



Glazing

Product	Description	<u>Fire</u> Rating	<u>Impact</u> Rating	<u>Page</u>
<u>r roddot</u> WireShield™	1/4" Filmed Wire Glass—Fire & Smoke Barrier	90	CAT II	<u>1 ugo</u> G1
KeraShield FRF™	3/16" Filmed Ceramic Glass—Fire & Smoke Barrier	3 hr	CAT II	G2
Pyran® Platinum F	3/16" Filmed Glass Ceramic with Neutral Tint—Fire & Smoke	3 hr	CAT II	G3
KeraShield FRU™	3/4" Laminated Ceramic Glass - Fire & Smoke Barrier	3 hr	CAT II	G4
KeraShield FRL™	5/16" Laminated Ceramic Glass—Fire & Smoke Barrier	3hr	CAT II	G5
ContraShield 60™	1" Laminated Glass - Radiant & Conducted Heat Barrier	60	CAT II	G6
ContraShield 90™	1-7/16" Laminated Glass - Radiant & Conducted Heat Barrier	90	CAT II	G6
ContraShield 45™ (Formerly SwissShield 45	3/4" Laminated Glass - Fire & Smoke Barrier	45	CAT II	G7
Tempered Glass	1/4" Tempered Glass		CAT II	G8
PYROGlass- Shield™	1/4" 20 Minute Fire-Rated Safety Glass—Fire & Smoke Barrier	20	CAT II	G9
ArmrShield™	.78-1.3" Polycarbonate Laminate for Bullet & Storm Resistance		Level I-III	G10
Laminated Glass	1/4"-3/4" Laminated Safety-Rated Tempered		CAT II	G10
HURR Glass	5/16"-9/16" Laminated Safety Glass for Storm Resistance		CAT II	G10
Insulated Glass	1/2"-1-1/2" Insulated Glass—Tempered		CAT II	G11
Bullet Resistant Glass	.85"-1.43" Glass Laminate for Bullet & Storm Resistance		Level I-3	G12
Lead Glass	5/16" Leadlined Glazing for X-Ray Shielding		CAT II	G13
Privacy Glass Options	Operable Privacy Panel by Vistamatic ® & Miniblind IGU			G14

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ALPDS1612

800-554-6077



GENERAL INFORMATION, GLAZING TAPE & GLASS CUTTING

QUICK SHIP

Many standard sizes of out most popular glazing and vision lites are available in one or more of our **10 warehouses** in Lancaster PA, Bloomington MN, Commerce CA, Atlanta GA, Seattle WA, Fort Myers FL, Dallas TX, Fargo ND, Omaha NE or Chicago IL.

<u>Check the Stock list at WWW.AIRLOUVERS.COM for the most current listing.</u>

GLASS CUTTING CAPABILITIES IN CALIFORNIA & MINNESOTA

Air Louvers glass cutting capabilities in the Commerce California plant include 4 types of glazing – WireShield, KeraShield and PYRAN Platinum Plus. In Minnesota, we can cut KeraShield, WireShield and PYRAN Platinum Plus, all with the UL label. With this improvement, lead-times for glass can be reduced in many cases by more than a week. Any order under 15 square feet will incur a \$12.00 special packaging fee.

CUSTOM ORDERS & SPECIAL SIZES

We can help you with special requests such as oversize orders, tinting or obscure patterns. Call Customer Service for more information. Bullet-Resistant Glazing (ArmrShield & BRG), laminated (LAMI), insulated (INSU), hurricane-rated (HURR), miniblinds in glass, VISTA privacy panel and LGShield Lead Glass are quoted on application.

LISTING & MARKING

Each piece of glazing that is fire-rated or safety-rated carries a permanent marking with the manufacturer, rating and listing agency. See individual product pages to view an example.

UL10B installations in Air Louvers Vision Frames do not require fire-rated glazing tape to achieve the listing, however we recommend that a PVC glazing tape be applied to both sides of glass to avoid glass to metal contact which may result in breakage.

Most vision frames have been tested and **Listed for UL 10C** and Criteria of UBC 7-2 Positive Pressure. Additional fire-rated intumescent glazing tape may be required to meet those requirements. Please request at the time of order & see detailed installation instructions for each model.

GLAZING TAPE—SEE INSTALLATION INSTRUCTIONS

GTAPE2000B: Black medium density closed cell PVC glazing tape with adhesive backing - 1/16" x 3/8" x 200'

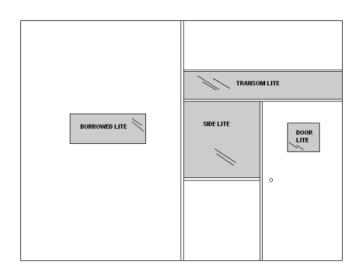
GTAPE1/8-75B: Black medium density closed cell PVC glazing tape with adhesive backing—1/8" x 3/8" x 75"
- Required only for UL10C installation instruction in USL 20 min. wood doors with a UL Label

FGS4590-7: Fire-rated intumescent tape with adhesive backing for Positive Pressure-Listed Doors - 7'

FGS4590-8: Fire-rated intumescent tape with adhesive backing for Positive Pressure-Listed Doors - 8'



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





This Patented Glass meets IBC 2012 CAT II Human Impact Safety Standards Plus Carries a 20-90 Minute Fire Rating

WS SPECIFICATIONS:

Annealed single glazing with safety film applied to one side & embedded 3/4 x 3/4" wire mesh.				
1/4" (6 mm)				
3.0 lbs/sq. ft.				
86% approx.				
STC 28				
7 mil Safety Film				
USA				
10 year limited warranty				
Diamond (diagonal) Baroque (horizontal				
Minimum 4" x 4", max. sheet size 57" x 99"				

LABELING:







Each lite of WireShield will be permanently labeled, in accordance with NFPA 80, with the product and manufacturer's name, testing laboratory, fire rating and safety rating. See example of label above. **Most Glass is UL Labeled. WHI Labeling from CA by Request.**

LISTINGS & RATINGS:

This product is classified by Underwriters Laboratories and Intertek/ Warnock Hersey, Inc for fire-and impact resistance only.

Tested in accordance with: UL 9, UL 10B, UL 10C; NFPA 80, NFPA 252, NFPA 257; ASTM E2074, E152, E163, E2010-01; ULC CAN4-S104 & CAN4-S106.

Listing: Up to 90 minutes with hose stream test.

Impact Safety Rating: CPSC 16CFR 1201 (CAT | & II)

Positive Pressure Rating: UL10C Patent#: 7090906

INSTALLATION:

Use glazing compound or glazing tape on both sides of glass, install in an appropriately-listed and labeled vision frame. Certain optical and visual imperfections are inherent in the production process. These characteristics may be evaluated according to the manufacturer's quality standards but do not impair the transparency or affect the performance of the glass in case of fire, and shall not be considered cause for rejection.

