

FIRE RATED HARDWARE CATALOG 2018

We provide innovative professional products that meet the highest standards of the commercial fire door industry with great results for all your Fire Door Solutions.



Numerous Frames
models & custom shapes

5" Channels for Concealed Vertical Rod Devices and Metal Door Edges

Catalog Details

- Metal Vision Panel (MVPs) frames available for Wood, Composite, and Metal Doors
- Real wood veneer in numerous species/cuts
- STC sound reduction options
- Custom designs for bullet resistant applications
- Lead Lined options for clinical and X-ray
- Frames for various glass and door thickness.
- UL Fire Ratings up to 180 min
- Standard and Custom created Mullions
- Metal Edges and Astragals
- Fast Lead Times & Quick Ship Programs



715-223-6324 | 715-223-3352
fax

Updated March 2018

www.AllMetalStamping.com

411 West Spruce Street | Abbotsford, WI 54405-0485



Table of Contents

This catalog can be downloaded from our website at:
www.AllMetalStamping.com

Door Light Frames

| | |
|---|-------|
| #110/#110B Door Light Frame Specifications (Our Best Value) | 3-4 |
| UL Door Light Frame Listings | 5-8 |
| Hollow Metal Door Clips | 9 |
| Sound Sealing Option | 10 |
| Labeling Policy & Glazing Recommendations | 11 |
| Special Door Light Frames | |
| 115/117M/105M/105/118M/118/118MN/118N/118MW/118W/118MSP/118D | 13-15 |
| Mullions | 16-19 |
| Frames for Double & Triple Glazing, and Frames for Lead Lined Doors | 20 |

Standard, "Quick Ship" & Stock List

| | |
|--|----|
| Standard & "Quick Ship" Services | 21 |
| Stock Size Frame List | 22 |

Edge & Astragal Sets and 5" Channels

| | |
|--|----|
| UL Listed Door Edge & Astragal Sets | 23 |
| Door Edge & Astragal Specifications | 24 |
| UL Ratings for Door Edge & Astragals | 25 |
| 5" Metal Channels for Concealed Vertical Rod Devices (CVR's) | 26 |

Veneer Wrapped Products

| | |
|--|----|
| Veneer Wrapped Frames, Edge & Astragals, and 5" Channels | 27 |
|--|----|

Conditions of Sale

| | |
|--------------------------|----|
| Conditions of Sale | 28 |
|--------------------------|----|

The Pricing Guide can be obtained by email, fax, or mail by contacting us at **715-223-6324**. We will send the guide to you as soon as possible.

Lead-time for standard product is 7-10 business days. Actual ship date will depend on our production schedule.

Refer to "Quick Ship" Services and Stock Size List for further details on page 21.

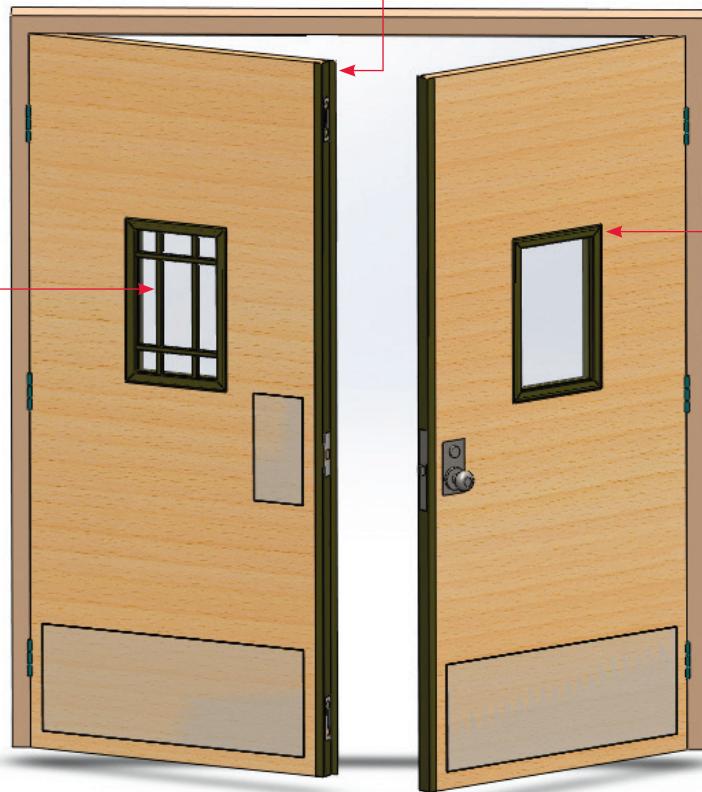
- Custom made door astragals to suit many hardware configurations.
- Astragal/edges and hinge edge protectors.
- 16GA. Astragal lip standard. More abuse resistant.
- Available with custom mullion bars.
- #110 Frame Exclusive: One Man installation saves time and money.
- 18GA. Steel Frames are 33% more rigid than 20GA.
- UL Rated with NO glazing compound required.

Other Items Available: [Call for information and Quote](#)

Kick/Armor Plates (Stainless Steel)

Dutch Door Shelves (CRS or Stainless Steel)

Aluminum Door Flashings



Meets UL10B requirements for NEUTRAL PRESSURE and UL10C for POSITIVE PRESSURE.

ORDER INFORMATION:

Order size = Inside dimension of frame, (W+H)

Cutout size = Order size + 1 1/2"

Glass size = Order size + 3/4" (tolerance (+0/-1/16))

MATERIAL:

18 GA. CRS frame is standard.

- 33% thicker than 20 GA. frames.

- Maintains flat appearance.

FINISH:

Beige, gray or dark bronze polyester powder coating.

- Extremely durable
- Visually appealing

NARROW FACE FRAME:

- Better proportioned
- Visually appealing
- Suitable for wood, metal or mineral core doors.

OPTIONS:

- 18 GA. Galvanized for exterior use.
- 18 GA. Stainless Steel for hospital and food service.
- Custom colors.
- Wood veneer wrapped in various species to match door.
- Maximum Glass pocket is 5/8" less than door thickness, up to 1 1/8" deep
- Available for a variety of glass or door thicknesses

MOUNTING HOLES:

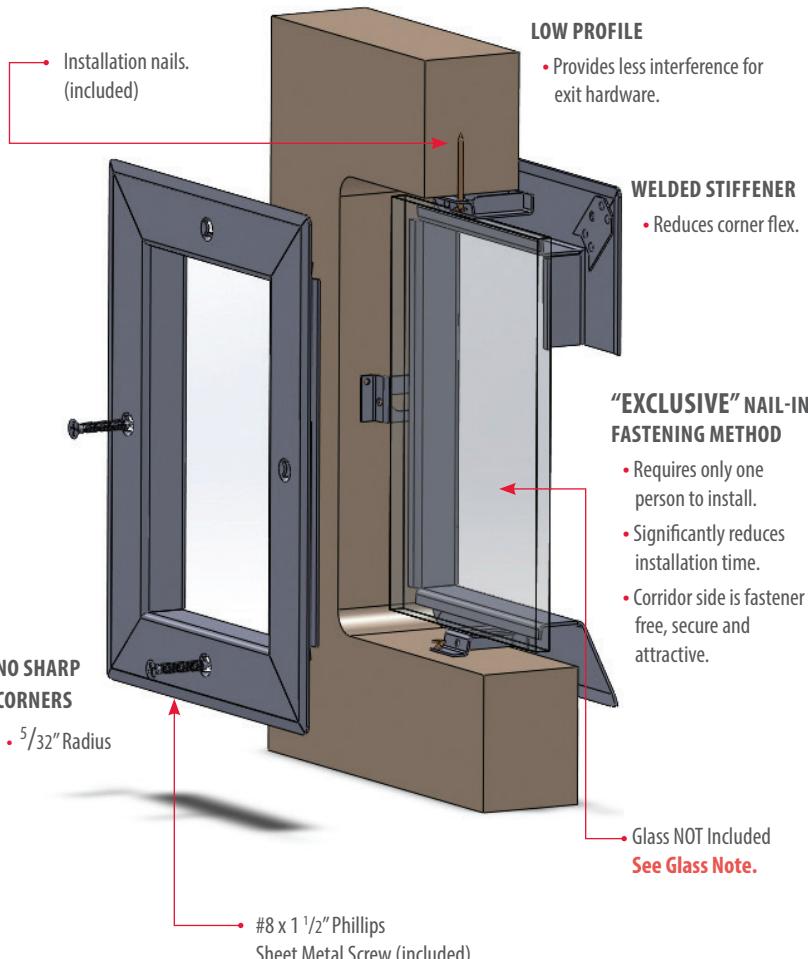
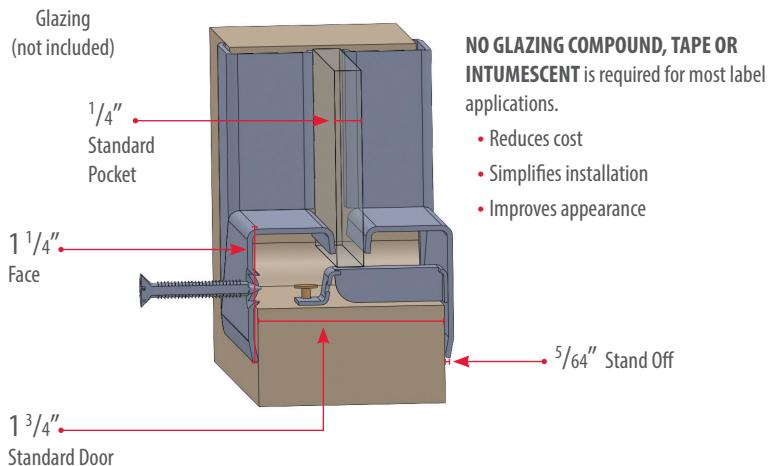
- Less than 12", one hole centered.
- 12" or more, three inches maximum from corners
11 5/16" maximum centers.

GLASS NOTE: For non-fire rated applications we recommend glazing tape and light torque on the screws to prevent glass breakage.

Model 110 Low Profile Fire Door Light Frame

For standard 1 3/4" Door & 1/4" Glass and other applications

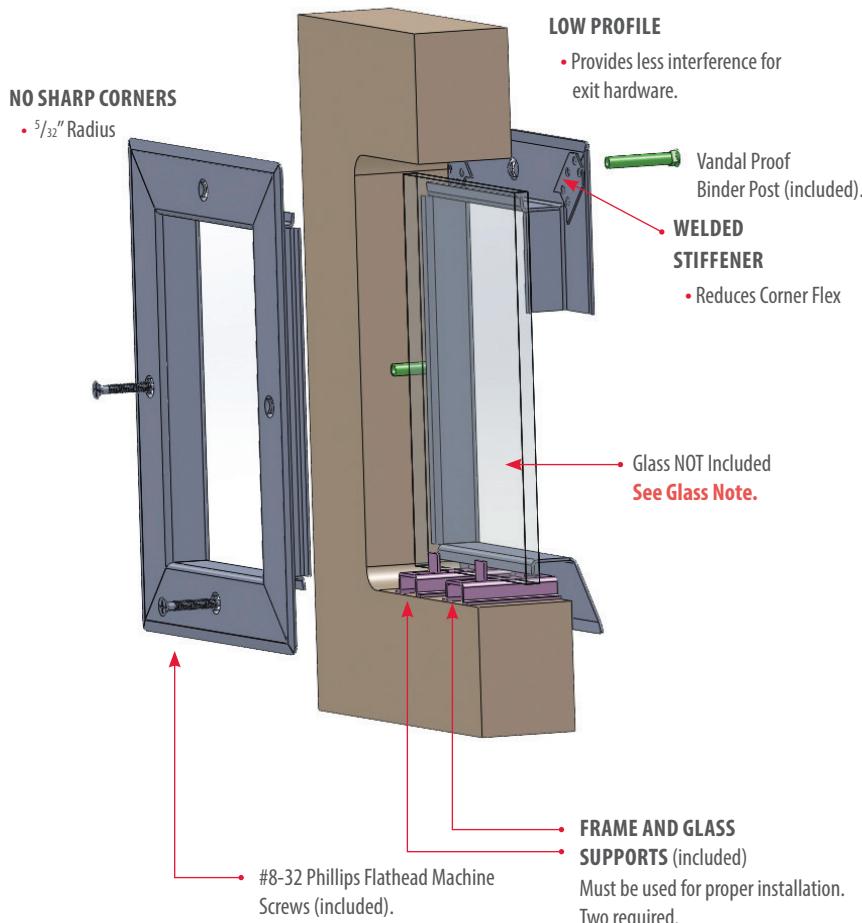
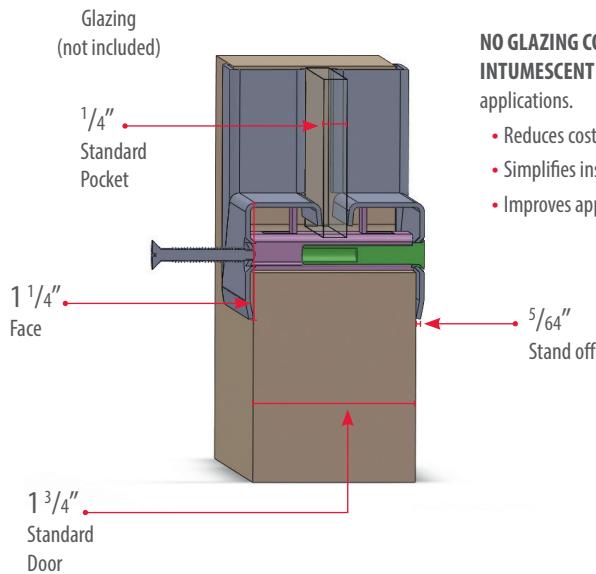
Refer to AMS Listing Specifications. Fire tested WITHOUT glazing compound, tape or intumescent.



Model 110B Low Profile Fire Door Light Frame

For non-standard applications

Refer to AMS Listing Specifications. Fire tested WITHOUT glazing compound, tape or intumescent.



Patent No. 8,156,699 B2

UL Listed

Meets UL10B requirements for NEUTRAL PRESSURE and UL10C for POSITIVE PRESSURE.

Order size = Inside dimension of frame, (W+H)

Cutout size = Order size +1 1/2"

Glass size = Order size + 3/4" (Tolerance +0/-1/16")

MATERIAL:

18 GA. CRS frame is standard.

- 33% thicker than 20 GA. frames.
- Maintains flat appearance.

FINISH:

Beige, gray or dark bronze polyester powder coating.

- Extremely durable
- Visually appealing

NARROW FACE FRAME:

- Better proportioned
- Visually appealing
- Suitable for wood, metal or mineral core doors.

OPTIONS:

- 18 GA. Galvanized for exterior use.
- 18 GA. Stainless Steel for hospital and food service.
- Custom colors.
- Wood veneer wrapped in various species to match door.
- Available for a variety of glass and door thicknesses.
- Maximum glass pocket is 5/8" less than door thickness, up to 1 1/8" deep.

