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DOOR VISION LITES GLAZING DOOR LOUVERS DOOR & FRAME PROTECTION











ABOUT AIR LOUVERS:

Air Louvers is a brand of the Activar Construction Products Group that manufacturers and distributes standard and custom products for doors. For over 30 years, we have produced a full line of fire-rated vision frames, door louvers and protective door edges. As a complement to the vision frames, we also offer a selection of fire and safety-rated glazing for applications from 20 minutes to 3 hours, and specialty glass such as leaded, and ballistics-resistant. Our products are tested with Underwriters Laboratories® (UL) or Intertek Warnock Hersey (WH-ETL) to meet current fire and safety standards for the US and Canada.

We serve the US market with eight centrally-located warehouses that stock our most popular products for next day fulfillment. In addition, we operate two manufacturing facilities—Commerce, California and Bloomington, Minnesota, allowing us to provide lower cost local delivery from one of our ten locations.

WARRANTY:

Vision Lites, Louvers, Privacy Screens, plus Door Edges and Astragals manufactured by Air Louvers are warranted to be free of defects in material and workmanship for the period of 5 years from date of shipment. We reserve the right to replace or repair any product found defective within this period.

Glazing products from Air Louvers are warranted to be free of defects in material and workmanship as described in the table from date of shipment. We reserve the right to replace or repair any product found defective within this period.

Miniblinds and Vistamatic® are not included in this warranty. See website for more information.

See website for complete warranties.

| ARM | ArmrShield | 7 year limited warranty | | | |
|------|-----------------------|-------------------------|--|--|--|
| BRG | Ballistics Resistant | 5 year limited warranty | | | |
| CT45 | ContraShield 45 | 5 year limited warranty | | | |
| CT60 | ContraShield 60 | 5 year limited warranty | | | |
| CT90 | ContraShield 90 | 5 year limited warranty | | | |
| INSU | Insulated Glass Unit | 5 year limited warranty | | | |
| LAMI | Laminated Safety | 5 year limited warranty | | | |
| KFRF | Kerashield FRF Select | 3 year limited warranty | | | |
| KFRL | KeraShield FRL | 5 year limited warranty | | | |
| KFRU | KeraShield FRU | 5 year limited warranty | | | |
| LG | LGShield | 1 year limited warranty | | | |
| PPF | Pyran Platinum F | 3 year limited warranty | | | |
| PYRO | PyroGlasShield | None | | | |
| TEMP | Tempered glass | None | | | |
| WS | Wireshield | 3 year limited warranty | | | |

GLAZING WARRANTY

BUILDING, FIRE AND SAFETY CODES

Air Louvers fire-rated vision lites, louvers, and door edges have been tested to current IBC, ANSI, UL, ASTM, and NFPA standards, assuring that you are getting the right products to protect building occupants.

Glazing distributed by Air Louvers helps you to meet the Class A (Category II) safety standards for use in "hazardous locations" as defined by International Building Code and the Consumer Safety Protection Commission. We carry a range of fire-rated glazing products from 20 minute to 3 hours including both Fire Resistive and Fire Protective selections.

As always, consult your local Authority Having Jurisdiction (AHJ) for local building codes.

MADE IN THE USA

Our metal products are proudly manufactured and assembled in the US in our two manufacturing facilities. Most of our products meet the standards for your ARRA, Buy American or Buy America project. Contact us for additional information.

ADA POSITIONING OF VISION LITES IN DOORS

Doors, Doorways and Gates [§206.5 and §404] Compliance is required for doors, doorways, and gates providing user passage on accessible routes. At least one accessible door, doorway, or gate serving each accessible room, space, and entrance must comply.

Vision/ Side Lights (§404.2.11) Accessible viewing height 43" maximum unless not intended for viewing (i.e., lowest part above 66") Note: Avoid conflicts with door handles or panic bars which may be mounted between 34" and 48", by careful planning of the vision lite location. The VSL Slimline frame provides a low profile that works with panic hardware.

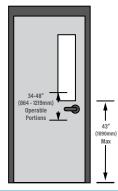




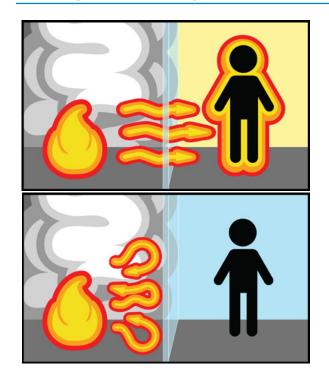


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| | ICONS |
|---|------------------|
| 6 | Fire-rated |
| | Fire Resistive |
| | Fire Protective |
| 5 | Hurricane-Rated |
| | Impact-Rated |
| | Lead-Lined |
| 7 | Bullet-Resistant |

WHAT IS THE DIFFERENCE BETWEEN FIRE PROTECTIVE AND FIRE RESISTIVE GLAZING?



Fire Protective glass is designed to compartmentalize and prevent the spread of smoke and flames.

It does not prevent radiant heat transfer to the other side of the glass. Also known as an opening protective, it can be fire-rated up to 180 minutes with size limitations under the IBC. Fire Protective glass size in 60 and 90 minute doors in exit enclosures and exit passageways is limited to 100 square inches whether or not the building is sprinklered, to protect occupants from heat while exiting.

Fire Resistive glass will contain flame and smoke and blocks radiant heat.

Fire Resistive glass protects transmission of radiant heat through glass which can ignite combustible materials within 20 feet. Also known as a fire-resistive assembly, this type of glass does not allow the temperature rise on the non-fire side of the glass to exceed an average of 250° F. This glass is typically a multi-layer laminate of fire-resistive layers which when exposed to fire, expands, provides an insulated layer of protection that holds broken glass in place and prevents the spread of fire and smoke while preventing thermal heat radiation.



PYRAN® PLATINUM F: PPF







Neutral-colored glass-ceramic with surface-applied film

PRODUCT DETAILS:

Thickness: 3/16" (5mm) Weight: 2.6 psf

Light Transmission: 80%

STC: 31

Compatible Frames: VLF, VLFEZ, VSL

LISTINGS:

Fire Rating: Up to 3 hours

Testing Standards:

UL9, UL10B, UL10C, NFPA 80, NFPA 252, NFPA 257, CAN/ULC-S104, S106

Impact Safety Rating:

ANSI Z97.1 (Class A & B), CPSC 16CFR 1201 (Cat I & II), CAN/CGSB-12.1-M

KERASHIELD™ FRF: KFRF







Amber-colored glass-ceramic with polished surface and surface-applied film

PRODUCT DETAILS:

Thickness: 3/16" (5 mm)

Weight: 2.4 psf

Light Transmission: 88%

STC: 35

Compatible Frames:

VLF, VLFEZ, VSL

LISTINGS:

Fire Rating: Up to 3 hours

Testing Standards:

UL9, UL10B, UL10C, NFPA 80, NFPA 252, NFPA 257, CAN/ULC- S104, S106

Impact Safety Rating:

ANSI Z97.1 (Class A & B), CPSC 16CFR 1201 (Cat I & II), CAN/CGSB-12.1-M

KERASHIELD™ FRL: KFRL



FIRE PROTECTIVE UP TO 3 HOURS CAT I & II



Two lites of amber-colored glass-ceramic laminated together and polished

PRODUCT DETAILS:

Thickness: 5/16" (8 mm)

Weight: 4.1 psf

Light Transmission: 82%

STC: 37

Compatible Frames:

VLFIG, VLFEZIG, VSIG, VLFS10

LISTINGS:

Fire Rating: Up to 3 hours

Testing Standards:

UL9, UL10B, UL10C, NFPA 80, NFPA 252, NFPA 257,

CAN/ULC- S104, S106

Impact Safety Rating:

ANSI Z97.1 (Class A & B), CPSC 16CFR 1201 (Cat I & II),

CAN/CGSB-12.1-M

KERASHIELD™ FR ULTRA: KFRU







Two lites of glass-ceramic, enclosing two intumescent interlayers divided by glass-ceramic pane

PRODUCT DETAILS:

Thickness: 11/16" (18 mm)

Weight: 7.5 psf

Light Transmission: 79%.