Air Louvers frames for VLF, VLFEZ, VSL (Slimline)

Assembly	Time Rating (minute)	Maximum Exposed Area	Maximum Width*	Maximum Height*	Building Code Marking
Doors - Steel	20	3,289in²	36"	92"	D-NH-T-90
Doors - Wood	20	2,856 in ²	36"	84"	D-NH-T-90
Sidelites/Windows	20	4,608 in ²	SL:86"/W:99"	99"	OH-90
Transoms	20-45	3,456 in ²	96"	36"	OH-90
Doors - Steel	45	2,856 in ²	34"	84"	D-NH-T-90
Doors - Wood	45	1,296 in ²	36"	54"	D-NH-T-90
Sidelites/Windows	45	4,608 in ²	99"	99"	OH-90
Doors - Wood	60	960 in²	12	80"	D-NH-T-90
Doors - Steel	60-90	552 in²	12"	46"	D-NH-T-90
Doors Steel or Wood - Temp Rise	60-90	100 in ²	10"	33"	D-NH-T-90

^{*} Please note that combined height and width cannot exceed the maximum exposed area measurement.

STOCK ITEM - THIS ITEM IN STOCK FOR NEXT DAY SHIPMENT IN MANY STANDARD SIZES FROM CA AND MN WAREHOUSES

Order Format: WS _____ (W) _____ (H)-14 Example: WS 1212-14 Note: Order Size is Actual Glass Size

Interpretation of Fire and Building Codes May Vary. Consult with the Local Authority Having Jurisdiction (AHJ) to determine appropriate standards.

ΔIR	Distributor:
LÖÜVERS	Architect:
ACTIVAD	Contractor:
CONSTRUCTION PRODUCTS GROUP	Project:

800-554-6077

	Distributor:		Width:	x Height	!	_	
	Architect:		Quantity:				
,	Contractor:		Fire Rating: _	20	_ 45 _	60 _	90
INC.	Project:		Date:		Version: ALPDS1612		
QUOTES	@ACTIVARCPG.COM	ORDERS@ACTIVARCPG.COM	SALES@ACTIVAR	CPG.COM	Fa	x: 952-835	5-2218



KERASHIELD™ FRF GLAZING: KFRF- REV A

A Ceramic Glass that is Impact & Safety-Rated with an STC Value of 35. Meets the Fire and Safety-Ratings for up to 90 Minutes. All KFRF has Now Been Upgraded to the More Clear, Polished "Select" Glass.

KFRF SPECIFICATIONS:

Description:	Ceramic glass with a surface-applied safety film.
Thickness:	3/16" (5 mm)
Weight:	2.4 lbs/sq. ft.
Light Transmission:	88% approx.
STC:	35
Haze Value:	.5%
Color Rendering Index:	97.1 out of 100
Film:	3M Scotchshield® Ultra Safety Film (one side)
Warranty:	Three year limited warranty
Fabricated:	USA
Size:	Minimum size 4" x 4", max sheet size 46" x 96"
Options at Additional Cost:	Etched for obscure effect Exterior glazing option.
Additional Cost.	LAtorior glazing option.

LABELING:

Each lite of KeraShield FRF will be permanently labeled, in accordance with NFPA 80,

with the product and manufacturer's name, testing laboratory, fire rating period and safety rating. See example of label above.

LISTINGS & RATINGS:

This product is classified by Underwriters Laboratories for fire-and

impact resistance only. UL listing #R14515.

Tested in accordance with: NFPA 80, NFPA252, NFPA257

UL10b, UL10C, CAN/ULC-S106, S104.

Impact Safety Rating: CPSC 16CFR 1201 (CAT | & II)

Listing: Up to 3 hours with hose stream test.

Positive Pressure Rating: UL10C

UL Environmental Product Declaration (EPD)

ALL KFRF IS NOW UPGRADED TO KERASHIELD SELECT

KeraShield Select is polished for a nearly distortion-free surface, sharper viewing, truer color and the least haze of any glass ceramics available. High Visible Light Transmission (VLT) contributes to LEED points. See website for more information on this product.

INSTALLATION:

Use glazing compound or glazing tape on both sides of glass, install in an appropriately-listed and labeled vision frame.

Certain optical and visual imperfections are inherent in the production process. These characteristics may be evaluated according to the manufacturer's quality standards but do not impair the transparency or affect the performance of the glass in case of fire, and shall not be considered cause for rejection.

Air Louvers frames for KFRF: VLF, VLFEZ, VSL.

Assembly	Time Rating (minutes)	Maximum Exposed Area	Maximum Width Exposed Area*	Maximum Height Exposed Area*	Building Code Marking
Door - Non Temp Rise	45	3627 in ²	46"	78"	D-H-NT-45
Window, Transom Lite, Sidelite	45	4515 in ²	46"	95 1/2"	OH-45
Door - Non Temp Rise	60	3627 in ²	46"	78"	D-H—NT-60
Window, Transom Lite, Sidelite	60	4515 in ²	46"	95 1/2"	OH-60
Door - Temp Rise	60-90	100 in ²	10"	33"	D-H-NT-60 (or 90)
Door - Non Temp Rise	90	3534 in ²	46"	76"	D-H-NT-90
Window, Transom Lite, Sidelite	90	4515 in ²	46"	95 1/2"	OH-90
Window, Transom Lite, Sidelite	120	4515 in ²	46"	95 1/2"	OH-120
Door - Non Temp Rise & Temp Rise	3 hours	100 in ²	10"	33"	D-H-NT-180

^{*} Please note that combined height and width cannot exceed the maximum exposed area measurement. Max sheet size 46" x 96" (45" x 95" usable)

Note: Glass-ceramics do not act as a barrier to radiant or conducted heat transfer (ASTM E119/UL 263) and as such, use in openings with fire ratings of 60 minutes or greater may require approval from the local authority having jurisdiction (AHJ).

STOCK ITEM - THIS ITEM IN STOCK FOR NEXT DAY SHIPMENT IN MANY STANDARD SIZES FROM CA AND MN WAREHOUSE

Order Format: KFRF _____ (W) ____ (H)-316 Example: KFRF 2329-316 Note: Order Size is Actual Glass Size

Interpretation of Fire and Building Codes May Vary. Consult with the Local Authority Having Jurisdiction (AHJ) to determine appropriate standards.

