

# HOW TO CHOOSE YOUR GLAZING

## A.) If you know your Fire-Rating Requirements:

TYPE	20 Min	45 Min	60 Min	90 Min	180 Min
Protective	PYRO				
	WS				
	KFRF, KFRL, KFRU, PPF, PPL				
Resistive	Fire Resistive Glazing is usable but not required in 20 & 45 min applications		CT		

IBC 2015 & 2018 restrict the sizes of Fire-Protective Glazing over 45 min to 100 sq in. See individual submittals for additional size restrictions.

## B.) If you need Non-Fire-Rated, Special Features:

Toughened	Shatterproof	Ballistic Resistance	Privacy	XRay	Exterior
TEMP	LAMI	ARM BRG	VS1 MINI MIRR	LEAD	TEMP INSU -LOWE**

## C.) If you have a Specified Thickness or Vision Lite:

3/16" (5mm)	1/4" (6mm)	5/16" (8mm)	3/8" (9.5mm)	1/2" (12mm)	5/8" (16mm)	11/16" (17.5mm)	3/4" (19mm)	1" (25mm)	1-3/16" (30mm)	1-1/4" (32mm)	1-1/2" (38mm)	1-3/4" (45mm)
VLF		VLFIG										
VLFEZ		VLFEZIG										
VSLH			VSIG									
KFRF PPF	WS PYRO	KFRL	PPL	LAMI INSU	INSU	KFRU	ARM1	CT60	BRG1	ARM3	CT90	BRG3
	TEMP	LEAD						INSU ARM2			BRG2	

\*\* Features considered optional and may have different sizing, availability and pricing.

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## GLAZING SELECTION CHART

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

## Fire-Rated & Safety-Rated Glass Comparison Chart

PRODUCT PART NUMBER	PYROGLASSHIELD		WIRESHIELD		PYRAN® PLATINUM F		KERASHIELD KFRF		KERASHIELD FRL		KERASHIELD FRU		CONTRASHIELD		
	PYRO		WS		PPF		KFRF		KFRL		KFRU		CT		
MATERIAL	Tempered alkaline safety glass.		Annealed single glazing with safety film a and embedded 3/4" x 3/4" wire mesh diamond pattern.		Environmental friendly neutral-colored fire and safety-rated glazing.		Ceramic glass with a surface applied safety film applied to one side.		Ultra clear laminate of glass ceramic and impact safety rated material.		Two lites of tempered or safety glass enclosing intumescent interlayers divided by a glass ceramic pane.		Three or five panes of laminated safety glass enclosing two intumescent interlayers.		
THICKNESS	1/4" (6 mm)		1/4" (6 mm)		3/16" (4.7 mm)		3/16" (4.7 mm)		5/16" (7.9 mm)		11/16" (17.5 mm)		1" or 1-½" (25 or 38 mm)		
STC RATING	32		31		31		35		37		38		40 or 45		
IBC ALLOWED SIZES	20 min	3419 in² 47-½" x 95-½" (Max Tested)	20-45 min	1296 in² 54" x 54" 2856 in²† 34" x 84"† (Max Tested)	20-45 min	2736 in² 36" x 76" (Max Tested)	20-45 min	3627 in² 46-½" x 78" (Max Tested)	20-45 min	3627 in² 46-½" x 78" (Max Tested)	20-45 min	2736 in² 46-½" x 76" (Max Tested)	60 min	2685 in² 30" x 89-½" (Max Tested)	
			60-180 min	100 in²	60-180 min	100 in²	60-180 min	100 in²	60-180 min	100 in²	60-180 min	100 in²	90 min	3174 in² 35-¾" x 88-⅝" (Max Tested)	
UL TESTED SIZES (SIZES GIVEN IN EXPOSED GLAZING)	20 min	3419 in² 47-½" x 95-½"	45 min	1296 in² 54" x 54" 2856 in²†** 34" x 84"	20-90 min	2736 in² 36" x 76"	20-60 min	3627 in² 46-½" x 78"	20-60 min	3627 in² 46-½" x 78"	45-90 min	2736 in² 46-½" x 76"	60 min	2685 in² 30" x 89-½"	
			60 min	960 in²†* 12" x 80"			90 min	3534 in² 46-½" x 78"	90 min	3534 in² 46-½" x 78"			90 min	3174 in² 35-¾" x 88-⅝"	
			90 min	100 in² 12" x 33" 552 in²†** 12" x 46"	180 min	100 in² 12" x 33"	180 min	100 in² 10" x 33"	180 min	100 in² 10" x 33"	180 min	100 in² 10" x 33"	90 min		
FIRE RESISTIVE	No												Yes, per ASTM E119		
TEMP RISE	No											Yes, Max 450° F (250° C) @30 min			
POSITIVE PRESSURE	Yes, per UL 10C														
HOSE STREAM	No		Yes, per NFPA 257 or UL 9												
SAFETY RATED	ANSI Z97.1 (Class A & B), CPSC 16CFR 1201 (Cat I & II)														
COMPARABLE PRODUCTS	Fireglass® 20, Firesafe® 20, Superlite-I, Pyroedge-20™, Pyroswiss®		Wirelite™ NT, Safe-Wire™, Superlite IW™ Protect3™		Firelite NT®, Keralite®FR-F		Firelite NT®, Keralite® FR-F		Firelite Plus®, Keralite® FR-L		Keralite® Ultra		Superlite® II-XL 60,90 Pyrobel 60, 90 Pyro Stop®, Contraflam® 60 90		
AIR LOUVERS PAKS	VLFEZ VLF									VLFEZIG VLFIG VLFS10					
	VSLH											VSIG			

Glazing over 45 min requires the exposed glazing (visible light) be 100 sq. in. or less to maintain rating per IBC 2015 & 2018. See frame submittal for exposed glazing (visible light).  
 Interpretation of Fire and Building Codes may vary. Consult with the Local Authority Having Jurisdiction (AHJ) to determine appropriate standards. † Requires FGS3000S90 to maintain rating at these sizes \*Wood Door Application \*\* Hollow Metal Door

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