



Hose Stream Tested



Radiant Heat Barrier



Impact Safety Rated

## Pyrobel-90

### Features & Benefits

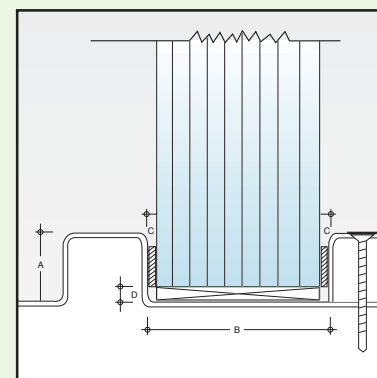
- Fire rated for 90 minutes with hose stream
- Intumescent interlayers expand offering maximum protection for egress and property protection. Temperature rise is limited to 250°F above ambient
- Tested as a complete transparent wall assembly utilizing simple on site construction of steel stud/ gypsum framing, or other approved framing
- Tested to latest positive pressure standards as mandated by IBC and NFPA 5000
- Wireless, colorless, and distortion-free
- Safety rated for all hazardous areas—tested to ANSI Z97.1 and CPSC 16CFR 1201 (Cat. I and II 400 ft. lb. impact)
- Available for standard steel door and frame assemblies with 5/8" stops
- For use in interior and exterior applications subject to framing options
- U.S. fabrication for fast delivery



Pyrobel-90 is a clear fire rated glazing for 90 minute applications with hose stream. It is safety tested and rated to meet all local, regional, state and federal code requirements. In case of fire, the intumescent interlayers expand at about 250°F to form a rigid and opaque barrier, blocking both convected and radiated heat transmission. This ensures effective egress for building occupants as well as the prevention of fire expansion due to the spontaneous combustion of materials on the protected side. Pyrobel-90 is listed for use in doors, transoms, sidelites, borrowed lites, and complete transparent wall assemblies as allowed by model building codes.

### Maximum Glazing Sizes (clear view)

	Width	Height	Max. Sq. In.	Stop Height
Doors	36"	61"	2196"	5/8"
Sidelites and Borrowed Lites	83 1/2"	83 1/2"	3465.25"	5/8"
Transoms	83 1/4"	83 1/4"	1103"	5/8"



- A: 5/8" steel; 1/2" metal lite kits
- B: 1-5/8" Interior
- C: 1/8" glazing tape
- D: 1/4" setting blocks

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## General Characteristics

	Interior	Exterior	Insulated Exterior
Usage	Interior	Ext. below 120°F, above 5°F	Ext. above 120°F, below 5°F
Thickness	1 3/8" (35mm) +/-2mm	1 1/2" (37mm) +/-2mm	2 1/8" (55mm) +/-2mm
Weight/sq.ft.	16.4 lbs (80kg/sq.m)	18 lbs (88kg/sq.m)	21 lbs (103kg/sq.m)
Light transmission	82%	81%	72%
Sound reduction	Rw=43 dB	Rw=44 dB	Rw=46 dB
Safety rating	CPSC 16CFR1201 Cat. II 400 ft. lbs. ANSI Z97.1		
Fire rating	90 minutes		
R-value	1.16	1.21	2.22
U-value	0.862	0.828	0.460

Maximum structural load performance (wind load–ASTM E330) of Pyrobel-90-37 is 512.4 lbs./sq. ft.

### LISTINGS

Testing completed by Intertek Testing Services Warnock-Hersey certification in accordance with ASTM E-119, E-152, E-163, CAN 4S-104, 106, NFPA-251, 257, UBC 7-1, 7-2, 7-4 (1997), UL-9, UL-10C. Test report number WHI PSV-1419 and WHI 495-1681.

### INSTALLATION

All systems require 1/4" x thickness of glass x 3" calcium silicate setting blocks placed at sill quarter points. Each lite of Pyrobel must be inspected prior to installation for damage including review of edge protecting tape. (DO NOT INSTALL GLASS THAT HAS BEEN DAMAGED.) Pyrobel must be glazed with 1/8" x 1/2" closed cell foam glazing tape. Exterior glazing must have PVB side facing to exterior side. All glazing must be sealed with neutral cure silicone around perimeter of both sides. DO NOT PRESSURE GLAZE PYROBEL PRODUCTS.

### STORAGE AND HANDLING

Store in a dry, ventilated location, not exposed to solar radiation at temperatures not to exceed -20°F or 120°F. Always maintain glass in a vertical position with back slightly inclined at 6-10°.

### QUALITY STANDARD

Pyrobel products are specially prepared products designed to prevent the expansion of fire. Thus, the specific optical quality should not be compared to single float or laminated PVB glazing. Consult InterEdge for specific acceptable quality standards before purchase.

### GUARANTEE

The manufacturer, AGC Flat Glass Europe, guarantees the characteristics of Pyrobel for a period of 5 years from date of delivery. Due to the nature of its interlayers, Pyrobel may develop some minor imperfections such as small bubbles or a slight distortion which will not affect the free vision through the glazing or fire performance. A variation of up to 5% of light transmission or haze shall not be considered a defect. This guarantee is for replacement of glass only. Any other costs associated with the removal or replacement of defective units are not the responsibility of the manufacturer. The guarantee shall apply only to glass handled, transported, stored and installed in accordance with normal procedures.

### LABELING

All products are labeled bearing the manufacturers name, testing laboratory, rating and safety standards.

### SPECIFICATIONS

All 90 minute fire rated and impact safety rated glazing shall be designated on the drawings as Pyrobel-90-35, 90 minute fire and safety glazing.

### LITE KITS FOR DOORS

Lite kits for Pyrobel are available from Anemostat Door Products by phone (310) 835-7500, or by fax (310) 835-0448. Contact Anemostat or other lite kit manufacturer directly for appropriate products.



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