AIR	Distributor:		Width:x Height	· ·
LÖÜVERS	Architect:		Quantity:	
ACTIVAR _{INC.}	Contractor:		Fire Rating: 45 6	0 90 120 3HR
CONSTRUCTION PROBUCTS GROUP	Project:		Date:	Version: ALPDS1612
800-554-6077 QUOTE	S@ACTIVARCPG.COM	ORDERS@ACTIVARCPG.COM	SALES@ACTIVARCPG.COM	Fax: 952-835-2218



PYRAN® Platinum F is a Glass Ceramic that Meets CPSC CAT I and CAT II Impact Resistance
Ratings and is Fire-Rated from 20-180 Minutes. Neutral Coloration Designed to More Closely Match Float Glass.
LEED "ID" Credit, Cradle-to-Cradle Certified by MBDC², Environmentally Preferable Purchasing Product (EPP)
The Worlds Only Fire-Rated Glass Ceramic Made without Hazardous Chemical Process

PPF SPECIFICATIONS:

Description:	Glass Ceramic with Surface-applied film.
Thickness:	3/16" (5mm)
Weight:	2.5 lbs. per sq. ft
Light Transmission:	80%
STC:	31
Film:	Heavy-duty Safety Film (one side)
Fabricated:	USA
Warranty:	10 year warranty
Options at Additional Cost:	Available in Tinted Glass Two Pane Laminate—See PPL on Website
Green Manufacturing Process:	Environmentally-friendly manufacturing process without toxins, heavy metals and the need for surface polishing.
Size:	Minimum size 4" x 6", max sheet size 41" x 75".

LABELING:







Each lite of PYRAN® Platinum F is permanently labeled, in accordance with NFPA 80, with the product and manufacturer's name, testing laboratory, fire rating and safety rating. See example of label above.

Glass is UL Labeled. WHI Labeling by Request—Must be Noted on P. O.

LISTINGS & RATINGS:

This product is classified by Underwriters Laboratories and Intertek/ Warnock Hersey, Inc for fire-and impact resistance only. **Tested in accordance with:** (ASTM E2074, ASTM E-2010-01) , (UL9, UL10B), (NFPA 80, 252 & 257), (ULC CAN4-S104 & CAN4-S106).

Impact safety rating: CPSC 16CFR 1201 CAT. I & CAT. II

Listing: Up to 3 hours with hose stream test.

Positive Pressure Rating: UL10C.

INSTALLATION:

Use glazing compound or glazing tape on both sides of glass, install in an appropriately-listed and labeled vision frame. PYRAN Platinum® F glass is a specialty fire resistant glazing material. Certain optical and visual imperfections are inherent in the production process. These characteristics may be evaluated according to the manufacturer's quality standards but do not impair the transparency or affect the performance of the glass in case of fire, and shall not be considered cause for rejection.

Air Louvers frames for PPF: VLF, VLF-EZ, VSL.

Assembly	Time	Intertek Warnock Hersey Listing (Optional by Request Only):			UL L	isting (Standar	d):
Assembly	Rating (Min)	Maximum Exposed Area*	Maximum Width *	Maximum Height *	Maximum Exposed Area*	Maximum Width *	Maximum Height *
Door - Non Temp-Rise	20-90	2,799 in ²	36"/914.4 mm	75"/1875 mm	2,736 in ²	36"/914.4 mm	75"/1875 mm
Sidelites, Window, Transoms	20-90	3,323 in ²	75"/1875 mm	75"/1875 mm	3,422 in ²	75"/1875 mm	75"/1875 mm
Door - Temp-Rise or Non Temp Rise	3 hours	100 in²	10"/254 mm	33"/838.2 mm	100 in²	12"	33"/838.2 mm

^{*} Please note that combined height and width cannot exceed the maximum exposed area measurement.

Note: Glass-ceramics do not act as a barrier to radiant or conducted heat transfer (ASTM E119/UL 263) and as such, use in openings with fire ratings of 60 minutes or greater may require approval from the local authority having jurisdiction (AHJ).

Order Format: PPF _____ (W) ____ (H)-316 Example: PPF 2434-316 Note: Order Size is Actual Glass Size

STOCK ITEM - THIS ITEM IN STOCK FOR NEXT DAY SHIPMENT IN SEVERAL STANDARD SIZES FROM CA & MN WAREHOUSES

Interpretation of Fire and Building Codes May Vary. Consult with the Local Authority Having Jurisdiction (AHJ) to determine appropriate standards.



² C2C products are certified by McDonough Braungart Design Chemistry (MBDC) a global sustainability consulting & product certification firm.



REV A KERASHIELD™ FRU GLAZING: KFRU

Fire & CAT II Impact-Rated Clear Laminated Glass that and has Excellent Sound-Reduction Properties.

Provides up to a 3 Hour Fire Rating Blocking Fire & Smoke with an STC of 38.

The Only Glass Ceramic Available that Meets NFPA80/UL10C Requirements for 60-90 Minute Temp Rise Doors in Sizes Up to 2,376 Square Inches.

KFRU SPECIFICATIONS:

Description:	Two lites of tempered or laminated safety glass enclosing intumescent interlayers divided by a glass ceramic pane.
Thickness:	3/4" (18 mm)
Weight:	7.5 lbs. per sq. ft
Light Transmission:	79% approximately
STC:	38
U-Value:	.79
Warranty:	Three year limited warranty
Fabricated:	USA
Options at Additional Cost:	Etched for obscure effect. Exterior glazing option.
Size:	Minimum size 12" diagonal. Maximum sheet size 46-1/2" x 76"

<u>LABELING:</u>



SGG KERALITE ULTRA 180 MINUTE CPSC 16CFR 1201-11 VETROTECH ST GOBAIN ID NO 38 GLAZING MATERIALS AS TO FIRE RESISTANCE ONLY

Each lite of KeraShield FRU will be permanently labeled, in accordance with NFPA 80, with the product and manufacturer's name, testing laboratory, fire rating period and safety glazing standards.

LISTINGS & RATINGS:

This product is classified by Underwriters Laboratories for fire-and impact resistance only. UL listing #R14515.

US Listing: UL10B, UL 10C, NFPA 80, NFPA252,

Canada Listing: CAN/ULC-S106, S104.

Impact Safety Rating: CPSC 16CFR 1201 (CAT I & II), CAN/CGSB-

12.1-M, ANSI Z97.1.

Listing: Up to 3 hours with hose stream test.

INSTALLATION:

Use glazing compound or glazing tape on both sides of glass, install in an appropriately-listed and labeled vision frame. Certain optical and visual imperfections are inherent in the production process. These characteristics may be evaluated according to the manufacturer's quality standards but do not impair the transparency or affect the performance of the glass in case of fire, and shall not be considered cause for rejection.

Air Louvers frames for KFRU: VLFIG, VLFEZIG, VSIG, VLFS10

Assembly	Time Rating (minute)	Maximum Exposed Area	Maximum Width Exposed Area*	Maximum Height Exposed Area*	Building Code Marking
Door Non Temp-Rise	45	2736 in ²	46-1/2"	76"	D-H-T-45
Transom, Window, Sidelite	45	2736 in²	60-1/2"	76"	OH-45
Door-Non Temp-Rise & <u>Temp-Rise</u>	60	2736 in ²	46-1/2"	76"	D-H-T-60
Transom, Window, Sidelite	60	2736 in²	60-1/4"	76"	OH-60
Door-Non Temp-Rise & Temp-Rise	90	2736 in ²	46-1/2"	76"	D-H-T-90
Transom, Window, Sidelite	90	2736 in ²	60-1/4"	76"	OH-90
Door- Temp-Rise	3 hr	100 in ²	10"	33"	D-H-T-180

^{*} Please note that combined height and width cannot exceed the maximum exposed area measurement.