STC: 38

Compatible Frames:

LISTINGS:

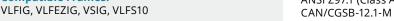
Fire Rating: Up to 3 hours

Testing Standards:

UL9, UL 10B, UL10C, NFPA 80, NFPA252, NFPA257, CAN/ULC-S104, S106

Impact Safety Rating:

ANSI Z97.1 (Class A & B), CPSC 16CFR 1201 (Cat I & II),







CONTRASHIELD™ 45: cT45







Two layers of laminated safety glass separated by an intumescent interlayer

PRODUCT DETAILS:

Thickness: 1" (25mm) Weight: 10.3 psf

Light Transmission: 80%

Compatible Frames:

VLFIG, VLFEZIG, VSIG, VLFS10

LISTINGS:

Fire Rating: Up to 45 minutes

Testing Standards:

UL9, UL10B, UL10C, NFPA 80, NFPA251, NFPA 252 NFPA 257, ASTM E119, UL 263, CAN/ULC-S101, S104,

Impact Safety Rating:

ANSI Z97.1 (Class A & B), CPSC 16CFR 1201 (Cat I & II),

CAN/CGSB-12.1-M



CONTRASHIELD™ 60: CT60







Three layers of laminated safety glass separated by intumescent interlayers

PRODUCT DETAILS:

Thickness: 1" (25mm) Weight: 10.3 psf

Light Transmission: 80%

STC: 40

Compatible Frames:

VLFIG, VLFEZIG, VSIG, VLFS10

LISTINGS:

Fire Rating: Up to 60 minutes

Testing Standards:

UL9, UL10B, UL10C, UL 263, NFPA 80, NFPA 251, NFPA 252, NFPA 257, ASTM E119, CAN/ULC-S101, S104, S106

Impact Safety Rating:

ANSI Z97.1 (Class A & B), CPSC 16CFR 1201 (Cat I & II),

CAN/CGSB-12.1-M

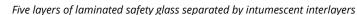
CONTRASHIELD™ 90: CT90



FIRE RESISTIVE UP TO 90 MINS CAT I & II







PRODUCT DETAILS:

Thickness: 1-7/16" (37mm)

Weight: 14.6 psf

Light Transmission: 82%

STC: 45

Compatible Frames:

VLFIG, VLFEZIG, VSIG, VLFS10

LISTINGS:

Fire Rating: Up to 90 minutes

Testing Standards:

UL9, UL10B, UL10C, UL 263, NFPA 80, NFPA 252, NFPA

257, CAN/ULC- S104, S106

Impact Safety Rating:

ANSI Z97.1 (Class A & B), CPSC 16CFR 1201 (Cat I & II),

CAN/CGSB-12.1-M









Annealed single glazing with safety film applied to one side & embedded diagonal 3/4 x 3/4" wire mesh

PRODUCT DETAILS:

Thickness: 1/4" (6mm) Weight: 3.6 psf

Light Transmission: 84%

STC: 31

Compatible Frames: VLF, VLFEZ, VSL

LISTINGS:

Fire Rating: Up to 90 minutes

Testing Standards:

UL9, UL10B, UL10C, UBC 7-1(1997), UBC 7-2(1997), NFPA 80, NFPA257, CAN/ULC-S104, S106

Impact Safety Rating:

ANSI Z97.1 (Class A & B), CPSC 16CFR 1201 (Cat I & II)



ADDITIONAL OPTIONS:

Baroque: Horizontally-Oriented Wire Mesh



PYROGLASSHIELD™: PYRO







CAT I & II

Tempered clear safety glass for twenty-minute doors tested without hose stream

PRODUCT DETAILS:

Thickness: 1/4" (6mm) Weight: 3.2 psf

Light Transmission: 89%

Compatible Frames: VLF, VLFEZ, VSL

LISTINGS:

Fire Rating: Up to 20 minutes without hose stream

Testing Standards:

UL9, UL10B, UL10C, NFPA 80, NFPA 252, NFPA 257, UL

Impact Safety Rating:

CAN/CGSB-12.1-M

TEMPERED GLASS: TEMP

Tempered clear safety glass

PRODUCT DETAILS:

Thickness: 1/4" (6mm) Weight: 3.0 psf

Light Transmission: 89%

STC:31

Compatible Frames:

VLF, VLFEZ, VSL

263, CAN/ULC- S104, S106

ANSI Z97.1 (Class A & B), CPSC 16CFR 1201 (Cat I & II),

LISTINGS:

Impact Safety Rating:

ANSI Z97.1 (Class A & B), CPSC 16CFR 1201 (Cat I & II)

ARMRSHIELD: ARM

Multiple layers of polycarbonate and PVB

PRODUCT DETAILS:

Thickness: 13/16", 1-1/16", 1-5/16" (20, 27, 33mm)

Weight: 5.1, 6.5, 8.1 psf Light Transmission: 88, 72, 72

STC: 35, 36, 37

Compatible Frames*:

VLFIG, VLFEZIG, VSIG, VLFS10

LISTINGS:

Testing Standards:

ARM1: UL 752 Level 1

ARM2: UL 752 Level 2, ASTM F 1233.08 Class 5 & 2.4, ASTM F 1915.03 Grade 1, HP White TP 0500.03 Level IV

🖥 UP TO LEVEL 3 BULLET RESISTANCE 🌾 CAT I & II

Sequence 43

ARM3: UL 752 Level 3, ASTM F 1233.08 Class 5 & 2.5, ASTM F 1915.03 Grade 1, HPW TP 0500.03 Level IV,

Sequence 43-44

Impact Safety Rating:

ANSI Z97.1 (Class A & B), CPSC 16CFR 1201 (Cat I & II)

BULLET RESISTANT GLASS: BRG

TUP TO LEVEL 3 BULLET RESISTANCE CAT I & II



Multiple layers of laminate glass and PVB for interior or exterior use

PRODUCT DETAILS:

Thickness: 13/16", 1-1/2", 1-1/8" (20, 38, 48mm)

Weight: 15.5, 20.5, 23.0 psf **Light Transmission: --**

STC: --

Compatible Frames*: VLFIG, VLFEZIG, VSIG, VLFS10

LISTINGS:

Testing Standards:

NII 0108.01

BRG 1: UL752 Level 1, ASTM C158, C1036, C1172 BRG 2: UL752 Level 2, ASTM C158, C1036, C1172 BRG 3: UL752 Level 3, ASTM C158, C1036, C1172 **Impact Safety Rating:**

ANSI Z97.1 (Class A & B), CPSC 16CFR 1201 (Cat I & II)

*Compatible frames vary based glass thickness. See Submittals for more information





INSULATED GLASS UNIT: INSU

CAT I & II

Two panes of tempered glass with spacer in a sealed insulated glass unit.

PRODUCT DETAILS:

Thickness: 1/2", 5/8", 1" (13, 16, 25mm)

Weight: 3.25, 3.26, 6.50 psf **Light Transmission:** 79%-81%

STC: 28-35

Compatible Frames:

VLFIG, VLFEZIG, VSIG, VLFS10

LISTINGS:

Impact Safety Rating:

ANSI Z97.1 (Class A & B), CPSC 16CFR 1201 (Cat I & II)

LAMINATED SAFETY GLAZING: LAMI



Multiple panes of annealed glazing separated by PVB film interlayers

PRODUCT DETAILS:

Thickness: 1/4", 3/8", 1/2", 5/8", 3/4" (6, 10, 13, 16, 19mm)

Weight: 3.5-10.5 psf Light Transmission: 88%

STC: 35-41

Compatible Frames:

VLF, VLFEZ, VSL, VLFIG, VSIG, VLFEZIG, VLFS10

ADDITIONAL OPTIONS:

Tempered laminated glazing

LISTINGS:

Testing Standards:

ASTM E90,ASTM C1036, ASTM 1172,ASTM E413, ASTM E1332, ASTM E1886, ASTM E1996, ASTM F1233

Impact Safety Rating:

ANSI Z97.1 (Class A & B), CPSC 16CFR 1201 (Cat I & II)

LGSHIELD: LG



Single pane, leadlined glazing for x-ray safety glass

PRODUCT DETAILS:

Thickness: 5/16" (8mm)

Weight: 8 psf

Light Transmission: 86-88%

Lead Equivalent †: Nominal 2mm/.078in

Compatible Frames:

VLFIG Leadlined, VLFEZIG Leadlined

LISTINGS:

Testing Standards:

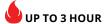
Fed Spec DD-G-451, NCRP report #49 #147

Impact Safety Rating:

CPSC 16CFR 1201 (Cat I &II), ANSI Z97.1



SLIMLINE™ VISION LITE: vsl



Low profile beveled vision lite for fire-rated doors. Self-attaching for glass 3/16" to 1/4" with single side fasteners.

PRODUCT DETAILS:

Size: Min Size: 3" x 3" - Max Size: 60" x 104"

Material: 20 Gauge Cold Rolled Steel

Construction: 1-¼" trim with radius corners, mitered and welded. Continuous glass retainer, countersunk mounting

holes in the bevel on non-corridor side.

