

# Fire-Rated & Safety-Rated Glass Comparison Chart for Door Applications

20 Minute Rating	45 Minute Rating	60 Minute Rating	90 Minute Rating	3 Hour Rating
WireShield WS	WireShield WS	WireShield WS	WireShield WS	KeraShield FRL KFRL
Wire Glass UL	Pyran® Platinum F by SaftiFirst - PPF	KeraShield FRF KFRF	Pyran® Platinum F by SaftiFirst - PPF	KeraShield FRF KFRF
PyroGlasShield PYRO	KeraShield FRF KFRF	Pyran® Platinum F by SaftiFirst - PPF	KeraShield FRF KFRF	Pyran® Platinum F by SaftiFirst - PPF
KeraShield FRF KFRF	KeraShield FRL KFRL	KeraShield FRL KFRL	KeraShield FRL KFRL	KeraShield FRU KFRFU
KeraShield FRL KFRL	KeraShield FRU KFRFU	KeraShield FRU KFRFU	KeraShield FRU KFRFU	
Pyran® Platinum F by SaftiFirst - PPF	SwissShield 45 SWISS45	SwissShield 60 SWISS60	SwissShield 90 SWISS90	
KeraShield FRU KFRFU		ContraShield 60 CONTRA60	ContraShield 90 CONTRA90	



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Air Louvers recommends that you consult with your local authorities having jurisdiction (AHJ) for the most current standards in your area. Links to websites with current information can be found on our website at [WWW.AIRLOUVERS.COM](http://WWW.AIRLOUVERS.COM).

