminating material such as paint or paint primer.
2. Wash glass with a mild solution of soap and water and dry with a soft cloth being careful not to damage the 3M™ Scotchshield™ Ultra film.
Cat II impact and fire-rated glass. 1/4” wire glass with film. Recommended to meet IBC 2006 standards for impact safety-rated and fire-rated wired glass. WireShield is listed for up to 90 minutes for interior doors, sidelites, transoms and borrowed lites.

**Specifications:** A clear, polished fire-rated wired glass with a film applied to one side to provide safety from impact. 3/4” x 3/4” diamond wire pattern. For interior or exterior use

**Standard Features:** 86% Light Transmission

**Thicknes:** 1/4” Order size is actual glass size.

**Weight:** 3.8 lbs per sq. ft

**Impact Safety Rating:** ANSI Z97 & CPSC 16 CFR 1201 CAT II

**Fire Ratings:** Listed by ITS Warnock Hersey; Each lite to have a permanent listing mark.

**Maximum Visible Lite:**
- 20-45 Minute Door: 1,296 in². Maximum width and height - 54”.
- 60-90 Minute Door: 100 in². Maximum width and height - 10” x 33”.

**Test Standards:**
- UBC 7-2, 7-4
- UL 9, 10B, 10C
- ASTM E2074, E152, E163, E2010
- ULC CAN4-S104-M80, CAN4-S106-M80
- NFPA 252, 257

**Installation:** Use glazing compound or glazing tape both sides of glass.

**Warranty:** 5 years commencing on Date of Substantial Completion.

**Note:** Please consult with your local building and fire code authorities for standards in your area.

**Wire Options:** □ Standard Wire □ Baroque Wire

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**Distributor:** ________________  **Project:** ________________
**Architect:** ________________  **Location:** ________________
**Contractor:** ________________  **Date:** ________________

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**New Product to Meet Current IBC Code Requirements**

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**WireOptions:** Baroque Wire  Standard Wire

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**800-766-0660  ALGC0809  G3**
MODEL: 1/4” Labeled Wire Glass

TESTED AND LISTED FOR U.L. 10C AND CRITERIA OF UBC 7-2 POSITIVE PRESSURE

Specifications

Standard Features:

Material: 1/4” polished wire glass

Finish: Clear with diamond wire glass

Classification Markings: Glass is permanently etched with UL listing mark

Installation: use glazing compound or glazing tape both sides of glass, install in fire listed and labeled vision frames

Options:

Size: □ Customized glass sizes available to meet UL classification. Large sizes available without the U.L. listing mark.

Fire Ratings (with UL and WHI classification markings):

- 20 Minute: Approved listing at 1,296 sq. in. visible lite (max. width 54”, max. height 54”)
- 45 Minute: Approved listing at 1,296 sq. in. visible lite (max. width 54”, max. height 54”)
- 60/90 Minute: Approved listing at 100 sq. in. visible lite (max. width 10”, max. height 33”)

Caution: Wire glass is not a safety rated product and should not be used in high traffic areas or where likelihood of accidental contact is high. Impact with wire glass can cause the glass to break and cause severe cuts to limbs. Contact the factory for the appropriate safety rated glass for your application.
Model TEMPERED GLASS
Clear wire free glass recommended for non fire rated applications requiring wire free safety rated glazing product.

Specifications
Standard Features:

**Material:** 1/4” thick clear tempered glass

**Thickness:** 1/4” (6 mm)

**Weight:** 2.5 lbs. per sq. ft.

**Impact safety rating:** ANSI Z97 AND CPSC 16CFR 1201 CAT.I
AND CAT.II
Tempered glass breaks into small particles preventing serious damage

**Maximum Visible Lite:** 36”x72”

Order size is actual glass size

Tempered Glass is a heat treated glass. Certain optical and visual faults are inherent to the tempering process as are limited distortion and surface irregularities. These characteristics may be evaluated according to the manufactures quality standard but do not generally impair the transparency or performance and shall not be considered cause for rejection.
**Model SWISSFLAM®**

Clear wire free glass recommended for fire rated doors requiring wire free, clear glazing for 45 minute applications. For other applications consult the factory.

**Specifications**

**Standard Features:**

**Material:** Comprised of two lites of laminated safety glass separated by an intumescent interlayer. In case of fire the interlayer absorbs radiant energy from the fire reducing the transmission of heat to the non-fire side of the door.

**Thickness:** 3/4” (19mm)

**Weight:** 7.6 lbs, per sq. ft.

**Light Transmission:** 82%

**U-value:** 0.96

**STC Ratings:** 41

**Impact safety rating:** ANSI Z97 AND CPSC 16CFR 1201 CAT.I
AND CAT.II

**Fire Ratings** Listed by ITS [Warnock Hersey] and Underwriters Laboratories, Inc.
Each lite to have a permanent listing mark.

**Listing:** 45 minutes with hose stream test, Acts as a barrier to heat. For other listings consult the factory.

**Maximum Visible Lites:** Steel Doors 2635 sq. in. maximum width 36”
Maximum height 77 1/2”.
Wood doors 2397 sq. in. maximum width 36”
Maximum height 70 1/2”.
Side Lites 3775 sq. in. maximum width and height 84”

**Test Standard** Tested in accordance with the following test standard;
UBC 7-4, UL-10C positive pressure, NFPA 252 and CAN. 4-S106
Fire test includes hose stream test

**Installation:** use glazing compound or glazing tape both sides of glass, install in fire listed and labeled vision frames

Swissflam® is an engineered specialty fire resistant glazing material. Certain optical and visual faults are inherent to the manufacturing process. These characteristics may be evaluated according to the manufactures quality standards but do not generally impair the transparency or affect the performance, and shall not be considered cause for rejection.
Model KERALITE® FRL

Laminated clear ceramic glazing material recommended for fire rated applications that require a clear wire free safety rated vision through doors

Specifications

Standard Features:

**Material:** Ceramic glazing material for use in fire rated doors, transoms, and sidelites. Keralite FRL is two lites of Keralite® FR laminated together for safety and additional strength.

**Thickness:** 5/16” (8mm)

**Weight:** 4.0 lbs. per sq. ft.

**Impact safety rating:** ANSI Z97 AND CPSC 16CFR 1201 CAT.I AND CAT.II

**Fire Ratings** Listed by ITS [Warnock Hersey] and Underwriters Laboratories, Inc. Each lite to have a permanent listing mark.

**Maximum Visible Lites:**
- **20 to 90 minute door:** 490 sq. in. maximum width and height 33” □
- **3 Hour door:** 100 sq. in. maximum width 12” maximum height 33” □
- **Sidelites:** 490 sq. in. maximum width and height 26 1/2” □

We are continually testing our products. Please consult the factory if you require sizes larger than shown.

**Test Standard** Tested in accordance with the following test standards;
- UBC 7-4, UL-10C positive pressure, NFPA 252 and CAN. 4-S106
- Fire test includes hose stream test

**Order size is actual glass size**

**Installation:** use glazing compound or glazing tape both sides of glass, install in fire listed and labeled vision frames

Door Rating Must Be Checked under "Maximum Visible Lite" Section

Keralite® FRL is an engineered speciality fire resistant glazing material. Certain optical and visual faults are inherent to the manufacturing process. These characteristics may be evaluated according to the manufactures quality standards but do not generally impair the transparency or performance, and shall not be considered cause for rejection.

| Distributor: _______________________________ | Project: _______________________________ |
| Architect: _______________________________ | Location: _______________________________ |
| Contractor: _______________________________ | Date: _______________________________ |
Model KERALITE® FRF

Clear ceramic glazing material recommended for fire rated applications that need a clear, wire free vision through doors.

Specifications

Standard Features:

**Material:** Ceramic glazing material for use in fire rated doors, transoms, and sidelites. Keralite® FRF has a surface applied 3M™ Scotchshield Ultra Film applied on one side. Scotchshield™ and Ultra Film are trademarks of 3M

**Thickness:** 3/16” (5mm)

**Weight:** 2.7 lbs. per sq. ft.

**Light Transmission:** 86%

**U-value:** 1.10

**STC Rating:** 28

**Impact safety rating:** ANSI Z97 AND CPSC 16CFR 1201 CAT.I

AND CAT.II

**Fire Ratings**
Listed by ITS [Warnock Hersey] and Underwriters Laboratories, Inc.
Each lite to have a permanent listing mark.

**Listing:** 3 hours steel doors.

**Maximum Visible LITE:** 100 sq. in. maximum width 12” maximum height 33”

**Listing:** 20, 30, 45, 60, 90, minutes steel doors wood doors.

**Maximum Visible LITE:** 1500 sq. in. maximum width and height 60”
(example 30”X 50” or 25”X 60”)

**Listing:** Sidelites

**Maximum Visible LITE:** 1763 sq. in. maximum width and height 60”

**Test Standard**
Tested in Accordance with the following test standards;

UBC 7-4, UL-10C positive pressure, NFPA 252 and CAN. 4-S106

Fire test includes hose stream test

**Installation:** use glazing compound or glazing tape both sides of glass, install in fire listed and labeled vision frames

Keralite® FRF is an engineered specialty fire resistant glazing material. Certain optical and visual faults are inherent to the manu-facturing process. These characteristics may be evaluated according to the manufacturer's quality standards but do not generally impair the transparency or performance, and shall not be considered cause for rejection.

| Distributor: ___________________________ | Project: ___________________________
| Architect: ___________________________  | Location: ___________________________
| Contractor: ___________________________ | Date: ___________________________ |
Model KERALITE® FR-ULTRA

Clear wire free laminated glazing material. Recommended for applications requiring a fire rated non wire safety rated product.

Specifications

Standard Features:

Material: Ceramic glazing material for use in fire rated doors, transoms, and sidelites.

Thickness: 3/4” (6mm)

Weight: 6.0 lbs. per sq. ft.

Impact safety rating: ANSI Z97.1 AND CPSC 16CFR 1201 CAT.I AND CAT.II

Fire Ratings Listed by ITS [Warnock Hersey] and Underwriters Laboratories, Inc.
Each lite to have a permanent listing mark.

Maximum Visible Lite:

20 to 90 minute door: 1,680 sq. in. maximum width and height to 58 1/2”
Sidelites: 1,680 sq. in. maximum width and height 58 1/2”

We are continually testing our products. Please consult the factory if you require sizes larger than shown.

Test Standard: Tested in Accordance with the following test standards; UBC 7-4, UL-10C positive pressure, NFPA 252 and CAN. 4-S106

Installation: use glazing compound or glazing tape both sides of glass, install in fire listed and labeled vision frames

Keralite® FR-ULTRA is an engineered specialty fire resistant glazing material. Certain optical and visual faults are inherent to the manufacturing process. These characteristics may be evaluated according to the manufactures quality standards but do not generally impair the transparency or performance, and shall not be considered cause for rejection.

Distributor: _____________________________
Architect: _______________________________
Contractor: _____________________________

Project: ________________________________
Location: _______________________________
Date: _________________________________

ALGC0809 800-766-0660
Model PYROSWISS®

Clear wire free glass recommended for fire rated doors requiring wire free, clear glazing for 20 minute applications

Specifications

Standard Features:

Material: Alkaline silicate float glass manufactured by Vertrotech/Saint Gobain for use in fire rated doors, transoms, and sidelites.

Thickness: 1/4" (6mm)

Weight: 3.0 lbs. per sq. ft.

Light Transmission: 90%

U-value: 1.11

STC Rating: 28

Impact safety rating: ANSI Z97.1 AND CPSC 16CFR 1201 CAT.I AND CAT.II

Fire Ratings Listed by ITS [Warnock Hersey] and Underwriters Laboratories, Inc.
Each lite to have a permanent listing mark.

Listing: 20 minutes without hose stream test.