Door Thickness: 1-3/4"

Standard Finish: Mineral Bronze

Optional Powder Coat Finishes: Gray, Black, Flat Black,

White, Silver, Brass, Sand, AMS Beige, SC Beige

GLAZING: TO BE ORDERED SEPARATELY.

Glazing Thickness: 3/16"- 1/4"

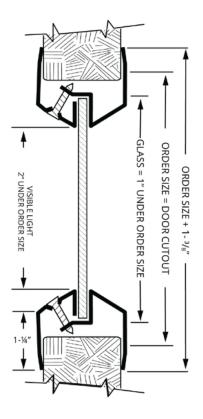
Fire-Rated Glazing: WS, PPF, PYRO, KFRF

Non-Rated Glazing: TEMP

FIRE RATING:

UL listed and labeled to ANSI/UL 10B and ANSI/UL 10C when properly installed in rated and approved door. Ratings up to 3 hours can be achieved, depending on glazing used and maximum exposed area.

Warnock Hersey listed and labeled upon request to NFPA 252, ANSI/UL 10B and ANSI/UL 10C for ratings up to 90 minutes.





VSL in Mineral Bronze

ADDITIONAL PRODUCTS:



Materials:

20 Gauge 304 Stainless Steel #4 Finish 20 Gauge Galvanneal Steel 20 Gauge Electro Zinc Plated Steel



/SLR12:

12" Dia. 18 Gauge Cold Rolled Steel

VSLR18:

18" Dia. 18 Gauge Cold Rolled Steel



PDVSL:

Vision Lite with 20 gauge, hinged privacy door. This product is not firerated.



Mullions:

Vision lite with welded-on mullions for a divided lite look. See page 14.



VWL:

Woodlite Vision Lite with .010" paperbacked wood veneer to match door.



PAKs:

Complete "PAK" with vision frame, glazing & tape. Convenient combination assures glass/frame coordination. See Page 12.

SLIMLINE™ VISION LITE FOR IGUs: vsig



Low profile, beveled vision lite for glazing from 5/16" to 1-11/16" and/or non-standard doors. Self-attaching with single-side fasteners.

PRODUCT DETAILS:

Size: Min Size: 3" x 3" - Max Size: 60" x 104" Material: 20 Gauge Cold Rolled Steel

Construction:: 1-1/4" trim with radius corners, mitered and welded. Continuous glass retainer, countersunk mounting holes in the bevel on non-corridor side.

Door Thickness:

UL Listing: 1" - 3" WH-ETL Listing: 1-34"

Standard Finish: Mineral Bronze

Optional Powder Coat Finishes: Gray, Black, Flat Black,

White, Silver, Brass, Sand, AMS Beige, SC Beige

GLAZING: TO BE ORDERED SEPARATELY.

Glazing Thickness:

UL Listing: 5/16" - 1-11/16" WHI Listing: 5/16" - 1"

Fire-Rated Glazing: KFRL, KFRU, CT45, CT60, CT90

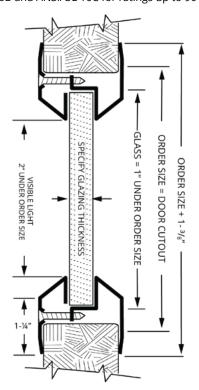
Fire-Rated Glazing (Non 1-3/4" Doors): WS, PPF, PYRO, KFRF

Non-Rated Glazing: ARM, BRG

FIRE RATING:

UL listed and labeled to ANSI/UL 10B and ANSI/UL 10C when properly installed in rated and approved door. Ratings up to 3 hours can be achieved, depending on glazing used and maximum exposed area.

Warnock Hersey listed and labeled upon request to NFPA 252, ANSI/UL 10B and ANSI/UL 10C for ratings up to 90 minutes.





VSIG in Mineral Bronze

ADDITIONAL PRODUCTS:



Materials:

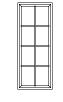
20 Gauge 304 Stainless Steel #4 Finish 20 Gauge Galvanneal Steel 20 Gauge Electro Zinc Plated Steel



VSIGMB:

Vision Lite with standard or custom miniblind. This product is not firerated.

See page 12.



Vision lite with welded-on mullions for a divided lite look.

See page 14.



VWLIG:

Woodlite Vision Lite with .010" paperbacked wood veneer to match



THRUBOLT VISION LITE: VLF



Standard, Multi-purpose, thru-bolted square profile vision lite for up to 1/4" thick glazing.

PRODUCT DETAILS:

Size: Min Size: 3" x 3" - Max Size: 60" x 104"
Material: 18 Gauge Cold Rolled Steel

Construction: : 1-¼" trim with mitered and welded radius corners. Countersunk mounting holes on both sides.

Door Thickness: 1-3/4"

Standard Finish: Mineral Bronze

Optional Powder Coat Finishes: Gray, Black, Flat Black,

White, Silver, Brass, Sand, AMS Beige, SC Beige

GLAZING: TO BE ORDERED SEPARATELY.

Glazing Thickness: 3/16"- 1/4"

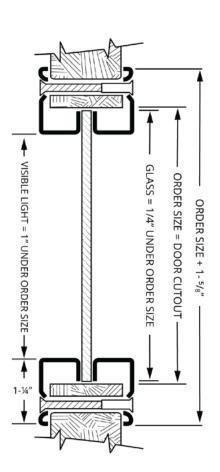
Fire-Rated Glazing: WS, PPF, PYRO, KFRF

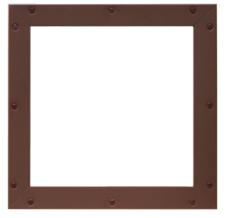
Non-Rated Glazing: TEMP



UL listed and labeled to ANSI/UL 10B and ANSI/UL 10C when properly installed in rated and approved door. Ratings up to 3 hours can be achieved, depending on glazing used and maximum exposed area.

Warnock Hersey listed and labeled upon request to NFPA 252, ANSI/UL 10B and ANSI/UL 10C for ratings up to 90 minutes.





VLF in Mineral Bronze

ADDITIONAL PRODUCTS:



Materials:

18 Gauge 304 Stainless Steel #4 Finish

18 Gauge Galvanneal Steel

18 Gauge Electro Zinc Plated Steel



VLFR12:

12" Dia. 18 Gauge Cold Rolled Steel



VLFSG:

Vision lite with 12 gauge cold rolled steel grille welded to both sides of frame.



VLFPVC:

16 gauge door on continuous hinges welded to vision lite. This product is not fire-rated.



Mullions:

Vision lite with welded-on mullions for a divided lite look. See page 14.



THRUBOLT VISION LITE FOR IGUS: VLFIG



Square profile, thru-bolted vision frame for glazing from 5/16" to -1 11/16"" and/or non-standard doors.

PRODUCT DETAILS:

Size: Min Size: 3" x 3" - Max Size: 60" x 104" Material: 18 Gauge Cold Rolled Steel

Construction: 1-1/4" trim with mitered and welded radius corners. Countersunk mounting holes on both sides.

Door Thickness: 1" - 3"

Standard Finish: Mineral Bronze

Optional Powder Coat Finishes: Gray, Black, Flat Black, White, Silver, Brass, Sand, AMS Beige, SC Beige

GLAZING: TO BE ORDERED SEPARATELY.

Glazing Thickness: 5/16"- 1-11/16

Fire-Rated Glazing: KFRL, KFRU, CT45, CT60, CT90

Fire-Rated Glazing (Non 1-34" Doors): WS, PPF, PYRO, KFRF

Non-Rated Glazing: ARM, LG, BRG



UL listed and labeled to ANSI/UL 10B and ANSI/UL 10C when properly installed in rated and approved door. Ratings up to 3 hours can be achieved, depending on glazing used and maximum exposed area.

Warnock Hersey listed and labeled upon request to NFPA 252, ANSI/UL 10B and ANSI/UL 10C for ratings up to 90 minutes.



ADDITIONAL PRODUCTS:



Materials:

18 Gauge 304 Stainless Steel #4 Finish 18 Gauge Galvanneal Steel 18 Gauge Electro Zinc Plated Steel



Leadlined:

Vision frame with 1/16" lead sheeting applied for use with leadlined glass.



VLFIGHRC PAK:

Vision frame with severe windstorm approval. See Page 13.



VLFIGHRCF PAK:

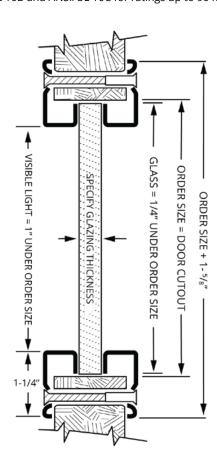
Vision frame with fire-rating, Miami Dade County NOA and FL product approval.

See Page 13.



