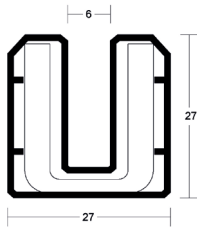
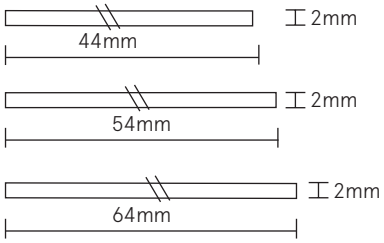
SYSTEM-90 PLUS

System-90 PLUS is designed for 60 minute fire resistant doors and screens. Comprises a U shaped PVC profile containing an intumescent core and liner. When using a suitable door and screen construction it provides 90 minute fire resistance. 120 minute fire resistance can only be attained when a suitable door construction is used.



System-90 PLUS



B24402, B25402& B26402
Sodium silicate intumescent liners



SYSTEM SPECIFICATIONS

Test evidence
- Fire: BS 476-22:1987.

Performance
- Provides 60 minutes fire resistance.
- For applications 90 minutes and above please contact our technical department.

Size
- 27mm x 27mm.

Standard lengths
- 2.1m as standard. Other lengths available to special order.

Seal material
- Sodium silicate intumescent within rigid PVC profile. Secondary sodium silicate intumescent material used as lining around the perimeter of the aperture.

Application
- FD60 timber fire doors, FD90 64mm timber doors, FD90 mineral composite doors and timber framed screens.

Finish
- Black, white, light brown and dark brown as standard.
- Other colours available to special order. Minimum order quantities and extended lead times apply.

Glass thickness
- Suitable for use with a variety of 5mm – 7mm fire rated glass types.

Glass type
- Please refer to Certifire certificate CF185 for the full range of glass types.

Sodium silicate intumescent liner
- A 2mm sodium silicate liner is required with doors and screens.
- 44mm x 2mm, 54mm x 2mm, 64mm x 2mm.
- Must be used with liner and beading to prevent erosion from under the system.

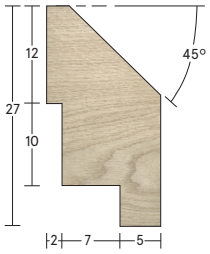
Glazing beads
- Glazing beads are required on both sides of the glass.
- Note: Timber beads must be hardwood only (min density 650kg/m^3) excluding ash.
- Fixing of beads: Screwed using No.8 x 45mm countersunk screws at 150mm nom. centres or metal beading through-bolted.

Certification
certifire
(CF185)

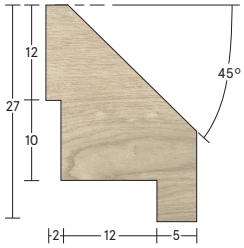
LORIENT
ASSA ABLOY

SYSTEM-90 PLUS

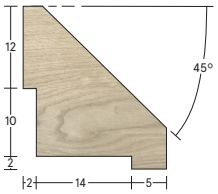
Timber glazing beads:



Glazing bead
For 44mm
thick doors



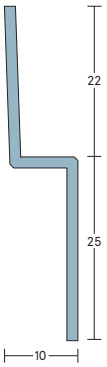
Glazing bead
For 54mm
thick doors



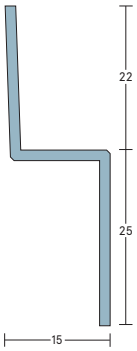
Glazing bead
For unrebated
screen frames

Note: Timber beads must be hardwood only (min density 650kg/m^3) excluding Ash.

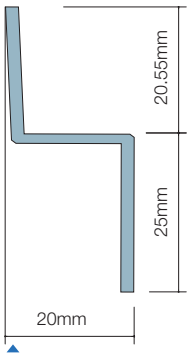
Non-combustible glazing beads:



Glazing bead
For 44mm
thick doors



Glazing bead
For 54mm
thick doors



Glazing bead
For 64mm
thick doors

Non-combustible beads for doors (90 and 120 minute applications).