MOUNTING HOLES:

- Less than 12", one hole centered.
- 12" or more, three inches maximum from corners 11 5/16" maximum centers.

GLASS NOTE: For non-fire rated applications we recommend glazing tape and light torque on the screws to prevent glass breakage.





Underwriters Laboratories Listings

Listings below are for Positive Pressure Rated (UL10C) openings for Styles listed below. Neutral Pressure (UL10 B) listings are available by contacting Customer Service.

Door Types: Hollow Metal type, Composite type, and Wood Core type Fire Doors.

NOTE: The International Building Codes (IBC) no longer allows use of glass in doors that is not safety rated. The listings below includes glasses that are not safety rated. It is the Purchaser's responsibility to make sure the glass you are using is approved in the jurisdiction in which it will be installed. CPSC ratings are included for your information.

We can provide Fire Rated Frames that meet the requirements in UL's Fire Protection Rated Glazing Materials Category (KCMZ), or glazing which has approval for conformance to ANSI/UL 10B, ANSI/UL 10C, NFPA80, NFPA252, OR CAN/ULC S104. Contact us if you have a glass that we do not have listed.

| Frame Styles | Glass Type | Rating | Max. Size Sq. Inches | Max. Width | Max. Height | Glass Thickness | Pocket Thickness | Tape Required | CPSC Rating | Other Restrictions |
|--------------------------------|------------------------------------|----------|----------------------|------------|-------------|-----------------|------------------|---------------|-------------|--------------------------------|
| 110,110B, 117M,118,118M | FireGlass 20* | 20 NH | 1296 | 36 | 54 | 1/4* | Same | None | CAT I & II | |
| | Pyrodur 20-104 | | | | | 5/16 | 3/8 | | CAT I | |
| | Pyran S | | | | | 3/16 | 1/4 | | None | |
| | FireLite | | | | | 5/16 | 3/8 | | None | |
| | FireLite NT | | | | | 5/16 | 3/8 | | CAT I & II | |
| | FireLite Plus | | | | | 5/16 | 3/8 | | CAT I & II | |
| 110,110B,115, 117M,118,118M | SuperLite I-W | 20 NH | 1296 | 54 | 54 | 5/16 | 3/8 | None | CAT I & II | |
| | SuperLite 20* | | | | | 5/16 | 3/8 | | CAT I & II | |
| | New-Wire | | | | | 5/16 | 3/8 | | None | |
| | Safe-Wire | | | | | 5/16 | 3/8 | | CAT I & II | |
| | Labeled Wired Glass | | | | | 5/16 | 3/8 | | None | |
| | WireLite | | | | | 5/16 | 3/8 | | None | |
| 118N ,118MN | Contraflam 30 | 20 NH | 1296 | 35.8125 | 54 | 13/16 | Same | None | CAT I & II | |
| | Pyrodur 20-250,260,280,350,360,380 | | | | | 47.1250 | 54 | | CAT II | |
| 110,110B, 117M,118,118M | Pyrodur 20-200 | 20 NH | 1296 | 47.1250 | 54 | 3/8 | Same | None | CAT I | |
| | PyroSwiss 20* | | | | | 47.5000 | 54 | | CAT I & II | |
| 110,110B, 117M,118,118M | Pyroguard | 20 NH | 1404 | 28 | 62 | 5/16 | 7/16 | FG3000S45 | CAT I | |
| | Pyrodur 20-104 | | | | | 1944 | 36 | | | |
| 110,110B, 117M,118,118M | SuperLite 20* | 20 NH | 2678 | 109 | 109 | 5/16 | 3/8 | 1/16 PVC Tape | | Hollow Metal Door Wood Door |
| | SuperLite 20* | | | | | 2719 | 77.1250 | | | |
| | Safe-Wire | | | | | 2994 | 35.7500 | | | |
| | FireGlass 20* | | | | | 3204 | 36 | | | |
| | PyroSwiss 20* | | | | | 3419 | 47.5000 | | | |
| 118N ,118MN | Contraflam 30 | 20 NH | 3419 | 35.8125 | 95.5000 | 13/16 | 15/16 | 1/16 PVC Tape | CAT I & II | |
| | Pyrodur 20-250,260,280,350,360,380 | | | | | 4477 | 47.1250 | | FG3000S45 | |
| 110,110B, 117M,118,118M | Pyran S | 20 NH | 3204 | 36 | 89 | 3/16 | 5/16 | FG3000S45 | None | |
| | FireLite | | | | | 5/16 | | | CAT I & II | |
| | FireLite NT | | | | | 5/16 | | | | |
| | FireLite Plus | | | | | 5/16 | | | | |
| 110,110B, 117M,118,118M | SuperLite I-W | 20 NH | 3289 | 35.7500 | 92 | 5/16 | 7/16 | 1/16 PVC Tape | CAT I & II | Hollow Metal Door |
| | Labeled Wired Glass | | | | | 5/16 | | | | |
| | New-Wire | | | | | 5/16 | | | | |
| | WireLite | | | | | 5/16 | | | | |
| | WireLite NT | | | | | 5/16 | | | | |
| 110,110B, 117M,118,118M | SuperLite XL ¹ | 20-45 NH | 3341 | 35.1250 | 96 | 1/4 | 3/8 | 1/16 PVC Tape | CAT I & II | Requires Approval of AHJ |
| | Fireswiss LAM20 | | | | | 4608 | | | | |
| 118W,118MW | SuperLite XL IGU ¹ | 20-45 NH | 3341 | 35.1250 | 96 | 1" Std. | 1-1/4 | 1/8 PVC Tape | CAT I & II | Requires Approval of AHJ |
| | SuperLite XL IGU ¹ | | | | | 3/4 | | | | |
| 110,110B,115, 117M,118,118M | Labeled Wired Glass | 20-45 | 1296 | 54 | 54 | 1/4 | Same | None | None | |
| | Protect3 Safety Glass (Wired) | | | | | 5/16 | | | CAT I & II | |
| | New-Wire | | | | | 5/16 | | | None | |
| | Safe-Wire | | | | | 5/16 | | | CAT I & II | |
| | WireLite | | | | | 5/16 | | | None | |
| | WireLite NT | | | | | 5/16 | | | CAT I & II | |
| | SuperLite I-W | | | | | 5/16 | | | CAT I & II | |
| 110,110B,117M, 118,118M | Labeled Wired Glass | 20-45 | 2856 | 34 | 84 | 1/4 | 3/8 | FG3000S45 | None | Hollow Metal Door ONLY |
| | Protect3 Safety Glass (Wired) | | | | | 5/16 | | | | |
| | New-Wire | | | | | 5/16 | | | | |
| | WireLite | | | | | 5/16 | | | | |
| | WireLite NT | | | | | 5/16 | | | | |
| 110,110B,117M, 118,118M | Keralite FR-R | 20-45 | 1296 | 46.500 | 54 | 3/16 | 1/4 | None | None | |
| | Keralite FR-F | | | | | 5/16 | | | CAT I & II | |
| | Keralite FR-L | | | | | 5/16 | | | CAT I & II | |

* FireGlass 20, PyroSwiss 20, and SuperLite 20 can vary in thickness from 1/4" to 1/2".

NOTE: NO HOSE frames are not recognized in Canada.

¹20-45 Minute SuperLite XL requires approval of the AHJ.



Underwriters Laboratories Listings

Listings below are for Positive Pressure Rated (UL10C) openings for Styles listed below. Neutral Pressure (UL10 B) listings are available by contacting Customer Service.

Door Types: Hollow Metal type, Composite type, and Wood Core type Fire Doors.

NOTE: The International Building Codes (IBC) no longer allows use of glass in doors that is not safety rated. The listings below includes glasses that are not safety rated. It is the Purchasers responsibility to make sure the glass you are using is approved in the jurisdiction in which it will be installed. CPSC ratings are included for your information.

We can provide Fire Rated Frames that meet the requirements in UL's Fire Protection Rated Glazing Materials Category (KCMZ), or glazing which has approval for conformance to ANSI/UL 10B, ANSI/UL 10C, NFPA80, NFPA252, OR CAN/ULC S104. Contact us if you have a glass that we do not have listed.

| Frame Styles | Glass Type | Rating | Max. Size Sq. Inches | Max. Width | Max. Height | Glass Thickness | Pocket Thickness | Tape Required | CPSC Rating | Other Restrictions | | | | |
|--------------------------------|-------------------------------|--------|----------------------|------------|-------------|-----------------|------------------|---------------|--------------------|---------------------------------|--|--|--|--|
| 110,110B,117M, 118,118M | Keralite FR-R | 20-45 | 3627 | 46.500 | 78 | 3/16 | 5/16 | 1/16 PVC Tape | None | | | | | |
| | Keralite FR-F | | | | | 5/16 | 7/16 | | CAT I & II | | | | | |
| | Keralite FR-L | | | | | | | | CAT I & II | | | | | |
| 110,110B,115, 117M,118,118M | Pyran Star S, Crystal S | 20-45 | 1296 | 36 | 54 | 3/16 | 1/4 | None | None | | | | | |
| | Pyran Star F, Crystal F | | | | | 5/16 | 3/8 | | CAT I & II | | | | | |
| | Pyran Platinum F | | | | | 3/8 | 3/8 | | CAT I & II | | | | | |
| | Pyran Star L, Crystal L | | | | | 3/16 | 1/4 | | CAT I & II | | | | | |
| | Pyran Platinum L | | | | | 5/16 | 3/8 | | None | | | | | |
| | FireLite | | | | | | | | CAT I & II | | | | | |
| | FireLite NT | | | | | | | | CAT I & II | | | | | |
| 110,110B,117M, 118,118M | FireLite Plus | 20-45 | 2736 | 36 | 76 | 3/16 | 5/16 | FG3000S45 | None | | | | | |
| | Pyran Star S, Crystal S | | | | | 5/16 | 7/16 | | CAT I & II | | | | | |
| | Pyran Star F, Crystal F | | | | | 3/8 | 1/2 | | CAT I & II | | | | | |
| | Pyran Platinum F | | | | | | | | CAT I & II | | | | | |
| | Pyran Star L, Crystal L | | | | | | | | CAT I & II | | | | | |
| 110,110B,117M, 118,118M | Pyran Platinum L | 20-45 | 3204 | 36 | 89 | 3/16 | 5/16 | FG3000S45 | None | | | | | |
| | FireLite | | | | | 5/16 | 7/16 | | CAT I & II | | | | | |
| | FireLite NT | | | | | | | | CAT I & II | | | | | |
| 110,110B,117M, 118,118M | FireLite Plus | 20-45 | 3204 | 36 | 89 | | | 1/16 PVC Tape | CAT II | | | | | |
| | Keralite FR-F IGU | | | | | 11/16 | 13/16 | | | | | | | |
| | Keralite FR-L IGU | | | | | 13/16 | 15/16 | | | | | | | |
| 118N ,118MN | Keralite Ultra | 20-45 | 2736 | 46.500 | 76 | 3/4 | 7/8 | 1/16 PVC Tape | CAT II | | | | | |
| 118W,118MW | Keralite Ultra IGU | 20-45 | 2736 | 46.500 | 76 | 1-1/4 | 1-3/8 | 1/16 PVC Tape | CAT II | | | | | |
| | Keralite Ultra HI IGU | | | | | 1-1/2 | 1-5/8 | | | | | | | |
| | FireLite IGU | | | | | 1 | 1-1/4 | | 1/8 PVC Tape | | | | | |
| 110,110B,117M, 118,118M | Pilkington Pyroshield Plus | 45 | 1296 | 24 | 54 | 7/16 | 9/16 | FG3000S45 | CAT I | | | | | |
| 118N ,118MN | Fireswiss Foam C40 | 45 | 2859 | 34.625 | 82.5625 | 7/8 | 1 | 1/16 PVC Tape | CAT I & II | | | | | |
| 118W,118MW | Fireswiss Foam C44 | 45 | 4608 | 48 | 96 | 1-1/16 | 1-3/16 | 1/16 PVC Tape | CAT I & II | | | | | |
| 118N ,118MN | Contraflam/Swissflam 45 | 45 | 3419 | 35.8125 | 95.5000 | 3/4 | 7/8 | 1/16 PVC Tape | CAT II | | | | | |
| | Contraflam/Swissflam 45 IGU | | | | | 1-1/4 | 1-3/8 | | | | | | | |
| 118N ,118MN | Pyrostop 45-200 | 45 | 3724 | 41.625 | 89.750 | 3/4 | 7/8 | FG3000S45 | CAT I & II | | | | | |
| 118N ,118MN | Pyrobel-45 | 45 | 2747 | 58.750 | 58.750 | 5/8 | 7/8 | 1/8 PVC Tape | Interior | | | | | |
| | Pyrobel-45 Exterior | | | | | 3/4 | 1 | | Exterior | | | | | |
| | Pyrobel-45 Exterior Insulated | | | | | 1-3/8 | 1-5/8 | | Exterior Insulated | | | | | |
| 118N ,118MN | SuperLite II-XL ** | 45 | 1296 | 54 | 54 | 1/2 | 3/4 | 1/8 PVC Tape | CAT I & II | | | | | |
| | | | 2432 | 34.500 | 70.500 | 3/4" Std. | 1 | | | | | | | |
| 118W,118MW | SuperLite X-45 | 45 | 4952 | 116** | 116** | 1 | 1-1/4 | 1/16 PVC Tape | Temp. Rise | | | | | |
| 110,110B,117M, 118,118M | | | | | | 3/4 | 7/8 | | | | | | | |
| SuperLite X-60 | | | | | | | | | | | | | | |
| SuperLite X-90 | | | | | | | | | | | | | | |
| 110,110B,117M, 118,118M | Labeled Wired Glass | 60-90 | 100 | 12 | 33 | 1/4 | Same | None | None | | | | | |
| | Protect3 Safety Glass (Wired) | | | | | | | | CAT I & II | | | | | |
| | New-Wire | | | | | | | | None | | | | | |
| | Safe-Wire | | | | | | | | CAT I & II | | | | | |
| | SuperLite I-W | | | | | 5/16 | 3/8 | | CAT I & II | | | | | |
| 110,110B,115, 117M,118,118M | WireLite | 60-90 | 100 | 10 | 33 | 1/4 | Same | None | None | | | | | |
| | WireLite NT | | | | | CAT I & II | | | | | | | | |
| 110,110B,115, 117M,118,118M | Labeled Wired Glass | 60-90 | 300 | 15 | 33 | 1/4 | Same | None | None | | | | | |
| | Protect3 Safety Glass (Wired) | | | | | | | | CAT I & II | | | | | |
| | New-Wire | | | | | | | | None | | | | | |
| | Safe-Wire | | | | | | | | CAT I & II | | | | | |
| | SuperLite I-W | | | | | | | | CAT I & II | | | | | |
| | WireLite | | | | | | | | None | | | | | |
| 110,110B,117M, 118,118M | WireLite NT | | | | | | | FG3000S90 | CAT I & II | | | | | |
| | Labeled Wired Glass | 60 | 960 | 12 | 80 | 1/4 | 3/8 | | None | | | | | |
| | Protect3 Safety Glass (Wired) | | | | | | | | CAT I & II | | | | | |
| | New-Wire | | | | | | | | None | | | | | |
| | Safe-Wire | | | | | | | | CAT I & II | | | | | |
| | WireLite | | | | | | | | None | | | | | |
| | WireLite NT | | | | | | | | CAT I & II | | | | | |
| 110,110B,117M, 118,118M | SuperLite I-W | | | | | 5/16 | 7/16 | 1/16 PVC Tape | CAT I & II | Non-Temp. Rise & Wood Door ONLY | | | | |

** SuperLite II-XL is limited to a Max. Width or Max. Height of 116" by AMS Tooling.



715-223-6324 | 715-223-3352
fax

411 West Spruce Street | Abbotsford, WI 54405-0485

www.AllMetalStamping.com



Underwriters Laboratories Listings

Listings below are for Positive Pressure Rated (UL10C) openings for Styles listed below. Neutral Pressure (UL10 B) listings are available by contacting Customer Service.