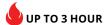
Mullions:

Vision lite with welded-on mullions for a divided lite look. See page 14.



VISION LITES

EZLINE VISION LITE: VLFEZ



Self-Attaching, beveled vision lite with single side fasteners for fire-rated doors for 3/16" to 1/4" Glass

PRODUCT DETAILS:

Size: Min Size: 3" x 3" - Max Size: 60" x 104"

Material: 20 Gauge Cold Rolled Steel

Construction: : 1-1/4" trim with radius corners, mitered and welded. Continuous glass retainer, countersunk mounting

holes in the bevel on non-corridor side.

Door Thickness: 1-¾"

Standard Finish: Mineral Bronze

Optional Powder Coat Finishes: Gray, Black, Flat Black, White, Silver, Brass, Sand, AMS Beige, SC Beige

GLAZING: TO BE ORDERED SEPARATELY.

Glazing Thickness: 3/16"- 1/4"

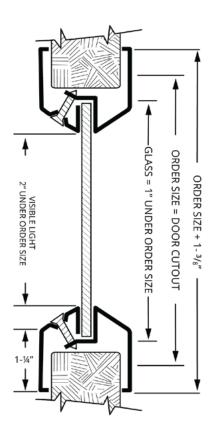
Fire-Rated Glazing: WS, PPF, PYRO, KFRF

Non-Rated Glazing: TEMP

FIRE RATING:

UL listed and labeled to ANSI/UL 10B and ANSI/UL 10C when properly installed in rated and approved door. Ratings up to 3 hours can be achieved, depending on glazing used and maximum exposed area.

Warnock Hersey listed and labeled upon request to NFPA 252, ANSI/UL 10B and ANSI/UL 10C for ratings up to 90 minutes.





VLFEZ in Mineral Bronze

ADDITIONAL PRODUCTS:



Materials:

20 Gauge 304 Stainless Steel #4 Finish 20 Gauge Galvanneal Steel

20 Gauge Electro Zinc Plated Steel



VLFEZHRC PAK:

Vision frame with Miami Dade County NOA and FL product approval. See Page 13.



Mullions:

Vision lite with welded-on mullions for a divided lite look. See page 14.



PAKs

Complete "PAK" with vision frame, glazing & tape. Convenient combination assures glass/frame coordination.
See Page 12.



EZLINE VISION LITES FOR IGUS: VLFEZIG



Self-attaching, beveled vision lite for 5/16" to 1-11/16" glazing and/or non-standard doors. Single side fasteners.

PRODUCT DETAILS:

Size: Min Size: 3" x 3" - Max Size: 60" x 104"

Material: 20 Gauge Cold Rolled Steel

Construction: 1-¼" trim with radius corners, mitered and welded. Continuous glass retainer, countersunk mounting holes on face of non-corridor side. Frame Projects 3/8"

Door Thickness: UL Listing: 1" - 3"

WH-ETL Listing: 1-% - 2-1/2"

Standard Finish: Mineral Bronze

Optional Powder Coat Finishes: Gray, Black, Flat Black,

White, Silver, Brass, Sand, AMS Beige, SC Beige

GLAZING: TO BE ORDERED SEPARATELY.

Glazing Thickness:

UL Listing: 5/16" - 1-11/16" **WHI Listing:** 5/16" - 1"

Fire-Rated Glazing: KFRL, KFRU, CT45, CT60, CT90

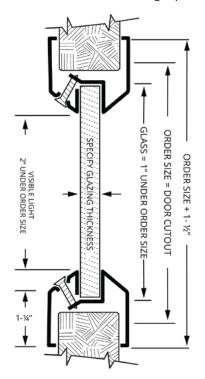
Fire-Rated Glazing (Non 1-34" Doors): WS, PPF, PYRO, KFRF

Non-Rated Glazing: ARM, BRG, LG

FIRE RATING:

UL listed and labeled to ANSI/UL 10B and ANSI/UL 10C when properly installed in rated and approved door. Ratings up to 3 hours can be achieved, depending on glazing used and maximum exposed area.

Warnock Hersey listed and labeled upon request to NFPA 252, ANSI/UL 10B and ANSI/UL 10C for ratings up to 90 minutes.





VLFEZIG in Mineral Bronze

ADDITIONAL PRODUCTS:



Materials:

20 Gauge 304 Stainless Steel #4 Finish

20 Gauge Galvanneal Steel

20 Gauge Electro Zinc Plated Steel



VLFEZIGMB:

Vision lite with standard or custom miniblind. This product is not fire-rated. See page 12.



Leadlined:

Vision frame with 1/16" lead sheeting applied for use with leadlined glass.



Mullions:

Vision lite with welded-on mullions for a divided lite look. See page 14. PAKs are all-In-one combination kits for adding a vision lites to doors. The PAK consists of a Vision Lite, Glazing, and Glazing Tape which has been pre-applied. Choose a vision lite from the standard sizes below, a matching glazing and we will take care of sizing the glazing, applying the tape and packaging it.

STEP 1: SELECT A VISION LITE KIT

Order Size is Door Cut-Out Size.

VSL: SLIMLINE™ VISION LITE

Low profile beveled vision lite for fire-rated doors.

| 5" x 35" | 8" x 18" | 12" x 12" | 24" x 24" |
|----------|----------|-----------|-----------|
| 6" x 27" | 8" x 30" | | 24" x 30" |
| 7" x 22" | 8" x 32" | | 24" x 32" |
| | 8" x 36" | | 24" x 36" |
| | | | 24" x 60" |
| | | | 24" x 64" |

VLFEZ: EZLINE™ VISION LITE

Low profile beveled vision lite for fire-rated doors.

| 5" x 35" | 8" x 18" | 12" x 12" | 24" x 24" |
|----------|----------|-----------|-----------|
| 6" x 27" | 8" x 32" | | 24" x 30" |
| 7" x 22" | 8" x 36" | | 24" x 32" |

CALL CUSTOMER SERVICE FOR OTHER VISION LITES AND SIZES

STEP 2: SELECT A GLAZING

PPF: PYRAN® PLATINUM F GLASS

CAT II Impact-rated, Fire-rated - UL Listed, for UL10B Door Assembly.

KFRF: KERASHIELD®

CAT II Impact-rated, Fire-rated - UL Listed, for UL10B Door Assembly.

WS: WIRESHIELD

Wired Glass, CAT II Impact-rated, Fire-rated - UL Listed, for UL10B Door Assembly.

TEMP: TEMPERED GLASS

CAT II Impact-rated (Not Fire-rated)

CALL CUSTOMER SERVICE FOR OTHER GLAZING

VSIGMB & VLFEZIGMB PAK: VISION LITE MINIBLINDS

For maintenance free privacy

PRODUCT DETAILS:

Door Thickness: 1"-3"

Glazing: 1" Sealed Unit with Clear Tempered Glass.

Vision Frame Choices: VLFEZIG or VSIG Frame. See pages 7 and 11 for detailed information including colors.

| Standard | 9 x 37" | 21 x 37" | 23 x 49" |
|----------|----------|----------|----------|
| Sizes: | 9 x 65" | 21 x 65" | 23 x 65" |
| | 15 x 65" | 23 x 37" | 23 x 81" |

Standard Blinds: 5/8" white painted aluminum slats with tilt and lift operation.

Custom Sizes: Min Size: 15" x 14" - Max Size: 36" x 69" Custom Blinds: 1/2" painted aluminum slats tilt and lift operation.

Custom Blind Color: White, Sand, Tan, Espresso, Silver Moon,

Slate Gray





HURRICANE EZLINE PAK: VLFEZHRC PAK

FBC & MIAMI-DADE COUNTY, FL



For protection from wind-borne debris

PRODUCT DETAILS:

Size:

Min Size: 3" x 3" Max Size: 23-%" x 61-%"

Material: 20 Gauge Galvanneal Steel

Construction: 1-¼" trim with radius corners, mitered and welded. Continuous glass retainer, countersunk mounting holes in the bevel on non-corridor side.

Door Thickness: 1-34"

Glazing: 1/4" Polycarbonate Glazing

Standard Finish: Mineral Bronze

Optional Powder Coat Finishes: Gray, Black, Flat Black, White, Silver, Brass, Sand, AMS Beige, SC Beige

HURRICANE RATING:

Miami-Dade County, Florida NOA:

Approved and labeled NOA#18-1220-12 Expires 7/3/20

Florida Product Approval:

File # FL13187-R3

HURRICANE THRUBOLT PAK: VLFIGHRC PAK

5

For protection from wind-borne debris

PRODUCT DETAILS:

Size:

Min Size: 3" x 3" Max Size: 30" x 60-½"

Material: 18 Gauge Galvanneal Steel

Construction: 1-½" trim with mitered and welded corners, square return and countersunk mounting

holes on both sides.