Order Format: KFRU (W) (H)-34 Example: KFRU 1212-34 Note: Order Size is Actual Glass Size

Interpretation of Fire and Building Codes May Vary. Consult with the Local Authority Having Jurisdiction (AHJ) to determine appropriate standards.

AIR	Distributor:		Width:x Height	!:
LÖÜVER	Architect:		Quantity: Tem	ıp Rise:YN
ACTIVA	Contractor:		Fire Rating: — 45 —	_ 60 90 3HR
	Project:		Date:	Version: ALPDS1612
800-554-6077	QUOTES@ACTIVARCPG.COM	ORDERS@ACTIVARCPG.COM	SALES@ACTIVARCPG.COM	Fax: 952-835-2218

KERASHIELD™ FRL GLAZING: KFRL REV A





This Ultra-Clear Laminate of Glass-Ceramic & Impact Safety-Rated Material is Recommended for Fire-Rated Applications that Require CAT II Safety Rating & Up to 3 Hour Fire-Rating in Doors with an STC Value of 37.

KFRL SPECIFICATIONS:

Description:	Two lites of clear ceramic fire-resistant safety glass laminated together.		
Thickness:	5/16" (8mm)		
Weight:	4.1 lbs. per sq. ft.		
Light Transmission:	82%		
STC Rating:	37		
U-Value:	.88		
Haze Value:	.5% for each pane with film		
Color Rendering Index:	97.1 out of 100 for each pane		
Warranty:	Five year limited warranty		
Fabricated:	USA		
Options at	Etched for obscure effect.		
Additional Cost: Exterior glazing option.			
Size:	Minimum 12" diagonal. Maximum sheet size 44" x 96".		

LABELING:



SGG KERALITE FR-L 90 MINUTE CPSC 16CFR 1201-11 VETROTECH ST GOBAIN ID NO 38 **GLAZING MATERIALS** AS TO FIRE RESISTANCE ONLY

Each lite of KeraShield FRL will be permanently labeled, in accordance with NFPA 80, with the product and manufacturer's name, testing laboratory, fire rating period and safety glazing standards. See example of label above.

ALL KFRFL IS NOW UPGRADED TO KERASHIELD SELECT

KeraShield Select is polished for a nearly distortion-free surface, sharper viewing, truer color and the least haze of any glass ceramics available. High Visible Light Transmission (VLT) contributes to LEED points. See website for more information on this product.

LISTINGS & RATINGS:

This product is classified by Underwriters Laboratories for fire-and impact resistance only. UL listing #R14515.

US Testing: UL 9, UL 10B, UL10C, NFPA 80, NFPA 252,

NFPA 257.

Canada Listing: CAN/ULC-S106, S104.

Impact Safety Rating: CPSC 16CFR 1201 (CAT I & II), ANSI Z97.1,

CAN/ CGSB-12.1-M

Listing: Up to 3 hours with hose stream test.

INSTALLATION:



Use glazing compound or glazing tape on both sides of glass, install in an appropriately-listed and

labeled vision frame. Certain optical and visual imperfections are inherent in the production process. These characteristics may be evaluated according to the manufacturer's quality standards but do not impair the transparency or affect the performance of the glass in case of fire, and shall not be considered cause for rejection.

Air Louvers frames for KFRL: VLFIG, VLFEZIG, VSIG, VLFS10

Assembly	Time Rating (minutes)	Maximum Exposed Area	Maximum Width Exposed Area*	Maximum Height Exposed Area*	Building Code Marking
Door - Non Temp Rise	45	3627 in ²	46 1/2"	78"	D-H-NT-45
Window, Transom Lite, Sidelite	45	4500 in ²	95 3/8"	95 3/8"	OH-45
Door - Non Temp Rise	60	3627 in ²	46 1/2"	78"	D-H—NT-60
Window, Transom Lite, Sidelite	60	4500 in ²	95 3/8"	95 3/8"	OH-60
Door - Temp Rise	60-90	100 in ²	10"	33"	D-H-NT-60 (or 90)
Door - Non Temp Rise	90	3534 in ²	46 1/2"	78"	D-H-NT-90
Window, Transom Lite, Sidelite	90	4500 in ²	95 3/8"	95 3/8"	OH-90
Door - Non Temp Rise & Temp Rise	3 hours	100 in ²	10"	33"	D-H-NT-180

^{*} Please note that combined height and width cannot exceed the maximum exposed area measurement.

Note: Glass-ceramics do not act as a barrier to radiant or conducted heat transfer (ASTM E119/UL 263) and as such, use in openings with fire ratings of 60 minutes or greater may require approval from the local authority having jurisdiction (AHJ).

Order Format: KFRL (W) (H)-716 Example: KFRL 1212-716 Note: Order Size is Actual Glass Size

Interpretation of Fire and Building Codes May Vary. Consult with the Local Authority Having Jurisdiction (AHJ) to determine appropriate standards.

AIR LOUVERS ACTIVAR INC.		Distributor:		Width:	x Height		_	
		Architect:		Quantity:				
		Contractor:		Fire Rating:	45	_ 60	_ 90	_ 3HR
		Project:		Date: Version: ALF		ALPDS1612		
800-554-6077	QUOTES	MACTIVADEDE COM	OPDEDS@ACTIVAPCDG COM	SALES@ACTIVA	PCPG COM	F۸	v· 952_8	35-2218



REV A CONTRASHIELD™ 60 & 90 GLAZING: CT60 & CT90

Protect Against Fire, Smoke & Radiant & Conducted Heat. These Fire-Rated Glazings are A Multi-Laminated And Fully Insulated Glass with Panes of Tempered Safety Glass Separated by Intumescent Interlayers.

SPECIFICATIONS:

Thickness CT60:	1" (25mm) +/- 1/8" to1/16"		
Thickness CT90:	1 7/16" (37mm) +/- 1/8" to1/16"		
Weight CT60:	10.3 lbs. per sq. ft		
Weight CT90:	14.6 lbs. per sq ft		
Light Transmission:	80% or 82%		
STC Rating:	40 or 45		
U-Value:	.76 or .69		
Warranty:	Five year limited warranty		
Fabricated:	USA		
Options at Additional Cost:	Etched for obscure effect Exterior glazing option.		
Radiant Heat Barrier (Clear, Colorless, Intumescent Layer):	Interlayers absorb the energy from the fire, limiting the temperature rise to the non-fire side.		
Size:	Minimum Size 12" Diagonal Maximum Sheet 31" x 96"		

LABELING:



SGG CONTRAFLAM 60 MINUTE CPSC 16CFR 1201-11 VETROTECH ST GOBAIN ID NO 38 GLAZING MATERIALS AS TO FIRE RESISTANCE ONLY

Each lite of ContraShield will be permanently labeled, in accordance with NFPA 80, with the product and manufacturer's name, testing laboratory, fire rating period and safety glazing standards.

