

Features & Benefits

- Manufactured by AGC for 45 minute fire rating with hose stream
- Multi-laminated glass with intumescent interlayers
- Designated on drawings and in specifications as Pyrobel 45
- Tested for use as door lites and 48" x 96" fixed lites in accordance with ASTM E119, NFPA 80, NFPA 257, NFPA 252, UL 9, UL 10B, and UL 10C
- Tested to ANSI Z97.1 and CPSC 16CFR 1201 to meet maximum safety ratings
- Available for standard steel door and frame assemblies with 5/8" stops
- Available with additional lite for decorative, patterned, or painted appearance
- For use in interior and exterior applications
- U.S. fabrication for fast delivery



Maximum Glazing Sizes (ClearView)

| | Width | Height | Max. Sq. In. | Stop Height | Listing |
|-------------------------------|---------|---------|--------------|-------------|--------------|
| Doors | 58 3/4" | 58 3/4" | 2747" | 5/8" | Intertek/WHI |
| Windows and Borrowed Lites | 96" | 96" | 4608" | 5/8" | Intertek/WHI |
| Sidelites | 96" | 96" | 4608" | 5/8" | Intertek/WHI |

| | Interior | Exterior | Insulated Exterior | |
|--------------------|------------------------------------------------|-------------------------------|----------------------------------|--|
| Usage | Interior | Ext. below 120°F, above -20°F | Ext. above 120°F, below -20°F | |
| Thickness | 5/8" (16mm) -0/+1.5mm | 3/4" (20mm) +/-1mm | 1 1/4" (34mm) +/-2mm | |
| Weight/sq.ft. | 8.2 lbs (40kg/sq.m) | 9.8 lbs (48kg/sq.m) | 13.12 lbs (64kg/sq.m) | |
| Light transmission | 85% | 83% | 74% | |
| Sound reduction | Rw=39 dB | Rw=40 dB | Rw=42 dB | |
| Safety rating | CPSC 16CFR1201 Cat. II 400 ft. lbs. ANSI Z97.1 | | | |
| Fire rating | 45 minutes | | | |
| R-value | 1.09 | 1.14 | 1.89 | |
| U-value | 0.915 | 0.881 | 0.528 | |

Product Guidelines

LISTINGS

Testing completed by Intertek/Warnock-Hersey and UL

LABELING

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

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. Refer to shop drawings for final assembly requirements.

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 GGI for specific acceptable quality standards.

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 is not the responsibility of the manufacturer. The guarantee shall apply only to glass handled, transported, stored and installed in accordance with normal procedures.



Features & Benefits

- Manufactured by AGC for 60 minute fire rating with hose stream
- Multi-laminated glass with intumescent interlayers
- Available in butt-glazed assembly
- Designated on drawings and in specifications as Pyrobel 60
- Tested in accordance with ASTM E119, NFPA 80, NFPA 252, NFPA 257, UL 9, UL 10B, UL 10C and UL 263 as a transparent wall assembly using StileLite™ or GGI-KwicKap™ or GGI PyroFrames™
- Tested to ANSI Z97.1 and CPSC 16CFR 1201 to meet maximum safety ratings
- Available for use in door vision lite assemblies with 5/8" stop height
- Available with additional lite for decorative, patterned, or painted appearance
- For use in interior and exterior applications
- U.S. fabrication for fast delivery



| | Width | Height | Max. Sq. In. | Stop Height | Listing |
|---------------|----------|----------|--------------|-------------|----------------------|
| Doors | 87 5/8" | 87 5/8" | 3855 | 5/8" | Intertek/WHI |
| PyroFrames™ | 86 5/8" | 86 5/8" | 3833 | 5/8" | Intertek/WHI |
| KwicKap™ | *87 5/8" | *87 5/8" | *3855 | 1 1/4" | Intertek/WHI & UL |
| Vision 60™ | *48" | *96" | *4608 | 5/8" | Intertek/WHI |
| StileLite 60™ | 93" | 93" | 4487 | 5/8" | Intertek/WHI |



| | Interior | Exterior | Insulated Exterior | | |
|--------------------|------------------------------------------------|----------------------------------|----------------------------------|--|--|
| Usage | Interior | Ext. below 120°F, above -20°F | Ext. above 120°F, below -20°F | | |
| Thickness | 1" (25mm) +/-2mm | 11/4" (29mm) +/-2mm | 1 3/4" (45mm) +/-2mm | | |
| Weight/sq.ft. | 12.3 lbs (60kg/sq.m) | 13.94 lbs (68kg/sq.m) | 17 lbs (83kg/sq.m) | | |
| Light transmission | 81% | 80% | 71% | | |
| Sound reduction | Rw=42 dB | Rw=43 dB | Rw=44 dB | | |
| Safety rating | CPSC 16CFR1201 Cat. II 400 ft. lbs. ANSI Z97.1 | | | | |
| Fire rating | 60 minutes | | | | |
| R-value | 1.14 | 1.16 | 2.18 | | |
| U-value | 0.881 | 0.862 | 0.458 | | |

Maximum structural load performance (wind load-ASTM E330) of Pyrobel-60-25 is 1119.1 lbs./sq.