Door Thickness: 1-34" - 3"

Glazing: 5/16" - (2) 1/8" glazings with .075" interlayer

Standard Finish: Mineral Bronze

Optional Powder Coat Finishes: Gray, Black, Flat Black, White, Silver, Brass, Sand, AMS Beige, SC Beige

HURRICANE RATING:

Severe Windstorm Testing:

Warnock Hersey Listed and Labeled to ASTM E330, ASTM E1886, ASTM E1996 and ANSI A250.13

FIRE & HURRICANE THRUBOLT PAK: VLFIGHRCF PAK





For wind-borne debris and fire protection

PRODUCT DETAILS:

Size:

Min Size: 4-½" x 16-¼" or 12-¼" x 12-¼"

Max Size: 21-¾" x 61-¼"

Material: 18 Gauge Galvanneal Steel

Construction: 1-½" trim with mitered and welded corners, square return and countersunk mounting holes on both sides.

Door Thickness: 1-34"

Glazing: 1-7/16" - Lamination of (1) hurricane-rated glazing, interlayer, and (1) 60 minute fire-rated glazing

Standard Finish: Mineral Bronze

Optional Powder Coat Finishes: Gray, Black, Flat Black, White, Silver, Brass, Sand, AMS Beige, SC Beige

HURRICANE RATING:

Miami-Dade County, Florida NOA:

Approved and labeled NOA#18-1220-12 Expires 7/3/20

Florida Product Approval:

File # FL13187-R3

FIRE RATING:

UL listed and labeled to ANSI/UL 10B and ANSI/UL 10C for up to 1 hour when properly installed in rated and approved door.

Warnock Hersey listed and labeled to NFPA 252, UL10B/ CAN ULC S104, UL10C

VISION LITES WITH MULLION

Add mullions for additional security or style

PRODUCT DETAILS:

Material:

VLF & VLFIG: 18 Gauge Cold Rolled Steel

VLFEZ, VLFEZIG, VSL, VSIG: 20 Gauge Cold Rolled Steel

Mullion Width: 1"
Mullion Depth: 5/8"

Mullion Construction: Welded to both sides of vision lite at heads, sills and jambs, and butt to glass. Only one pane of glass required.

Door Thickness:

VSL, VLF, VLFEZ: 1-34" VSIG, VLFIG, VLFEZIG: 1" - 3"

Standard Finish: Mineral Bronze

Optional Powder Coat Finishes: Gray, Black, Flat Black, White, Silver, Brass, Sand, AMS Beige, SC Beige

FIRE RATING:

UL listed and labeled to ANSI/UL 10B and ANSI/UL 10C when properly installed in rated and approved door. Ratings up to 3 hours can be achieved, depending on glazing used and maximum exposed area.

ADDITIONAL OPTIONS:

Mullion Sizes: 1/2" x 1/2", 1/2" x 3/4", Custom

Materials:

Stainless Steel #4 Finish Galvanized Steel Electro Zinc Plated

FRM: FRAMED MULLIONS FOR TRANSOMS & SIDELITES

Add mullions for additional security or style.

PRODUCT DETAILS:

Material: 16 Gauge Cold Rolled Steel Tubes

Mullion Width: 3/4" Mullion Depth: 3/4"

Mullion Construction: Mullions are welded at heads, sills and jambs, and butt to glass. Pre-drilled mounting holes are provided on the perimeter mullions. (Fasteners by others)

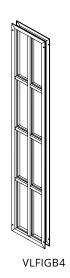
Standard Finish: Gray

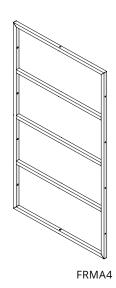
Powder Coat Finishes: Mineral Bronze, Black, Flat Black, White, Silver, Brass, Sand, AMS Beige, SC Beige

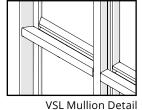
ADDITIONAL OPTIONS:

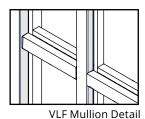
Materials:

16 Gauge Electro Zinc Plated Steel









A B C

A2 B2
A2 B2
A3 B3 C3

A4 B4 C4

5

В5

Α5

C5



Add privacy with the Velo Privacy Screen

PRODUCT DETAILS:

Size: Order in 1/8" Increments.

UL-Listed Sizes: Must have overall area (WxH) no less than 178.9 sq in and no larger than 1141.3 sq in.

Max UL-Listed Size: 31-%"x36-%"

Non UL-Listed: Min Size: 5"x7" - Max Size: 31-%"x37-%"

Material: 18 Gauge Aluminum frame

Construction: 1-¼" x 1/4" frame with radius corners, mitered & welded. 7/8" deep channels prevent light leaks. Roller: Spring-operated roller In an aluminum housing with black plastic end caps. A black plastic push-button latch releases the shade to retract into the roller housing. Shade: Durable, 100% opaque, black, light blocking fabric material attached to a rigid pull-down bar.

Mounting: 1/2" wide adhesive backed hook and loop fastener must attach to a metal vision lite (and not to door, Woodlite, or wood stops) to maintain fire rating.

Standard Finish: Mineral Bronze

Optional Powder Coat Finishes: Gray, Black, Flat Black, White, Silver, Brass, Sand, AMS Beige, SC Beige

FIRE RATING:

UL listed and labeled (for applicable sizes) to maintain existing door, vision lite and glazing fire ratings up to 90 minutes for steel and wood doors, both temp-rise and nontemp-rise per ANSI/UL 10B (CAN/ULC-S104) & ANSI/UL 10C.



PSL: VELO PRIVACY SCREEN FOR SIDELITES

Add additional privacy with the Velo Privacy Screen for sidelites

PRODUCT DETAILS:

Size: Min Size: 7" x 10" - Max Size: 22" x 88". Order in 1/8" Increments.

Material: 18 Gauge Aluminum frame

Construction: 1-¼" x 1/4" frame with radius corners, mitered and welded. 7/8" deep channels prevent light leaks. Roller: A spring-operated roller in an aluminum housing with black endcaps. Push-button latch releases shade which is retracted into the roller housing.

Shade: A durable 100% opaque, black, light blocking fabric material attached to a rigid pull-bar.

Installation: Attach to 5/8" glazing stop or face of steel or aluminum hollow metal frame using hook and loop fasteners provided. Two Installation Choices - Install to face of sidelite frame or to glazing stop in the recess of the frame.

Standard Finish: Mineral Bronze

Optional Powder Coat Finishes: Gray, Black, Flat Black, White, Silver, Brass, Sand, AMS Beige, SC Beige

MORE PRIVACY OPTIONS



See Page 8



PDVSL See Page 6



MINIBLINDS





VISTAMATIC

See Website For More Details.









1900A SERIES: ADJUSTABLE FIRE-RATED Z-BLADE



For 1-34" Steel or Composite Fire Doors

PRODUCT DETAILS:

Size: Min Size: 10" x 6" - Max Size: 24" x 24" Frame Material: 18 Gauge Cold Rolled Steel

Frame Construction: Mitered and welded corners; screws fastened through prepared frame into louver core leaving

corridor side of frame free of fasteners. Blade Material: 16 Gauge Cold Rolled Steel

Blade Spacing: 1" Door Thickness: 1-34" Free Flow Area: 45% Free

Standard Finish: Mineral Bronze

Optional Powder Coat Finishes: Gray, Black, Flat Black,

White, Silver, Brass, Sand, AMS Beige, SC Beige



1900ASG:

Has an additional 12 Gauge Security Grille welded to louver core with 13/16" square openings 1" on center.

OPERATION:

Adjustable blades pivot on cadmium-plated steel rivets. The blades are operated by a manual adjusting lever. A spring loaded fusible link mechanism is incorporated into the design. Upon melting of the link at 165° F, the action bar is actuated, thereby closing and locking all of the blades.

FIRE RATING:

UL listed and labeled to ANSI/UL 10B and ANSI/UL 10C when properly installed in rated and approved door. Ratings up to 3 hours can be achieved, depending on glazing used and maximum exposed area.

Warnock Hersey listed and labeled upon request to NFPA 252, ANSI/UL 10B (CAN/ULC S104) and ANSI/UL 10C for ratings up to 90 minutes.

ADDITIONAL OPTIONS:

Materials:

18 Gauge Electro Zinc Plated Steel

Bird or Insect Screen: Attached to roll-formed frame on corridor side of door.