Maximum Visible Lite: Steel Door and Wood Doors; 35½" x 95½"
Sidelites; 4536 sq. in.
Width not to exceed 95½"
Height not to exceed 95½"

Test Standards: Tested in accordance with the following test standards;
UBC 7-4, UL-10C positive pressure, NFPA 252 and CAN. 4-S106

Order size is actual glass size

Installation: use glazing compound or glazing tape both sides of glass, install in fire listed and labeled vision frames

Pyroswiss® is an engineered specialty fire resistant glazing material. Certain optical and visual faults are inherent to the production process, as are limited distortion and surface irregularities due to the tempering process. These characteristics may be evaluated according to the manufactures quality standards but do not generally impair the transparency or performance, and shall not be considered cause for rejection.
Model SWISSFLAM®

Clear wire free glass recommended for fire rated doors requiring wire free, clear glazing for 60 minute applications. For other applications consult the factory.

Specifications

Standard Features:

**Material:** Comprised of two lites of laminated safety glass separated by an intumescent interlayer. In case of fire the interlayer absorbs radiant energy from the fire reducing the transmission of heat to the non-fire side of the door.

**Thickness:** 0.985" [25mm]

**Weight:** 11.0 LBS PER SQ. FT.

**Light Transmission:** 82%

**U-value:** .96

**STC Rating:** 43

**Impact safety rating:** ANSI Z97 AND CPSC 16CFR 1201 CAT.I AND CAT.II

Fire Ratings

Listed by ITS [Warnock Hersey] and Underwriters Laboratories, Inc.

Each lite to have a permanent listing mark.

**Listings:**

- 60 minutes with hose stream test, Acts as a barrier to heat.
- For other listings consult the factory.

**Maximum Visible Lite:**

- Steel Doors / Wood Doors 3325 sq. in. [2.15 sq m.]
- Height not to exceed 95" [2413 mm]
- Side Lites 3325 sq. in. [2.15 sq. m.]
- Maximum Width and Height not to exceed 95" [2413 mm]

Test Standard

Tested in accordance with the following test standard; UBC 7-4, UL-10C positive pressure, NFPA 252 and CAN, 4-S106

**Installation:** use glazing compound or glazing tape on both sides of glass, install in fire listed and labeled vision frames

Order size is actual glass size

Swissflam® is an engineered specialty fire resistant glazing material. Certain optical and visual faults are inherent to the manufacturing process. These characteristics may be evaluated according to the manufactures quality standards but do not generally impair the transparency or affect the performance, and shall not be considered cause for rejection.

Distributor: ________________________________
Architect: ________________________________
Contractor: ________________________________

Project: ________________________________
Location: ________________________________
Date: ________________________________
Model SWISSFLAM®

Clear wire free glass recommended for fire rated doors requiring wire free, clear glazing for 90 minute applications. For other applications consult the factory.

Specifications

Standard Features:

- **Material:** Comprised of two lites of laminated safety glass separated by an intumescent interlayer. In case of fire the interlayer absorbs radiant energy from the fire reducing the transmission of heat to the non-fire side of the door.

- **Thickness:** 1.339” [34mm]

- **Weight:** 14.0 LBS PER SQ. FT.

- **Light Transmission:** 82%

- **U-value:** .96

- **STC Rating:** 43

- **Impact safety rating:** ANSI Z97 AND CPSC 16CFR 1201 CAT.I AND CAT.II

- **Fire Ratings**
  - Listed by ITS [Warnock Hersey] and Underwriters Laboratories, Inc.
  - Each lite to have a permanent listing mark.

- **Listing:** 90 minutes with hose stream test, Acts as a barrier to heat. For other listings consult the factory.

- **Maximum Visible Lite:**
  - Steel Doors 3204 sq. in. [0.70 sq m.]
  - Sidelites 3204 max width and height 89”

- **Test Standard**
  - Tested in accordance with the following test standard:
  - UBC 7-4, UL-10C positive pressure, NFPA 252 and CAN. 4-S106
  - Fire test includes hose stream test.

Order size is actual glass size

Swissflam® is an engineered specialty fire resistant glazing material. Certain optical and visual faults are inherent to the manufacturing process. These characteristics may be evaluated according to the manufactures quality standards but do not generally impair the transparency or affect the performance, and shall not be considered cause for rejection.

<table>
<thead>
<tr>
<th>Distributor:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location:</td>
</tr>
<tr>
<td>Date:</td>
</tr>
</tbody>
</table>

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**Installation:** Use glazing compound or glazing tape both sides of glass, install in fire listed and labeled vision frames.

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**Model:** SWISSFLAM®-90-N2 / CONTRAFLAM®-90-N2

**Tested and Listed for:** U.L. 10C and Criteria of UBC 7-2 Positive Pressure

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**Clear Wire Free Fire and Safety Glazing Fire Rated 90 Minutes**

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**G12**

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**ASGC0809**

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**800-766-0660**
# Vision Frames

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>WOODLITE</td>
<td>Steel Vision Frame Covered With Wood Veneer</td>
<td>V3</td>
</tr>
<tr>
<td>VSL SLIMLINE</td>
<td>Low Profile Beveled Vision Frame</td>
<td>V4</td>
</tr>
<tr>
<td>VSL-IG</td>
<td>Low Profile For 1/2, 5/8, 3/4 Or 1&quot; Thick Glass</td>
<td>V5</td>
</tr>
<tr>
<td>VL3000</td>
<td>Vision Frame For Fire Rated Doors Using Large Lites Of Glass</td>
<td>V6</td>
</tr>
<tr>
<td>VL3000</td>
<td>Vision Frame For Fire Rated Doors Using Large Lites Of Glass</td>
<td>V7</td>
</tr>
<tr>
<td>VLF-EZ</td>
<td>Beveled Vision Frame With 3/16&quot; Return</td>
<td>V8</td>
</tr>
<tr>
<td>VLF-EZ-IG</td>
<td>Vision Frame For Glass Up To 1&quot; Thick</td>
<td>V9</td>
</tr>
<tr>
<td>VLF</td>
<td>Square Vision Frame With Thru Bolt Installation</td>
<td>V10</td>
</tr>
<tr>
<td>VLF-IG</td>
<td>Vision Frame For Glass Up To 1-1/2&quot; Thick And Door Up To 3&quot; Thick</td>
<td>V11</td>
</tr>
<tr>
<td>VLF-DG</td>
<td>Vision Frame For 2 Lites Of Glass</td>
<td>V12</td>
</tr>
<tr>
<td>VLF-R</td>
<td>Round Vision Frames With Square Profile And Thru Bolt Installation</td>
<td>V13</td>
</tr>
<tr>
<td>SL-R</td>
<td>Round Vision Frames With Beveled Profile And SMS Installation</td>
<td>V14</td>
</tr>
<tr>
<td>VLF-RI</td>
<td>Vision Frame With Radius Top And Bottom</td>
<td>V15</td>
</tr>
<tr>
<td>VLF-RC</td>
<td>Vision Frame With 6&quot; Radius Corners</td>
<td>V16</td>
</tr>
<tr>
<td>VLF-RD</td>
<td>Half Circle Vision Frames</td>
<td>V17</td>
</tr>
<tr>
<td>MULLIONS</td>
<td>Vision Frames With Mullions For French Door Look</td>
<td>V18</td>
</tr>
<tr>
<td>FRM</td>
<td>Framed Mullions For Transoms Or Sidelites</td>
<td>V19</td>
</tr>
<tr>
<td>CUSTOM SHAPES</td>
<td>Vision Frames With Custom Shapes</td>
<td>V20</td>
</tr>
<tr>
<td>VLF-PVC</td>
<td>Vision Frame With Privacy Cover</td>
<td>V21</td>
</tr>
<tr>
<td>VLF-S10</td>
<td>Security Vision Frame</td>
<td>V22</td>
</tr>
<tr>
<td>VLF-S10-SP</td>
<td>Security Vision Frame With Speaker Panel</td>
<td>V23</td>
</tr>
<tr>
<td>VLF-SG</td>
<td>Security Vision Frame With Security Grills</td>
<td>V24</td>
</tr>
<tr>
<td>VLF-PO</td>
<td>Vision Frame For US Postal Service</td>
<td>V25</td>
</tr>
<tr>
<td>SLIMLINE-IG-MB</td>
<td>Vision Frame With Insulated Glass And Mini Blind</td>
<td>V26</td>
</tr>
<tr>
<td>VLF-EZ-IG-MB</td>
<td>VLF-EZ Vision Frame With Insulated Glass And Mini Blind</td>
<td>V26</td>
</tr>
<tr>
<td><strong>Hurricane-Rated Vision Frames</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VLF-EZ-HRC</td>
<td>Hurricane Vision Frame</td>
<td>V27</td>
</tr>
<tr>
<td>VLF-IG-HRC</td>
<td>Hurricane Vision Frame</td>
<td>V28</td>
</tr>
</tbody>
</table>

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ALGC0809 800-766-0660
Installation Instructions for model VLF-EZ and Slimline for UL 10C Positive Pressure.

1. Read and follow the installation requirements of the door manufacturers.

2. Cut the hole in the door to correspond to the order size of the vision frame.

3. Prepare the cut out if required per the door manufacturers installation instructions.

4. Insert the corridor side frame in the cut out.

5. Install Pemko FGS4500 Intumescent tape on the underside of the glass retainer for 20-minute combustible core wood doors. Not required for 45, 60, 90-minute doors or doors complying with UL10B.

6. Laying glass on corridor side of frame and install room side frame by inserting SMS into countersunk holes and screwing into pre-punched holes in the corridor side of frame.

7. After all screws are attached, align the frame to the bottom of the cut out and tighten the screws.

Installation Instructions for model VLF and VLF type Vision Frames for UL 10C Positive Pressure.

1. Read and follow the installation requirements of the door manufacturers.

2. Cut the hole in the door to correspond to the order size of the vision frame.

3. Prepare the cut out if required per the door manufacturers installation instructions.

4. Align the frame to the bottom of the cut out. Using the Vision Frame mounting holes as a template, drill holes in the door for the through bolts.

5. Insert the corridor side of the frame in cut out.

6. Install Pemko FGS4500 Intumescent tape in cut out around perimeter of glass. Not required for 45, 60, 90-minute doors or doors complying with UL10B.

7. Lay glass on corridor side of frame and install room side frame by inserting female part of through bolt through the corridor side and fasten with machine screw, being careful not to over tighten.
Model WOODLITE

Low Profile Beveled VISION LITE
Recommended for applications where matching wood finish is required on fire rated doors.

Specifications
Standard Features:

Material: 20 gauge CRS frame prime coated with .018 thick wood veneer.

Construction: Radius Corners, mitered and welded. Continuous glass retainer, countersunk mounting holes in the bevel. Wrapped with wood veneer.

Finish: Wood veneer, to be finished by others.

Door: For 1-3/4” door.

Fasteners: #8 x 7/8” flathead Phillips SMS with wood veneer plugs to cover screw heads.

Glass: Use 3/16”, 1/4” fire rated glazing with Warnock Hersey(TTS) or U.L. classification markings for fire rated applications.

Options:

UBC 7-2: □ Positive Pressure UL10C
20 minute combustible core wood doors install
1/16” x 1/2” FGS4500 intumescent tape under glass retainer.
NOT REQUIRED FOR 45, 60, 90 MINUTE DOORS OR DOORS COMPLYING TO UL10B

Veneer: Standard veneer available: red oak, white oak, white birch, Honduras mahogany, maple, cherry. For other species consult factory.

Order: Veneer

Glass: See Glass Section

Size: _____ ” wide x _____ ” high ______ Quantity
(door cut out size equals order size)

Fire Ratings (with UL and ITS classification markings):

Using 1/4” thick listed wire glass
• 20, 45, 60, 90 Minute see page G9 in glass section

Using 3/16” thick PYROSWISS
• 20 Minutes without hose stream test see page G4 in glass section

Using 5/16” thick KERALITE-FRL
• 20 Minutes to 3 hours see page G1 in glass section

Using 3/16” thick KERALITE-FRP
• 20 Minutes to 3 hours see page G2 in glass section

For non rated TEMPERED GLASS see page G5 in the glass section
For FIRELITE or other “Listed Glass” consult the factory

Distributor: ____________________________
Architect: _____________________________
Contractor: ___________________________

Project: ______________________________
Location: _____________________________
Date: ________________________________

ALGC0809 800-766-0660

V3
MODEL VSL - SLIMLINE®

Low Profile Beveled VISION LITE
with continuous glass retainer.
Recommended for applications where
low profile, total visibility and light
transmissions are required.