# Fire-Rated & Safety-Rated Glass Comparison Chart

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PRODUCT:	WireShield	Pyro-GlasShield	Pyran® Platinum F by SaftiFirst	KeraShield FRF	KeraShield FRL	KeraShield FRU	SwissShield 45	SwissShield 60	SwissShield 90	ContraShield 60	ContraShield 90
Product Code:	WS	PYRO	PPF	KFRF	KFRL	KFRFU	SWISS45	SWISS60	SWISS90	CONTRA60	CONTRA90
Fire Rating	90 Minutes	20 Minutes	3 Hour	3 Hour	3 Hour	3 Hour	45 Minutes	60 Minutes	90 Minutes	60 Minutes	90 Minutes
Maximum Exposed Area For Doors Only:	<p><b>20 Minute Steel:</b> 3,289 in<sup>2</sup> &amp; <b>20-Minute Wood:</b> 2,856 in<sup>2</sup> max width 36" max height 84"</p> <p><b>45 Minute Steel</b> 2,856 in<sup>2</sup>, max width 34" max height 84</p> <p><b>45 Minute Wood:</b> 1,296 in<sup>2</sup> max width 36" max height 54"</p>	<p><b>20 Minute:</b> 3,419 in<sup>2</sup>, max width: 47-1/2" max height 95-1/2"</p>	<p><b>20-90 Minute:</b> 2,799 in<sup>2</sup>, max width 36", max height 77-3/4"</p>	<p><b>60 Minute:</b> 3,627 in<sup>2</sup>, max width 46-1/2" max height 78"</p> <p><b>90 Minute:</b> 3,534 in<sup>2</sup>, max width 46-1/2" max height 76"</p>	<p><b>60 Minute:</b> 3,627 in<sup>2</sup>, max width 46-1/2" max height 70"</p> <p><b>90 Minute:</b> 3,534 in<sup>2</sup>, max width 46-1/2" max height 70"</p>	<p><b>90 Minute:</b> 2,736 in<sup>2</sup>, max width 46", max height 76"</p>	<p><b>45 Minute:</b> 3,419 in<sup>2</sup>, max width 36" max height 84"</p>	<p><b>60 Minute:</b> 3,325 in<sup>2</sup>, max width 35", max height 95"</p>	<p><b>90 Minute Steel Door:</b> 3,204 in<sup>2</sup>, max width 36", max height 89"</p>	<p><b>60 Minute:</b> 3,325 in<sup>2</sup>, max width 35", max height 95"</p>	<p><b>90 Minute Steel Door:</b> 3,204 in<sup>2</sup>, max width 36", max height 89"</p>
Non Temp Rise	60-90 min: 100 in <sup>2</sup>	--	3 Hr: 100 in <sup>2</sup>	3 Hr: 100 in <sup>2</sup>	3 Hr: 100 in <sup>2</sup>	3 Hr: 100 in <sup>2</sup>	--	--	--	--	--
Thickness	1/4" (6 mm)	1/4" (6 mm)	3/16" (5mm)	3/16" (5mm)	5/16" (8mm)	3/4" (18mm)	3/4" (18 mm)	1" (25mm)	1-1/2" (38mm)	1" (25mm)	1-3/8" (34mm)
Listing	WHI	WHI & UL	WHI	WHI	WHI	UL	WHI & UL	WHI & UL	WHI & UL	WHI & UL	WHI & UL
Safety Rating	ANSI Z97.1 & CPSC 16CFR1201 (CAT I & II)										
Positive Pressure	UL 10C/ UBC 7-2	UL 10C UBC 7-2	UL 10C/UBC 7-2, UBC 7-4	UL 10C/UBC 7-2 UBC 7-4	UL 10C/UBC 7-2 UBC 7-4	UL 10C/UBC 7-2 UBC 7-4	UL 10C/ UBC 7-2	UL 10C/UBC 7-2	UL 10C /UBC 7-2	UL 10C /UBC 7-2	UL 10C / UBC 7-2
Radiant Heat Barrier	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Description	Annealed single glazing with safety film applied to one side and embedded 3/4"x3/4" wire	Tempered alkaline safety glass of fire-resistant material	Glass ceramic fire-resistant glazing with safety film applied to one side	Ceramic fire-resistant glazing with safety film applied to one side	A Laminate of glass ceramic & impact-rated safety glass.	Two lites of clear ceramic fire-resistant safety glass, laminated together	Two or more layers of laminated safety glass , separated by intumescent interlayers.			Multi-laminated and fully insulating glass with two or more panes of tempered safety glass separated by intumescent interlayers. .	
Hose Stream	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Comparable Products	Wirelite NT, Safe-Wire Superlite IW	Fireglass 20, Superlite-I, Pyroedge-20	Firelite NT Superlite C/S Pyran Star F	Firelite NT Superlite C/S Pyran Star F	Firelite Plus, Pyran Star L	None	Pyrostop 45 Pyrobel 45, SuperLite II-XL 45	PyroStop Pyrobel	Pyrostop Pyrobel	Superlite II-XL 60, PyroStop 60, Pyrobel 60	Superlite II-XL
Air Louvers Lite Kit*	VLF,VLFEZ, VSL	VLF,VLFEZ, VSL	VLF,VLFEZ, VSL	VLF,VLFEZ, VSL	VLFIG,VLFEZIG, VSIG, S10	VLFIG,VLFEZIG, VSIG, S10	VLFIG,VLFEZIG, VSIG, S10	VLFIG,VLFEZIG, VSIG, S10	VLFIG,VLFEZIG, VSIG, S10	VLFIG, S10	VLF-IG,VLFEZIG, VSIG, S10

\* Please Verify Ratings for Air Louvers Lite Kits from Product Data Sheets.

NOTE: This is to be used as a guideline only. Interpretation of building and fire codes may vary. Consult with the local authority having jurisdiction (AHJ) to determine appropriate standards in your area.

For full technical data sheet, please see our catalog - Labeled Glass section or visit our website at [WWW.AIRLOUVERS.COM](http://WWW.AIRLOUVERS.COM)

Glazing Tape: Air Louvers recommends that glazing tape or compound be used on both sides of glass to avoid breakage.

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