Product Guidelines

LISTINGS

Testing completed by Intertek/Warnock-Hersey and UL

LABELING

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

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. Refer to shop drawings for final assembly requirements.

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 GGI for specific acceptable quality standards.

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 is not the responsibility of the manufacturer. The guarantee shall apply only to glass handled, transported, store and installed in accordance with normal procedures.



Features & Benefits

- Manufactured by AGC for 90 minute fire rating with hose stream
- Multi-laminated glass with intumescent interlayers
- Designated on drawings and in specifications as Pyrobel 90
- Tested in accordance with ASTM E119, NFPA 80, NFPA 252, NFPA 257, UL 9, UL 10B, UL 10C and UL 263 as a transparent wall assembly using GGI-PyroFrames™ or GGI-KwicKap™ and in GGI-PyroDoors™
- Tested to ANSI Z97.1 and CPSC 16CFR 1201 to meet maximum safety ratings
- Available for standard steel door vision lite assemblies with 5/8" stop height
- Available with additional lite for decorative, patterned, or painted appearance
- For use in interior and exterior applications
- U.S. fabrication for fast delivery



Maximum Glazing Sizes (ClearView)

| | Width | Height | Max. Sq. In. | Stop Height | Listing |
|--------------|---------|---------|--------------|-------------|--------------|
| PyroDoors™ | 39 3/4" | 87 5/8" | 3492 | 5/8" | Intertek/WHI |
| PyroFrames™ | 87 5/8" | 87 5/8" | 3833 | 5/8" | Intertek/WHI |
| KwicKap™ | 87 5/8" | 87 5/8" | 3528 | 5/8" | Intertek/WHI |
| Vision Lites | 36" | 61" | 2196 | 5/8" | Intertek/WHI |

| | Interior | Exterior | Insulated Exterior | |
|--------------------|------------------------------------------------|-------------------------------|----------------------------------|--|
| Usage | Interior | Ext. below 120°F, above -20°F | Ext. above 120°F, below -20°F | |
| Thickness | 1 3/8" (35mm) +/-2mm | 11/2" (37mm) +/-2mm | 2" (50mm) +/-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.

Product Guidelines

LISTINGS

Testing completed by Intertek/Warnock-Hersey and UL

LABELING

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

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. Refer to shop drawings for final assembly requirements.

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 GGI for specific acceptable quality standards.

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 is not the responsibility of the manufacturer. The guarantee shall apply only to glass handled, transported, store and installed in accordance with normal procedures.



Features & Benefits

- Manufactured by AGC for 120 minute fire rating with hose stream
- Multi-laminated glass with intumescent interlayers
- Available in butt-glazed assembly*
- Designated on drawings and in specifications as Pyrobel 120
- Tested in accordance with ASTM E119, NFPA 80, NFPA 252, NFPA 257, UL 9, UL 10B, UL 10C and UL 263 as a transparent wall assembly using GGI-PyroFrames™ or StileLite 300™ or GGI-KwickKap™
- Tested to ANSI Z97.1 and CPSC 16CFR 1201 to meet maximum safety ratings
- Available for standard steel door vision lite assemblies with 5/8" stop height
- Available with additional lite for decorative, patterned, or painted appearance
- For use in interior and exterior applications
- U.S. fabrication for fast delivery



Maximum Glazing Sizes (ClearView)

| | Width | Height | Max. Sq. In. | Stop Height | Listing |
|-------------------|-----------|-----------|--------------|-------------|----------------------|
| PyroFrames™ | 86 5/8" | 86 5/8" | 3833 | 5/8" | Intertek/WHI |
| StileLite300 | 94" | 94" | 4434 | 5/8" | Intertek/WHI & UL |
| KwicKap™ | *100 7/8" | *100 7/8" | *4434 | 11/4" | UL |
| Butt-Glazed Panel | 40" | 114" | 4560 | 11/4" | UL |

| | Interior | Exterior | Insulated Exterior | | |
|--------------------|------------------------------------------------|----------------------------------|----------------------------------|--|--|
| Usage | Interior | Ext. below 120°F, above -20°F | Ext. above 120°F, below -20°F | | |
| Thickness | 2 1/8" (53mm) +3/-1mm | 2 5/16" (57mm) +3/-1mm | 2 3/4" (70mm) +3/-1mm | | |
| Weight/sq.ft. | 24.6 lbs (120kg/sq.m) | 26.2 lbs (128kg/sq.m) | 30 lbs (146kg/sq.m) | | |
| Light transmission | 71% | 70% | Varies | | |
| Sound reduction | Rw=46 dB | Rw=47 dB | Varies | | |
| Safety rating | CPSC 16CFR1201 Cat. II 400 ft. lbs. ANSI Z97.1 | | | | |
| Fire rating | 120 minutes | | | | |
| R-value | 1.18 | 1.21 | Varies | | |
| U-value | 0.845 | 0.828 | Varies | | |

Maximum structural load performance (wind load-ASTM E330) of Pyrobel 120 is 512.4 lbs/sq. ft.

Product Guidelines

LISTINGS

Testing completed by Intertek/Warnock-Hersey and UL

LABELING

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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. Refer to shop drawings for final assembly requirements.

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

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GUARANTEE

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