LISTINGS & RATINGS:

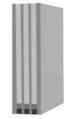
This product is classified by Underwriters Laboratories for fire-and impact resistance only. UL listing #R14515.

US Listing: UL 9, 10B, 10C, NFPA 80, NFPA252, NFPA 257 NOTE CT60 also tested to: NFPA251, ASTME119, UL263 Canada Listing: CAN/ULC-S106, S104, CAN S101. Impact Safety Rating: CPSC 16CFR 1201 (CAT I & II),

CAN/CGSB-12.1-M, ANSI Z97.1.



CONTRA90



INSTALLATION:

Use glazing compound or glazing tape on both sides of glass, install in appropriately-listed and labeled vision frame assemblies using suitable setting blocks and closed cell PVC tape, pure silicone, or ceramic glazing tape. Allow for minimum edge coverage of 3/8" and a minimum edge clearance of 1/4". ContraShield is an engineered specialty fire resistant glazing material. Certain optical and visual imperfections are inherent in the production process. These characteristics may be evaluated according to the manufacturer's quality standards but do not impair the transparency or affect the performance of the glass in case of fire, and shall not be considered cause for rejection.

Air Louvers frames for CONTRASHIELD 60:VLFIG, VLFEZIG, VSIG, VLFS10. Frames for CONTRASHIELD 90: VLFIG, VLFS10.

Assembly	Time Rating (minute)	Maximum Exposed Area	Maximum Width Exposed Area*	Maximum Height Exposed Area*	Building Code Marking
Door Temp-Rise/Non Temp-Rise	60	2685 in ²	30"	89-1/2"	D-H-T-60
Window, Transom, Sidelite	60	4449 in ²	94-13/16"	94-13/16"	OH-60
Door Temp-Rise/Non Temp-Rise	90	3174 in ²	35-3/4"	88-9/16"	D-H-T-90
Window, Transom, Sidelite	90	3174 in ²	88-9/16"	88-9/16"	OH-90

^{*} Please note that combined height and width cannot exceed the maximum exposed area measurement.

Order Format: CT60 Example: CT60 1212-01, CT90 1212-01716 C (W) (H)-01**Order Format: CT90** (W) (H)-01716 **Note: Order Size is Actual Glass Size**

Interpretation of Fire and Building Codes May Vary. Consult with the Local Authority Having Jurisdiction (AHJ) to determine appropriate standards.

■ AIR		Distributor:		Width:x Height	· ·
LÖÜVER	S	Architect:		Quantity:	
ACTIVAR		Contractor:		Fire Rating:	60 90
	ON PRODUCTS GROUP	Project:		Date:	Version: ALPDS1612
800-554-6077	QUOTES	@ACTIVARCPG.COM	ORDERS@ACTIVARCPG.COM	SALES@ACTIVARCPG.COM	Fax: 952-835-2218





Protect Against Fire and Smoke in Sizes up to 3,419 Square Feet. This Fire Rated Glazing is a Multi-Laminated Glass with 2 Panes of Laminated Safety Glass Separated by an Intumescent Interlayer with an STC Value of 39.

SPECIFICATIONS:

Description:	Two panes of laminated safety glass enclosing an intumescent inner layer.
Thickness:	3/4" (18mm)
Weight:	8.0 lbs. per sq. ft.
Light Transmission:	84%
STC Rating:	39
U-Value:	.79
Warranty:	Five year limited warranty
Fabricated:	USA
Options at Additional Cost:	Etched for obscure effect. Exterior glazing option.
Size:	Minimum Size 12" Diagonal Maximum Size 37" x 95 1/2"

LABELING:



Each lite of ContraShield will be permanently labeled, in accordance with NFPA 80, with the product and manufacturer's name, testing laboratory, fire rating period and safety glazing standards. See example of label above.

LISTINGS & RATINGS:

This product is classified by Underwriters Laboratories for fire-and impact resistance only. UL listing #R14515.

US Testing: UL 9, UL10B, UL 10C, NFPA 80, NFPA252, NFPA 257.

Canada Testing: CAN/ULC-S106, S104.

Impact Safety Rating: CPSC 16CFR 1201 (CAT I & II); CAN/CGSB-

12.1-M, ANSI Z97.1

Listing: Up to 45 minutes with hose stream test.



INSTALLATION:

Use glazing compound or glazing tape on both sides of glass, install in appropriately-listed and labeled vision frame assemblies using suitable setting blocks and closed cell PVC tape, pure silicone, or ceramic glazing tape. Allow for minimum edge coverage of 3/8" and a minimum edge clearance of 1/4". ContraShield is an engineered specialty fire resistant glazing material. Certain optical and visual imperfections are inherent in the production process. These characteristics may be evaluated according to the manufacturer's quality standards but do not impair the transparency or affect the performance of the glass in case of fire, and shall not be considered cause for rejection.

Air Louvers frames for CONTRASHIELD45:VLFIG, VLFEZIG, VSIG, VLFS10.

Assembly	Time Rating (minute)	Maximum Exposed Area	Maximum Width Exposed Area*	Maximum Height Exposed Area*	Building Code Marking
Wood/Steel Door Non Temp-Rise	45	3419 in ²	35-13/16"	95-1/2"	D-H-NT-45
Window, Transom, Sidelite	45	3419 in ²	95-1/2"	95-1/2"	OH-45

^{*} Please note that combined height and width cannot exceed the maximum exposed area measurement.

Order Format: CT45	(W)	(H)-34 Example: CT45 1212-34 Note: Order Size is Actual Glass Size
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Interpretation of Fire and Building Codes May Vary. Consult with the Local Authority Having Jurisdiction (AHJ) to determine appropriate standards.

AIR LOUVERS ACTIVAR INC.		Distributor:		Width:x	Height: _	
		Architect:		Quantity:		
		Contractor:				
		Project:		Date:		Version: ALPDS1612
800-554-6077	QUOTES	@ACTIVARCPG.COM	ORDERS@ACTIVARCPG.COM	SALES@ACTIVARO	CPG.COM	Fax: 952-835-2218



Safety Glass for Non Fire-Rated Applications Requiring Safety- Rated Glazing.

TEMP SPECIFICATIONS:

Description:	Heat-treated clear safety glass that breaks into small particles.		
Thickness:	1/4" (6 mm)		
Weight:	2.5 lbs/sq. ft.		
Light Transmission:	86% approx.		
STC:	31		
Fabricated:	USA		
Cutting:	Tempered glass cannot be cut after manufacturing.		
Size: Minimum 2" x 2", max. sheet size 88" x			
Options at Additional Cost:	Obscure frosted glass 1/4" (6 mm). Min size 4" x 4", max size 84" x 120". Tinted Glass -Contact Customer Service		

LISTINGS & RATINGS:

Impact Safety Rating: CPSC 16CFR 1201 (CAT | & II)

INSTALLATION:

Use glazing compound or glazing tape on both sides of glass, install in an appropriately-listed and labeled vision frame. Certain optical and visual imperfections are inherent in the production process. These characteristics may be evaluated according to the manufacturer's quality standards but do not impair the transparency or affect the performance of the glass, and shall not be considered cause for rejection.