1100 SERIES: ADJUSTABLE SINGLE Z-BLADE

For 1-3/4" to 1-3/4" Doors

PRODUCT DETAILS:

Size: Min Size: 8" x 8" - Max Size: 24" x 30" For multiple section sizes see submittal. Frame Material: 16 Gauge Cold Rolled Steel

Frame Construction: 1-¼" trim, with mitered and welded corners and countersunk mounting holes. Louver frame is

screwed into door from 2 sides.

Blade Material: 16 Gauge Cold Rolled Steel

Blade Spacing: 1"

Door Thickness: 1-% - 1-34"

Mounting Options: 1100 Core, 1100C, 1100A

Free Flow Area: 45%

Standard Finish: Mineral Bronze

Optional Powder Coat Finishes: Gray, Black, Flat Black,

White, Silver, Brass, Sand, AMS Beige, SC Beige

ADDITIONAL OPTIONS:

Materials:

16 Gauge Electro Zinc Plated Steel 18 Gauge 304 Stainless Steel #4 Finish

Bird or Insect Screen: Attached to roll-formed frame on corridor side of door.

LOUVER MOUNTING OPTIONS FOR 1100 SERIES

A:



Basic blade unit with flanged frame welded to corridor side and separate flanged frame on room side; frame adjustable to fit doors from 1-%" - 1-34" thick. 1-14" Trim Mitered & Welded Corners.

Core:



Basic blade unit only: for interior door or as transom louver held in place with wood or metal moulding (by others); any size door

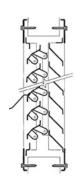


C:

Basic blade unit with single flanged frame welded to corridor side. Wood or metal moulding (by others) used on opposite side; fits any size door. 1-14" Trim Mitered & Welded Corners.











1200A SERIES: ADJUSTABLE TWIN Z-BLADE

For 1-34" or Larger Wood or Metal Doors

PRODUCT DETAILS:

Size: Min Size: 10" x 6" - Max Size: 24" x 36" For multiple section sizes see submittal. Frame Material: 18 Gauge Cold Rolled Steel

Frame Construction: Mitered and welded corners. Louver

frame is screwed into door from 2 sides. **Blade Material:** 18 Gauge Cold Rolled Steel

Blade Spacing: 1" Door Thickness: 1-34" Free Flow Area: 43%

Standard Finish: Mineral Bronze

Optional Powder Coat Finishes: Gray, Black, Flat Black,

White, Silver, Brass, Sand, AMS Beige, SC Beige

ADDITIONAL OPTIONS:

Materials:

18 Gauge Electro Zinc Plated Steel 20 Gauge 304 Stainless Steel #4 Finish

Bird or Insect Screen: Attached to interior of louver.

1400 SERIES: ALUMINUM STORM-PROOF Z-BLADE

For 1-%" to 1-34" Weather-Proof Doors in Exterior Environments

PRODUCT DETAILS:

Size: Min Size: 8" x 8" - Max Size: 36" x 80"

Frame Material: .063" thick 6063-T5 extruded Aluminum.
Frame Construction: Mitered and welded corners. Louver

frame is screwed into door from 2 sides.

Blade Material: .063" thick 6063-T5 extruded Aluminum.

Blade Spacing: 1"

Door Thickness: 1-% - 1-34"

Mounting Options: 1400 Core, 1400C, 1400A

Free Flow Area: 35%

Standard Finish: Mill

ADDITIONAL OPTIONS:

Bird or Insect Screen: Attached to roll-formed frame on non-corridor side of louver.

LOUVER MOUNTING OPTIONS FOR 1400 SERIES



Basic blade unit with flanged frame welded to corridor side and separate flanged frame on room side; frame adjustable to fit doors from 1-3/4" - 1-3/4" thick. 1-3/4" Trim Mitered & Welded Corners.

Core:



Basic blade unit only: for interior door or as transom louver held in place with wood or metal moulding (by others); any size door.



Basic blade unit with single flanged frame welded to corridor side. Wood or metal moulding (by others) used on opposite side; fits any size door. 1-¼" Trim Mitered & Welded Corners.









900 SERIES: STANDARD Z-BLADE

For 1-3/8" to 1-3/4" Doors

PRODUCT DETAILS:

Size: Min Size: 6" x 4" - Max Size: 48" x 80" For multiple section sizes see submittal Frame Material: 18 Gauge Cold Rolled Steel Blade Material: 18 Gauge Cold Rolled Steel

Blade Spacing: 1" Door Thickness: 900A1: 1-34"

900 Core, 900C, 900A: 1-% - 1-34"

Mounting Options: 900A1, 900 Core, 900C, 900A

Free Flow Area: 43%

Standard Finish: Mineral Bronze

Optional Powder Coat Finishes: Gray, Black, Flat Black,

White, Silver, Brass, Sand, AMS Beige, SC Beige

ADDITIONAL OPTIONS:

Materials:

18 Gauge Electro Zinc Plated Steel 18 Gauge 304 Stainless Steel #4 Finish

18 Gauge Galvanneal Steel 16 Gauge Cold Rolled Steel

Bird or Insect Screen: Attached to roll-formed frame.

900FPL SERIES: EXTERIOR Z-BLADE

For 1-34" Doors in Exterior Environments

PRODUCT DETAILS:

Size: Min Size 10" x 10" - Max Size: 36" x 84" For multiple section sizes see submittal Frame Material: 20 Gauge Galvanneal Steel

Frame Construction: 2" trim, mitered and welded corners. Screws fasten through frame into louver core, leaving

exterior side of frame free of fasteners.

Blade Material: 18 Gauge Galvanneal Steel

Blade Spacing: 2-1/4"

Bird Screen: Standard. 1/4" galvanized steel mesh installed

on room side of louver.

Door Thickness: 1-34"

Free Flow Area: 50%

Standard Finish: Gray

Optional Powder Coat Finishes: Mineral Bronze, Black, Flat Black, White, Silver, Brass, Sand, AMS Beige, SC Beige

ADDITIONAL OPTIONS:

Materials:

16 Gauge Galvanneal Steel

Insect Screen: 18 x 14 mesh on removable frame. **Insect Screen Options:** Aluminum, Bronze, Fiberglass,

Stainless Steel

LOUVER MOUNTING OPTIONS FOR 900 SERIES



Self-attaching, vandal-proof design; basic blade unit with flanged frame welded to corridor side and separate removable flanged frame; fits 1-34" Trim Mitered & Welded Corners.





Basic blade unit only: for interior door or as transom louver held in place with wood or metal moulding (by others); any size door.



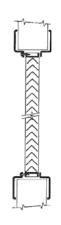
Basic blade unit with single flanged frame welded to corridor side. Wood or metal moulding (by others) used on opposite side; fits any size door. 1-¼" Trim Mitered & Welded Corners.



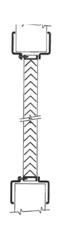
Basic blade unit with flanged frame welded to corridor side and separate flanged frame on opposite side; frame adjustable to fit doors from 1-3/4" thick. 1-1/4" Trim Mitered & Welded Corners.











600 SERIES: INVERTED V-BLADE

For 1-3/8" to 1-3/4" Doors

PRODUCT DETAILS:

Size: Min Size: 6" x 4" - Max Size: 24" x 80" For multiple section sizes see submittal Frame Material: 18 Gauge Cold Rolled Steel Blade Material: 20 Gauge Cold Rolled Steel

Blade Spacing: 1/2" **Door Thickness:** 600A1: 1-34"

600 Core, 600C, 600A: 1-% - 1-34"

Mounting Options: 600A1, 600 Core, 600C, 600A

Free Flow Area: 60% Free

Standard Finish: Mineral Bronze

Optional Powder Coat Finishes: Gray, Black, Flat Black,

White, Silver, Brass, Sand, AMS Beige, SC Beige

ADDITIONAL OPTIONS:

Materials:

18 Gauge Electro Zinc Plated Steel

18 Gauge 304 Stainless Steel #4 Finish

18 Gauge Galvanneal Steel

16 Gauge Cold Rolled Steel

Bird or Insect Screen: Attached to roll-formed frame.

1300 SERIES: ALUMINUM INVERTED V-BLADE

For 1-%" to 1-%" Doors in Humid and Exterior Environments

PRODUCT DETAILS:

Size: Min Size 6" x 4" - Max 24" x 80"

For multiple section sizes see submittal

Frame Material: .050 Aluminum Blade Material: .050 Aluminum

Blade Spacing: 1/2" Door Thickness: 1300A1: 1-34"

1300 Core, 1300C, 1300A: 1-% - 1-34"

Mounting Options: 1300A1, 1300 Core, 1300C, 1300A

Free Flow Area: 60% Free

Standard Finish: Silver

Optional Powder Coat Finishes: Gray, Black, Flat Black, White, Brass, Sand, AMS Beige, SC Beige, Mineral Bronze

ADDITIONAL OPTIONS:

Bird or Insect Screen: Attached to roll-formed frame.

