



# Underwriters Laboratories Listings



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

Listings below are for Positive Pressure Rated (UL10C) openings for Styles listed below.  
 by Fire Rating  
 Phone: 715-223-6324  
 www.allmetalstamping.com

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

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

Recommended Frame Models	Glass Type	Rating	Max. Size Sq. Inches	Max. Width	Max. Height	Glass Thickness	Pocket Thickness	Tape Required	CPSC Rating	Other Restrictions
<b>GLASSES LISTED BELOW ARE AVAILABLE FOR PURCHASE</b>										
110, 110B	New-Wire	20 NH	1296	54	54	1/4	1/4	None	CAT II	
			3289	35-3/4	92		11/32	FG3000S45		Hollow Metal Door
110, 110B	PyroSwiss 20*	20 NH	1296	47-1/2	54	1/4*	Same	None	CAT II	
			3419		95-1/2		3/8*	1/16 PVC Tape		
110, 110B	New-Wire	20-45	1296	54	54	1/4	1/4	None	CAT II	
			2856	34	84		11/32	FG3000S45		Hollow Metal Door
110,110B	Keralite FR-F Keralite FR-L	20-45	1296	46-1/2	54	3/16 5/16	1/4 5/16	None	CAT II	
110, 110B	Keralite FR-F Keralite FR-L	20-45	3627	46-1/2	78	3/16 5/16	5/16 9/32 7/16 13/32	1/16 PVC Tape FG3000S45 1/16 PVC Tape FG3000S45	CAT II	
110, 110B	Pyran Platinum F	20-45	1296 3736	36 36	54 76	3/16	1/4 5/16 9/32	None 1/16 PVC Tape FG3000S45	CAT II	
110, 110B	New-Wire	60	960	12	80	1/4	13/32	FG3000S90	CAT II	Wood Door Non-Temp. Rise
110,110B	Keralite FR-F Keralite FR-L	60-90	100	10	33	3/16 5/16	1/4 5/16	None	CAT II	Temp. Rise
110,110B	Keralite FR-F Keralite FR-L	60-90	300	15	33	3/16 5/16	1/4 5/16	None	CAT II	Non-Temp. Rise
110, 110B	Keralite FR-F Keralite FR-L	60	3627	46-1/2	78	3/16 5/16	5/16 11/32 7/16 15/32	1/16 PVC Tape FG3000S90 1/16 PVC Tape FG3000S90	CAT II	Non-Temp. Rise
110, 110B	New-Wire	90	552	12	46	1/4	13/32	FG3000S90	CAT II	Hollow Metal Door Non-Temp. Rise
110, 110B	Keralite FR-F Keralite FR-L	90	3534	46-1/2	76	3/16 5/16	5/16 11/32 7/16 15/32	1/16 PVC Tape FG3000S90 1/16 PVC Tape FG3000S90	CAT II	Non-Temp. Rise
110, 110B	Pyran Platinum F	60-90	100 300 3736	12 15 36	33 76	3/16	1/4 5/16 11/32	None 1/16 PVC Tape FG3000S90	CAT II	Temp. Rise Non-Temp. Rise
110, 110B	Keralite FR-F Keralite FR-L	180	100	10	33	3/16 5/16	5/16 11/32 7/16 15/32	1/16 PVC Tape FG3000S90 1/16 PVC Tape FG3000S90	CAT II	Temp. Rise
110, 110B	Pyran Platinum F	180	100	12	33	3/16	5/16 11/32	1/16 PVC Tape FG3000S90	CAT II	Temp. Rise
<b>OTHER KERALITE OR CONTRAFLAM PRODUCTS LISTED BELOW ARE AVAILABLE ON SPECIAL ORDER (SPECIFICATIONS BELOW)</b>										
110, 110B	SuperLite I-W WireLite NT Safe-Wire	20 NH	1296	35-3/4	54	5/16 1/4	Same	None	CAT II	Hollow Metal Door Wood or HMD
110,110B	FireGlass 20* SuperLite 20* Pyrodur 20-200 Fireswiss LAM20	20 NH	1296	36 47-1/8 48	54 54 54	1/4* 3/8 7/16	Same	None	CAT II	
110, 110B	SuperLite I-W WireLite NT	20 NH	3289	35-3/4	92	5/16 1/4	7/16 11/32	1/16 PVC Tape FG3000S45	CAT II	Hollow Metal Door
110, 110B	Safe-Wire	20 NH	2994	35-3/4	92	1/4	3/8	1/16 PVC Tape	CAT II	
110,110B	FireGlass 20* SuperLite 20* SuperLite 20* Pyrodur 20-200 Fireswiss LAM20	20 NH	3204 3341 3299 4477 4608	36 35-1/8 36-1/8 47-1/8 48	89 95-1/8 91-5/16 89-3/4 96	1/4* 3/8 7/16	3/8* 1/2 9/16	1/16 PVC Tape	CAT II	Hollow Metal Door Wood Door
118MD	PyroSwiss 20 IGU Contraflam 30	20 NH	3419 3419	47-1/2 35-13/16	95-1/2 95-1/2	Nom. 11/16 13/16	13/16 15/16	1/16 PVC Tape	CAT II	