Door Types: Hollow Metal type, Composite type, and Wood Core type Fire Doors.

NOTE: The International Building Codes (IBC) no longer allows use of glass in doors that is not safety rated. The listings below includes glasses that are not safety rated. It is the Purchaser's responsibility to make sure the glass you are using is approved in the jurisdiction in which it will be installed. CPSC ratings are included for your information.

We can provide Fire Rated Frames that meet the requirements in UL's Fire Protection Rated Glazing Materials Category (KCMZ), or glazing which has approval for conformance to ANSI/UL 10B, ANSI/UL 10C, NFPA80, NFPA252, OR CAN/ULC S104. Contact us if you have a glass that we do not have listed.

| Frame Styles | Glass Type | Rating | Max. Size Sq. Inches | Max. Width | Max. Height | Glass Thickness | Pocket Thickness | Tape Required | CPSC Rating | Other Restrictions | |
|--------------------------------|-------------------------------|--------|----------------------|------------|-------------|-----------------|------------------|---------------|-------------|---------------------------------|--|
| 110,110B,117M, 118,118M | Labeled Wired Glass | 90 | 552 | 12 | 46 | 1/4 | 3/8 | FG3000S90 | None | Non-Temp. Rise & Wood Door ONLY | |
| | Protect3 Safety Glass (Wired) | | | | | | | | CAT I & II | | |
| | New-Wire | | | | | | | | None | | |
| | SuperLite I-W | | | | | | | | CAT I & II | | |
| | WireLite | | | | | | | | None | | |
| | WireLite NT | | | | | | | | CAT I & II | | |
| | Safe-Wire | | | | | | | | CAT I & II | | |
| 110,110B,115, 117M,118,118M | Keralite FR-R | 60-90 | 100 | 10 | 33 | 3/16 | 1/4 | None | None | Temp. Rise | |
| | Keralite FR-F | | | | | | | | CAT I & II | | |
| | Keralite FR-L | | | | | 5/16 | 3/8 | | CAT I & II | | |
| 110,110B,115, 117M,118,118M | Keralite FR-R | 60-90 | 300 | 15 | 33 | 3/16 | 1/4 | None | None | Non-Temp. Rise | |
| | Keralite FR-F | | | | | | | | CAT I & II | | |
| | Keralite FR-L | | | | | 5/16 | 3/8 | | CAT I & II | | |
| 110,110B,115, 117M,118,118M | Keralite FR-R | 60 | 3627 | 46.500 | 78 | 3/16 | 5/16 | 1/16 PVC Tape | None | Non-Temp. Rise | |
| | Keralite FR-F | | | | | | | | CAT I & II | | |
| | Keralite FR-L | | | | | 5/16 | 7/16 | | CAT I & II | | |
| 110,110B,115, 117M,118,118M | Keralite FR-R | 90 | 3534 | 46.500 | 76 | 3/16 | 5/16 | 1/16 PVC Tape | None | Non-Temp. Rise | |
| | Keralite FR-F | | | | | | | | CAT I & II | | |
| | Keralite FR-L | | | | | 5/16 | 7/16 | | CAT I & II | | |
| 118N,118MN | Keralite FR-F IGU | 60-90 | 100 | 10 | 33 | 11/16 | 13/16 | 1/16 PVC Tape | CAT II | Temp. Rise | |
| | Keralite FR-L IGU | | | | | 13/16 | 15/16 | | | | |
| | Keralite FR-F IGU | | | | | 13/16 | 15/16 | | CAT II | | |
| 118N,118MN | Keralite FR-F IGU | 60 | 3627 | 46.500 | 78 | 11/16 | 13/16 | 1/16 PVC Tape | CAT II | Non-Temp. Rise | |
| | Keralite FR-L IGU | | | | | 13/16 | 15/16 | | | | |
| | Keralite FR-F IGU | | | | | 13/16 | 15/16 | | CAT II | | |
| 118N,118MN | Keralite Ultra | 60-90 | 2736 | 46.500 | 76 | 3/4 | 7/8 | 1/16 PVC Tape | CAT II | Temp. Rise | |
| 118W,118MW | Keralite Ultra IGU | 60-90 | 2736 | 46.500 | 76 | 1-1/4 | 1-3/8 | 1/16 PVC Tape | CAT II | Temp. Rise | |
| | Keralite Ultra HI IGU | | | | | 1-1/2 | 1-5/8 | | | | |
| 110,110B,115, 117M,118,118M | Pyran Star S, Crystal S | 60-90 | 100 | 12 | 33 | 3/16 | 1/4 | None | None | Temp. Rise | |
| | Pyran Star F, Crystal F | | | | | | | | CAT I & II | | |
| | Pyran Platinum F | | | | | 5/16 | 3/8 | | None | | |
| | Pyran Star L, Crystal L | | | | | | | | CAT I & II | | |
| | Pyran Platinum L | | | | | 3/16 | 1/4 | | None | | |
| | FireLite | | | | | | | | CAT I & II | | |
| | FireLite NT | | | | | | | | None | | |
| 110,110B,115, 117M,118,118M | FireLite Plus | | | | | 5/16 | 3/8 | | CAT I & II | | |
| | Pyran Star S, Crystal S | 60-90 | 100 | 15 | 33 | 3/16 | 1/4 | None | None | Non-Temp. Rise | |
| | Pyran Star F, Crystal F | | | | | | | | CAT I & II | | |
| | Pyran Platinum F | | | | | 5/16 | 3/8 | | None | | |
| | Pyran Star L, Crystal L | | | | | | | | CAT I & II | | |
| | Pyran Platinum L | | | | | 3/16 | 1/4 | | None | | |
| | FireLite | | | | | | | | CAT I & II | | |
| 110,110B,117M, 118,118M | FireLite NT | | | | | 5/16 | 3/8 | | None | Non-Temp. Rise | |
| | FireLite Plus | | | | | 3/8 | 1/2 | | CAT I & II | | |
| | Pyran Star S, Crystal S | 60-90 | 2736 | 36 | 76 | 3/16 | 3/8 | FG3000S90 | None | | |
| | Pyran Star F, Crystal F | | | | | | | | CAT I & II | | |
| | Pyran Platinum F | | | | | 5/16 | 7/16 | | None | | |
| | Pyran Star L, Crystal L | | | | | | | | CAT I & II | | |
| | Pyran Platinum L | | | | | | | | None | | |
| 110,110B,117M, 118,118M | FireLite | | | | | 3/8 | 1/2 | | CAT I & II | Non-Temp. Rise | |
| | FireLite NT | | | | | 5/16 | 7/16 | | None | | |
| | FireLite Plus | | | | | 3/8 | 1/2 | | CAT I & II | | |
| 110,110B,117M, 118,118M | WireLite | 60-90 | 3204 | 36 | 89 | 3/16 | 3/8 | FG3000S90 | None | Non-Temp. Rise | |
| | WireLite NT | | | | | | | | CAT I & II | | |
| | WireLite Plus | | | | | 5/16 | 7/16 | | None | | |
| 110,110B,117M, 118,118M | WireLite | 60-90 | 100 | 10 | 33 | 1/4 | Same | None | None | Temp. Rise | |
| | WireLite NT | | | | | | | | CAT I & II | | |
| | WireLite Plus | | | | | 1/4 | Same | | None | | |
| 110,110B,115, 117M,118,118M | WireLite | 60-90 | 100 | 12 | 33 | 1/4 | Same | None | None | Temp. Rise | |
| | WireLite NT | | | | | | | | CAT I & II | | |
| | WireLite Plus | | | | | 1/4 | Same | | None | | |
| 110,110B,115, 117M,118,118M | Pilkington Pyroshield Plus | 60-90 | 100 | 20 | 20 | 7/16 | 9/16 | FG3000S90 | CAT I | Non-Temp. Rise | |
| | Fireswiss Foam C40 | | | | | | | | CAT I | | |
| | WireLite NT | | | | | 7/16 | 9/16 | | CAT I | | |
| 110,110B,117M, 118,118M | WireLite | 60-90 | 100 | 36 | 89 | 1/4 | Same | None | None | Temp. Rise | |
| | WireLite NT | | | | | | | | CAT I & II | | |
| | WireLite Plus | | | | | 1/4 | Same | | None | | |
| 110,110B,115, 117M,118,118M | WireLite | 60-90 | 100 | 36 | 89 | 1/4 | Same | None | None | Temp. Rise | |
| | WireLite NT | | | | | | | | CAT I & II | | |
| | WireLite Plus | | | | | 1/4 | Same | | None | | |
| 110,110B,115, 117M,118,118M | WireLite | 60-90 | 100 | 36 | 89 | 1/4 | Same | None | None | Temp. Rise | |
| | WireLite NT | | | | | | | | CAT I & II | | |
| | WireLite Plus | | | | | 1/4 | Same | | None | | |
| 110,110B,115, 117M,118,118M | WireLite | 60-90 | 100 | 36 | 89 | 1/4 | Same | None | None | Temp. Rise | |
| | WireLite NT | | | | | | | | CAT I & II | | |
| | WireLite Plus | | | | | 1/4 | Same | | None | | |
| 110,110B,115, 117M,118,118M | WireLite | 60-90 | 100 | 36 | 89 | 1/4 | Same | None | None | Temp. Rise | |
| | WireLite NT | | | | | | | | CAT I & II | | |
| | WireLite Plus | | | | | 1/4 | Same | | None | | |
| 110,110B,115, 117M,118,118M | WireLite | 60-90 | 100 | 36 | 89 | 1/4 | Same | None | None | Temp. Rise | |
| | WireLite NT | | | | | | | | CAT I & II | | |
| | WireLite Plus | | | | | 1/4 | Same | | None | | |
| 110,110B,115, 117M,118,118M | WireLite | 60-90 | 100 | 36 | 89 | 1/4 | Same | None | None | Temp. Rise | |
| | WireLite NT | | | | | | | | CAT I & II | | |
| | WireLite Plus | | | | | 1/4 | Same | | None | | |
| 110,110B,115, 117M,118,118M | WireLite | | | | | | | | | | |



Underwriters Laboratories Listings

Listings below are for Positive Pressure Rated (UL10C) openings for Styles listed below. Neutral Pressure (UL10 B) listings are available by contacting Customer Service.

Door Types: Hollow Metal type, Composite type, and Wood Core type Fire Doors.

NOTE: The International Building Codes (IBC) no longer allows use of glass in doors that is not safety rated. The listings below includes glasses that are not safety rated. It is the Purchaser's responsibility to make sure the glass you are using is approved in the jurisdiction in which it will be installed. CPSC ratings are included for your information.

We can provide Fire Rated Frames that meet the requirements in UL's Fire Protection Rated Glazing Materials Category (KCMZ), or glazing which has approval for conformance to ANSI/UL 10B, ANSI/UL 10C, NFPA80, NFPA252, OR CAN/ULC S104. Contact us if you have a glass that we do not have listed.

| Frame Styles | Glass Type | Rating | Max. Size Sq. Inches | Max. Width | Max. Height | Glass Thickness | Pocket Thickness | Tape Required | CPSC Rating | Other Restrictions |
|--------------------------------|-------------------------|--------|----------------------|------------|-------------|-----------------|------------------|---------------|-------------|---------------------|
| 118W,118MW | Contraflam/Swissflam 90 | 90 | 3174 | 35.750 | 88.5625 | 1-7/16 | 1-9/16 | 1/16 PVC Tape | CAT II | Temp. Rise |
| 118N,118MN | Pyrostop 60-101 | 60 | 3724 | 41.625 | 89.750 | 3/4 | 15/16 | | | |
| 118W,118MW | Pyrostop 90-102 | 90 | | | | 1-7/16 | 1-9/16 | FG3000S90 | CAT I & II | Temp. Rise |
| 118N,118MN | SuperLite II-XL | 60 | 1296 | 54 | 54 | 7/8 | 1-1/8 | 1/8 PVC Tape | CAT I & II | Non-Temp. Rise |
| 118W,118MW | SuperLite II-XL** | 60 | 4952 | 116** | 116** | 1-1/8 | 1-3/8 | | | |
| 118W,118MW | SuperLite II-XL** | 90 | 4990 | 116** | 116** | 1-1/2 | 1-3/4 | 1/8 PVC Tape | CAT I & II | Non-Temp. Rise |
| 118W,118MW | Pyrobel-60 | 60 | 3855 | 44 | 87.625 | 1 | 1-1/4 | 1/8 PVC Tape | CAT I & II | Interior Temp. Rise |
| | Pyrobel-60 Exterior | | | | | 1-1/4 | 1-1/2 | 1/8 PVC Tape | CAT I & II | Exterior |
| 118W,118MW | Pyrobel-90 | 90 | 2916 | 36 | 61 | 1-3/8 | 1-5/8 | 1/8 PVC Tape | CAT I & II | Interior Temp. Rise |
| 110,110B,115, 117M,118,118M | Keralite FR-R | 180 | 100 | 10 | 33 | 3/16 | 1/4 | None | None | Temp. Rise |
| | Keralite FR-F | | | | | 5/16 | 3/8 | | CAT I & II | |
| | Keralite FR-L | | | | | 11/16 | 13/16 | 1/16 PVC Tape | CAT I & II | |
| 118N,118MN | Keralite FR-F IGU | 180 | 100 | 10 | 33 | 13/16 | 15/16 | | CAT I & II | Temp. Rise |
| | Keralite FR-L IGU | | | | | 3/4 | 7/8 | 1/16 PVC Tape | CAT II | |
| 118N,118MN | Keralite Ultra | 180 | 100 | 10 | 33 | 1-1/4 | 1-3/8 | | CAT II | Temp. Rise |
| 118W,118MW | Keralite Ultra IGU | 180 | 100 | 10 | 33 | 1-1/2 | 1-5/8 | | CAT II | Temp. Rise |
| | Keralite Ultra HI IGU | | | | | 3/16 | 1/4 | None | None | |
| 110,110B,115, 117M,118,118M | Pyran Star S, Crystal S | 180 | 100 | 12 | 33 | 5/16 | 3/8 | | CAT I & II | Temp. Rise |
| | Pyran Star F, Crystal F | | | | | 3/8 | | | None | |
| | Pyran Platinum F | | | | | 3/16 | 1/4 | | CAT I & II | |
| | Pyran Star L, Crystal L | | | | | 5/16 | 3/8 | | None | |
| | Pyran Platinum L | | | | | 3/8 | | | CAT I & II | |
| | FireLite | | | | | 3/16 | 1/4 | | None | |
| | FireLite NT | | | | | 5/16 | 3/8 | | CAT I & II | |
| 118W,118MW | FireLite Plus | 180 | 100 | 12 | 33 | 1 | 1-1/4 | 1/8 PVC Tape | CAT II | Temp. Rise |
| 118W,118MW | FireLite IGU | 180 | 100 | 12 | 33 | 1 | 1-1/4 | 1/8 PVC Tape | CAT II | Temp. Rise |

** SuperLite II-XL is limited to a Max. Width or Max. Height of 116" by AMS Tooling.

Conditions of UL Listings

1. Frames can be manufactured from either 18 GA. or 16 GA. Steel, Galvanized Steel, or Stainless Steel.
2. Mullions are UL Listed when installed using a single sheet of labeled glazing material.
3. Custom Shape Frames are UL Listed to 1296 in.² for 20-45 Minute Installations with no dimension greater than 54"; and to 100 in.² for 60-90 Minute Installations with maximum dimensions of 12" wide X 33" high. This includes Crosses, Triangles, Hexagons, etc.
4. Temperature Rise restrictions apply to 60, 90, and 180 Minute installations.
5. Veneer wrapped frames follow the same guidelines as non-veneered frames.
6. Door Light Frames manufactured for 1-3/8" to 2-1/4" thick doors can be labeled and used in appropriately labeled doors.
7. Hollow Metal Doors approved to use a clip system, in lieu of full perimeter channels, can use the AMS Hollow Metal Door Clips. See Page 9.