Specifications

Standard Features:

Material: 20 gauge CRS frame.

Construction: Radius Corners, mitered and
welded. Continuous glass retainer, countersunk
mounting holes in bevel return. Screws fasten
from room side into prepunched internal
mounting holes. This mounting method leaves
corridor side of frame free of fasteners for
aesthetic and security purposes.

Finish: Mineral bronze baked on powder coat.

Door: For 1-3/4” door.

Fasteners: #8 x 7/8” flathead phillips head SMS.

Glass: Use 3/16”, 1/4”, fire rated glazing with
Warnock Hersey (ITS) or U.L. classification markings
for fire rated applications.

Options:

UBC 7-2:  □ Positive Pressure UL10C
20 minute combustible
core wood doors install
1/16” x 1/2” FGS4500
intumescent tape under glass
retainer.
NOT REQUIRED FOR 45, 60, 90
MINUTE DOORS OR DOORS
COMPLYING TO UL10B

Material:  □ 20 gauge stainless steel - #4 finish
□ Galvanized sheet for exterior use
□ Electro-galvanized steel

Finish:  □ Baked on powder coat gray prime for
field painting, no extra charge.
□ Special order colors. Please provide color chip.

Glass:  □ See Glass Section.

Fasteners: □ Security fasteners, please specify

Size: ______ x ______ high ______ Quantity
(Door cut out size equals order size)

Distributor: _____________________________ Project: _____________________________
Architect: ______________________________ Location: ___________________________
Contractor: _____________________________ Date: ________________

Fire Ratings with Warnock Hersey (ITS) or U.L.,
Classification Markings:
Using 1/4” thick listed wired glass
• 20, 45, 60, 90 Minute see page G9 in glass section
Using 3/16” thick PYROSWISS
• 20 Minutes without hose stream test page G4 in
glass section
Using 5/16” thick KERALITE-FRL
• 20 Minutes to 3 hours see page G1 in glass section
Using 3/16” thick KERALITE-FFR
• 20 Minutes to 3 hours see page G2 in glass section

For non rated TEMPERED GLASS see page G5 in glass section
For FIRELITE® or other “Listed Glass” consult the factory

V4  ALGC0809  800-766-0660
Model SLIMLINE-IG
Low Profile Beveled VISION LITE

Recommended for applications requiring fire rated, safety, and or insulated glazing up to 1" thick

Specifications

Standard Features:

Material: 20 gauge CRS frame.

Construction: Radius Corners, mitered and welded. Beveled return, continuous glass retainer, countersunk mounting holes. Screws fasten from room side into prepunched mounting holes. This mounting method leaves corridor side of frame free of fasteners for aesthetic and security purposes.

Door: 1-3/4" For other door thickness, see VLF-EZIG

Finish: Mineral bronze baked on powder coat.

Fasteners: #8 x 7/8" flathead phillips head screws.


For fire rated applications, CLASSIFIED GLAZING MATERIAL Must be used

Options:

Material:
□ 20 gauge stainless steel - #4 finish
□ Galvanized sheet for exterior use
□ Electro-galvanized steel

Glass:
□ See Glass Section.

Finish:
□ Baked on powder coat gray prime for field painting, no extra charge.
□ Special order colors. Please provide color chip.

Size: ______” wide x ______” high _____ Quantity
(door cut out size equals order size)

Fire Ratings with Warnock Hersey (ITH) or U.L. Classification Markings

Using 3/4” thick SWISSFLAM
• 45/60/90 Minute see page G4 in glass section
For FIRELITE or other "Listed Glass" consult the factory

Distributor: ____________________________ Project: ____________________________
Architect: ______________________________ Location: __________________________
Contractor: _____________________________ Date: ____________________________
Air Louvers VL3000 Vision frames with approved wire glass and FG3000S glazing tape.
For 20 and 45 min. doors use FGS3000S45, for 60 and 90 min. doors use FGS3000S90

20 Minute Wood Door
Tested and listed to meet the requirements of U.L. 10C and the criteria of UBC 7.2 positive pressure.

Approved listing at 2,856 sq. in. visible lite max width 34", max height 84", multiple lites allowed. Combined visible lite not to exceed 2,856 sq. in. per door. Max door size 48" x 96" single or pairs.

20 Minute/45 Minute Hollow Metal Doors
Tested and listed to meet the requirements of U.L. 10C and the criteria of UBC 7.2 positive pressure.

Approved listing at 2,856 sq. in. visible lite; max width 34", max height 84", multiple lites allowed. Combined visible lite not to exceed 2,856 sq. in. per door. Max door size 48" x 120" single or pairs.

45 and 80 Minute Wood Doors
Tested and listed to meet the requirements of U.L. 10C and the criteria of UBC 7.2 positive pressure.

Approved listing at 960 sq. in. visible lite max width 12", max height 80", multiple lites allowed. Combined visible lite not to exceed 1,920 sq. in. per door. Max door size 48" x 96" single or pairs.

45 Minute Hollow Metal Doors
Tested and listed to meet the requirements of U.L. 10C and the criteria of UBC 7.2 positive pressure.

Approved listing at 1,008 sq. in. visible lite; max width 12", max height 84", multiple lites allowed. Combined visible lite not to exceed 2,208 sq. in. per door. Max door size 48" x 120" single or pairs.

Installation of VL3000 Vision frame using Pemco FG3000 glazing and approved wire glass
1. Verify cut out in door is the correct size. Reinforce the cut out per your U.L./WHI procedure.
2. Place the coridor side of frame in opening. (The side without counter sunk holes.)
3. Use FGS30000S45 For 20 and 45 minute doors and FGS3000S90 for 60 and 90 minute doors
4. Apply the FGS3000S glazing tape to each side of vision frames
5. Position glass on the coridor side frame and install room side by inserting the SMS into the prepunched mounting holes on the coridor side of frames
6. After all screw are attached, align the frame to the bottom of the cut out and tighten the screws being careful not to over tighten

IMPORTANT: To comply with the listing, the VL3000, 1/4" approved wireglass and FG3000S tape must be supplied by Air Louvers Inc.

Consult individual door manufacturers procedure for any restrictions that may apply.
Model VL3000

Beveled VISION LITE
with continuous glass retainer

Recommended for applications where large lites of glass are required in fire rated doors.
(2,856 sq. in. 20 min.; 2,208 sq. in. 90 min.)

Specifications

Standard Features:

Material: 20 gauge CRS frame.

Construction: Mitered and welded corners, beveled return, continuous glass retainer, countersunk mounting holes. Screws fasten from room side into prepunched mounting holes. This mounting method leaves corridor side of frame free of fasteners for aesthetic and security purposes.

Finish: Mineral bronze baked on powder coat.

Door: For 1-3/4” door only.

Fasteners: #8 x 7/8” flathead phillips head SMS.

Glass: 1/4” Approved wire glass by Air Louvers.

Glazing Tape: Pemko FGS3000S45 or FGS3000S90 by Air Louvers.

Listings: Listed by Underwriters Laboratory Inc. and Warnock Hersey International meets criteria of UBC 7.2 positive pressure and U.L. 10C.

Options:

Material: □ 20 gauge stainless steel - #4 finish
□ Galvanized sheet for exterior use
□ Electro-galvanized steel “ “
□ lead lined for x-ray protection

Finish: □ Baked on powder coat gray prime for field painting, no extra charge.
□ Special order colors. Please provide color chip.

Size: _____ ” wide x _____ ” high _____ Quantity
(door cut out size equals order size)

Fire Ratings by
Underwriters Laboratories Inc.
and
Warnock Hersey Int.
See Drawings Opposite
Model VLF-EZ

Beveled VISION LITE
with continuous glass retainer

Recommended for applications where total visibility and light transmissions are required.

Specifications

Standard Features:

Material: 20 gauge CRS frame.

Construction: Mitered and welded corners, beveled return, continuous glass retainer, countersunk mounting holes. Screws fasten from room side into prepunched mounting holes. This mounting method leaves corridor side of frame free of fasteners for aesthetic and security purposes.

Finish: Mineral bronze baked on powder coat.

Door: For 1-3/4” door.

Fasteners: #8 x 7/8” flathread phillips head SMS.

Glass: Use 3/16”, 1/4” fire rated glazing with Warnock Hersey(ITS) or U.L. classification markings for fire rated applications.

Options:

**UBC 7-2:**
- Positive Pressure UL10C 20 minute combustible core wood doors install 1/16” x 1/2” FGS4500 intumescent tape under glass retainer.
- NOT REQUIRED FOR 45, 60, 90 MINUTE DOORS OR DOORS COMPLYING TO UL10B

Material:
- 20 gauge stainless steel - #4 finish
- Galvanized sheet for exterior use
- Electro-galvanized steel
- Lead lined for x-ray protection
- 5/16” x-ray safety glass

Finish:
- Baked on powder coat gray prime for field painting, no extra charge.
- Special order colors. Please provide color chip.

Glass:
- See Glass Section.

Fasteners:
- Security fasteners, please specify

Size: _______” wide x _______” high ______ Quantity (door cut out size equals order size)

Pre Ratings (with U.L. ITS classification markings):

Using 1/4” thick listed wire glass
- 20, 45, 60, 90 Minute see page G9 in glass section

Using 3/16” thick PYROSWISS
- 20 Minutes without hose stream test see page G4 in glass section

Using 5/16” thick KERALITE-FRL
- 20 Minutes to 3 hours see page G1 in glass section

Using 3/16” thick KERALITE-FRF
- 20 Minutes to 3 hours see page G2 in glass section

For non rated TEMPERED GLASS see page G5 in glass section
For FIRELITE or other “Listed Glass” consult the factory
MODEL VLF-EZ-IG

TESTED AND LISTED FOR U.L. 10C AND CRITERIA OF UBC 7-2 POSITIVE PRESSURE

Model VLF-EZ-IG

Beveled VISION LITE with continuous glass retainer

Recommended for applications requiring fire rated, safety, and or insulated glazing up to 1" thick

Specifications

Standard Features:

Material: 20 gauge CRS frame.

Construction: Mitered and welded corners, beveled return, continuous glass retainer, countersunk mounting holes. Screws fasten from room side into prepunched mounting holes. This mounting method leaves corridor side of frame free of fasteners for aesthetic and security purposes.

Door: 1-3/8" up to 2 1/2 thick.

Specify door thickness _____ inches

Finish: Mineral bronze baked on powder coat.

Fasteners: #8 x 7/8" flathead phillips head SMS.

Glass: Use 1/4" to 1 thick glass. Please specify glass thickness when ordering. See Glazing Options Section. Specify door thickness.

For fire rated applications, CLASSIFIED GLAZING MATERIAL Must be used

Options:

Glass: □ See Glass Section.
□ 20 gauge stainless steel - #4 finish
□ Galvanized sheet for exterior use
□ Electro-galvanized steel " "
□ lead lined for x-ray protection
□ 5/16" x-ray safety glass

Finish: □ Baked on powder coat gray prime for field painting, no extra charge.
□ Special order colors. Please provide color chip.

Size: _____ " wide x _____ " high _____ Quantity
(door cut out size equals order size)

Fire Ratings with Warnock Hersey (ITS) or U.L. Classification Markings

Using 3/4" thick SWISSFLAM

45/60/90 Minute see page G4 in glass section
For FIRELITE or other "listed Glass" consult the factory

Distributor: ____________________________________________
Architect: ____________________________________________
Contractor: __________________________________________

Project: ______________________________________________
Location: _____________________________________________
Date: ________________________________________________

ALGC0809 800-766-0660 V9
Model VLF

Square VISION LITE
Recommended for applications where total visibility and light transmissions are required.