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

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

Recommended Frame Models	Glass Type	Rating	Max. Size Sq. Inches	Max. Width	Max. Height	Glass Thickness	Pocket Thickness	Tape Required	CPSC Rating	Other Restrictions	
110,110B	Pyroguard	20 NH	1404	28	62	5/16	13/32	FG3000S45	CAT I	Wood Door	
	Pyrodur 20-104		1944	36	54	1/4	3/8	1/16 PVC Tape			
	SuperLite I-W		2856	36	84	5/16	13/32	FG3000S45	CAT II		
110,110B	SuperLite I-XL <sup>1</sup>	20-45 NH	3341	35-1/8	96	1/4	3/8	1/16 PVC Tape	CAT II	<sup>1</sup> Requires Approval of AHJ	
118MD	SuperLite XL IGU <sup>1</sup>	20-45 NH	3341	35-1/8	96	1" Std.	1-1/4	1/8 PVC Tape	CAT II	<sup>1</sup> Requires Approval of AHJ	
118MD	SuperLite XL IGU <sup>1</sup>	20-45 NH	3341	35-1/8	96	3/4	1	1/8 PVC Tape	CAT II	<sup>1</sup> Requires Approval of AHJ	
110,110B	SuperLite I-W	20-45	1296	36	54	5/16	Same	None	CAT II		
	WireLite NT			54		1/4					
	Safe-Wire										
	Protect3 Safety Glass										
110, 110B	SuperLite I-W	20-45	2856	34	84	5/16	13/32	FG3000S45	CAT II	Hollow Metal Door	
	WireLite NT					1/4	11/32				
	Protect3 Safety Glass										
110,110B	Safe-Wire	20-45	2856	34	84	1/4	11/32	FG3000S45	CAT II		
110, 110B	FireLite NT	20-45	1296	36	54	3/16	1/4	None	CAT II		
	FireLite Plus					5/16	5/16				
110, 110B	Keralite FR-F	20-45	1296	46-1/2	54	3/16	1/4	None	CAT II		
	Keralite FR-L					5/16	5/16				
110, 110B	Pyran Star F, Crystal F	20-45	1296	36	54	3/16	1/4	None	CAT II		
	Pyran Star L, Crystal L					3/8	3/8				
	Pyran Platinum L										
110,110B	FireLite NT	20-45	3204	36	89	3/16	5/16	1/16 PVC Tape	CAT II		
	FireLite Plus					5/16	7/16				
110, 110B	Keralite Safeguard	20-45	3627	46-1/2	78	5/16	7/16	1/16 PVC Tape	CAT II		
110, 110B	Pyran Star F, Crystal F	20-45	2736	36	76	3/16	5/16	1/16 PVC Tape	CAT II		
						9/32	FG3000S45				
	3/8					1/2	1/16 PVC Tape				
						15/32	FG3000S45				
						1/2	1/16 PVC Tape				
						15/32	FG3000S45				
118MD	FireLite IGU	20-45	3204	36	89	Nom. 1"	1-1/4	1/8 PVC Tape	CAT II		
118MD	Keralite FR-F IGU	20-45	3627	46-1/2	78	Nom.11/16	13/16	1/16 PVC Tape	CAT II		
	Keralite FR-L IGU					Nom.13/16	15/16				
118MD	Keralite Ultra	20-45	2736	46-1/2	76	Nom.11/16	13/16	1/16 PVC Tape	CAT II		
118MD	Keralite Ultra IGU	20-45	2736	46-1/2	76	Nom.1-1/4	1-3/8	1/16 PVC Tape	CAT II		
120M	Keralite Ultra HI IGU					Nom.1-1/2	1-5/8				
	Keralite Ultra Screen					Nom. 1-5/8	1-3/4				
110,110B	Pilkington Pyroshield Plus	45	1296	24	54	7/16	17/32	FG3000S45	CAT I		
118MD	Fireswiss Foam C40	45	2859	34-5/8	82-9/16	15/16	1-1/16	1/16 PVC Tape	CAT II		
118MD	Fireswiss Foam C44	45	4608	48	96	1-1/16	1-3/16	1/16 PVC Tape	CAT II		
118MD	Contraflam 45	45	3419	35-13/16	95-1/2	Nom. 3/4	7/8	1/16 PVC Tape	CAT II		
	Contraflam 45 IGU					Nom.1-1/4	1-3/8				
	120M					Contraflam 45 Screen	Nom.1-3/4				1-7/8
118MD	Pyrostop 45-200	45	3724	41-5/8	89-3/4	Nom. 3/4	7/8	FG3000S45	CAT II		
118MD	Pyrobel-45	45	2747	58-3/4	58-3/4	Nom. 5/8	7/8	1/8 PVC Tape	CAT II	Interior	
	Pyrobel-45 Exterior					Nom. 3/4	1				Exterior
	Pyrobel-45 Exterior Insulated					Nom. 1-1/4	1-1/2				
110, 110B	SuperClear 45-HS	45	3288	33	99-5/8	Nom. 3/4	7/8	1/16 PVC Tape	CAT II		
	SuperClear 45-HS-LI										
118MD	SuperLite II-XL **	45	1296	54	54	Thin 5/8 Nom.	7/8	1/8 PVC Tape	CAT II	Exterior can be insulated with Low-E	
			2432	34.500	70.500	Nom. 3/4" Std.	1				
			4952	116**	116**	Nom. 1	1-1/4				