LOUVER MOUNTING OPTIONS FOR 600 & 1300 SERIES

A1:

Self-attaching, vandal-proof design; basic blade unit with flanged frame welded to corridor side and separate removable flanged frame; fits 1-3/4" door only.

Welded Corners.

1-14" Trim Mitered &

Core:

Basic blade unit only: for interior door or as transom louver held in place with wood or metal moulding (by others); any size door.



Basic blade unit with single flanged frame welded to corridor side. Wood or metal moulding (by others) used on opposite side; fits any size door.

1-1/4" Trim Mitered & Welded Corners.

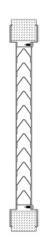


A:

Basic blade unit with flanged frame welded to corridor side and separate flanged frame on opposite side; frame adjustable to fit doors from 1-%" -1-34" thick. 1-1/4" Trim Mitered & Welded Corners.

LOUVERS





800 SERIES: INVERTED Y-BLADE

For 1-3/8" to 1-3/4" Doors

PRODUCT DETAILS:

Size: Min Size: 6" x 4" - Max Size: 48" x 80" For multiple section sizes see submittal Frame Material: 18 Gauge Cold Rolled Steel Blade Material: 20 Gauge Cold Rolled Steel

Blade Spacing: 1" Door Thickness: 800A1: 1-34"

800 Core, 800C, 800A: 1-% - 1-34"

Mounting Options: 800A1, 800 Core, 800C, 800A

Free Flow Area: 50%

Standard Finish: Mineral Bronze

Optional Powder Coat Finishes: Gray, Black, Flat Black,

White, Silver, Brass, Sand, AMS Beige, SC Beige

ADDITIONAL OPTIONS:

Materials:

18 Gauge Electro Zinc Plated Steel

18 Gauge Frame & 20 Gauge Blade Stainless Steel #4 Finish

18 Gauge Galvanneal Steel

16 Gauge Cold Rolled Steel

Bird or Insect Screen: Attached to roll-formed frame.







LOUVER MOUNTING OPTIONS FOR 800 SERIES

A1:



Self-attaching, vandal-proof design; basic blade unit with flanged frame welded to corridor side and separate removable flanged frame; fits 1-¾" door only. 1-¼" Trim Mitered & Welded Corners.

Core:



Basic blade unit only: for interior door or as transom louver held in place with wood or metal moulding (by others); any size door.



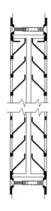
Basic blade unit with single flanged frame welded to corridor side. Wood or metal moulding (by others) used on opposite side; fits any size door. 1-¼" Trim Mitered & Welded Corners.



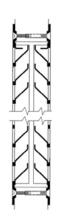
Basic blade unit with flanged frame welded to corridor side and separate flanged frame on opposite side; frame adjustable to fit doors from 1-3%" - 1-34" thick. 1-44" Trim Mitered & Welded Corners.











1500A SERIES: SECURITY INVERTED Y-BLADE

For Vandal-Proof Building Design

PRODUCT DETAILS:

Size: Min Size 6" x 6" - Max Size: 36" x 80" For multiple section sizes see submittal Frame Material: 18 Gauge Cold Rolled Steel

Frame Construction: Security grille is welded to interior and exterior of louver with 13/16" square openings 1" on

center.

Thru-bolted to door.

Blade Material: 18 Gauge Cold Rolled Steel

Blade Spacing: 1"

Grille Material: 12 Gauge Cold Rolled Steel

Door Thickness: 1-¾" Free Flow Area: 40%

Standard Finish: Mineral Bronze

Optional Powder Coat Finishes: Gray, Black, Flat Black,

White, Silver, Brass, Sand, AMS Beige, SC Beige

ADDITIONAL OPTIONS:

Materials:

18 Gauge Electro Zinc Plated Steel 16 Gauge Cold Rolled Steel

Bird or Insect Screen: Attached to interior of louver.

1500AHR: HURRICANE-RATED INVERTED Y-BLADE 5

For Severe Windstorm & Exterior Environments

PRODUCT DETAILS:

Size: Min Size 6" x 6" - Max Size: 24" x 64"

Frame Material: 18 Gauge Electro Zinc Plated Steel

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

Thru-bolted to door.

Blade Material: 18 Gauge Electro Zinc Plated Steel

Blade Spacing: 1"

Grille Material: 12 Gauge Electro Zinc Plated Steel

Door Thickness: 1-3/4" Free Flow Area: 40%

Standard Finish: Mineral Bronze

Optional Powder Coat Finishes: Gray, Black, Flat Black,

White, Silver, Brass, Sand, AMS Beige, SC Beige

HURRICANE RATING:

Severe Windstorm Rating:

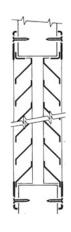
Warnock Hersey Listed and Labeled to ASTM E330, ASTM E1886, ASTM E1996, ANSI A250.13, TAS 201, TAS 202, TAS 203

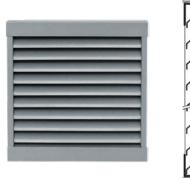
Florida Product Approval: File # FL13341-R3

ADDITIONAL OPTIONS:

Bird or Insect Screen: Attached to interior of louver.









700A SERIES: INVERTED SPLIT Y-BLADE

For 1-3/4" or Larger Wood or Metal Doors

PRODUCT DETAILS:

Size: Min Size 6" x 4" - Max 48" x 80"

For multiple section sizes see submittal Frame Material: 18 Gauge Cold Rolled Steel

Frame Construction: 1-¼" trim, with mitered and welded corners and countersunk mounting holes. Louver frame is

screwed into door from 2 sides. **Blade Material:** 18 Gauge Cold Rolled Steel

Blade Spacing: 1"

Door Thickness: 1-%" minimum Free Flow Area: 50% Free

Standard Finish: Mineral Bronze

Optional Powder Coat Finishes: Gray, Black, Flat Black, White, Silver, Brass, Sand, AMS Beige, SC Beige

ADDITIONAL OPTIONS:

Materials:

18 Gauge Electro Zinc Plated Steel

18 Gauge 304 Stainless Steel #4 Finish

18 Gauge Galvanneal Steel

16 Gauge Cold Rolled Steel

Bird or Insect Screen:

Attached to interior of louver.

700TL SERIES: INVERTED SPLIT Y-BLADE

For Hollow Metal Frames & Transoms

PRODUCT DETAILS:

Size: Min Size 6" x 4", Max 36" x 36".

For multiple section sizes see submittal Frame Material: 18 Gauge Cold Rolled Steel

Frame Construction: "U" channel frame for Flush Mounting

Blade Material: 18 Gauge Cold Rolled Steel

Blade Spacing: 1"

Frame: For installation into hollow metal frame by others.

Free Flow Area: 50% Free

Standard Finish: Gray

Optional Powder Coat Finishes: Mineral Bronze, Black, Flat Black, White, Silver, Brass, Sand, AMS Beige, SC Beige

ADDITIONAL OPTIONS:

Materials:

20 Gauge Electro Zinc Plated Steel

18 Gauge 304 Stainless Steel #4 Finish

18 Gauge Galvanneal Steel

16 Gauge Cold Rolled Steel

Bird or Insect Screen: Attached to interior of louver.

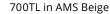






700A in Flat Black







700TL in White

LATCH-SIDE DOOR EDGE: DL

UP TO 90 MIN

Protects exposed latch side of door when open. Commonly ordered three-sided.

PRODUCT DETAILS:

Material: 20 Gauge Cold Rolled Steel or 20 Gauge Stainless

Steel

Optional Astragal Material: 18 Gauge Cold Rolled Steel

Dimensions*: 1-34" x 1" Maximum Length: 108" Door Thickness: 1-34"

Standard Finish: Mineral Bronze

Optional Powder Coat Finishes: Gray, Black, Flat Black, White, Silver, Brass, Sand, AMS Beige, SC Beige

ADDITIONAL OPTIONS:

Dimensions: Door Thickness, Leg Width

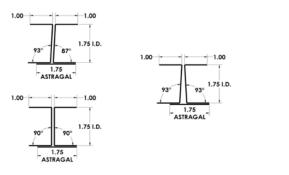
Materials:

18 Gauge Stainless Steel #4 Finish 20 Gauge Galvanneal Steel

Other: Leadlined, Fire-Rated Marking

FIRE RATING:

Warnock Hersey listed and labeled (upon request) for 90 minutes up to 108" maximum length per NFPA 252, UL10B, CAN/ULC S104, UL10C.