Specifications

Standard Features:

**Material:** 18 gauge CRS frame.

**Construction:** Mitered and welded corners, square return, countersunk mounting holes.

**Finish:** Mineral bronze baked on powder coat.

**Door:** For 1-3/4" door.

**Fasteners:** #8 x 32 flathead phillips head thru bolts with blank head one side.

**Glass:** Use 3/16", 1/4" fire rated glazing with Warnock Hersey (ITS) or U.L. classification markings for fire rated applications.

Options:

**UBC 7-2:**
- Positive Pressure UL10C 20 minute combustible core wood doors install 1/16" x 1/2" FGS4500 intumescent tape in cut out around perimeter of glass.
- NOT REQUIRED FOR 45, 60, 90 MINUTE DOORS OR DOORS COMPLYING TO UL10B

**Material:**
- 18 gauge stainless steel - #4 finish
- Galvanized sheet for exterior use
- Electro-galvanized steel
- Lead lined for x-ray protection

**Finish:**
- Baked on powder coat gray prime for field painting, no extra charge.
- Special order colors. Please provide color chip.

**Fasteners:**
- Security fasteners, please specify

**Glass:**
- See Glass Section.
- 5/16" x-ray safety glass

Custom Fractional Sizes:
- Custom sizes available upon request.

Custom Shapes:
- Consult factory.

Size: _____" wide x _____" high Quantity

Fire Ratings with Warnock Hersey (ITS) or U.L., Classification Markings

Using 1/4" thick listed wire glass
- 20, 45, 60, 90 Minute see page G9 in glass section

Using 3/16" thick PYROSWISS
- 20 Minutes without hose stream test see page G4 in glass section

Using 5/16" thick KERALITE-FRL
- 20 Minutes to 3 hours see page G1 in glass section

Using 3/16" thick KERALITE-FRP
- 20 Minutes to 3 hours see page G2 in glass section

For non rated TEMPERED GLASS see page G8 in glass section

Distributor: ____________________________
Architect: ______________________________
Contractor: ____________________________

Project: ________________________________
Location: ______________________________
Date: _________________________________

V10 ALGC0809 800-766-0660
Model VLF-IG

Square VISION LITE for Glass
Other Than 1/4" Thick

Recommended for applications requiring fire rated, safety, and/or insulated glazing up to 1 1/4" thick

Specifications

Standard Features:

Material: 18 gauge CRS frame.

Construction: Mitered and welded corners, countersunk mounting holes.

Finish: Mineral bronze baked on powder coat.

Door: For 1" to 3" thick, specify when ordering.

Fasteners: #8-32 phillips head thru bolts with blank head one side.

Glass: Accommodate insulating or security glass up to 1 1/4" thick. Specify thickness when ordering. See Glazing Options Section.

For fire rated applications...
CLASSIFIED GLAZING MATERIAL
Must be used

Options:

Glass: □ See Glass Section.
□ 5/16" x-ray safety glass

Material: □ 18 gauge stainless steel - #4 finish
□ Galvanized sheet for exterior use
□ Electro-galvanized steel " "
□ lead lined for x-ray protection

Finish: □ Baked on powder coat gray prime for field painting, no extra charge.
□ Special order colors. Please provide color chip.

Fasteners: □ Security fasteners, please specify
□

Custom Fractional Sizes:
□ Custom sizes available upon request.

Size: ________" wide x ________" high ________
Quantify (door cut out size equals order size)

Fire Ratings with Warnock Hersey (ITS) or U.L. Classification Markings
Using 3/4" thick SWISSPLAM
• 45/60/90 Minute see page G4 in glass section

Distributor: ____________________________
Architect: ______________________________
Contractor: ____________________________

Project: ________________________________
Location: ______________________________
Date: ________________________________
Model VLF-DG

Beveled VISION LITE (double glazed)

Recommended for applications where two lites of glass are required.

Specifications

Standard Features:

**Material:** 18 gauge CRS frame.

**Construction:** Mitered and welded corners, square return, countersunk mounting holes, 1/4" x 1/4" steel spacer provided.

**Finish:** Mineral bronze baked on powder coat.

**Door:** For 1-3/4" door.

**Fasteners:** #8-32 phillips head thru bolts with blank head one side.

**Glass:** Two lites of 1/4" by Air Louvers. See Glazing Options Section.

Options:

**Material:**
- □ 18 gauge stainless steel - #4 finish
- □ Galvanized sheet for exterior use
- □ Electro-galvanized steel
- □ lead lined for x-ray protection

**Finish:**
- □ Baked on powder coat gray prime for field painting, no extra charge.
- □ Special order colors. Please provide color chip.

**Fasteners:** □ Security fasteners, please specify

**Custom Fractional Sizes:**
□ Custom sizes available upon request.

**Size:** _____ " wide x _____ " high _____ Quantity

(door cut out size equals order size)

---

Distributor: __________________________
Architect: ____________________________
Contractor: __________________________

Project: ____________________________
Location: ____________________________
Date: _______________________________

V12 ALGC0809 800-766-0660
Model VLF-R-12, VLF-R-18 VLF-R-24
Round VISION LITE

Specifications
Standard Features:

**Material:** 18 gauge CRS frame.

**Construction:** One piece construction, no joints, square return, countersunk mounting holes.

**Finish:** Mineral bronze baked on powder coat.

**Door:** For 1-3/4” door.

**Fasteners:** #8 x 32 phillips head thru bolts with blank head one side.

**Glass:** 1/4” thick glazing. For fire rated applications listed and labeled glazing should be used.

**Options:**

**UBC 7-2:**
- Positive Pressure UL10C 20 minute combustible core wood doors install 1/16” x 1/2” FGS4500 intumescent tape in cut out around perimeter of glass.
- NOT REQUIRED FOR 45, 60, 90 MINUTE DOORS OR DOORS COMPLYING TO UL10B

**Material:**
- 18 gauge stainless steel - #4 finish
- Galvanized sheet for exterior use
- Electro-galvanized steel
- Lead lined for x-ray protection

**Finish:**
- Baked on powder coat gray prime for field painting, no extra charge.
- Special order colors. Please provide color

**Fasteners:**
- Security fasteners, please specify

**Glass:**
- See Glass Section.

**Size:** _____ “ wide x _____ “ high _____ Quantity (door cut out size equals order size)

Fire Ratings with Warnock Hersey (ITS) or U.L. Classification Markings

**Using 1/4” thick listed wire glass**
- 20, 45, 60, 90 Minute see page G9 in glass section

**Using 3/16” thick PYROSWEISS**
- 20 Minutes without hose stream test see page G4 in glass section

**Using 3/16” thick KERALITE-FRL**
- 20 Minutes to 3 hours see page G1 in glass section

**Using 3/16” thick KERALITE-FRF**
- 20 Minutes to 3 hours see page G2 in glass section

For non rated TEMPERED GLASS see page G6 in glass section
Model SL-R12, R18, R24
Round VISION LITE

Specifications
Standard Features:

Material: 18 gauge CRS frame.

Construction: One piece construction, no joints, beveled return, countersunk mounting holes.

Finish: Mineral bronze baked on powder coat.

Door: For 1-3/4” door.

Fasteners: #8 x 7/8 phillips head SMS

Glass: 1/4” thick glazing. For fire rated applications listed and labeled glazing should be used.

Options:

UBC 7-2: Positive Pressure UL10C 20 minute combustible core wood doors install 1/16” x 1/2” FGS4500 intumescent tape in cut out around perimeter of glass. NOT REQUIRED FOR 45, 60, 90 MINUTE DOORS OR DOORS COMPLYING TO UL10B

Material: 18 gauge stainless steel - #4 finish, Galvanized sheet for exterior use, Electro-galvanized steel ""

Finish: Baked on powder coat gray prime for field painting, no extra charge, Special order colors. Please provide color chip.

Fasteners: Security fasteners, please specify

Glass: See Glass Section.

Size: _______” wide x _______” high _______ Quantity (door cut out size equals order size)

Fire Ratings with Warnock Hersey (ITS) or U.L. Classification Markings

Using 1/4” thick listed wire glass
- 20, 45, 60, 90 Minute see page G9 in glass section

Using 3/16” thick PYROSWISS
- 20 Minutes without hose stream test see page G4 in glass section

Using 5/16” thick KERALITE-FRL
- 20 Minutes to 3 hours see page G1 in glass section

Using 3/16” thick KERALITE-FFR
- 20 Minutes to 3 hours see page G2 in glass section

For non rated TEMPERED GLASS see page G5 in glass section
Model VLF-RI
Radius Top and Bottom for a Custom Look
Standard size widths: 6" - 12" - 18" - 24"

Specifications

Standard Features:

Material: 18 gauge CRS frame.

Construction: Radius top and bottom, no exposed joints, square return, countersunk mounting holes.

Finish: Mineral bronze baked on powder coat.

Door: For 1-3/4" door.

Fasteners: #8 x 32 phillips head thru bolts with blank head one side.

Glass: 1/4" thick glazing. For fire rated applications listed and labeled glazing should be used. See Glazing Options Section.

Options:

UBC 7-2:
- Positive Pressure UL10C 20 minute combustible core wood doors install 1/16" x 1/2" FG54500 intumescent tape in cut out around perimeter of glass. NOT REQUIRED FOR 45, 60, 90 MINUTE DOORS OR DOORS COMPLYING TO UL10B

Material:
- 18 gauge stainless steel - #4 finish
- Galvanized sheet for exterior use
- Electro galvanized steel

Finish:
- Baked on powder coat gray prime for field painting, no extra charge.
- Special order colors Please provide color chip.

Fasteners:
- Security fasteners please specify

Glass:
- See Glass Section

Size: ______ " wide x _______ " high ______ Quantity
(door cut out size equals order size)

Fire Ratings with Warnock Hersey (THS) or U.L. Classification Markings
Using 1/4" thick listed wire glass
- 20, 45, 60, 90 Minute see page G9 in glass section
Using 3/16" thick PYROSWISS
- 20 Minutes without hose stream test see page G4 in glass section
Using 5/16" thick KERALITE-FRI
- 20 Minutes to 3 hours see page G1 in glass section
Using 3/16" thick KERALITE-FRI
- 20 Minutes to 3 hours see page G2 in glass section

For non rated TEMPERED GLASS see page G5 in glass section

ALGC0809 800-766-0660

Distributor: ____________________________
Architect: ____________________________
Contractor: ____________________________

V15
Model VLF-RC

6" Radius Corners for a Custom Look
Vision Lite for 1-3/4" doors using 1/4" glass.

Specifications

Standard Features:

Material: 18 gauge CRS frame.

Construction: 6" radius corners, no exposed joints, square return, countersunk mounting holes.

Finish: Mineral bronze baked on powder coat.

Door: For 1-3/4" door.

Fasteners: #8 x 32 flathead phillips head thru bolts with blank head one side.

Glass: 1/4" thick glazing. For fire rated applications listed and labeled glazing should be used. See Glazing Options Section.

Options:

UBC 7-2:
- Positive Pressure UL10C 20 minute combustible core wood doors install 1/16" x 1/2" FG54500 intumescent tape in cut out around perimeter of glass.
- NOT REQUIRED FOR 45, 60, 90 MINUTE DOORS OR DOORS COMPLYING TO UL10B

Material:
- 18 gauge stainless steel - #4 finish
- Galvanized sheet for exterior use
- Electro-galvanized steel

Finish:
- Baked on powder coat gray prime for field painting, no extra charge.
- Special order colors. Please provide color chip.

Glass:
- See Glass Section.

Fasteners:
- Security fasteners, please specify

Custom Fractional Sizes:
- Custom sizes available upon request.

Size: ______ " wide x ______ " high ______ Quantity
(door cut out size equals order size)

Distributor: ____________________________
Architect: ____________________________
Contractor: ____________________________

V16 ALGC0809C 800-766-0660
Model VLF-RD-18, VLF-RD-20, VLF-RD-24
Half Circle Vision Frames

Specifications
Standard Features:

- **Material:** 18 gauge CRS frame.
- **Construction:** Mitered and welded smooth joints, countersunk mounting holes.
- **Fasteners:** #8 x 32 phillips head thru bolts with blank head one side.
- **Finish:** Mineral bronze baked on powder coat.
- **Door Thickness:** For 1-3/4" door.
- **Glass:** 1/4" thick glazing. For fire rated applications listed and labeled glazing should be used. See Glazing Options Section.