<sup>1</sup> 20-45 Minute SuperLite I-XL and SuperLite I-XL IGU require approval of the AHJ.

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



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

Recommended Frame Models	Glass Type	Rating	Max. Size Sq. Inches	Max. Width	Max. Height	Glass Thickness	Pocket Thickness	Tape Required	CPSC Rating	Other Restrictions
118MD	SuperLite II-XLM-45	45	2747	58-3/4	58-3/4	Nom. 5/8	3/4	Self-Adhesive Intumescent Tape	CAT II	Temp. Rise
	SuperLite II-XLM-60	60	3855	44	87-5/8	Nom. 1"	1-1/8			
	SuperLite II-XLM-90	90	2916	36	61	Nom. 1-3/8 Int.	1-1/2			
110, 110B	SuperLite X-45	45	100	10	33	3/4	7/8	1/16 PVC Tape	CAT II	
110, 110B	SuperLite X-60	60	100	10	10	3/4	7/8	1/16 PVC Tape	CAT II	Temp. Rise
110, 110B	SuperLite X-90	90	100	10	10	3/4	7/8	1/16 PVC Tape	CAT II	Temp. Rise
110, 110B	SuperLite I-W	60-90	100	10	33	5/16	Same	None	CAT II	Temp. Rise
	WireLite NT			12		1/4				
	Safe-Wire									
	Protect3 Safety Glass									
110, 110B	SuperLite I-W	60-90	300	12	33	5/16	Same	None	CAT II	Non-Temp. Rise
	WireLite NT			12		1/4				
	Safe-Wire									
	Protect3 Safety Glass									
110, 110B	SuperLite I-W	60	960	12	80	5/16	15/32	FG3000S90	CAT II	Non-Temp. Rise Wood Door
	WireLite NT					12	1/4			
	Safe-Wire									
	Protect3 Safety Glass									
110, 110B	SuperLite I-W	90	552	12	46	5/16	15/32	FG3000S90	CAT II	Non-Temp. Rise Hollow Metal Door
	Protect3 Safety Glass					12	1/4			
	WireLite NT									
	Safe-Wire									
110, 110B	FireLite NT	60-90	100	12	33	3/16	1/4	None	CAT II	Temp. Rise
	FireLite Plus					5/16	5/16			
110, 110B	FireLite NT	60-90	300	15	33	3/16	1/4	None	CAT II	Non-Temp. Rise
	FireLite Plus					5/16	5/16			
110, 110B	FireLite NT	60	3204	36	89	3/16	5/16	1/16 PVC Tape	CAT II	Non-Temp. Rise
	FireLite Plus					5/16	7/16			
110, 110B	FireLite NT	90	2034	36	56-1/2	3/16	11/32	Ceramic Glazing Tape	CAT II	Non-Temp. Rise
	FireLite Plus					5/16	15/32			
118MD	FireLite IGU	60	100	12	33	Typ. 1"	1-1/4	1/8 PVC Tape	CAT II	Temp. Rise
118MD	FireLite IGU	60	3204	36	89	Typ. 1"	1-1/4	1/8 PVC Tape	CAT II	Temp. Rise
118MD	FireLite IGU	90	100	12	33	Typ. 1"	1-1/4	Ceramic Glazing Tape	CAT II	Temp. Rise
118MD	FireLite IGU	90	2034	36	56-1/2	Typ. 1"	1-1/4	Ceramic Glazing Tape	CAT II	Non-Temp. Rise
110, 110B	Keralite Safeguard	60-90	100	10	33	5/16	5/16	None	CAT II	Temp. Rise
110, 110B	Keralite Safeguard	60-90	300	15	33	5/16	5/16	None	CAT II	Non-Temp. Rise
110, 110B	Keralite Safeguard	60	3627	46/1/2	78	5/16	7/16	1/16 PVC Tape	CAT II	Non-Temp. Rise
110, 110B	Keralite Safeguard	90	3534	46-1/2	76	5/16	7/16	1/16 PVC Tape	CAT II	Non-Temp. Rise
118MD	Keralite FR-F IGU	60-90	100	10	33	Nom. 11/16	13/16	1/16 PVC Tape	CAT II	Temp. Rise
	Keralite FR-L IGU					Nom. 13/16	15/16			
118MD	Keralite FR-F IGU	60	3627	46-1/2	78	Nom. 11/16	13/16	1/16 PVC Tape	CAT II	Non-Temp. Rise
	Keralite FR-L IGU					Nom. 13/16	15/16			
118MD	Keralite FR-F IGU	90	3534	46-1/2	76	Nom. 11/16	13/16	1/16 PVC Tape	CAT II	Non-Temp. Rise
	Keralite FR-L IGU					Nom. 13/16	15/16			
118MD	Keralite Ultra	60-90	2736	46-1/2	76	Nom. 11/16	13/16	1/16 PVC Tape	CAT II	Temp. Rise