Air Louvers frames for TEMP - VLF, VLFEZ, VSL (Slimline)

LABELING:

TEMPERED GLASS 16CFR 1201 C-11 ANSIZ97.1 2009 A

Each lite of Tempered Glass will be permanently labeled with the safety rating. See example of label above.

Caution: Tempered glass is not fire-rated, and should not be used where building codes require fire-rated glazing.

STOCK ITEM - THIS ITEM IN STOCK FOR NEXT DAY SHIPMENT IN IN MANY STANDARD SIZES FROM CA AND MN WAREHOUSES

Order Format: TEMP (W) (H)-14 Example: TEMP 2415-14 Note: Order Size is Actual Glass Size

Interpretation of Fire and Building Codes May Vary. Consult with the Local Authority Having Jurisdiction (AHJ) to determine appropriate standards.

AIR	Dis
LÖÜVERS	Arc
ACTIVAR INC.	Co
CONSTRUCTION PRODUCTS GROUP	Pro

tributor: Width: x Height: chitect: Quantity: ntractor:

Date:

Version: ALPDS1612 oject: 800-554-6077 SALES@ACTIVARCPG.COM Fax: 952-835-2218 QUOTES@ACTIVARCPG.COM ORDERS@ACTIVARCPG.COM

PYROGLASSHIELD™ GLAZING: PYRO REV A



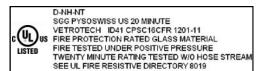


PyroGlasShield is a High-Impact, Tempered Glass that is CAT II-rated and Fire-Rated for Use in 20 Minute Fire-Rated Door Assemblies, Windows, Sidelites or Transoms

PYRO SPECIFICATIONS:

Description:	Tempered alkaline safety glass of fire-resistant material
Thickness:	1/4" (6mm)
Weight:	3.2 lbs. per sq. ft
Light Transmission:	89% approximate
STC:	32
Material:	Alkaline silicate float glass
Fabricated:	USA
Options at Additional Cost:	Etched for obscure effect. Tinted Glass.
Size:	Minimum 12" diagonal. Maximum sheet size 47-1/2" x 95-1/2".

LABELING:



Each lite of PyroGlasShield will be permanently labeled, in accordance with NFPA 80, with the product and manufacturer's name, testing laboratory, fire rating period and safety glazing standards. See example of label above.

LISTINGS & RATINGS:

This product is classified by Underwriters Laboratories for fire-and impact resistance only. UL listing #R14515.

US Testing: UL 9, UL10B, UL 10C, NFPA 80, NFPA252, NFPA

Canada Testing: CAN/ULC-S106, S104.

Impact Safety Rating: CPSC 16CFR 1201 (CAT I & II), CAN/

CGSB-12.1-M, ANSI Z97.1

Listing: Up to 20 minutes without hose stream test.

INSTALLATION:

Use glazing compound or glazing tape on both sides of glass, install in an appropriately-listed and labeled vision frame. PyroGlassShield is an engineered specialty fire resistant glazing Material. Certain optical and visual imperfections are inherent in the production process. These characteristics may be evaluated according to the manufacturer's quality standards but do not impair the transparency or affect the performance of the glass in case of fire, and shall not be considered cause for rejection.

Air Louvers frames for PYRO: VLF, VLF-EZ, VSL.

Assembly	Time Rating (minute)	Maximum Exposed Area*	Maximum Width Exposed Area*	Maximum Height Exposed Area*	Building Code Marking
Steel Door	20	3419 in ²	47-1/2"	95-1/2"	D-NH-NT-20
Wood Door	20	3419 in ²	47-1/2"	95-1/2"	D-NH-NT-20
Windows, Transoms, Sidelite	20	4626 in ²	95-1/2"	95 1/2"	D-NH-NT-20

^{*} Please note that combined height and width cannot exceed the maximum exposed area measurement.

Order Format: PYRO (W) (H)-14 Example: PYRO 2434-14 Note: Order Size is Actual Glass Size

Interpretation of Fire and Building Codes May Vary. Consult with the Local Authority Having Jurisdiction (AHJ) to determine appropriate standards.

AIR	Distributor:		Width:x Height:	
LÖÜVERS	Architect:		Quantity:	
ACTIVAR	Contractor:			
CONSTRUCTION P	Project:		Date:	Version: ALPDS1612
800-554-6077	QUOTES@ACTIVARCPG.COM	ORDERS@ACTIVARCPG.COM	SALES@ACTIVARCPG.COM	Fax: 952-835-2218



BULLET & STORM-RESISTANT POLYCARBONATE GLAZING: ARMRSHIELD

ArmrShield Polycarbonate is Designed for the High Demands of Ballistic and Forced Entry Glazing Applications. 3 Levels of Ballistic Protection, Plus Miami-Dade County FL Approval.

	Bullet-Proof/Resistant Polycarbonates are transparent 3-4 ply laminates of Makrolon AR® polycarbonate sheets, acrylic	
Description:	sheets and polyurethane bonding interlayers. This glazing features a coating that provides resistance to abrasion, UV, chemical	
	attack and graffiti. Not a fire-rated product.	
	Laminated security glazing can successfully resist both penetration of bullets and impact-induced spall (fragmentation from the	
Ballistics:	protected side of the glazing) as a result of ballistic attacks. Meets UL 752 test requirements . ArmrShield glazing provides	
	Level 1, Level 2 and Level 3 Protection. Miami Dade approved for use in hurricane zones. See Website for More Information	

LAMINATED GLAZING: LAMI

A Laminated Glass with Safety Film that meets IBC 2012 CAT II Human Impact Safety Standards Rating and Has Greater STC Values than Most Single Pane Glazing

Description	2 Panes of heat-treated clear safety glass that break into small particles with PVB safety film interlayer.
Description:	Not a fire-rated Product STC Values from 35-41. See website for more information.

HURRICANE GLAZING: HURR

A Laminated Glass with that Meets Levels A or D Missile Testing Standards. Meets International Building Codes, Florida Building Code, Miami Dade, Texas Department of Insurance Standards and UL972

Description:	2 Panes of heat-treated clear safety glass that break into small particles with PVB safety film Saflex ® interlayer. Not a fire-rated product.			
Hurricane Rating:	Missile Level A or D	See website for more information.		

ADD A VISION LITE TO YOUR GLASS ORDER?