Options:

- **UBC 7-2:**
  - Positive Pressure UL10C 20 minute combustible core wood doors install 1/16" x 1/2" FGS4500 intumescent tape in cut out around perimeter of glass.
  - NOT REQUIRED FOR 45, 60, 90 MINUTE DOORS OR DOORS COMPLYING TO UL10B
- **Material:**
  - 18 gauge stainless steel - #4 finish
  - Galvanized sheet for exterior use
  - Electro-galvanized steel for exterior use
- **Finish:**
  - Baked on powder coat gray prime for field painting, no extra charge.
  - Special order colors. Please provide color chip.
- **Fasteners:** Security fasteners, please specify
- **Glass:**
  - See Glass Section.
- **Custom Shapes:** Consult factory.

Size: "wide x high" Quantity
   (door cut out size equals order size)

Fire Ratings (with UL and WHI classification markings):
- 20 Minute: Approved listing at 1,296 sq. in. visible lte using wire glass (max. width 54", max. height 54")
- 90 Minute: using KERALITE FRF or KERALITE FRL

Distributor: ________________________________
Architect: ________________________________
Contractor: ________________________________

ALGC00809  800-766-0660  V17
Model
SLIMLINE-G
VLF-G
VLF-EZ-G

Square or Beveled VISION LITE
with Mullions
Recommended for use in applications
requiring the “French Door” look.
Order basic model prefix and add “G” suffix
and number of lites required.

Specifications
Standard Features:
Material: 18 gauge CRS for VLF, 20 gauge for VLF-EZ,
and Slimline.

Construction: Mullions are welded at heads, sills and jambs,
and butt to glass. Only one glass lite required.

Mullions: 1” x 5/8”
Door: 1-3/4” door.

Glass: Use fire rated Glazing with U.L. or ITS classification
marking for fire rated applications.

Options:
Mullions: □ 1/2” x 1/2”, 1/2” x 3/4”, other sizes available,
consult factory.

Other: □ Other options, see appropriate data sheet.

Size: _____ ” wide x _____ ” high _____ Quantity
(doors cut out size equals order size)

Fire Ratings (with UL and WHI classification markings):
See basic model detail sheets for listing and
intumescent tape application.

Distributor: ____________________________
Architect: _____________________________
Contractor: ____________________________

Project: ________________________________
Location: ______________________________
Date: _________________________________

V18 ALGC0809 800-766-0660
Model FRM

Framed mullions for transom and sidelites

Recommended for applications requiring the divided glass look in transoms and sidelites

Specifications

Standard Features:

Material: cold rolled steel

Construction: Mullions are welded at heads, sills and jambs, and butt to glass. Only one glass lite required.

Mullions: 3/4" x 3/4" steel tubes

Glass: Any thickness may be used as long as space is allowed for mullion

Finish: Baked on powder coat gray prime for field painting

Options:

Mullions: □ Other size available, consult factory

Finish: □ Electro-galvanized steel

Special order color. Please provide color chip.

G2  G3  G4  G6  G8  G9  G4H  G5  G10  G12  G15

Distributor: ____________________________
Architect: ____________________________
Contractor: ____________________________

Project: ____________________________
Location: ____________________________
Date: ____________________________

ALGC0809  800-766-0660  V19
Model VLF

Custom Shapes VISION LITE

These designs are manufactured using Model VLF Profile only. Provide outside dimensions when ordering.

For shapes not shown, consult factory.

Size: _____” wide x _____” high   _____ Quantity

---

Distributor: ____________________________
Architect: ______________________________
Contractor: ____________________________

V20   ALGC0809   800-766-0660
Model VLF-PVC

Square VISION LITE
Recommended for applications where security and privacy are required.

Specifications

Standard Features:

Material: 18 gauge CRS frame.
16 gauge privacy cover.

Construction: Mitered and welded corners, square return, countersunk mounting holes, continuous piano hinge.

Finish: Mineral bronze baked on powder coat.

Door: For 1-3/4" door.

Fasteners: #8-32 phillips head thru bolts with blank head one side.

Glass: 1/4" thick glazing.
For other glass and door thickness see VLF-IG.

Options:

Material: □ 18 gauge stainless steel - #4 finish
□ Galvanized sheet for exterior use
□ Electro galvanized steel
□ lead lined for x-ray protection

Finish: □ Baked on powder coat gray prime for field painting, no extra charge.
□ Special order colors. Please provide color chip.

Glass: □ See Glass Section.

Fasteners: □ Security fasteners, please specify

Custom Fractional Sizes:
□ Custom sizes available upon request.

Door Thickness: □ 1-3/8" thickness.

Custom Shapes: □ Consult factory.

Size: _________”wide x _________” high _________ Quantity
(door cut out size equals order size)

Distributor:____________________________________ Project:______________________________
Architect:____________________________________ Location:_____________________________
Contractor:____________________________________ Date:_______________________________
Model VLF-S10

Security vision frame for applications requiring a higher degree of security

Specifications

Standard Features:

**Material:** 10 gauge CRS frame.

**Construction:** Mitered and welded corners and countersunk mounting holes.

**Finish:** Baked on powder coat in mineral bronze finish.

**Door:** For 1-3/4"

**Fasteners:** #8 x 32 torx head security binder bolt with blank head one side.

**Glass:** Use 1/4 to 1-1/2" thick glass.

Use fire rated with U.L. or ITS classification markings for fire rated applications.

See Glazing Options Section.

Options:

**UBC 7-2:**

- Positive Pressure UL10C 20 minute combustible core wood doors install 1/16" x 1/2" FGS4500 intumescent tape in cut out around perimeter of glass.

**Material:**

- Galvanized sheet for exterior use
- Electro-galvanized steel

**Finish:**

- Baked on powder coat gray prime for field painting, no extra charge.
- Special order colors. Please provide color chip.

**Fasteners:**

- Security fasteners, please specify
- See Glass Section

**Glass:**

**Custom Fractional Sizes:**

- Custom sizes available upon request.

**Size:** ___" wide x ___" high ___ Quantity

(door cut out size equals order size)

---

**Distributor:** ________________________________

**Architect:** ________________________________

**Contractor:** ________________________________

**Project:** ________________________________

**Location:** ________________________________

**Date:** ________________________________

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**Model VLF-S10**

10 Gauge Steel Security Vision Lite

**Tested and Listed for U.L. 10C and Criteria of UBC 7-2 Positive Pressure**

---

**Fire Ratings with Warnock Hersey (ITS) or U.L. Classification Marks**

Using 1/4" thick listed wire glass

- 20, 45, 60, 90 Minute doors or doors complying to UL10B

Using 3/16" thick PYROSWISS

- 20 Minutes without hose stream test see page G4 in glass section

Using 5/16" thick KERALITE-FRL

- 20 Minutes to 3 hours see page G1 in glass section

Using 3/16" thick KERALITE-FRF

- 20 Minutes to 3 hours see page G2 in glass section

For non rated TEMPERED GLASS see page G5 in glass section
MODEL VLF-S10-SP
Security vision frame with speaker port for easy communication

Specifications

**Standard Features:**

**Material:** 10 gauge CRS frame and 10 gauge perforated steel panel.

**Construction:** Mitered and welded corners and countersunk mounting holes.

**Door:** For 1-3/4" to 3" thick door.

Specify door thickness ___ inches.

**Fasteners:** #8 x 32 torx head security binder bolt with blank head one side.

**Glass:** Use 1/4" to 1-1/2" thick glass. See Glazing Options Section.

Specify door thickness ___ inches.

**Finish:** Baked on powder coat in mineral bronze finish or gray prime.

**Options:**

**Material:**
- ☐ Galvanized sheet for exterior use
- ☐ electro-galvanized steel " "

**Finish:**
- ☐ Special order colors. Please provide color chip.

**Custom Fractional Sizes:**
- ☐ Security fasteners, please specify

Size: _____ " wide x _____ " high _____ Quantity
(door cut out size equals order size)

---

Distributor: ____________________________ Project: ____________________________
Architect: ____________________________ Location: ____________________________
Contractor: ____________________________ Date: ____________________________
Model VLF-SG

Security vision frame with security grille each side of glass.

Specifications

Standard Features:

**Material:** 18 gauge CRS frame.

**Grille:** 12 gauge CRS with 13/16” square openings 1” on center.

**Construction:** Mitered and welded corners, countersunk mounting holes, grille welded to frame.

**Finish:** Baked on powder coat in mineral bronze finish.

**Door:** For 1-3/4” door.

**Fasteners:** #8 x 32 phillips head thru bolts with blank head one side.

**Glass:** 1/4” thick glazing for fire rated applications.

Options:

**UBC 7-2:**
- [ ] Positive Pressure UL10C 20 minute combustible core wood doors install 1/16” x 1/2” FGS4500 intumescent tape in cut out around perimeter of glass. **NOT REQUIRED FOR 45, 60, 90 MINUTE DOORS OR DOORS COMPLYING TO UL10B**
- [ ] 20 gauge stainless steel … #4 finish
- [ ] Galvanized sheet for exterior use
- [ ] Electro-galvanized steel …
- [ ] Lead lined for x ray protection

**Finish:**
- [ ] Baked on powder coat gray prime for field painting, no extra charge.
- [ ] Special order colors. Please provide color chip.

**Glass:**
- [ ] See Glass Section.

**Fasteners:**
- [ ] Security fasteners’ please specify

Custom Fractional Sizes:
- [ ] Custom sizes available upon request.

Custom Shapes:
- [ ] Consult factory.

**Size:** _____” wide x _____” high _____ Quantity (door cut out size equals order size)

Distributor: __________________________
Architect: ____________________________
Contractor: __________________________

Project: ____________________________
Location: ____________________________
Date: ________________________________

Fire Ratings with Warrick Hersey (ITS) or U.L. Classification Markings

Using 1/4” thick listed wire glass:
- 20, 45, 60, 90 Minute see page G9 in glass section

Using 3/16” thick PYROSWISS:
- 20 Minutes without hose stream test see page G4 in glass section

Using 5/16” thick KERALITE-FRL:
- 20 Minutes to 3 hours see page G1 in glass section

Using 3/16” thick KERALITE-FPR:
- 20 Minutes to 3 hours see page G2 in glass section

For non rated **TEMPERED GLASS** see page G5 in glass section
**Model VLF-PO**

Special 11" x 3/8" visible lite
Vision frame for U.S. Postal Service

**Specifications**

**Standard Features:**

- **Material:** 18 gauge CRS frame.
- **Construction:** Mitered and welded corners, square return, countersunk mounting holes.
- **Finish:** Mineral bronze baked on powder coat.
- **Door:** For 1-3/4" door.
- **Fasteners:** #8 x 32 phillips head thru bolts with blank head one side.
- **Glass:** Use 1/4" thick glazing for fire rated applications.

**Options:**

- **UBC 7-2:**
  - Positive Pressure UL10C 20 minute combustible core wood doors install 1/16" x 1/2" FGS4500 intumescent tape in cut out around perimeter of glass. **NOT REQUIRED FOR 45, 60, 90 MINUTE DOORS OR DOORS COMPLYING TO UL10B**
  - **Material:** #20 gauge stainless steel - #4 finish
  - Galvanized sheet for exterior use
  - Electro-galvanized steel
  - **Finish:** Baked on powder coat gray prime for field painting, no extra charge.
  - Special order colors. Please provide color chip.
- **Glass:**
  - See Glass Section
- **Fasteners:** Security fasteners' please specify

**Custom Fractional Sizes:**

- Custom sizes available upon request.