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Recommended Frame Models	Glass Type	Rating	Max. Size Sq. Inches	Max. Width	Max. Height	Glass Thickness	Pocket Thickness	Tape Required	CPSC Rating	Other Restrictions
118MD	Keralite Ultra IGU	60-90	2736	46-1/2	76	Nom.1-1/4	1-3/8	1/16 PVC Tape	CAT II	Temp. Rise
120M	Keralite Ultra HI IGU	60-90	2736	46-1/2	76	Nom.1-1/2	1-5/8	1/16 PVC Tape	CAT II	Temp. Rise
110, 110B	Pyran Star F, Crystal F	60-90	100	12	33	3/16	1/4	None	CAT II	Temp. Rise
	Pyran Star L, Crystal L					3/8	3/8			
	Pyran Platinum L									
110, 110B	Pyran Star F, Crystal F	60-90	300	15	33	3/16	1/4	None	CAT II	Non-Temp. Rise
	Pyran Star L, Crystal L					3/8	3/8			
	Pyran Platinum L									
110, 110B	Pyran Star F, Crystal F	60-90	2736	36	76	3/16	5/16	1/16 PVC Tape	CAT II	Non-Temp. Rise
							11/32	FG3000S90		
	Pyran Star L, Crystal L				75	3/8	1/2	1/16 PVC Tape		
							17/32	FG3000S90		
Pyran Platinum L			1/2	1/16 PVC Tape						
						17/32	FG3000S90			
110, 110B	Pilkington Pyroshield Plus	60-90	100	20	20	7/16	19/32	FG3000S90	CAT I	Non-Temp. Rise
118MD	Fireswiss Foam C40	60	1868	22-5/8	82-9/16	Nom. 7/8	1	1/16 PVC Tape	CAT II	Temp. Rise
118MD	Contraflam 60	60	2685	30	89-1/2	Nom. 1	1-1/8	1/16 PVC Tape	CAT II	Temp. Rise
120M	Contraflam 60 IGU					Nom. 1-1/2	1-5/8			
120MA	Contraflam 60 Screen					Nom. 2-1/16	2-3/16			
120M	Contraflam 60 IGU-HI					Nom. 1-3/4	1-7/8			
120M	Contraflam 90	90	3174	35-3/4	88-9/16	Nom.1-1/2	1-5/8	1/16 PVC Tape	CAT II	Temp. Rise
120MA	Contraflam 90 IGU					Nom.1-15/16	2-1/16			
120MB	Contraflam 90 Screen					Nom.2-7/16	2-9/16			
118MD	Pyrostop 60-101	60	3724	41-5/8	89-3/4	Nom. 7/8	1	1/16 PVC Tape	CAT II	Temp. Rise
118MD	Pyrostop 90-102	90	3724	41-5/8	89-3/4	Nom. 1-7/16	1-9/16	1/16 PVC Tape	CAT II	Temp. Rise
118MD	SuperLite II-XL	60	1296	54	54	Thin 1" Nom.	1-1/4	1/8 PVC Tape	CAT II	Non-Temp. Rise
120M	SuperLite II-XL**		4952	116**	116**	Nom. 1-3/8 Std.	1-5/8			