Conditions of UL Approvals

- Use of Glazing Tape when installing Door Light Frames requires the Frame to have a special glass pocket.
- All units listed on Page 5 with a rating of 20 Minute No Hose are not approved under the Canadian Standard.
- FireGlass 20, PyroSwiss 20, and SuperLite 20 are each available in thicknesses greater than 1/4" and require a special glass pocket.
- Multiple lites are ONLY allowed in doors approved for multiple lites and the combined total of visible glass light cannot exceed the maximum square inches or maximum width and height dimensions specified in those approvals.
- The Model #110 and Model #117M are limited to a maximum glass weight of 85 lbs. Please consider our Model #110B, #118, or #118M for heavier glass.



715-223-6324 | 715-223-3352
fax

411 West Spruce Street | Abbotsford, WI 54405-0485

www.AllMetalStamping.com

FOR STEEL DOORS

If the door is approved to use a clip system refer to Clip System below, otherwise reinforce the cutout per your **UL** or **WHI** procedure.

Refer to door manufacturer's installation instructions. If approved to use a clip system follow those instructions as to the number of clips required.

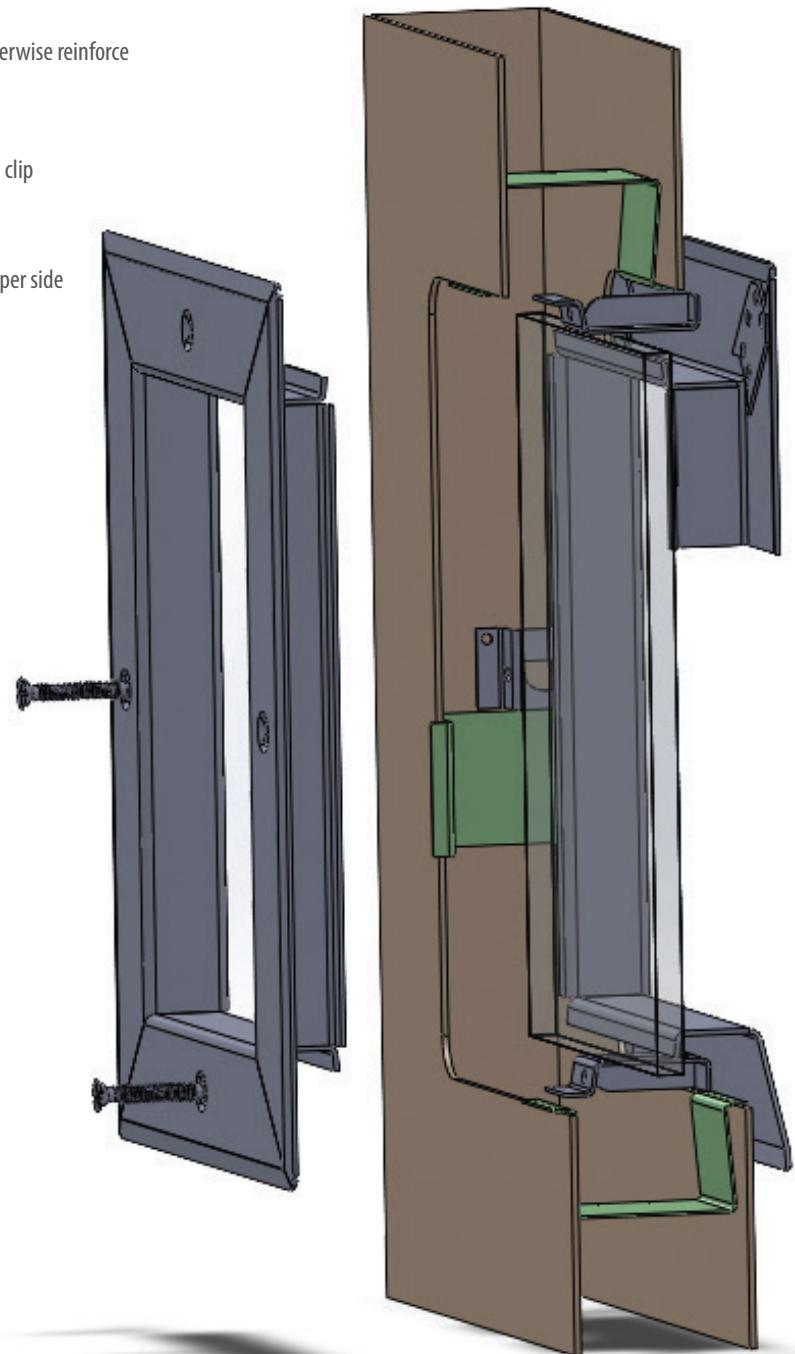
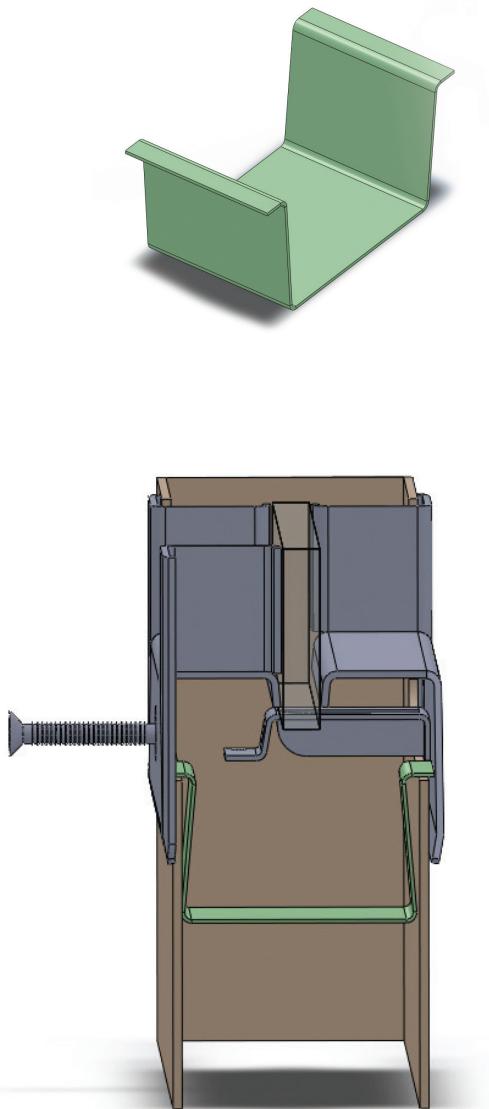
MINIMUM REQUIREMENTS

A minimum of 1 clip per side - centered. Any side over 50" requires 2 clips per side evenly spaced. More clips can be added to ensure sufficient strength.

DOOR THICKNESS

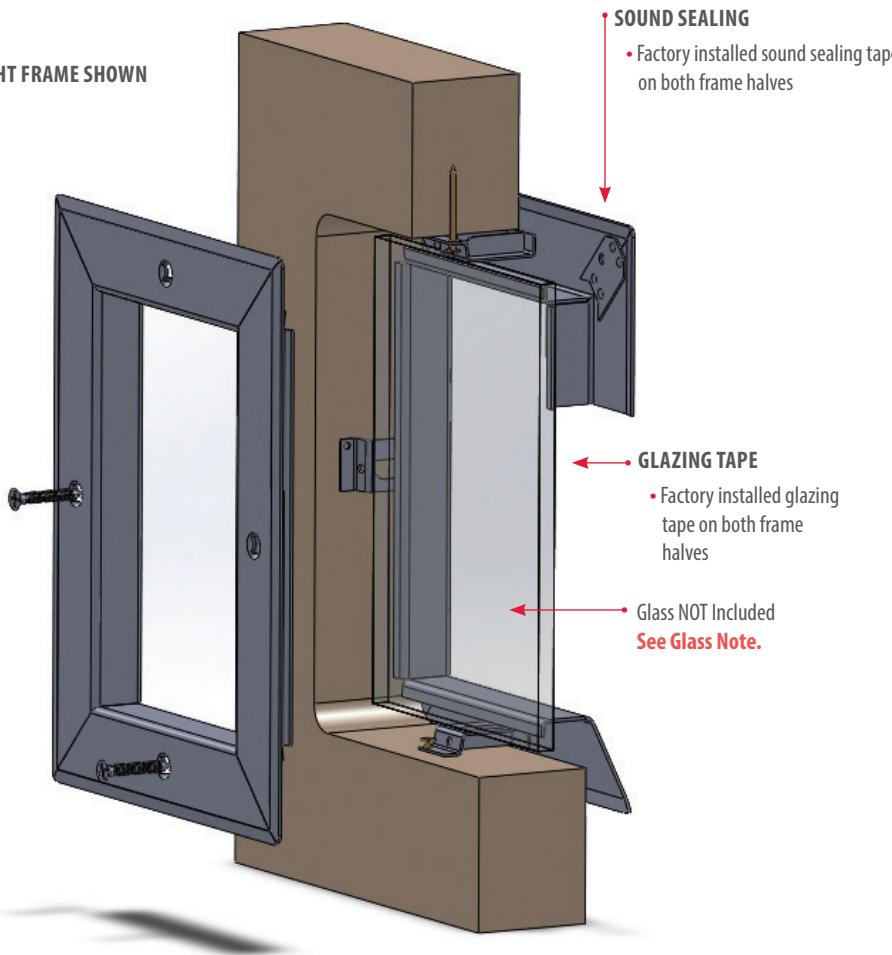
1 3/4" Doors ONLY.

AMS Part No. 1175-008



Sound Sealing Options

MODEL 110 LOW PROFILE DOOR LIGHT FRAME SHOWN



Sound Sealing Option for Door Light Frames

Many door products are evaluated for their ability to reduce the transmission of sound from one side to the other. A Sound Transmission Class (STC) rating is a method to quantify this sound reduction. A higher rating offers more sound reduction.

For doors with glass, this rating is based on the ability of the entire assembly to reduce sound transmission. An assembly includes the door, light frame, glass, door frame and gasket system. Variables in this assembly include door type and thickness along with glass size and thickness. Assemblies are often required to be fire rated, as well.

All Metal Stamping offers a factory installed sound sealing option for many of its door light frames. If a frame is required in an STC rated door assembly, the sound sealing option can improve the overall performance of the assembly.

Independent lab testing has shown that for STC rating in the 30s, the AMS sound sealing option can improve the rating by 3 points. Testing performed using a light frame with a 22"x 34" visible light.

Please refer to our website or catalog pages to select AMS door light frame that is appropriate for your application.

SOUND TRANSMISSION TEST PERFORMED AT ELEMENT MATERIAL TECHNOLOGY, ST. PAUL, MN ACCORDING TO ASTM E90(09) & E413(10)



Labeling Policy & Non-Fire Rated Glazing Recommendations

Labeling Policy

All Metal Stamping, Inc. labels frames which meet our UL Listings and Approvals. It is the End User's responsibility to ensure all components used in the openings meet or exceed the fire ratings required.

Use of glazing for which All Metal Stamping, Inc. does not have approval, or improper installation, voids our Fire Rating. All Door Light Frames and glazing combinations must be used in appropriately approved door assemblies. Interpretation of Building Codes may vary. Consult with the local Authority Having Jurisdiction (AHJ) to determine appropriate standards for your area. The International Building Codes (IBC) no longer allows non-safety rated glazing to be used in doors. It is the Purchasers responsibility to make sure the glass you are using is approved in the jurisdiction in which it will be installed.

Installation Notes:

1. Any unit used in an exterior application must be sealed around the outer perimeter of the frame as well as around the glass to protect from water infiltration. Follow Glass Manufacturer's Installation Instructions.
All Metal Stamping, Inc. will only stand behind frames used in exterior applications:
 - a. If the product is NOT directly exposed to sunlight, corrosive environments, or direct precipitation. The product can be manufactured from Galvanized material.
 - b. If the product is exposed to sunlight, precipitation, or coastal environments the product must be manufactured from Stainless Steel.
 - c. Our frames are NOT approved for corrosive environments.
2. Listed glasses that maintain a temperature rise of no more than 250° F above ambient are acceptable for Temperature Rise rated Fire Doors. Use of these glasses in sizes exceeding 100 in.² in 60 or 90 Minute Fire Rated Openings require prior approval of the Authority Having Jurisdiction (AHJ). Ensure glazing is approved before installing.

Non-Fire Rated Glazing Recommendations

We recommend glazing tape be used with all non-fire rated installations. Add allowance for glazing tape to the glass thickness to determine proper glass pocket.

Example: 1/16" glazing tape both sides + 1/4" glass = 3/8" glass pocket.

Always evenly tighten screws around the perimeter of the frame to prevent glass breakage.

SEALED INSULATED GLASS: Insulated glass sometimes has a seal up to 1/2" wide.

Use our Style #118 or #118M to ensure this sealer is hidden from view upon installation.

Top Coating Instructions for Fire Door Hardware

STANDARD FINISH: Beige, Gray, or Dark Bronze polyester powder coating. These coatings are tough, corrosion resistant, and provide a very durable surface. Special colors are lacquer, industrial enamel, or powder coatings dependent on color.