**Size:** _______” wide x _______” high ______ Quantity

(door cut out size equals order size)

---

Distributor: ________________________________
Architect: ________________________________
Contractor: ________________________________

ALGC0809 800-766-0660 V25

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**Fire Ratings with Warnock Hersey (ITS) or U.L. Classification Markings**

- Using 1/4" thick listed wire glass
- 20, 45, 60, 90 Minute see page G9 in glass section
- Using 3/16" thick PYROSWS
- 20 Minutes without hose stream test see page G4 in glass section
- Using 5/16" thick KERALITE-FRL
- 20 Minutes to 3 hours see page G1 in glass section
- Using 3/16" thick KERALITE-FRF
- 20 Minutes to 3 hours see page G2 in glass section

For non rated TEMPERED GLASS see page G5 in glass section
Model SLIMLINE-IG-MB
Low Profile vision lite with blinds build in-between the insulated glass

Specifications
Standard Features:

**Material:** 20 gauge CRS frame.

**Construction:** Radius Corners, mitered and welded. Beveled return, continuous glass retainer, countersunk mounting holes. Screws fasten from room side into prepunched mounting holes. This mounting method leaves corridor side of frame free of fasteners for aesthetic and security purposes.

**Glass:** 1" Thick insulated tempered glass

**Blinds:** Blinds are sealed between the two lites of glass. Blinds tilt a full 180 degrees for light control and privacy with finger tip tilt adjustment.

**Finish:** Baked on powder coat mineral bronze.

**Options:**
- [ ] 20 gauge stainless steel - #4 finish
- [ ] Galvanized sheet for exterior use
- [ ] Electro-galvanized steel
- [ ] Powder coat finish
  - White
  - Sand
  - Gray Prime
- [ ] Special Color. Please provide color chip

**Blinds:** Available colors
- [ ] White
- [ ] Alabaster

---

Distributor: ____________________________
Architect: ____________________________
Contractor: ____________________________

Project: ____________________________
Location: ____________________________
Date: ____________________________

V26 ALGC0809 800-766-0660
Model **VLFEZ-HRC**

**Beveled VISION LITE with continuous glass retainer.**
Recommended for applications requiring safety from wind born debris.
Includes tested and approved special Lexan and Caulking. (see below)

**Specifications**

**Standard Features:**

- **Material:** 20 gauge CRS frame.
- **Construction:** Mitered and welded corners, beveled return, continuous glass retainer, countersunk mounting holes. Screws fasten from room side into prepunched mounting holes. This mounting method leaves corridor side of frame free of fasteners for aesthetic and security purposes.
- **Finish:** Mineral bronze baked on powder coat.
- **Door:** For 1-3/4” door.
- **Fasteners:** #8 x 7/8” flathead phillips head SMS.

**Glass:** 1/4” Thick clear LEXAN
**Caulking:** SIKAFLEX 552 on each side of LEXAN

Lexan and Caulking included with Vision Frame

- **Material:**
  - □ 22 gauge stainless steel - #4 finish
  - □ Galvanized sheet for exterior use
  - □ Electro-galvanized steel

- **Finish:**
  - □ Baked on powder coat gray prime for field painting, no extra charge.
  - □ Special order colors. Please provide color chip.

- **Fasteners:**
  - □ Security fasteners, please specify

**Size:** _______” wide x _______” high _______ Quantity
  (door cut out size equals order size)

**MAXIMUM SIZE of 24 x 62**

**VLFEZ-HRC Listed Severe Windstorm Approved Vision Frame**

Tested in Accordance with: W/N 14475
ASTM E330, ASTM E1886, ASTM E1996
ANSI A250.13, TAS 203, 201, 202
Impact (ft lb) 350
Missile Level D, DP Rating (PSF) 55
Model VLFIG-HRC
VISION LITE

Recommended for applications requiring safety from wind born debris.
Includes tested and approved, Glazing components as listed below.

Specifications
Standard Features:
Material: 18 gauge JetCoat Galvanized
Finish: Mineral Bronze or Gray Prime baked on powder coat.
Door: For 1-3/4” door.
Fasteners: #8-32 phillips head thru bolts with blank head one side.

GLAZING COMPONENTS INCLUDED

Size: _____” wide x _____” high _____ Quantity (door cut out size equals order size)
MAXIMUM SIZE of 32 X 62

Distributor: __________________________________________
Architect: ____________________________________________
Contractor: __________________________________________

V28 ALGC0809 800-766-0660

MODEL VLFIG-HRC
HURRICANE VISION FRAME

MODEL VLFIG-HRC Listed Severe Windstorm Approved Vision Frame
Tested in Accordance with: W/N 14474
ASTM E330, ASTM E1886, ASTM E1996
ANSI A250.13
Impact (ft lb) 350
Missile Level D Structural (PSF) +/- 70
## Door Louvers

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>Non-Vision Louver with Inverted &quot;V&quot; Blades</td>
<td>D3</td>
</tr>
<tr>
<td>700A</td>
<td>Non-Vision Louver with Inverted Split &quot;Y&quot; Blades</td>
<td>D4</td>
</tr>
<tr>
<td>700TL</td>
<td>Flush-Mounted Transom Louver</td>
<td>D5</td>
</tr>
<tr>
<td>800R</td>
<td>Round, Non-Vision Louver with Inverted &quot;Y&quot; Blades</td>
<td>D6</td>
</tr>
<tr>
<td>800</td>
<td>Non-Vision Louver with Inverted &quot;Y&quot; Blades</td>
<td>D7</td>
</tr>
<tr>
<td>900</td>
<td>Non-Vision Louver with Standard &quot;Z&quot; Blades</td>
<td>D8</td>
</tr>
<tr>
<td>1000</td>
<td>Lightproof Louver with Overlapping Channel Blades</td>
<td>D9</td>
</tr>
<tr>
<td>1100</td>
<td>Adjustable &quot;Z&quot; Blade Louver</td>
<td>D10</td>
</tr>
<tr>
<td>1200A</td>
<td>Non-Vision Louver with Fixed &amp; Adjustable &quot;Z&quot; Blades</td>
<td>D11</td>
</tr>
<tr>
<td>1300</td>
<td>Aluminum Louver with Inverted &quot;V&quot; Blades</td>
<td>D12</td>
</tr>
<tr>
<td>1400</td>
<td>Stormproof Aluminum Louver with &quot;Z&quot; Blades</td>
<td>D13</td>
</tr>
<tr>
<td>1500</td>
<td>Security Louver with Security Grille</td>
<td>D14</td>
</tr>
<tr>
<td>1900-A</td>
<td>Fire-Rated, Non-Vision Louver with Fusible Link</td>
<td>D15</td>
</tr>
<tr>
<td>1900-ASG</td>
<td>Fire-Rated, Non-Vision Louver with Fusible Link &amp; Security Grille</td>
<td>D16</td>
</tr>
</tbody>
</table>

### Hurricane-Rated Louver

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1500A-HR</td>
<td>Hurricane-Rated Louver - WH-Rated</td>
<td>D17</td>
</tr>
</tbody>
</table>

Visit [WWW.AIRLOUVERS.COM](http://WWW.AIRLOUVERS.COM) for Technical Information and Product Updates
DOOR LOUVERS GENERAL SPECIFICATION

MATERIAL
All door louvers (except Models 1300 and 1400) are fabricated from cold rolled steel. See specific model for respective gauge.

CONSTRUCTION
Permanent interlocking construction is used to secure blades to frame on fixed or stationary louvers. All steel louver frames have mitered and flush welded corners. Louvers with adjustable blades employ clearance rivets at all operating points.

FASTENERS
All louvers with mounting frames (styles "C", "A" and "A-1") have standard 3/16" diameter prepunched holes for #8 x 3/4" Phillips sheet metal screws (provided with each louver). All screw and bolt heads are painted to match louver finish. Vandal-or tamper-proof and other special fasteners are available through special request to factory.

FINISH
Standard finish for all steel louvers is mineral bronze baked silicone polyester powder. Substrata preparation is accomplished through a thorough degreasing and the application of an extended-life iron phosphate coating. Model 1300 louvers are painted satin aluminum. Other finishes and colors are available through special request to factory.

SCREENS
Most louvers can be fitted with screens. Either 18/14 mesh aluminum, bronze wire or fiberglass insect screening material can be provided in roll formed aluminum frames and shipped loose.

Frames are attached by either sheet metal screws or plastic clips in the field (for easy installation or removal). Screens are normally mounted on the face or corridor frame of the louver. Fasteners are available on request.

SIZES
All model louvers are made in sizes to fit most door applications (see Price List in back of this catalog). The most popular model and sizes are carried in stock for immediate shipment from the factory.

Louvers are normally dimensioned in even inch increments, i.e., 12" x 12", 24" x 18", etc., however, other sizes can be made to order. Dimensions are always given with width first and height second. *Order dimensions should represent the size of the cut-out opening in the door.* The actual louver is undersized by 1/4" or 1/8" (depending on model selected) in each dimension to insure adequate installation clearance.

PACKAGING
Each louver is individually wrapped to prevent damage. Each package is marked with the respective model and size designation. Multiple unit orders may be shipped in corrugated cartons or wooden crates (on special order).

Due to possible changes in the industry and manufacturing techniques, we reserve the right to modify any product without prior notification.
Model 600

Inverted "V" blades feature non-vision design recommended for schools, class "A" and institutional buildings.

Specifications

Standard Features:

Material: 20 gauge CRS frame and blades.
Construction: Mitered and welded corners.
Door: "A1" style for 1 3/4" doors only. Other styles for 1 3/8" to 1 3/4".
Fasteners: #8 x 3/4" phillips head screws.
Finish: Mineral bronze baked on powder coat.
Free Flow Area: 60% free area.

Options:

Material: ☐ 20 gauge #304 stainless steel - #4 satin finish
☐ 16 gauge CRS
☐ electro-galvanized steel
☐ hot dipped galvanized

Finish: ☐ Baked on powder coat gray prime for field painting, no extra charge.
☐ Special order colors. Please provide color chip.

Fasteners: ☐ Security fasteners, please specify

Screen: ☐ 18-14 mesh insect screen installed in roll formed aluminum frame. Aluminum, bronze or fiberglass mesh available.

Door Thickness:
☐ For 1 3/8" door (available with "A" mounting style).

Size: _______" wide x _______" high _______Quantity
(door cut out size equals order size).

Mounting Options:

☐ Model 600A1
Vandal-proof design; basic blade unit with flanged frame welded to face (corridor) side and separate removable flanged frame on opposite side; fits 1-1/4" thick doors only.

☐ Model 600 Core
Basic blade unit only; for interior doors; or as transom louver held in place with wood or metal moulding (flattened by others).

☐ Model 600C
Basic blade unit with single flanged frame welded to face (corridor) side; for interior or exterior doors; wood or metal moulding (by others) used on opposite side.

☐ Model 600A
Basic blade unit with flanged frame welded to face (corridor) side and separate flanged frame on opposite side; frame adjustable to fit any door thickness from 1 1/4" to 1 3/8".
Model 700A

Inverted split "Y" blades features non-vision two piece design for wood or metal doors and wall applications.

Specifications

Standard Features:

Material: 18 gauge CRS frame and blades.

Construction: Mitered and welded corners, with countersunk mounting holes.

Door: Minimum 1 5/8" thick door.

Fasteners: #8 x 3/4" phillips head screws.

Finish: Mineral bronze baked on powder coat.

Free Flow Area: 50% free area.

Options:

Material: □ 20 gauge #304 stainless steel - #4 finish
□ electro-galvanized steel
□ 16 gauge CRS
□
□

Finish: □ Baked on powder coat gray prime for field painting, no extra charge.
□ Special order colors. Please provide color chip.

Fasteners: □ #8 x 32 phillips head steel binder bolt with blank head one side.

Screens: □ 18-14 mesh insect screen installed in roll formed aluminum frame. Aluminum, bronze or fiberglass mesh available.

Size: _______" wide x _______" high _________Quantity
(door cut out size equals order size).

Distributor: ____________________________ Project: ____________________________
Architect: ______________________________ Location: __________________________
Contractor: ____________________________ Date: ____________________________
Features two rows of “Z” blades for non-vision and flush mounting in hollow metal frames.

### Specifications

#### Standard Features:

**Material:** 18 gauge CRS

**Construction:** Two rows of louvers welded to a 1" x 1-13/16" x 1" channel. Maximum size 36" x 36". Multiple sections can be combined for larger transoms.