	SuperLite II-XL**		90	4990	116**	116**	1-1/2			
118MD	Pyrobel-60	60	3855	44	87-5/8	Nom. 1"	1-1/4	1/8 PVC Tape	CAT II	Interior Temp. Rise
120M	Pyrobel-60 Exterior					Nom. 1-1/4	1-1/2			Exterior
						Nom. 1-3/4	2			Exterior Insulated
120M	Pyrobel-90	90	2916	36	61	Nom.1-3/8	1-5/8	1/8 PVC Tape	CAT II	Interior Temp. Rise
120MA	Pyrobel-90 Exterior					Nom. 1-1/2	1-3/4			Exterior
						Nom. 2"	2-1/4			Exterior Insulated
110, 110B	FireLite NT	180	100	12	33	3/16	11/32	Ceramic Glazing Tape	CAT II	Temp. Rise
	FireLite Plus					5/16	15/32			
118MD	FireLite IGU	180	100	12	33	Typ. 1"	1-1/4	Ceramic Glazing Tape	CAT II	Temp. Rise
118MD	Keralite FR-F IGU	180	100	10	33	Nom.11/16	13/16	1/16 PVC Tape	CAT II	Temp. Rise
	Keralite FR-L IGU					Nom.13/16	15/16			
118MD	Keralite Ultra	180	100	10	33	Nom.11/16	13/16	1/16 PVC Tape	CAT II	Temp. Rise
118MD	Keralite Ultra IGU	180	100	10	33	Nom.1-1/4	1-3/8	1/16 PVC Tape	CAT II	Temp. Rise
120M	Keralite Ultra HI IGU					Nom.1-1/2	1-5/8			

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Recommended Frame Models	Glass Type	Rating	Max. Size Sq. Inches	Max. Width	Max. Height	Glass Thickness	Pocket Thickness	Tape Required	CPSC Rating	Other Restrictions
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## Conditions of UL Listings

1. Frames can be manufactured from either 18 GA. or 16 GA. Steel, Galvanized Steel, or Stainless Steel.
2. Mullions are UL Listed when installed using a single sheet of labeled glazing material.
3. Custom Shape Frames follow the same guidelines as rectangular frames.  
This includes Crosses, Triangles, Hexagons, etc.
4. Temperature Rise restrictions apply to 60, 90, and 180 Minute installations.
5. Veneer wrapped frames follow the same guidelines as non-veneered frames.
6. Hollow Metal Doors approved to use a clip system, in lieu of full perimeter channels, can use the AMS Hollow Metal Door Clips.

## Conditions of UL Approvals

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