TOP COATING FIRE DOOR HARDWARE: Many top coats have good compatibility with powder coatings. Exceptions are some enamels, many latex, and water based paints. It is necessary that the surface be thoroughly sanded prior to the application of **any** top coat. Make sure the surface is clean and dry. To ensure compatibility always **test paint a small area** on a non-visible portion of the product and check for proper adhesion **before** proceeding. Final finish of the product is the responsibility of the purchaser. We do not warrant the suitability of the product for any particular application.

Limited Warranty

ALL METAL STAMPING, INC. WARRANTS ALL DOOR HARDWARE TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP.

Purchaser assumes responsibility to verify and determine that color, finish, and quality of materials will meet required specifications. No claim shall be allowed unless the Purchaser gives notice to manufacturer within 30 days from the date materials are received.

If color match, finish quality, or glass and cutout fit are not satisfactory, DO NOT INSTALL. UPON INSTALLATION THIS WARRANTY ENDS. Manufacturer's only obligation shall be replacement, refinishing, or refund of the original purchase price, at our option. THESE ARE THE EXCLUSIVE REMEDIES PROVIDED, AND ALL METAL STAMPING, INC. SHALL NOT BE LIABLE FOR ANY OTHER DAMAGES, INCLUDING ANY DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES.

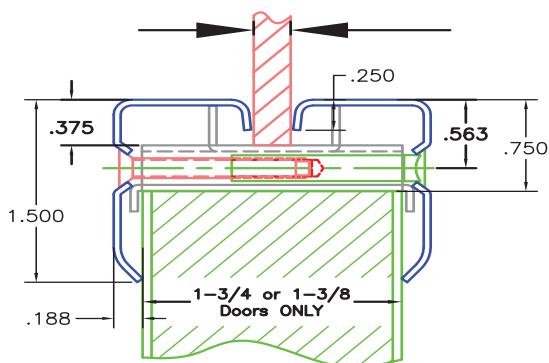
This warranty does not apply to door hardware which has been abused, altered, improperly installed, used with incompatible or inappropriate components. (EX. Oversized Glass), exposed to corrosive environments, or environments for which the product is not intended. No material shall be returned without prior authorization. This warranty extends only to the original Purchaser who is buying the hardware from All Metal Stamping, Inc. for purposes of resale or use in the ordinary course of their business.



For Styles other than
the #110 or #110B

Frames for Odd Thickness Door or Glass Cross Section Views

For all Styles Pocket Size must
include glazing allowance



STYLE #115

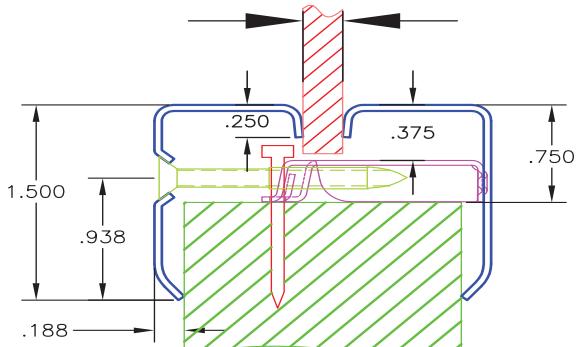
ORDER INFORMATION:

Order size = Inside dimension of frame, (W+H)

Cutout size = Order size + 1½"

Glass size = Order size + ¾" (Tolerance +0/-1/16")

Frame includes 2 Frame & Glass Supports



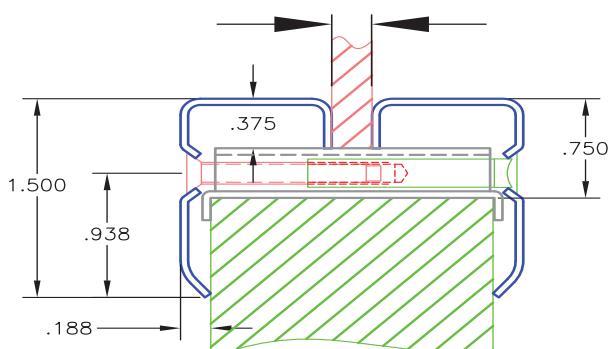
STYLE #117M

ORDER INFORMATION:

Order size = Inside dimension of frame, (W+H)

Cutout size = Order size + 1½"

Glass size = Order size + ¾" (Tolerance +0/-1/16")



STYLE #105M

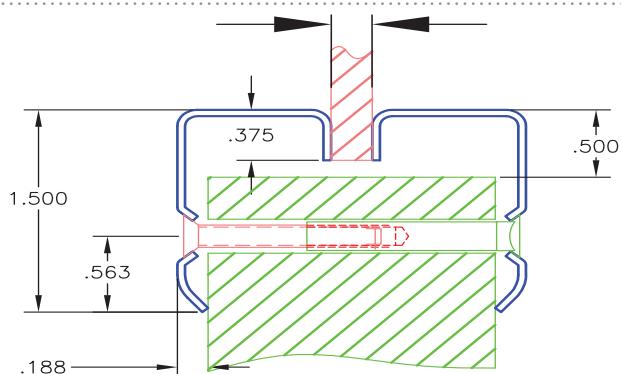
ORDER INFORMATION:

Order size = Inside dimension of frame, (W+H)

Cutout size = Order size + 1½"

Glass size = Order size + ¾" (Tolerance +0/-1/16")

Frame includes 2 Frame & Glass Supports



STYLE #105

ORDER INFORMATION:

Order size = Inside dimension of frame, (W+H)

Cutout size = Order size + 1"

Glass size = Order size + ¾" (Tolerance +0/-1/16")

Frames for Odd Thickness Door or Glass Cross Section Views

For Styles other than
the #110 or #110B

**For all Styles Pocket Size must
include glazing allowance**

STYLE #118M

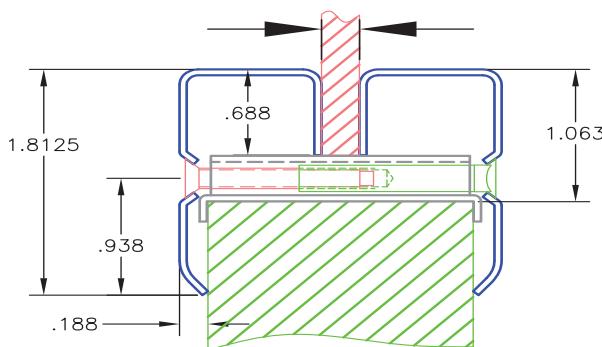
ORDER INFORMATION:

Order size = Inside dimension of frame, (W+H)

Cutout size = Order size + $2\frac{1}{8}$ "

Glass size = Order size + $1\frac{5}{16}$ "

Frame includes 2 Frame & Glass Supports



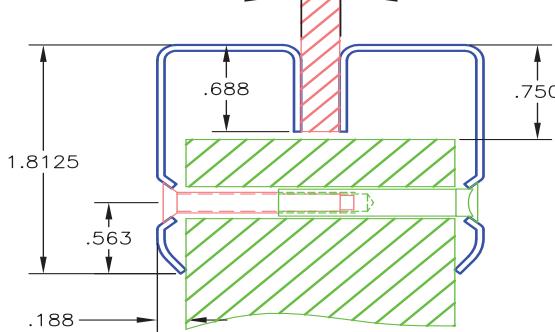
STYLE #118

ORDER INFORMATION:

Order size = Inside dimension of frame, (W+H)

Cutout size = Order size + $1\frac{1}{2}$ "

Glass size = Order size + $1\frac{3}{8}$ "



STYLE #118MN

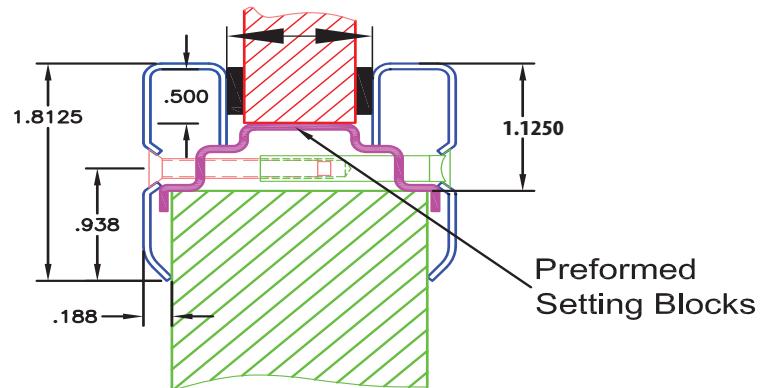
ORDER INFORMATION:

Order size = Inside dimension of frame, (W+H)

Cutout size = Order size + $2\frac{1}{4}$ "

Glass size = Order size + 1"

This Unit requires Setting Blocks for Proper Installation



STYLE #118N

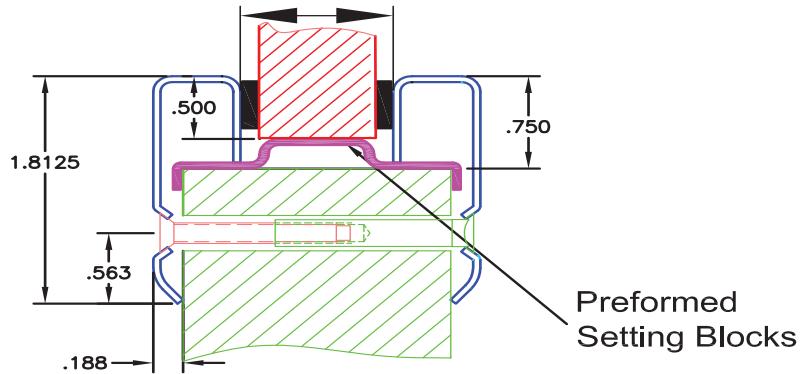
ORDER INFORMATION:

Order size = Inside dimension of frame, (W+H)

Cutout size = Order size + $1\frac{1}{2}$ "

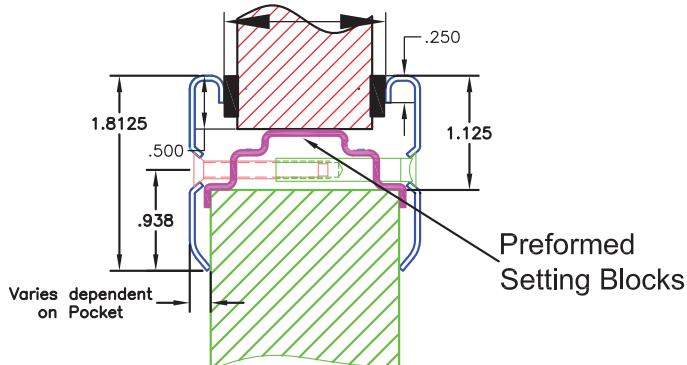
Glass size = Order size + 1"

This Unit requires Setting Blocks for Proper Installation



For Styles other than
the #110 or #110B

Frames for Odd Thickness Door or Glass Cross Section Views



**For all Styles Pocket Size must
include glazing allowance**

STYLE #118MW

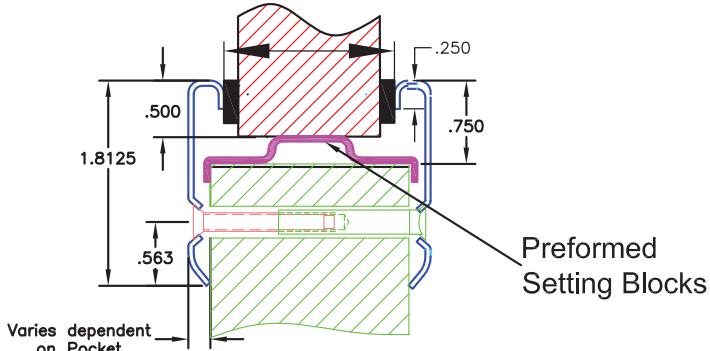
ORDER INFORMATION:

Order size = Inside dimension of frame, (W+H)

Cutout size = Order size + $2\frac{1}{4}$ "

Glass size = Order size + 1"

This Unit requires setting blocks for proper installation.



STYLE #118W

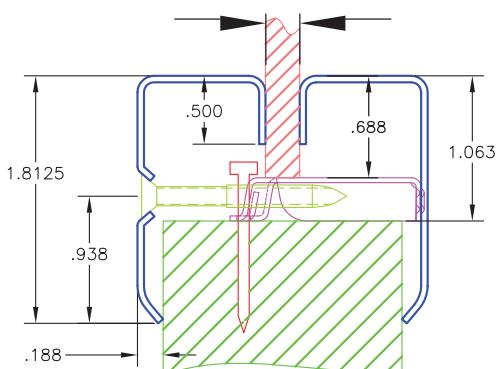
ORDER INFORMATION:

Order size = Inside dimension of frame, (W+H)

Cutout size = Order size + $1\frac{1}{2}$ "

Glass size = Order size + 1"

This Unit requires setting blocks for proper installation.



STYLE #118MSP (PATENT PENDING)

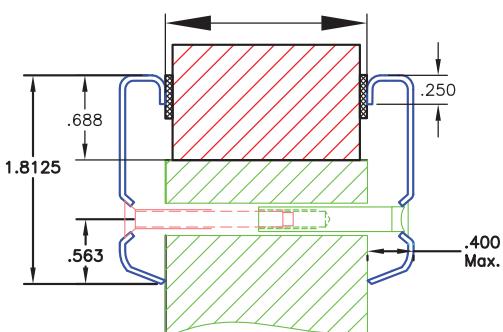
ORDER INFORMATION:

Order size = Inside dimension of frame, (W+H)

Cutout size = Order size + $2\frac{1}{8}$ "

Glass size = Order size + $1\frac{5}{16}$ "

NO FIRE RATING



Option Available for Sheet Metal Screws

STYLE #118D

ORDER INFORMATION:

Order size = Inside dimension of frame, (W+H)

Cutout size = Order size + $1\frac{1}{2}$ "

Glass size = Order size + $1\frac{3}{8}$ "

NO FIRE RATING

Frames with Mullions use a Single Sheet of Glass and have a Divided Light Appearance

OUR LOWEST COST OPTION

3/4" Painted Aluminum Tape On Mullions

1. DESCRIPTION

- 3/4" Square Aluminum Tubing with milled flush intersections
- Install directly to glass with double backed tape included. Attaches very securely to glass (no gaps). High quality - lowest cost. Mullions are shipped knocked down for installation at the time the frames are installed, (see page 17).

2. PRICING

- Mullions are priced on a multiplier basis depending on size and complexity of the grid. Please call for Quote.
- Veneer wrapped Mullions are available but carry NO Fire Rating. Call for Quote.

3. LIMITATIONS FOR MULLIONS:

- All Styles 1/4" maximum glass pocket for a 1-3/4" Door. For a 2-1/4" Door the maximum glass pocket is 3/4" Minimum Door thickness is 1-3/4".

5/8" Painted Steel Welded Mullions

1. DESCRIPTION

- Door Light Frame with wire welded mullions to give a divided light appearance.
- Mullions - 18 GA.- 5/8" square steel tubing.