Choose the PAK Option That Includes a Vision Lite and Correctly Sized Glazing with Tape Applied

Select the Convenience of the PAK to Assure that Your Orders are Compete

- Any Vision Lite
- Appropriate Glass Type for Vision Lite
- UL 10b Glazing Tape Applied Ready to Install
- any Options for Vision Lites, Glazing and Glazing Tape Type











Interpretation of Fire and Building Codes May Vary. Consult with the Local Authority Having Jurisdiction (AHJ) to determine appropriate standards.



800-554-6077

QUOTES@ACTIVARCPG.COM

ORDERS@ACTIVARCPG.COM

SALES@ACTIVARCPG.COM

Fax: 952-835-2218

Two Panes of Tempered Glass with Spacer in a Sealed Insulated Glass Unit. Reduce Sound Transmission Through the Door with STC Values up to 37

TEMP SPECIFICATIONS:

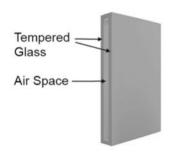
Description:	Heat-treated clear safety glass that breaks into small particles.		
Thickness:	1/4" (6 mm)		
Weight:	2.5 lbs/sq. ft.		
Light Transmission:	86% approx.		
Fabricated:	USA		
Cutting:	Tempered glass cannot be cut after manufacturing.		
Size:	Minimum 4" x 6"		
Options at Additional Cost:	Obscure frosted glass 1/4" (6 mm). Min size 4" x 4", max size 84" x 120". Tinted Glass -Contact Customer Service		

TEMPERED GLASS 16CFR 1201 C-11

Each lite of Tempered Glass will be permanently labeled with the safety rating. See example of label above.

LISTINGS & RATINGS:

Impact Safety Rating: CPSC 16CFR 1201 (CAT I & II)



INSTALLATION—ALL MODELS OF INSU:

Use glazing compound or glazing tape on both sides of glass, install in an appropriately-listed and labeled vision frame. Certain optical and visual imperfections are inherent in the production process. These characteristics may be evaluated according to the manufacturer's quality standards but do not impair the transparency or affect the performance of the glass, and shall not be considered cause for rejection.

Air Louvers frames for INSU - VLFIG, VLFEZIG, VSIG, VLFS10, VLFS10SP

Qty	Glass Type	Model # Insert Values for Width and Height in Spaces	Overall Thickness	Approx. STC Value	Inside Glass Thickness	Air Space Between Glass	Outside Glass Thickness
	TEMP	INSU 92FG92F	5/8" (16 mm)	28	1/8" (3.2 mm)	3/8" (9.7 mm)	1/8" (3.2 mm)
	TEMP	INSU 92BB92B	3/4" (19.05 mm)	30	1/4" (6.3 mm)	1/4" (6.4 mm)	1/4" (6.3 mm)
	TEMP	INSU 92BC92B	1" (27.9 mm)	35	1/4" (6.3 mm)	1/2" (12.7 mm)	1/4" (6.3 mm)
	TEMP	INSU 92B1A92B	1-1/2" (40.6 mm)	37	1/4" (6.3.mm)	1" (25.4 mm)	1/4" (6.3 mm)

Other combinations of glass types are also available—contact customer service for more information.

Interpretation of Fire and Building Codes May Vary. Consult with the Local Authority Having Jurisdiction (AHJ) to determine appropriate standards.

AIR LOUVERS ACTIVAR INC.		Distributor:		Width:x Height:	
		Architect:		Quantity:	
		Contractor:			
		Project:		Date:	Version: ALPDS1612
800-554-6077	QUOTES	@ACTIVARCPG.COM	ORDERS@ACTIVARCPG.COM	SALES@ACTIVARCPG.COM	Fax: 952-835-2218



BALLISTICS-RESISTANT GLAZING: BRG

Our Line of Laminated Glass Assemblies that Provides Protection Meeting UL752 Standards. Glass Does Not Yellow and can be Used for Interior or Exterior Applications

SPECIFICATIONS:

Description:	Multiple panels of Annealed glass, and Poly Vinyl Butyral (PVB). The PVB is laminated to the glass, forming an extremely strong, clear, chemical and mechanical bond.
Thickness:	1-3/16" - 1-7/8"
Fabricated:	USA
Warranty:	1 year limited warranty against delamination
Size:	Minimum 12" x 12", max. sheet size 60" x 96"

LABELING:

Each lite will be permanently labeled with the UL Threat Level Designation

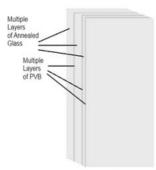
Air Louvers Low-profile Frames for up to 1" Glass: VSIG, VLFEZIG Air Louvers Thru-Bolt Frame for 5/16-1-1/2" Glass: VLFS10, VLS10SP Air Louvers Thru—Bolt Frame for for 5/16"-11/16": VLFIG

TESTING:

Tested Standards: Underwriter's Laboratories (UL)

752 Indoor standard for Bullet Resisting Equipment or NIJ 0108.01.

ASTM C158 M.O.R. ASTM C1036 Flat Glass ASTM C1172 Laminated Architectural Flat Glass



Ballistic Levels:

Laminated security glazing can successfully resist both penetration of bullets and impact-induced spall (fragmentation from the protected side of the glazing) as a result of ballistic attacks.

Traditionally, the ability of security glazing to resist ballistic attack has been measured using the **UL 752 test requirements**. **UL AS1-3**

Level 1: Protection against handguns of medium power

(9mm full metal copper jacket with lead)

Level 2: Protection against handguns of high power

(.357 magnum jacketed lead soft point)

<u>Level 3:</u> Protection against handguns of super power (.44 magnum lead semi-wadcutter gas checked)

NIJ Level II, Level IIIA

QTY	Model Enter Width & Height in Blanks	Overall Thick- ness	Threat Level UL752	UL Listed	Composition of Assembly	Wt lb/ft²
	BRG101316	1 3/16"	1	N	1/4" Clear Annealed, .015 Clear PVB, 1/8" Clear Annealed.	15.2
	BRG20112	1 1/2"	2	N	1/8" Clear Annealed, .015 Clear PVB, 1/2" Clear Annealed, .015 Clear PVB, 1/4" Clear Annealed, .015 Clear PVB, 1/3" Clear Annealed, .015 Clear PVB, 1/8" Clear Annealed	20.1
	BRG30178	1 7/8"	3	N	1/4" Clear Annealed, .015 Clear PVB, 1/8" Clear Annealed, .015 Clear PVB, 1/4" Clear Annealed, .015 Clear PVB, 1/4" Clear Annealed, .015 Clear PVB, 1/4" Clear Annealed	25.4

Order Format: BRG1	(W)	(H)	Example: BRG1 2434 Note: Order Size is Actual Glass Size

NOTE: This is not a fire-rated glass and should not be used as a component of a fire-rated door. Use in locations where a safety-rated only glazing is required.

Interpretation of Fire and Building Codes May Vary. Consult with the Local Authority Having Jurisdiction (AHJ) to determine appropriate standards.