*Different Profiles and Materials may affect dimensions & listings. See submittals for details.

HINGE-SIDE DOOR EDGE: DH

Protects exposed hinge side of door when open. Commonly ordered two-sided.

PRODUCT DETAILS:

Material: 18 Gauge Stainless Steel #4 Finish

Dimensions: 1-¾" x 7/8" Maximum Length: 108" Door Thickness: 1-¾"

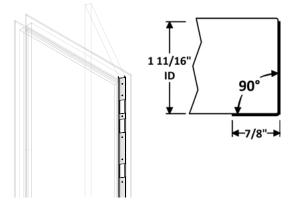
ADDITIONAL OPTIONS:

Dimensions*: Door Thickness, Leg Width

Materials*:
Brass: US3, US4
Bronze: US10, US10B
Stainless Steel: US32DMS

CRS: 18 Gauge Cold Rolled Steel with Powder Coat

Other: Leadlined, Fire-Rated Marking



*Different Profiles and Materials may affect dimensions & listings. See submittals for details.

ASTRAGALS: DA

UP TO 90 MIN

Standalone Astragal, help mitigates sound, light, weather, and smoke infiltration.

PRODUCT DETAILS:

Material: 18 Gauge Cold Rolled Steel

Dimensions: 1/8" X 2"

Maximum Length: 108"

Door Thickness: 1-34"

Standard Finish: Mineral Bronze

Optional Powder Coat Finishes: Gray, Black, Flat Black, White, Silver, Brass, Sand, AMS Beige, SC Beige

FIRE RATING:

Materials:

ADDITIONAL OPTIONS:

18 Gauge #304 Stainless Steel

Other: Leadlined, Fire-Rated Marking

20 Gauge Galvanneal Steel

Warnock Hersey listed and labeled (upon request) for 90 minutes up to 108" maximum length per NFPA 252, UL10B, CAN/ULC S104, UL10C.

*Different Profiles and Materials may affect dimensions & listings. See submittals for details.





TERMINOLOGY

Non-Mortised: Air Louvers standard door edge that wraps around the width of the door.

Mortised: Requires a recess to be cut in the door to accomodate the door edge.

Three-Sided: Provides protection to edge and both sides of door.

Two-Sided: Protects front edge and one side of door while maintaining clean look on the other.

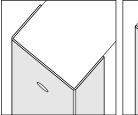
Overlapping: For Door Latch-Side Only

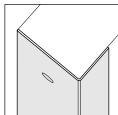
Allows spacing for kickplate and door edge to be used simultaneosuly. Available in both Two or Three-Sided configurations, cannot be mortised.

Square: 90° angle, measured on the "key" side of the door.

Bevel: A non-90° angle, measured on the "key" side of the door. Door Angle is determined by the swing direction of the door; 93° for inswing doors and 87° for outswing doors.

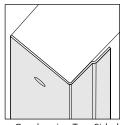
Astragal: Strip of material that covers the gap between a pair of doors. It helps reduce sound, light, weather and smoke infiltration. Sold as both an option on a door edge and as a standalone part.

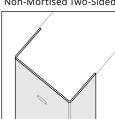




Non-Mortised Three-Sided

Non-Mortised Two-Sided





Overlapping Two-Sided

90°

Mortised Three-Sided

93 ° Bevel

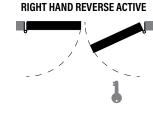
UNDERSTANDING HANDEDNESS & ACTIVE VS NON-ACTIVE

INSWING DOORS

RIGHT HAND ACTIVE LEFT HAND ACTIVE

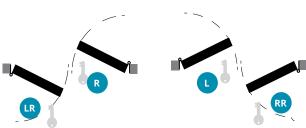
REVERSE OR OUTSWING DOORS

LEFT HAND REVERSE ACTIVE



While facing the "key" (outside or secure) side of a pair of doors, the single door of the pair-- also called a leaf - is the "active" side if installed with a key. The inactive door can usually only be opened after the active door. Single doors will follow the same handing as the active door.

DOUBLE EGRESS

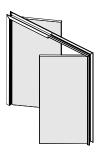


LEFT HAND REVERSE ACTIVE OR RIGHT HAND ACTIVE

RIGHT HAND REVERSE ACTIVE OR LEFT HAND ACTIVE

A pair of doors that swing in opposite directions, allowing traffic to use both directions without collision. Comes in pairs of 93° and 87° edges.

Double Egress Handing is different from normal double doors. Both doors in the pair will have the same handing. The most common handing is Left Hand Reverse Active. Depending on hardware placement this can also be refered to as Right Hand Active.



DOOR EDGE - LATCH SIDE:

| DL | Non-Mortise & Three-Sided | DLT Non-Mortise & Two-Sided | DLM Mortise & Three-Sided |
|-----|-----------------------------------------|--------------------------------------------|----------------------------------|
| DLJ | Non-Mortise & Three-Sided & Overlapping | DLJT Non-Mortise & Two-Sided & Overlapping | DLMT Mortise & Two-Sided |

INSWING DOORS

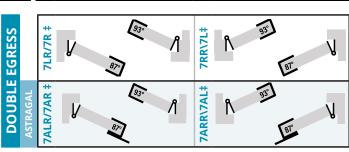
| | INSWING DOOKS | | | | | | | | | | | | | | | |
|--------|---------------|--------------|------------------|---|------|-------|--------------|-----|-----------|------------------|-----|---|-------------------|---|------------|-----|
| | | SQUARE - 90° | | | | | BEVEL - 93°† | | | | | | | | | |
| | | | LEFT HAND ACTIVI | E | | RIGHT | HAND ACT | IVE | | LEFT HAND ACTIVE | | | RIGHT HAND ACTIVE | | CTIVE | |
| SINGLE | | 2F | g gg | Î | 5R | Î | 290 | Å | 4F | ١ . | 93 | Î | 4R | î | 9 3 | , A |
| | ASTRAGAL | 2AL* | 90° | Î | 5AR* | Î | 90° | /I | 3AL* | N | 93° | Î | 3AR* | Î | 93° | Å |
| PAIR | | 16 | 90. | Î | 9R | i | 90° | Å | 18 | ١ . | 93° | Î | 88 88 | Î | 93' | 1 |
| /A | ASTRAGAL | 9AL | 90. | Î | 9AR | ı | 90° | /Î | 8AL | ١ . | 93° | Î | 8AR | Î | 93° | /1 |

OUTSWING DOORS

| | | SQUAF | RE - 90° RIGHT HAND REVERSE ACTIVE | BEVEL - 87°† LEFT HAND REVERSE ACTIVE RIGHT HAND REVERSE ACTIVE | | | |
|--------|----------|-------------|------------------------------------|------------------------------------------------------------------|-----------------------------------------|--|--|
| GLE | | SLR 7 | SR. Sur. | PLR PLR | 4RR / / / / / / / / / / / / / / / / / / | | |
| SINGLE | ASTRAGAL | 5ALR | SARR SARR | ZALR | ZALR SALR | | |
| R | | 80° 90° 1 | R. 30. | 27 BT | ₩ 87° \ 88° | | |
| PAIR | ASTRAGAL | 94LR 30. | 94R 8 90. | SALR SALR | SARR 85. | | |



Charts Depict bottom of page as key side of door



^{*} Inswing doors take an astragal on the inactive side. Standard active inswing leaves cannot have astragal.

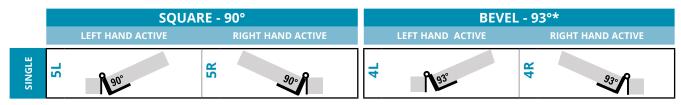
[†] Bevel measured on angle of "Key Side".

[‡] Double Egress Handing is determined by hardware. See submittal.

DOOR EDGE - HINGE SIDE:

DH Non-Mortise & Three-Sided DHM Mortise & Three-Sided DHT Non-Mortise & Two-Sided DHMT Mortise & Two-Sided

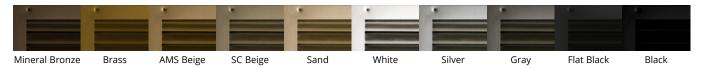
INSWING DOORS



OUTSWING DOORS

| | SQUAF | RE - 90° | BEVEL - 87° | | | |
|--------|--------------------------|---------------------------|---------------------------------------------------|---------|--|--|
| | LEFT HAND REVERSE ACTIVE | RIGHT HAND REVERSE ACTIVE | LEFT HAND REVERSE ACTIVE RIGHT HAND REVERSE ACTIV | | | |
| SINGLE | SI-R | JR R 8 | 4 93° | 93° 93° | | |

AIR LOUVERS COLORS



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