2. PRICING

- Mullions are priced on a multiplier basis depending on size and complexity of the grid. Please call for Quote.
- For Galvanized or Stainless Steel applications 1"-3" Formed Mullions must be used. Please request information.
- Mullions are available welded into a 3/4" Tube SURROUND. Call for Quote.

3. LIMITATIONS FOR MULLIONS: Cross mullions have 1/16" offset to conceal tube edge radii, (see page 18).

- #110/#110B w/Cross Mullions: 1/4" maximum glass pocket for a 1-3/4" Door. For a 2-1/4" Door the maximum glass pocket is 3/4". Minimum Door thickness is 1-3/4".
- #110/#110B w/One Way Mullions: 3/8" maximum glass pocket for a 1-3/4" Door. For a 2-1/4" Door the maximum glass pocket is 7/8".
- Welded mullions cannot be veneer wrapped.

1" to 3" Steel Formed Mullions

DESCRIPTION

- Door Light Frame with formed mullions with a face dimension of 1" to 3" giving a divided light appearance. Available in: 18 GA.
- Painted Cold Rolled Steel, Painted Galvanized, or Stainless Steel, (see page 19).
- Wire welded to frame from inside mullions to provide a clean appearance.
- Mullions are priced on a multiplier basis depending on size and complexity of the grid. Please call for information and a Quote.
- Maximum glass pocket in 1-3/4" door is 3/4" for styles 110/110B.
- Maximum glass pocket for other styles is 1" for 1-3/4" door.
- Welded mullions cannot be veneer wrapped.

UL Listing

Door Light Frames with Aluminum or Steel Mullions carry the same **UL Fire Rating** as our Standard Frames when installed using a single sheet of listed glazing material. Aluminum mullions can be veneer wrapped (see page 27) but carry **NO** Fire Rating. Steel mullions cannot be veneered.



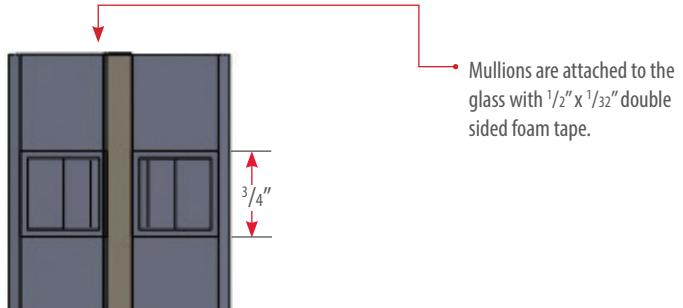
715-223-6324

715-223-3352
fax

Frame Style #110 Shown

3/4" Painted Aluminum Tape on Mullions

CAUTION: Mullions cannot be adjusted after tape makes contact with glass



ORDER INFORMATION:

Order size = Frame inside dimension

Door Cutout size = Order size + 1 1/2"

Glass size = Order size + 3/4"

MATERIAL:

Extruded Aluminum 3/4" square

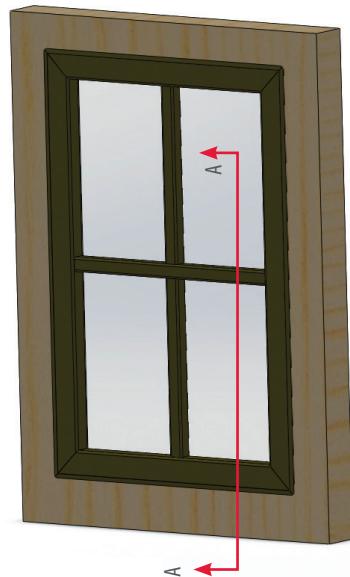
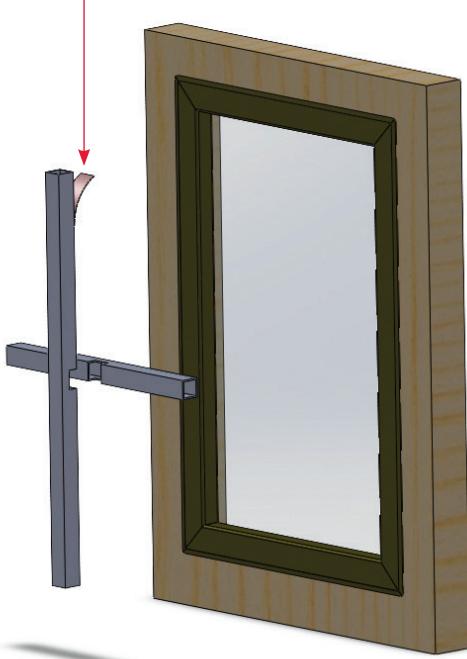
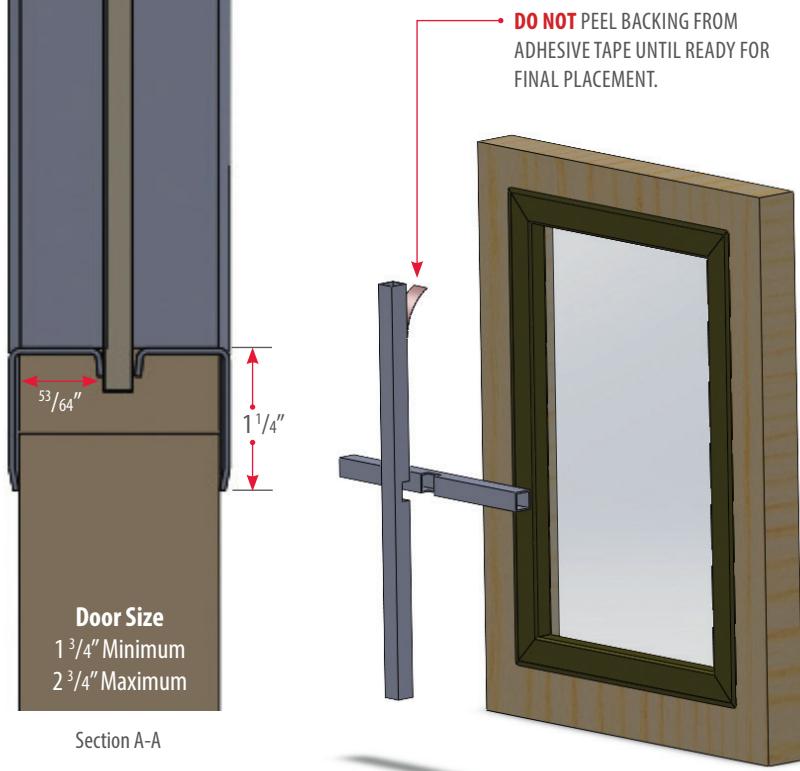
FOR 1 3/4" DOOR:

One-way mullion - glass maximum 3/8"

Cross mullions - glass maximum 1/4"

GLASS NOTE:

Glass must be single sheet of Listed Glazing Material to maintain fire rating.



5/8" Painted Steel Welded Mullions

Frame Style #110 Shown

ORDER INFORMATION:

Order size = Frame inside dimension

Door Cutout size = Order size + 1 1/2"

Glass size = Order size + 3/4"

MATERIAL:

18 GA. (.045) x 5/8" square steel tubing.

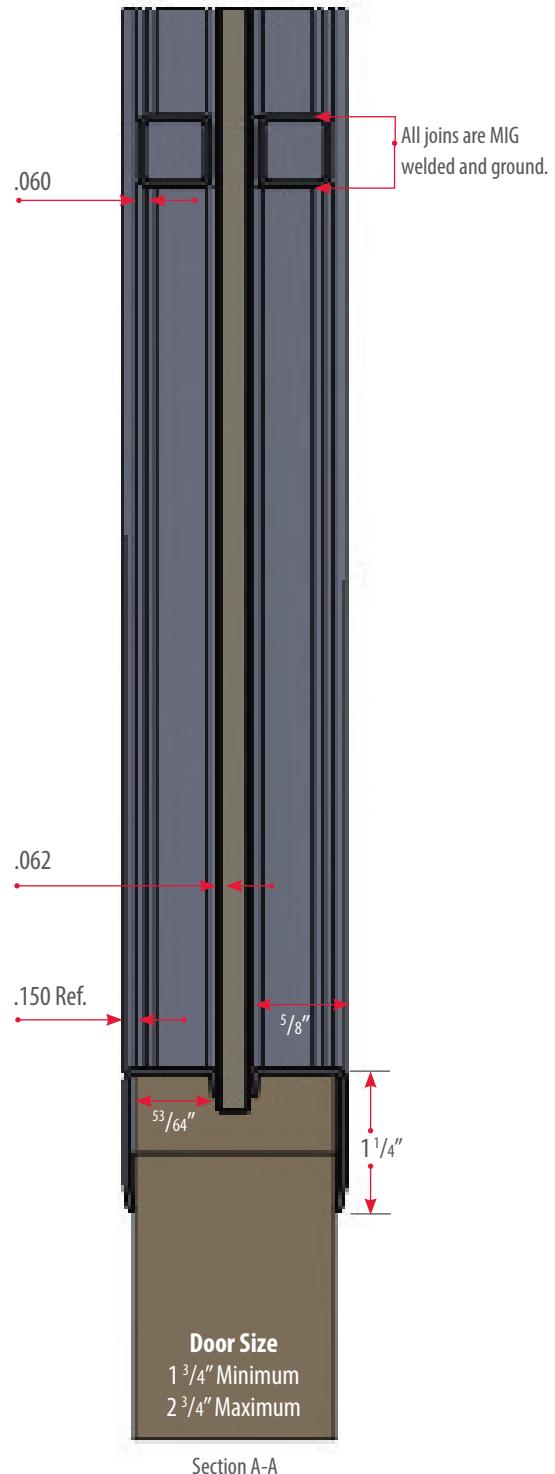
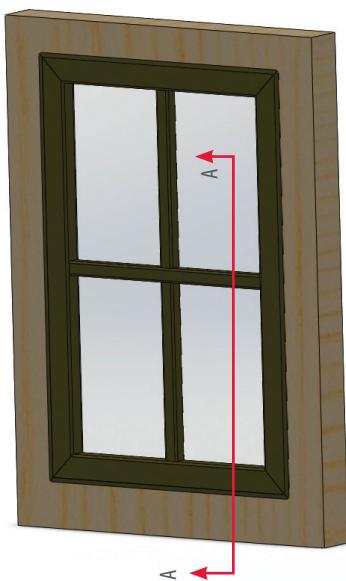
FOR 1 3/4" DOOR:

One-way mullion - glass maximum 3/8"

Cross mullions - glass maximum 1/4"

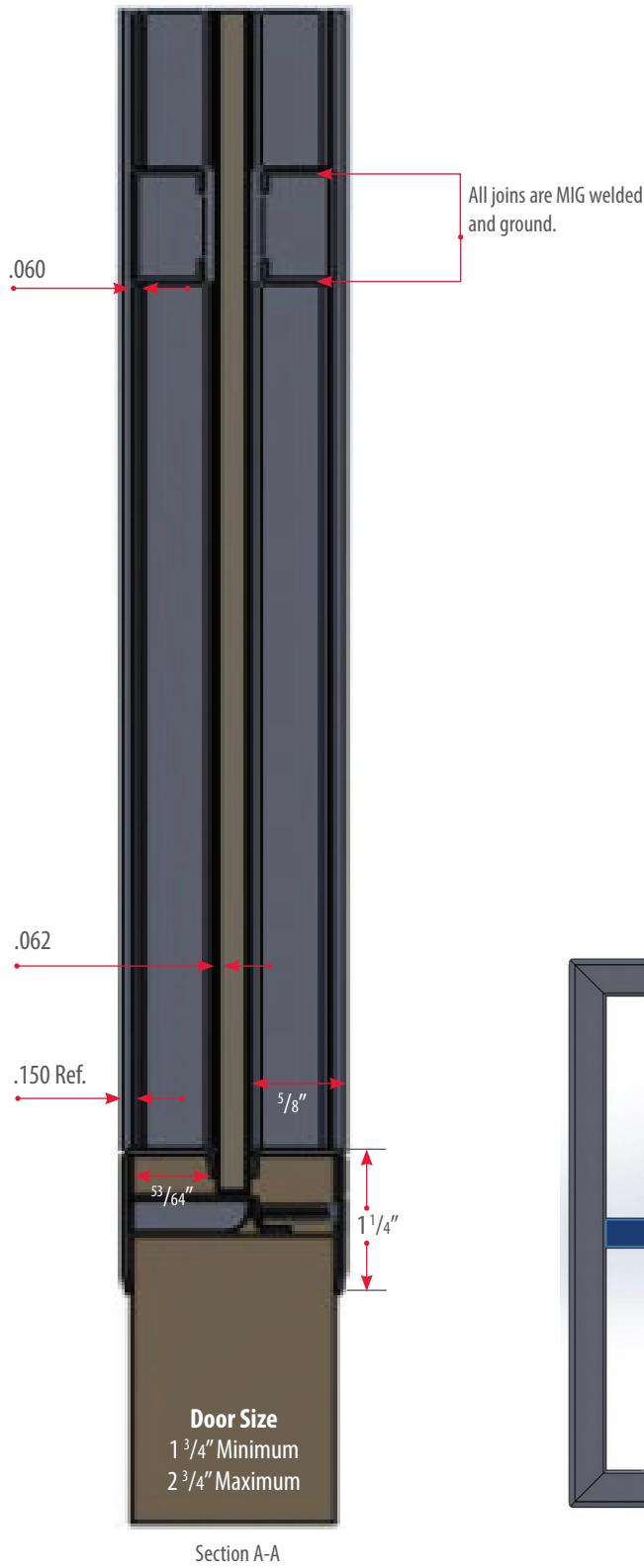
GLASS NOTE:

Glass must be single sheet of Listed Glazing Material to maintain fire rating.