AIR		Distributor:		Width:x Height	· ·
LÖÜVERS	S	Architect:		Quantity:	
ACTIVA	R	Contractor:			
CONSTRUCTIO	ON PRODUCTS GROUP	Project:		Date:	Version: ALPDS1612
800-554-6077	QUOTES	@ACTIVARCPG.COM	ORDERS@ACTIVARCPG.COM	SALES@ACTIVARCPG.COM	Fax: 952-835-2218

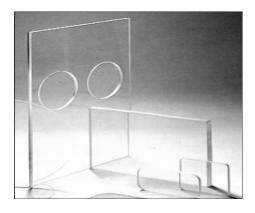




Single Pane, Leadlined Glazing for X-Ray Safety Glass. Impact Rated for CAT II use in Openings and Meets or Exceeds Over 16 Various National and International Radiation Glazing Safety Codes and Standards of U.S.A., Canada, Britain, France, Japan, Germany, Austria and Russia

SPECIFICATIONS:

OI LOII IOATIONO.		
Thickness:	5/16" (8.mm)	
Weight:	8 lbs. per sq. ft.	
Size:	Maximum size available in single pane is 48" x 96"	
Light Transmission:	88%	
Lead Equivalent:	Nominal 2.0 mm .078", 5# Sq. Ft.	
Warranty:	One year limited warranty	
Fabricated:	USA	
Use:	LGShield is utilized for medical X-Ray, Gamma, Alpha and Beta photon shielding only. LGShield has successfully passed extensive radiation testing establishing consistent radiation attenuation properties from a variety of isotopic and cathode tube x-ray or gamma sources ranging in output energy emission exposures of 80kvp, 110, 150, 200, 250, 300, 350, 400 and 511 kVp.	
Options at Additional Cost:	Tinted or Obscure Patterns. Higher Lead Equivalencies: 2.4 mm (5/16" thick) 3.2 mm (5/8" thick) 3.7 mm (5/8" thick) 4.0 mm (5/8" thick) Optically Clear Glass Special Shapes and Cutouts/Round Fire-Rated IGU Assemblies	
To Order:	Contact customer service with your specifications.	



Custom Shapes and Sizes Available

LISTINGS & RATINGS:

Tested in accordance with: ANSI Z97.1 - 2009 Impact Resistance Safety Rating: CPSC 16CFR 1201 CAT II per IBC 2406

Positive Pressure Rating: UL 9 & UIL10C/UBC 7-2/UBC 7-4

Federal Spec. DD-G-451 and ASTM C-1376-01

NCRP: Report #49, #147

Note: This is not a fire-rated product and should not be used in fire-rated door applications unless selected as an option at left.

Customer must order x-ray glass to same protective shielding level as lead lined door.

Air Louvers Vision Frames for This Glazing: VLFIG, VLFEZIG. Leadlined frames are not fire-rated. Complete separate leadlined submittal to order with vision frame.

ALL CALCULATIONS FOR LEAD REQUIREMENTS SHOULD BE DETERMINED BY A HEALTH PHYSICIST CURRENTLY RECOGNIZED IN THE STATE IN WHICH THE PROJECT OCCURS.

LGShield is permanently labeled and provides required impact resistance for door vision-lites or in walls within 24" of a door opening, or in high risk traffic areas or for additional seismic safety, and also provides a clear view while additionally shielding X-Ray/Gamma radiation, and 95% of UV protection.

Order Format 2 mm: LEAD	(W)	(H)	Example: LEAD 2434 Note: Order Size is Actual Glass Size
Interpretation of Fire and Building Codes Ma	v Varv Cor	sult with the	Local Authority Having Jurisdiction (AHJ) to determine appropriate standards

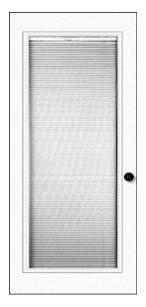
AIR		Distributor:		Width:x Height:	
		Architect:		Quantity:	
ACTIVAL	D	Contractor:		-	
CONSTRUCTION	N PRODUCTS GROUP	Project:		Date:	Version: ALPDS1612
800-554-6077	QUOTES	@ACTIVARCPG.COM	ORDERS@ACTIVARCPG.COM	SALES@ACTIVARCPG.COM	Fax: 952-835-2218

PRIVACY GLASS OPTIONS: MINIBLIND & VISTA

Two Solutions for Privacy in Doors - Built-In Blinds in an Insulated Glass Unit or an Adjustable Sliding Glass Blind in an IGU. Particle-free Solution for Healthcare and other Commercial Settings.

MINIBLIND SPECIFICATIONS:

Vision Lite:	Choose from Slimline VSIGMB –or low profile VLFEZIGMB beveled vision frames		
Glass:	1.0" sealed unit. 2 panes of 1/8" clear tempered glass. Glass size is 1" under vision lite order size		
Blinds:	Aluminum mini blinds are maintenance and dust-free.		
Operator:	Raise, lower and tilt control depending on model selected.		
Standard Sizes of Glass Unit:	8 x 36 8 x 64 14 x 64 20 x 36 20 x 64 22 x 36 22 x 48 22 x 64 22 x 80 Custom sizes also available. Glass sizes are 1" under opening size, so 8 x 36 requires 9 x 37 opening.		
Product Details:	See Detailed Product Information in Privacy Options for Vision Lite Section.		



Full Door with VSIGMB 2264W

VISTAMATIC® VISION PANEL SPECIFICATIONS:



Vision Lite:	VLFEZIG beveled vision frame.
Glass:	The glazed secure vision panel by Vistamatic® is manufactured with 3 panes of tempered glass sealed together as an insulated, dustproof unit. Optional glass thicknesses can produce a thicker unit. 1" obscuring stripes are 1" apart. Visible light is 1-1/4" under order size. Each panel is made to order.
Operation:	When operator is turned, the middle pane of glass is raised, aligning the obscure stripes so that viewing is permitted. When the operator is rotated back, the middle pane is lowered, stripes are offset, obscuring the view through the panel. Several styles of handle including locks available, and selection of sideways or vertical operation.
Standard Sizes - Order by Opening Size:	11¼" x 11¼" 13¼" x 13¼" 19¼" x 19¼" 6¼" x 21¼" 7½" x 31¼" 25½" x 31¼" (Visible light is 1-¼" under order size) Custom sizes also available.
Product Details:	See Detailed Product Information in Privacy Options for Vision Lite Section.



Open Position Etched Lines



Closed Position Etched Lines

Interpretation of Fire and Building Codes May Vary. Consult with the Local Authority Having Jurisdiction (AHJ) to determine appropriate standards.



Do Not Use this Page to Order—See Detailed Product Information in Privacy Options Section.

Version: ALPDS1612

800-554-6077 QUOTES@ACTIVARCPG.COM ORDERS@ACTIVARCPG.COM SALES@ACTIVARCPG.COM FAX: 952-835-2218