**Fasteners:** Mounting clips furnished with hex head self-drilling tek screw.

**Finish:** Gray baked-on powder prime coat.

**Free Flow Area:** 50% free area.

#### Options:

**Material:**
- __ 16 gauge CRS
- __ 20 gauge stainless steel satin finish
- __ Electro Galvanized Steel for Maximum Corrosion-Resist.

**Finish:**
- __ Mineral bronze baked-on powder coat
- __ Special order colors. Please provide color chip

**Screen:**
- __ ¼" x ¼" or ½" x ½" bird screen
- __ 18-14 mesh insect screen installed in roll-formed aluminum frame.
- __ Screen concealed between louvers

**Size:**
- _______ " wide x _______ " high ________ Quantity
  (transom opening equals order size)

### Distributor: Project:

**Architect:** Location:

**Contractor:** Date:

ALGC0809 800-766-0660 D5
Model 800 Round Louvers

Features non-vision inverted “Y” blades. Fastening system eliminates mounting holes for thru bolts saving time and labor and leaves corridor side of door free of fasteners.

Specifications

Standard Features:

Material: 18 gauge CRS frame and blades.

Construction: Face frames are one piece construction, louver blades are inverted Y type.

Door: For use in 1-3/4” door only.

Fasteners: #8 x 1” phillips head SMS.


Free Flow Area: 50% free area.

Options:

Material: □ 20 gauge #304 Stainless Steel
         □ #4 Satin Finish

Finish: □ Electrogalvanized Steel
        □ Special Order Colors.
              Please provide color chip.
        □ Model 800R

Fasteners: □ Security fasteners, please specify.

Screens: □ 18-14 Mesh insect screen.
          Available in Fiberglass, Aluminum, or Bronze.

Model 800R

Vandal-proof design: basic blade unit with flanged frame welded to face (corridor) side and separate removable flanged frame on opposite side; fits 1-3/4” thick doors only.
Model 800

Features non-vision inverted "Y" blades.
Fastening system eliminates mounting holes for thru bolts saving time and labor and leaves corridor side of door free of fasteners.

Specifications

Standard Features:

Material: 18 gauge CRS frame.
Construction: Mitered and welded corners.
Door: "A1" style for 1\(\frac{3}{4}\)" doors only. Other styles for 1\(\frac{3}{8}\)" to 1\(\frac{3}{4}\)".
Fasteners: #8 x 1 phillips head screws.
Finish: Mineral bronze baked on powder coat.
Free Flow Area: 50% free area.

Options:

Material:
- [ ] 20 gauge #304 stainless steel - #4 satin finish
- [ ] 16 gauge CRS
- [ ] electro-galvanized steel
- [ ] Gray prime baked on powder coat no extra charge.

Finish:
- [ ] Special order colors. Please provide color chip.
- [ ] A40 Jet Coat Galvanize Steel
- [ ] G90 Hot Dipped Galvanize Sheet

Fasteners:
- [ ] Security fasteners, please specify

Screens:
- [ ] 18-14 mesh insect screen installed in roll formed aluminum frame. Aluminum, bronze or fiberglass mesh available.

Door Thickness:
- [ ] For 1\(\frac{3}{8}\)" door (available with "A" mounting style).

Size: ______" wide x ______" high ______ Quantity
(door cut out size equals order size).

Mounting Options:

Model 800A1
Vandal-proof design: basic blade unit with flanged frame welded to face (corridor) side and separate removable flanged frame on opposite side. For 1\(\frac{3}{8}\)" thick doors only.

Model 800A
Basic blade unit with flanged frame welded to face (corridor) side and separate flanged frame on opposite side. Frame adjustable to fit any door thickness from 1\(\frac{3}{8}\)" to 1\(\frac{3}{4}\)".

Model 800C
Basic blade unit with single flanged frame welded to face (corridor) side; for interior or exterior doors; wood or metal mounting (by others) used on opposite side.

Distributor: ____________________________________________
Architect: ______________________________________________
Contractor: ____________________________________________
Project: _______________________________________________
Location: _______________________________________________
Date: _________________________________________________
Model 900
Standard "Z" Blades
Non-vision design recommended for schools, class "A" and institutional buildings.

Specifications

Standard Features:
- **Material:** 18 gauge CRS frame and blades.
- **Construction:** Mitered and welded corners.
- **Finish:** Mineral bronze baked on powder coat.
- **Door:** "A1" style for 1 3/4" doors only. Other styles for 1 3/8" to 1 3/4".
- **Fasteners:** #8 x 3/4" phillips head screws.
- **Free Flow Area:** 43% free area.

Options: ___ 900FPL - Wire bird screen installed in roll-formed aluminum frame.

Material: □ #20 gauge 304 stainless steel - #4 finish
□ electro-galvanized
□ 16 gauge CRS
□ A40 Jet Coat Galvanize Steel
□ G90 Hot Dipped Galvanize Sheet

Finish: □ Baked on powder coat gray prime for field painting, no extra charge.
□ Special order colors. Please provide color chip.

Fasteners: □ Security fasteners, please specify

Screens: □ 18-14 mesh insect screen installed in roll-formed aluminum frame. Aluminum, bronze or fiberglass mesh available.

Door Thickness:
□ For 1 3/8" door (available with "A" mounting style).

Size: _______" wide x _______" high Quantity
(door cut out size equals order size).

Mounting Options:
- □ Model 900A1
  - Ventilator design: basic blade unit with flanged frame welded to face (corridor) side and separate removable flanged frame on opposite side; fits 1 3/4" thick doors only.

Distributor: ____________________________
Architect: ______________________________
Contractor: ____________________________

Project: ________________________________
Location: ______________________________
Date: ________________________________

800-766-0660
Model 1000

Lightproof Overlapping Channel Blades
For darkrooms, x-ray rooms and other applications where ventilation is required without light admission.

Specifications

Standard Features:

Material: 18 gauge CRS frame and louver blades.

Construction: Mitered and welded corners.

Finish: Painted non-reflective black.

Door: For 1 3/4” door.

Fasteners: #8 x 3/4” phillips head screws.

Free Flow Area: 20% free area.

Options:

☐ Leadlined for radiation containment.

Size: _______” wide x _______” high _______ Quantity
(door cut out size equals order size).

Mounting Options:

☐ Model 1000 Core
Basic blade unit only; for interior doors; or as transom interior louver held in place with wood or metal moulding (furnished by others).

☐ Model 1000 C
Basic blade unit with single flanged frame welded to face (corridor) side; for or exterior doors; wood or metal moulding (by others) used on opposite side.
MODEL 1100 A (SHOWN)  
1100 C,  
1100 CORE

Model 1100
Adjustable "Z" Blades
Manually-operated adjustable louver design for doors, transoms and partitions in schools, class "A" and institutional buildings.

Specifications

Standard Features:
Material: 16 gauge CRS frame and louver blades.
Construction: Mitered and welded corners; screws fastened through prepared frame into louver core; this mounting method leaves corridor side of frame free of fasteners for aesthetic and security purposes.
Equipped with interconnecting operating bar in jamb; operating handle on interior (occupancy) face unless otherwise specified.
Finish: Mineral bronze baked on powder coat.
Door: For 1 3/4" door.
Fasteners: #8 x 3/4" phillips head screws.
Free Flow Area: 45% free area.

Options:
Material: □ #20 gauge 304 stainless steel - #4 finish
Finish: □ Special order baked enamel colors
□ Baked on powder coat gray prime for field painting, no extra charge.
Fasteners: □ Security fasteners, please specify

Screens: □ 18-14 mesh insect screen installed in roll formed aluminum frame. Aluminum, bronze or fiberglass mesh available.

Door Thickness:
□ For 1 3/8" door.

Size: ______ " wide x ______ " high _______ Quantity
(door cut out size equals order size).

Mounting Options:
□ Model 1100 Core
Basic blade unit; for interior doors; or as transom louver held in place with wood or metal mounting (finished by others).

□ Model 1100A
Basic blade unit with flanged frame welded to face (corridor) side and separate flanged frame on opposite side: frame adjustable to fit any door thickness from 1-1/8" to 1-3/4".

□ Model 1100C
Basic blade unit with single flanged frame welded to face (corridor) side: for interior or exterior doors; wood or metal mounting (by others) used on opposite side.
Model 1200-A

Twin "Z" Blades
(Fixed and adjustable)
Recommended for applications where both non-vision and adjustable design is required in a tandem unit.

Specifications

Standard Features:

Material: 18 gauge CRS frame and louver blades.

Construction: Mitered and welded corners; adjustable blades are manually operated from interior (occupancy) side. Fixed blades on exterior of louver.

Finish: Mineral bronze baked on powder coat.

Door: For 1 3/4" door.

Fasteners: Countersunk mounting holes with #8 x 3/4" phillips flathead screws.

Free Flow Area: 43% free area.

Options:

Material:  □  #20 gauge 304 stainless steel - #4 finish

Finish:  □  Special order baked enamel colors
         □  Baked on powder coat gray prime for field painting, no extra charge.

Fasteners: □  #8-32 phillips flathead machine screw thru-bolted to #8-32 binder bolt with blank head on corridor side of frame.

Screens: □  18-14 mesh insect screen installed in roll formed aluminum frame. Aluminum, bronze or fiberglass mesh available.

Size: ______" wide x ______" high  Quantity (door cut out size equals order size)

Distributor: ____________________________________________  Project: ____________________________
Architect: ______________________________________________  Location: ____________________________
Contractor: ______________________________________________  Date: ________________________________
Model 1300

Inverted "V" Blades
Non-vision design recommended for buildings where all-aluminum construction is desired.

Specifications

Standard Features:

Material: Formed from .050 aluminum.

Construction: Mitered and welded corners.

Finish: Satin aluminum baked on powder coat.

Door: "A1" style for 1 3/4" doors only. Other styles for 1 3/8" to 1 3/4".

Fasteners: #8 x 3/4" phillips head screws.

Free Flow Area: 60% free area.

Options:

Finish:  □ Baked on powder coat gray primer for field painting, no extra charge.
       □ Special order colors. Please provide color chip.

Fasteners:  □ Security fasteners, please specify.

Screens:  □ 18-14 mesh insect screen installed in roll formed aluminum frame. Aluminum, bronze or fiberglass mesh available.

Door Thickness:
       □ For 1 3/8" door (available with "A" mounting style).

Size:  _____ " wide x _____ " high    Quantity
       (door cut out size equals order size).

Mounting Options:

□ Core Style
Basic blade unit only; for interior doors; or as transom louver held in place with wood or metal moulding (tummed by others).

□ "C" Style
Basic blade unit with single flanged frame welded to face (corridor) side; for interior or exterior doors; wood or metal moulding (by others) used on opposite side.

□ "A" Style
Basic blade unit with flanged frame welded to face (corridor) side and separate flanged frame on opposite side; frame adjustable to fit any door thickness from 1-3/8" to 1-3/4".
Model 1400

Stormproof "Z" Blades ( Extruded aluminum)
Non-vision stormproof design recommended for schools, class "A" and institutional buildings where weather protection is required; louver blades incorporate a water baffle; suitable for exterior door applications.

Specifications

Standard Features:

Material: .063" thick 6063-T5 extruded aluminum.

Construction: Reinforced mitered corners.

Finish: Standard mill finish.

Door: 1 3/8" up to 1 3/4" door.

Fasteners: #8 x 3/4" phillips head screws.

Free Flow Area: 35% free area.

Options:

Finish: □ Bronze or clear anodized.
□ Special order colors or standard bronze.
□ Baked on powder coat gray prime for field painting, no extra charge.

Fasteners: □ Security fasteners, please specify

Screens: □ 18-14 mesh insect screen installed in roll formed aluminum frame. Aluminum, bronze or fiberglass mesh available.

Size: ______" wide x ______" high ______ Quantity (door cut out size equals order size).

Mounting Options:

□ Model 1400A
Basic blade unit with flanged frame welded to face (corridor) side and separate flanged frame on opposite side; frame adjustable to fit any door thickness from 1-1/2" to 1-3/4".