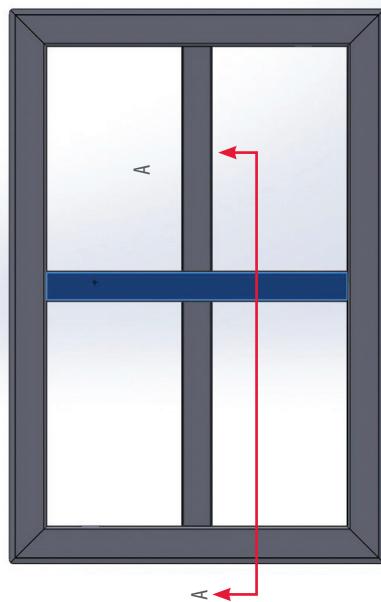


Section A-A



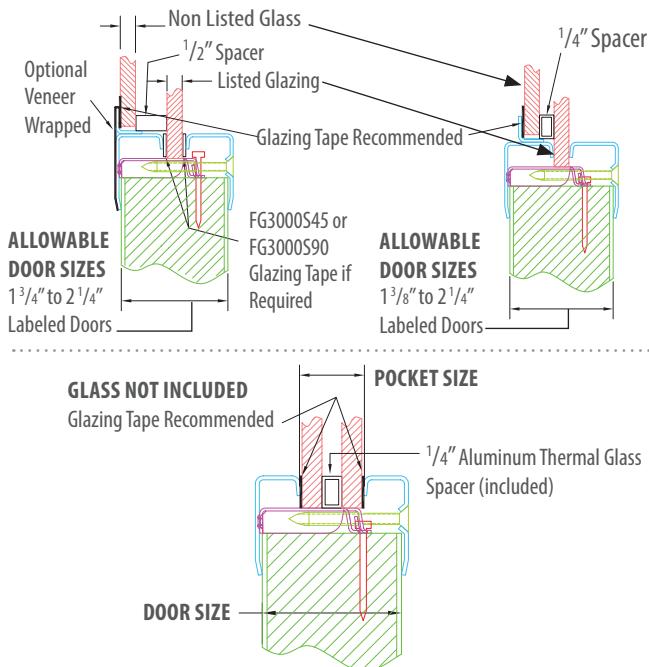
**DESCRIPTION**

- Door Light Frame with formed mullions with a face dimension of 1" to 3" giving a divided light appearance.
- Available in: 18 GA.
- Painted Cold Rolled Steel, Painted Galvanized, or Stainless Steel.
- MIG welded to frame from inside mullions to provide a clean appearance.
- Maximum glass pocket in 1-3/4" door is 3/4" for styles 110/110B. Consider 117M for thicker glass.
- Maximum glass pocket for other styles is 1" for 1-3/4" door.
- Welded mullions cannot be veneer wrapped.
- Mullions are priced on a multiplier basis depending on size and complexity of the grid.
- Please call 715-223-6324 for additional information or a Quote.



Double or Triple Glazed Frames

GLASS NOTE: See "Non-Fire Rated Glazing Recommendations" on page 11.



Pricing is available by
Email or Fax

Cross Section Views

STYLE #110-D2 SHOWN (PATENT NO. 8,156,699 B2) Double Glazed

STYLE #110/#110B-T-D2 (PATENT NO. 8,156,699 B2) Triple Glazed

ORDER INFORMATION:

Order size = Visible Dimensions of Center Pane, (W+H)

Glass size = Center Pane Order size + $\frac{3}{4}$ " | Outer Pane(s) Order size - $\frac{1}{4}$ "

Cutout size = Order size + $1\frac{1}{2}$ "

UL Listed 20, 45, and 60 Minutes when seated pane is listed glazing material.

The outer pane can be listed or non-listed glazing material.

STYLE #110-D1 DOUBLE GLAZED SHOWN (PATENT NO. 8,156,699 B2)

ORDER INFORMATION:

Order size = Visible Dimensions of Center Pane, (W+H)

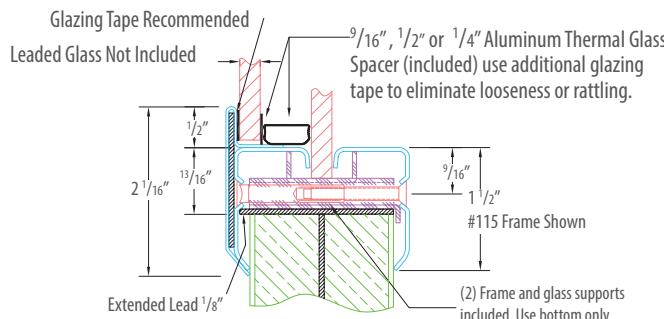
Cutout size = Order size + $\frac{3}{4}$ "

Glass size = Order size + $1\frac{1}{2}$ "

NO Fire Rating

Frames for Lead Lined Doors

GLASS NOTE: See "Non-Fire Rated Glazing Recommendations" on page 11.



STYLE #115-L1 for doors leaded under the skins or down the center (PATENT NO. 4,550,542)

ORDER INFORMATION:

Order size = Visible Dimensions of Center Pane, (W+H) MINIMUM WIDTH = 2 1/2" MAXIMUM WIDTH OR HEIGHT = 33"

Glass size = Center Pane Order size + $\frac{3}{4}$ " | Outer Pane(s) Order size - $\frac{3}{16}$ "

Cutout size = Order size + $1\frac{5}{8}$ "

UL Listed 20, 45, and 60 Minutes when seated pane is listed glazing material and the outer pane is Leaded Glass

STYLE #115-L2 or #105M-L2 for doors leaded under the skins (PATENT NO. 4,550,542)

ORDER INFORMATION:

Order size = Visible Dimensions of Center Pane, (W+H)

Cutout size = Order size + $1\frac{5}{8}$ "

Glass size = Order size + $\frac{3}{4}$ "

NO Fire Rating

STYLE #115-L3 for doors leaded down the center (PATENT NO. 4,550,542)

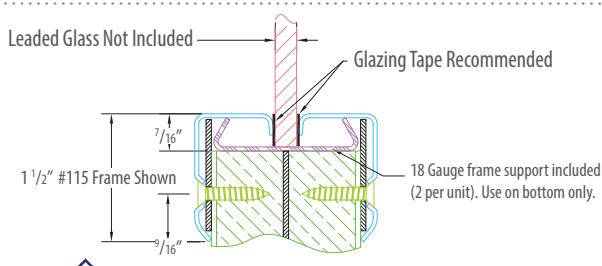
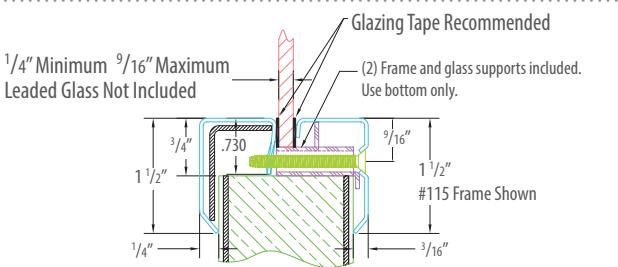
ORDER INFORMATION:

Order size = Visible Dimensions of Center Pane, (W+H)

Cutout size = Order size + $\frac{7}{8}$ "

Glass size = Order size + $\frac{3}{4}$ "

NO Fire Rating



**Stock Size Frames ship the next business day with NO up charge.
Subject to management approval.**

Standard and “Quick Ship” Services

Please specify shipdate on each order.

Orders are accepted for Quick Ship Service based on our Production Schedule and regular business hours listed on page 28. This is **NOT** a guaranteed service.

DOOR LIGHT FRAMES - STYLE #110

#110/#110B Style Frames manufactured for 1-3/4" Doors with 1/4" glass pocket. Beige, Gray, or Dark Bronze polyester powder coating.

STANDARD SERVICE: Your order will ship 7-10 business days after the date your order is received with NO up charges. Veneer product is available on 7-10 day service subject to our Production Schedule and availability of the veneer. See our website www.AllMetalStamping.com for Veneer Species available. Call for Quote.

5 DAY SERVICE: Orders received before 1 P.M. CST/CDT will ship 5 business days following that date with a 5% Up Charge per Standard Item. Orders can include fractional and sizes from 3" to 72".

3 DAY SERVICE: Orders received before 1 P.M. CST/CDT will ship 3 business days following that date with a 10% Up Charge per Standard Item. Orders can include fractional and sizes from 3" to 60".

Special Service for All Frame Styles manufactured for Odd Thickness applications is available at an additional charge dependent on our Production Schedule. If your order is accepted for 5 DAY QUICK SHIP SERVICE there will be a 15% Up Charge per Item. If your order is accepted for 3 DAY QUICK SHIP SERVICE there will be a 20% Up Charge per item.

EDGE & ASTRAGAL SETS

Items are manufactured for 1-3/4" & 1-13/16" doors with standard leg dimensions and standard material requirements. Machining is as shown on AMS templates.

STANDARD SERVICE: Your order will ship 7-10 business days after the date your order is received with NO up charges. Veneer product is available on 7-10 day service subject to our Production Schedule and availability of the veneer. See our website www.AllMetalStamping.com for Veneer Species available. Call for Quote.

5 DAY SERVICE: Orders received before 1 P.M. CST/CDT will ship 5 business days following that date with a 5% Up Charge per Item. Machined and Non-Machined – includes Channels and Sets shown on Page 23 & 24. Any length to 120".

3 DAY SERVICE: Orders received before 1 P.M. CST/CDT will ship 3 business days following that date with a 15% Up Charge for Machined items and 10% Up Charge for Non-Machined items. Includes Channels and Sets shown on Page 23 & 24. Any length to 120".

Special Service is available for special machining, non-standard dimensions and for "T" "Z", and Flat Astragals; and includes "L" channels and Hinge Edge & Lock Edge Protectors. Availability of Special Service is dependent on our Production Schedule. If your order is accepted for 5 DAY QUICK SHIP SERVICE there will be a 15% Up Charge per Item. If your order is accepted for 3 DAY QUICK SHIP SERVICE there will be a 20% Up Charge per Item.

Channels with Electric Strikes will require 12 business days to manufacture and are not available for Quick Ship Service.

NOTE: An AMS Machining Template must be completed for all machined items. Call for further details. Templates are available on our website www.AllMetalStamping.com

Stock Size Frame List Style #110 Low Profile Door Light Frames

Stock Service Must be Requested.
If Accepted, Orders Ship the Next
Business Day at NO Up Charge.

Orders are accepted for Quick Ship Service
based on our Production Schedule and
regular business hours listed on page 28.
This is NOT a guaranteed service.

| ORDER SIZE Width X Height | EXPOSED GLASS Sq. Inches | CUTOUT SIZE Width X Height |
|------------------------------|-----------------------------|-------------------------------|
| 3 X 33 | 99 | 4-1/2 X 34-1/2 |
| 4 X 24 | 96 | 5-1/2 X 25-1/2 |
| 4 X 25 | 100 | 5-1/2 X 26-1/2 |
| 5 X 20 | 100 | 6-1/2 X 21-1/2 |
| 6 X 30 | 180 | 7-1/2 X 31-1/2 |
| 10 X 10 | 100 | 11-1/2 X 11-1/2 |
| 22 X 28 | 616 | 23-1/2 X 29-1/2 |
| 22 X 30 | 660 | 23-1/2 X 31-1/2 |
| 24 X 30 | 720 | 25-1/2 X 31-1/2 |

PROVISIONS

1. All Stock Orders are pending approval of the General Manager based upon current orders in process.
2. Stock Orders received before 1 P.M. CST/CDT will ship the next business day at NO up charge if all other conditions are met.
3. Stock Orders are limited to 50 Units, orders over 50 Units will require additional manufacturing time.
4. Please DO NOT MIX stock items and longer delivery items on the same order. You must request Stock Service or we will assume your order can be processed under our Regular Service.
5. Stock Door Light Frames are manufactured for 1-3/4" Doors with 1/4" Glazing Pocket and are painted with Beige polyester powder coating ONLY.

Stock Orders no longer need to be ordered in Box Quantity. You can order 1 to 50 Units per Order. If you have a larger order please contact us and we will provide you with a Ship Date.

Pricing is the same as shown on Price Table in the Price Guide. Please request a Price Guide which we can provide to you by email.



Edge and Astragal sets are Listed to 90 Minute UL.

Double Edge sets are Listed to 90 Minute UL.

Listed under both Neutral and Positive Pressure Standards.



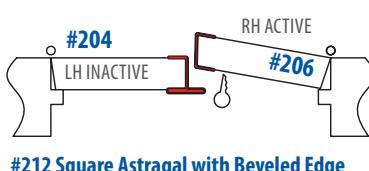
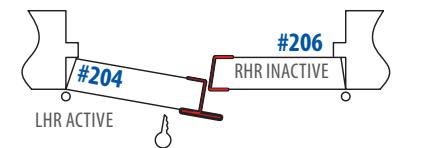
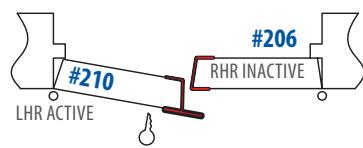
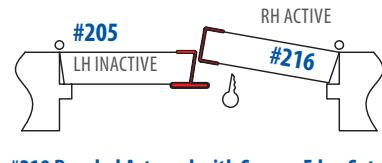
OTHER ITEMS

- Lead Lined Astragals
- Dutch Door and Transom Channels - #222
- Dutch Door Shelves
- "T", "Z", and Flat Astragals
- Hinge Edge and Lock Edge Protectors
- Aluminum Door Flashings
- Standard Finish is Beige, Gray or Dark Bronze Powder Paint
- All Bevels are $\frac{1}{8}$ " in 2"
- Punched and coined for #8 x $\frac{3}{4}$ Phillips Flat Head Screws (included)
- Hole Centers 12" or less, 3 1/2" Maximum from Ends and Machined Openings
- AMS Machining Templates must be completed for each Machined Item (forms available on website)
- All Items Available in Stainless Steel
- Veneer Wrapping Available

UL Listed Edge and Astragal Sets

UL Listed in Steel and Stainless Steel.

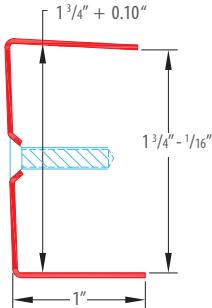
UI Listed with Veneer Wrapping - Neutral and Positive Pressure.



Edge and Astragal Specifications

Pricing is available by
Email or Fax

Standard Edges are 20 GA. (.035) CRS Astragal Flanges are 16 GA. (.062) CRS



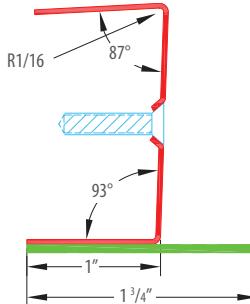
#206 Beveled Edge (shown)

#216 Square Edge (no bevel)

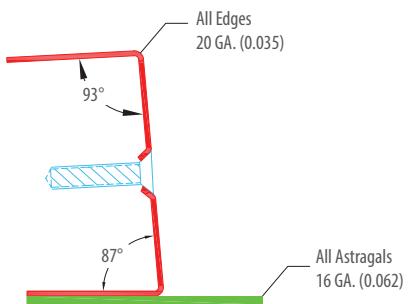
#227 Beveled Edge Machined w/Strike open to low side of bevel

#231 "L" Shaped Lock Edge Protector - Beveled

#233 "L" Shaped Lock Edge Protector - Square



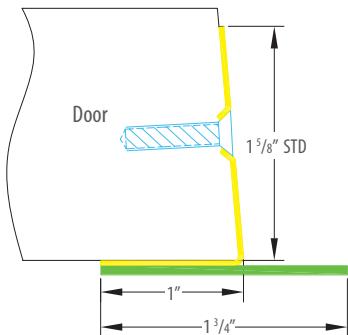
#205 Standard Beveled Astragal



#210 Reverse Beveled Astragal

#204 Square Astragal (No Bevel)

"T" (18 Ga.), "Z" (16 Ga.) and Flat Astragals (14 Ga.)