□ Model 1400C
Basic blade unit with single flanged frame welded to face (corridor) side; for interior or exterior doors; wood or metal molding (furnished by others) used on opposite side.

Distributor: ____________________________________________
Architect: ______________________________________________
Contractor: ____________________________________________
Project: _______________________________________________
Location: _______________________________________________
Date: __________________________________________________
Model 1500-A

Inverted "Y" Blades with Security Grille

Non-vision two-piece louver design recommended for schools, class "A" and institutional buildings where vandal-proof design is required.

Specifications

Standard Features:

Material: 18 gauge CRS louver blades; 12 gauge CRS security grille.

Construction: Security grille on interior and exterior of louver with 13/16" square openings 1" on center.

Finish: Mineral bronze baked on powder coat.

Door Thickness: 1 3/4" for 1 3/8" doors consult factory

Fasteners: #8-32 phillips head thru bolts with blank head one side.

Free Flow Area: 40% free area.

Options:

Material:
- ☐ 20 gauge stainless steel - #4 finish
- ☐ Galvanize Sheet for exterior use
- ☐ Electro Zinc Plating for Maximum Corrosion Resist.
- ☐ 16 gauge CRS blade and 10 gauge security grill

Finish:
- ☐ Baked on powder coat gray prime for field painting, no extra charge.
- ☐ Special order colors. Please provide color chip.

Fasteners: ☐ Security fasteners, please specify

Screens:
- ☐ 18-14 mesh insect screen installed in roll formed aluminum frame. Aluminum, bronze or fiberglass mesh available.

Size: ______" Wide x ______" high _______ Quantity

(door cut out size equals order size)
**Model 1900-A**

Model 1900-A door louver is listed by U.L. and WHI and is ideal for use in fire doors up to 1 1/2 hour rating. The Listing Mark is provided in the frame of the louver.

### Specifications

**Standard Features:**

**Material:** 16 gauge CRS frame and louver blades.  
**Construction:** Mitered and welded corners; screws fastened through prepared frame into louver core; this mounting method leaves corridor side of frame free of fasteners for aesthetic and security purposes.  
Adjustable blades of 16 gauge cold rolled steel pivot on cadmium-plated steel rivets. The blades are operated by a manual trigger. A spring-loaded fusible link mechanism is incorporated into the design. Upon melting of the link, the action bar is actuated thereby closing and locking all of the blades. Louver assembly is 1 3/8” deep.  
**Drilling holes in the door for installation is not required.**  
**Finish:** Mineral bronze baked on powder coat.  
**Door:** For 1 3/4” door.  
**Fasteners:** #8 x 3/4” phillips head screws.  
**Free Flow Area:** 45% free area.

### Options:

**Material:**  
- [ ] #20 gauge 304 stainless steel - #4 finish  
**Finish:**  
- [ ] Baked on powder coat gray prime for field painting, no extra charge.  
- [ ] Special order colors. Please provide color chip.  
**Fasteners:**  
- [ ] Security fasteners, please specify  
**Screen:**  
- [ ] 18-14 mesh insect screen installed in roll formed aluminum frame. Aluminum, bronze or fiberglass mesh available.  
**Door Thickness:**  
- [ ] For 1 3/8” door.  
**Size:** 

 width x height Quantity  
(Door cut out size equals order size).  

### Fire Ratings (with UL and ITS classification markings):

The Model 1900-A is U.L. and WHI listed for use in fire doors up to 1 1/2 hour rating. Louver size shall not exceed maximum of 576 square inches, 24 inches width and 24 height. The minimum width and height shall not be less than 10 inches and 6 inches, respectively.

Louvers may be provided for classified hollow-metal type and composite type fire doors.

---

Distributor: ____________________________________________  
Architect: ______________________________________________  
Contractor: ____________________________________________  
Project: ________________________________________________  
Location: ________________________________________________  
Date: ____________________________________________________  

ALGC0809  800-766-0660  D15
**Model 1900-ASG**

Door louver is listed by U.L. and WHI and is ideal for use in fire doors up to 1½ hour rating for security applications.

**Specifications**

**Standard Features:**

- **Material:** 16 gauge CRS frame and louver blades.
- **Construction:** Mitered and welded corners; 10 Ga. security grille on exterior of louver with 1/8" square openings 1" on center; screws fastened through prepared frame into louver core; this mounting method leaves corridor side of frame free of fasteners for aesthetic and security purposes.

Adjustable blades of 16-gauge cold rolled steel pivot on cadmium-plated steel rivets. The blades are operated by a manual trigger. A spring-loaded fusible link mechanism is incorporated into the design. Upon melting of the link, the action bar is actuated thereby closing and locking all of the blades.

**Drilling holes in the door for installation is not required.**

- **Finish:** Mineral bronze baked on powder coat.
- **Door:** For 1 ¾" door.
- **Fasteners:** #8 x 3/4" flathead phillips head SMS.
- **Free Flow Area:** 45% free area.

**Options:**

- **Material:** #20 gauge stainless steel - #4 finish
- **Finish:** Baked on powder coat gray prime for field painting, no extra charge.
- **Special order colors. Please provide color chip.**
- **Fasteners:** Security fasteners, please specify.
- **Screen:** 18-14 mesh insect screen installed in roll formed aluminum frame. Aluminum, bronze or fiberglass mesh available.

- **Door Thickness:** For 1½" door.
- **Size:** ______ " wide x ______ " high ______ Quantity
  (door cut out size equals order size)

**Fire Ratings (with UL and ITS classification markings):**

The Model 1900-ASG is U.L. and WHI listed for use in fire doors up to 1½ hour rating. Louver size shall not exceed maximum of 576 square inches, 24 inches width and 24 height. The minimum width and height shall not be less than 10 inches and 6 inches, respectively.

Louvers may be provided for classified hollow-metal type and composite type fire doors.
MODEL 1500-A-HRC
HURRICANE-RATED LOUVER

Inverted “Y” Blades with Security Grille
Non-vision two-piece louver design
Recommended for schools, class “A” and
Institutional buildings where vandal-proof
and windstorm design is required

Specifications

Standard Features:

Material: 18 gauge CRS louver blades; Maximum Size 24” x 64”
12 gauge CRS security grille.

Construction: Security grille on interior and exterior of louver
with 13/16” square openings 1” on center.

Finish: Mineral bronze baked on powder coat.

Door Thickness: 1-3/4”. For 1-3/8” doors, consult factory

Fasteners: #8-32 phillips head thru bolts with
blank head one side

Free Flow Area: 40% free area

Options:

Material: □ 20 gauge stainless steel - #4 finish
□ Galvanize Sheet for Corrosion Resistance & Exterior Use
□ Electro Zinc Plating for Maximum Corrosion Resist.
□ 16 gauge CRS blade and 10 gauge security grille

Finish: □ Baked on powder coat gray prime for
field painting, no extra charge
□ Special order colors - please provide color chip

Fasteners: □ Security fasteners, please specify

Screens: □ 18-14 mesh insect screen installed in roll-formed
aluminum frame. Aluminum, bronze or
fiberglass mesh available.

Tested in Accordance with:
TAS 203, 201, 202, ASTM E1886
Impact (ft lb) 350

DP Rating (PSF) 60

Size: _______” Wide x _______” High _________Quantity
(door cutout size equals order size)

Distributor: ____________________________________ Project: ____________________________________
Architect: _____________________________________ Location: _____________________________________
Contractor: ____________________________________ Date: ________________________________________

ALGC0809 800-766-0660 D17
<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door Edges &amp; Astragals</td>
<td>20 Gauge Edges &amp; Astragals *</td>
<td>M2</td>
</tr>
<tr>
<td>Ordering Information</td>
<td>Righthand/Lefthand Active</td>
<td>M3</td>
</tr>
<tr>
<td>Ordering Information</td>
<td>Righthand/Lefthand Reverse</td>
<td>M4</td>
</tr>
<tr>
<td>HGSS</td>
<td>Hinge Edge Guards</td>
<td>M5</td>
</tr>
</tbody>
</table>

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ALGC0809  800-766-0660
Specifications

Standard Features:

Material: 20 gauge CRS Channel 18ga, Astragal.

Construction: Countersunk mounting holes.

Finish: Mineral bronze baked on powder coat.

Door: 1-3/4” door.

Fasteners: #8 x 7/8” flathead phillips head screws.

Options:

Material:
- [ ] 18 gauge #304 stainless steel - #4 finish
- [ ] 20 gauge #304 stainless steel - #4 finish
- [ ] Electro-galvanized steel

Finish:
- [ ] Baked on powder coat gray prime for field painting, no extra charge.
- [ ] Special order colors. Please provide color chip.
- [ ] Leadlined for x-ray protection
- [ ] Veneer Wood Wrapped
  Standard Species: Birch, Red Oak, White Oak, Maple, Cherry, Honduras Mahogany
  Others species available

Fasteners:
- [ ] Special security fasteners.

Custom Fractional Sizes:
- [ ] Custom size for other than 1-3/4” door

Hardware Preps:
- [ ] Cutouts for hardware detail sheet must be provided with order.

Profiles

90° Edge
20 Ga. cold rolled steel; used on ME 90, MEA 90 and MEA 905.

87°/93° Edge
20 Ga. cold rolled steel; used on ME, MEA, MEA-6, MEA-6E, MEA-DE and DE 5.

Astragal
18 Ga. cold rolled steel; used on MEA 90, MEA 905, MEA, MEA 5, MEA-DE and MEA-DE 5.

Door Edges and Astragals

ME 90
Metal Edges (pair) for 90° doors

MEA 90
Metal Edges (pair) with Astragal for 90° doors

MEA 905
Metal Edge with Astragal for 90° doors

ME
Metal Edges (pair) for swinging doors

MEA
Metal Edges (pair) with Astragal for swinging doors

MEA 5
Metal Edges with Astragal for swinging doors

ME-DE
Metal Edges (pair) for Double Egress doors

MEA-DE
Metal Edges (pair) with Astragal for Double Egress doors

MEA-DE 5
Metal Edges with Astragal for Double Egress Doors

BA
Flat Bar Astragal
1/8” x 2” Round Edge Steel Bar

Distributor: ____________________________
Architect: ____________________________
Contractor: ____________________________

Project: ____________________________
Location: ____________________________
Date: ____________________________
LEFT HAND AND RIGHT HAND ACTIVE
Door Edges and Astragals
Ordering Information
and Hardware locations
SEE PAGE M3 FOR REVERSE ACTIVE

LEFT HAND ACTIVE
ASTRAGAL IS ON LOW SIDE OF INACTIVE

RIGHT HAND ACTIVE
ASTRAGAL IS ON LOW SIDE OF INACTIVE

LEFT HAND ACTIVE

Qty. _____ Model. _____ Height _____

RIGHT HAND ACTIVE

Qty. _____ Model. _____ Height _____

86 Series
☐ Mortise Lock
☐ Cylinder Lock
☐ ASA Strike
☐ T-Strike
☐ Standard Flush Bolt
☐ Automatic Flush Bolt

ALGC0809 800-766-0660 M3
LEFT HAND AND RIGHT HAND REVERSE ACTIVE

Door Edges and Astragals
Ordering Information
and Hardware locations

See page M2 for LH Active and RH Active

86 Series
☐ Mortise Lock

161 Series
☐ Cylinder Lock

☐ ASA Strike
☐ T-Strike
☐ Standard Flush Bolt
☐ Automatic Flush Bolt
Model HGSS
Stainless Steel Hinges Edge Guard
For Door Edges Protection

Specifications

Standard Features:

Material: 18 gauge #304-4 stainless steel.

Construction: 3 degree bevel, countersunk mounting holes.

Fasteners: #8 x 7/8" flathead phillips head screws.

Door Thickness: 1 1/4" doors with 1/4" hinge back set.

Options:

☐ Other gauges, please specify________
☐ CRS painted, please specify________
☐ 90 degree bends
☐ Full wrap around
☐ Hinge size______ x _______
       must specify