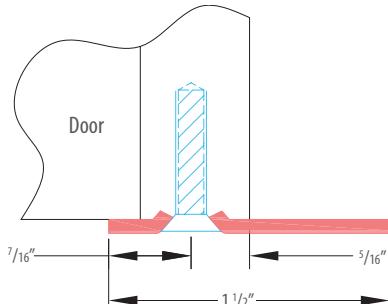


18 GA. (.048) CRS Edge / 16 GA. (.062) Astragal

#229 "T" Astragal - Reversed Bevel (shown)

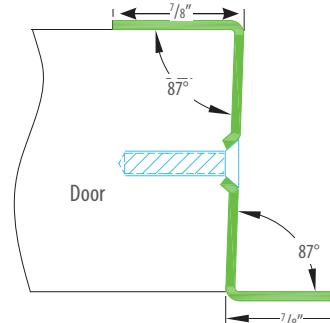
#213 "T" Astragal - Beveled

#214 "T" Astragal - Square



14 GA. (.074) CRS

#215 Flat Astragal



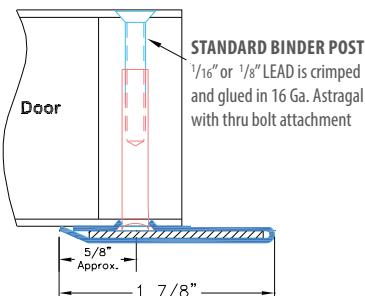
16 GA. (.062) CRS Standard

#238 "Z" Astragal - Beveled (shown)

#239 "Z" Astragal - Reverse Bevel

#237 "Z" Astragal - Square

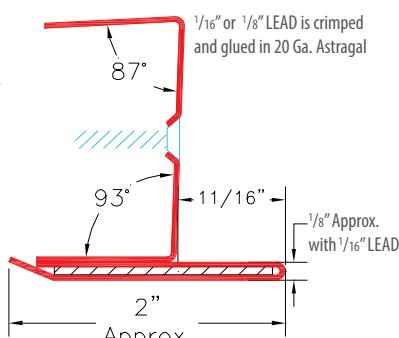
Lead Lined Astragals



18 GA. (.048) CRS Edge Standard

#236 Lead Lined Flat Astragal
(no fire ratings)

UL Listed for Steel Doors ONLY



#205L Lead Lined Astragal Standard Bevel (shown)

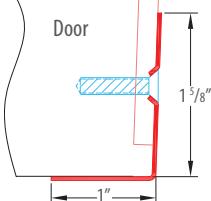
#204L Lead Lined Astragal Square (no bevel)

#210L Lead Lined Astragal Reverse Bevel

UL Listed to 90 minutes

Hinge Edge Protectors

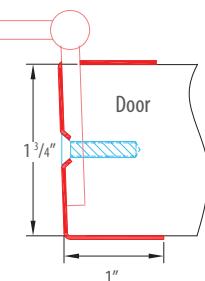
Punchouts for
4 1/2" or 5"
Hinge Standard



#232 "L" Shaped - Beveled

#235 "L" Shaped - Square

Available in:
20 GA. CRS painted
20 GA. or 18 GA. SS



#230 "U" Shaped - Beveled

#234 "U" Shaped - Square





UL Ratings for Door Edge & Astragal

Astragal & Edges on pages 23 & 24, are approved for use on Wood or Plastic faced doors rated up to 90 Minutes and Hollow Metal, Steel covered composite doors rated up to 3 hours.

Exception: Style #236 Lead Lined Flat Astragals for use on Steel Doors up to 3 hours.

Material: 20, 18, or 16 GA. Steel, Galvanized Steel, or Stainless Steel.

Exceptions: 1. Style #215 Flat Astragal 14 GA. Standard.

2. Style #236 Lead Lined Flat Astragal 18 GA. ONLY.

3. Styles #237, #238, and #239 "Z" Astragals 16 GA. Standard.

4. Styles #213, #214, and #229 "T" Astragals 18 GA. Standard.

Astragal Overlap Lengths: $\frac{1}{2}$ " to $3\frac{1}{2}$ " Maximum.

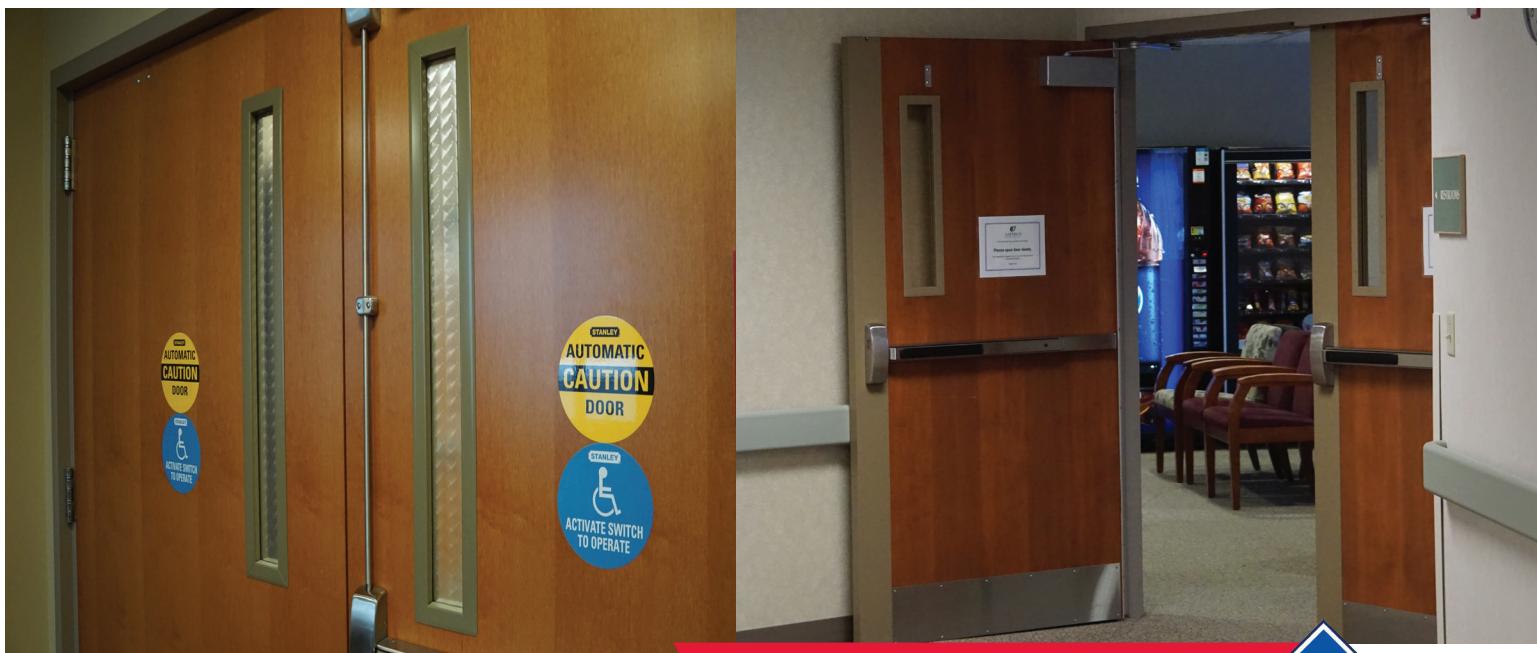
Leg Lengths: Can vary between $\frac{1}{2}$ " to $3\frac{1}{2}$ ".

Exceptions: Styles 231, 232, 233, 235, 213, 214, 229, 237, 238, 239 - $\frac{1}{2}$ " to 2" Maximum.

Door Thicknesses: $1\frac{3}{8}$ " to $2\frac{1}{4}$ " thick doors up to 120" in length.

Lead Lined: Lead thickness can vary from $\frac{1}{16}$ " to $\frac{3}{8}$ ".

Veneer wrapped: All Styles approved to be veneer wrapped up to 90 Minute Neutral and Positive Pressure.



Concealed Vertical Rod 5" Metal Channels

MATERIAL: 20 GA. Galvanized Steel
Powder Painted Beige, Grey, Dark Bronze

For Wood Doors

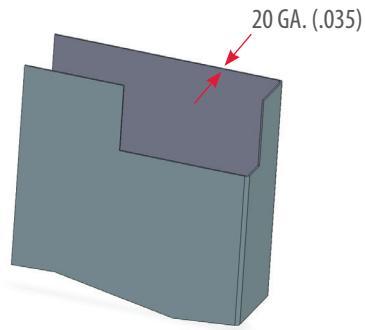
SPECIALS: 20 GA. SS w/
#4 Brushed Finish
Veneer Wrapped

| AMS PART NO. | DEVICE MANUFACTURER | SERIES |
|--------------|------------------------------------|----------------------|
| 251 | Von Duprin Series | 9847/9947 |
| 251A | Von Duprin CVC Series | 9849/9949 |
| 251B | Von Duprin CVC Series | 9850/9950 |
| 252 | Von Duprin Series | 5547 |
| 253 | Von Duprin Series | 3347/3547 |
| 254 | DORMA Device | 4100/6100 |
| 255 | Sargent Device | 8600 |
| 256 | Adams Rite Device | 3900/8900 |
| 257 | Yale Device | 7100 |
| 258 | Monarch/Falcon Device | (F) 17-24-18-25-XX-C |
| 260 | Arrow Device | F3600 |
| 261 | Corbin Russwin Device | 5800 |
| 262 | Precision Device | FL 1700/1700 |
| 263 | Sargent Device | PP8600 & PR8600 |
| 264 | DORMA Device | 9100 |
| 264A | DORMA Device | 9600 |
| 265 | Precision Device | FL 2700/2700 |
| 266 | DORMA Device | 5100 |
| 267 | Von Duprin Series | 3347A/3547A |
| 267A | Von Duprin CVC Series | 3350A/3550A |
| 268 | Sargent Vertical Lock Devices | WD 7000 |
| 269 | Monarch/Falcon Centerslide Devices | (F) 17-24-18-25-XX-C |
| 270 | Stanley Series (Black & Decker) | QED 100 |
| 271 | Hager CVR Series | 4500 |
| 272 | Detex CVR Series | 7000 |
| 273 | Cal-Royal Series | W77CVR/W98CVR |
| 274 | Lawrence Series | LH8850/8650 |
| 275 | Schlage Series | LM9200 |
| 276 | PDQ Series | 6200CV(F) |
| 277.5 | Corbin Russwin Series | FE6800 MPL |

A completed AMS Template must accompany your order.

Templates are available on our website www.AllMetalStamping.com

20 GA. GALVANIZED CHANNEL (.035)
Adds an additional $1/32"$ to the Edge of your door.



**UL Listed with the same parameters
as our standard products.**

Veneer Wrapped Products

Door Light Frames

See page 3-4, 13-15 & 20.

TYPICAL INSTALLATION

Astragal and Edge Sets

See page 23 & 24.

5" Channels

See page 26.

SPECIES: Red Oak, White Birch, and Cherry standard. Other Species are available upon request. Price and lead time are dependent on species, length, and cut requested. Request quote.

FINISH: Ready to stain and seal.

LEAD TIME: 7-10 business days from the date the order is received.
Subject to availability of veneer.

NOTE: Product for interior use ONLY.

OUR VENEER SUPPLIER OFFERS THESE TIPS TO ENSURE YOUR PRODUCT IS FINISHED CORRECTLY:

- Always test finish your product for compatibility.
- This veneer is pre-sanded - a clean sanding is all that is needed.
- Apply sealer and allow to dry.
- Use finishes with a high percent of solids.
- Do not rush the finishing.
- Lacquer, varnish, epoxy, urethane, and polyesters have all been used successfully.

DISCLAIMER:

Wood veneer owes its inherent beauty to variations in grain, color, texture and pattern occurring as a result of nature. Veneers from different regions of the country or world can have different variations IN grain, color, texture and pattern. All Metal Stamping, Inc., does not guarantee the grain, color, texture or pattern of any veneer products sold. Please contact us if you require a close match to your doors. A sample veneer will be required so we can compare to our stock, or send onto our supplier.

PLEASE NOTE: This will add considerable time to our ability to deliver product and may affect price if a special order is required.

PRICES

Subject to change without notice.

TERMS OF SALE

1% 10 Net 30 days with pre-approved credit. All other shipments will be C.O.D. or Prepaid.

Interest of 1.5% per month will be charged on all past due balances.

RECEIPT OF ORDERS

We are not responsible for orders lost in transit. We cannot guarantee we received your faxed order. If your order is urgently needed request an Order Confirmation. Our daily cutoff time is 1 P.M. CST/CDT for all Orders. Orders can be placed 24/7.

BUSINESS HOURS

Normal Production Hours are Monday through Thursday, 7:00 AM to 3:30 PM excluding Holidays or periods when we are shutdown. We normally do not have production or shipping on Fridays. The Office is open Monday through Friday, 7:00 AM to 4:30 PM. Quick Ship and Standard Lead times are based on our Production Hours.

SHIPPING

All Orders are shipped FOB Abbotsford, Wisconsin. Parcel shipments will be shipped prepaid with freight charges added to the invoice amount. Truck shipments will be freight collect unless prior arrangements are made to ship prepaid. We will attempt to honor shipping instructions but reserve the right to use our best judgment to determine method of shipment. Seller assumes no liability for loss or damage of product in transit. The costs of special packaging such as Crates, or boxes reinforced with OSB Board, regular skids and custom built skids will be added to the Shipping charges on all Invoices.

CANCELLATIONS AND CHANGES

Orders for special made or non stock size products are not subject to cancellation by the customer once production has started. Changes to orders that have been entered into the system will receive a \$10.00 Order Change Charge; changes to orders in process but before production has begun will receive a \$20.00 Order Change Charge.

RETURNED MERCHANDISE

No merchandise may be returned without prior permission. Machined Astragal & Edges, 5" Metal Channels, and Door Light Frames other than standard units cannot be returned. On items which are accepted for return a charge will be assessed to cover the cost of handling and any rework that may be required. The restocking charge will be based on the condition of the material and its purchase price. All returns must be shipped to us PREPAID.

SURCHARGES

Due to the ever changing market for Stainless Steel we have added a Stainless Steel Surcharge, which took effect 3/15/10. The Surcharge percentages will be updated monthly based on the surcharges reported on the Allegheny-Ludlum website.

LIMITATION OF LIABILITY

Manufacturer's liability for damages shall not exceed the purchase price of the material claimed to be defective. Buyer assumes responsibility to verify and determine that color, finish, and quality of materials meet specifications of the Order. No claim shall be allowed unless the original Purchaser gives notice to manufacturer within 30 days from date materials are received. If color match, finish quality, or glass and cutout fit are not satisfactory, DO NOT INSTALL. UPON INSTALLATION OUR LIABILITY ENDS. ***Manufacturer's only obligation shall be replacement, refinishing, or refund of the original purchase price, at our option.*** This warranty does not apply to door hardware which has been abused, altered, improperly installed, used with incompatible or inappropriate components (EX. Oversized Glass), exposed to corrosive environments, or environments for which the product is not intended. No material shall be returned without prior authorization. This warranty extends only to the original Purchaser who is buying the hardware from All Metal Stamping, Inc. for purposes of resale or use in the ordinary course of their business.