SYSTEM-90 PLUS

CERTIFIRE APPROVED APPLICATIONS

Certifire CF185 Certificate of Approval relates to the following glasses when used in conjunction with Lorient System-90 PLUS glazing system at the maximum sizes shown below:

Protection Integrity / Insulation (minutes)	Glass types	Max. pane height	Max. pane width	Max. pane area	Doors				Screens	
60/0	5mm FireLite	1600mm (at 200mm wide)	200mm (at 1600mm high)	0.32m²	✓	✓	✓			
		720mm (at 590mm wide)	720mm (at 590mm wide)	0.43m²	✓	✓	✓			
60/0	7mm Pyroshield® 2	1600mm (at 200mm wide)	200mm (at 1600mm high)	0.32m²	✓	✓	✓			
		720mm (at 590mm wide)	720mm (at 590mm wide)	0.43m²	✓	✓	✓			
60/0	6mm Pyran-S®	1600mm (at 200mm wide)	200mm (at 1600mm high)	0.32m²	✓	✓	✓			
		720mm (at 590mm wide)	720mm (at 590mm wide)	0.43m²	✓	✓	✓			
60/0	7mm Pyrostem® 2	1300mm (at 626mm wide)	626mm (at 1300mm high)	0.81m²	✓	✓	✓			
60/0	7mm Pyrostem® 2	1400mm (at 300mm wide)	300mm (at 1400mm high)	0.42m²	✓	✓	✓			
90/0	5mm FireLite	600mm (at 600mm wide)	600mm (at 600mm high)	0.36m²	✓	✓	✓			
		1400mm (at 500mm wide)	500mm (at 1400mm high)	0.7m²	✓	✓	✓			
90/0	6mm Pyran-S®	600mm (at 600mm wide)	600mm (at 600mm high)	0.36m²	✓	✓	✓			
		1400mm (at 500mm wide)	500mm (at 1400mm high)	0.7m²	✓	✓	✓			
90/0*	5mm Firelite®	500mm (at 400mm wide)	400mm (at 500mm high)	0.2m²	✓	✓	✓			
		1600mm (at 200mm wide)	200mm (at 1600mm high)	0.32m²	✓	✓	✓			
90/0*	6mm Pyran-S®	500mm (at 400mm wide)	400mm (at 500mm high)	0.2m²	✓	✓	✓			
		1600mm (at 200mm wide)	200mm (at 1600mm high)	0.32m²	✓	✓	✓			
120/0	5mm FireLite	500mm (at 400mm wide)	400mm (at 500mm high)	0.2m²	✓	✓	✓			
120/0	6mm Pyran-S®	500mm (at 400mm wide)	400mm (at 500mm high)	0.2m²	✓	✓	✓			

Note: CF185 relates to System-90 PLUS applied to minimum 64mm thick timber based door leaves for 90 minutes integrity and composite mineral based door leaves for 90 and 120 minutes integrity. For screens or partitions, frame members to be of minimum cross-section 94mm x 44mm in hardwood of minimum density 650 kg/m³. Where alternative timbers are to be used, other hardwoods of the same density or higher may be used with the exception of Ash.

The maximum glass sizes shown relate to our test evidence. However, the test evidence for the door leaf being used will show the maximum glass size possible, and this may be smaller than the dimensions given in this brochure. The shape and number of apertures will be dependant on the door manufacturers test evidence.

Please always refer to the test evidence for the door leaf being used, and in case of any query please contact our Technical Services team on 01626 834252.

certifire
(CF5033)

LORIENT
ASSA ABLOY

SYSTEM-90 PLUS

CERTIFIRE APPROVED APPLICATIONS

Certifire CF185 Certificate of Approval relates to the following glasses when used in conjunction with Lorient System-90 PLUS glazing system at the maximum sizes shown below:

Protection Integrity / Insulation (minutes)		Glass types	Max. pane dimension (mm) at any aspect ratio less than 1:1	Max pane dimension (mm) at an aspect ratio of 1:1	Max. pane area	Doors				Screens	
60/0	▲	7mm Pyroshield® 2	1000mm (at 1000mm wide)	1000mm (at 1000mm high)	1.00m²					✓	✓
60/0	▲	5mm FireLite	2420mm or 1077mm	1460mm (at 1460mm high)	2.15m²					✓	✓
60/0	▲	6mm Pyran-S®	2420mm or 1077mm	1460mm (at 1460mm high)	2.15m²					✓	✓

Note: CF185 relates to System-90 PLUS. For screens or partitions, frame members to be of minimum cross-section 94mm x 44mm in hardwood of minimum density 650 kg/m³. Where alternative timbers are to be used, other hardwoods of the same density or higher may be used with the exception of Ash.

certifire (CF5033)

The maximum glass sizes shown relate to our test evidence. However, the test evidence for the door leaf being used will show the maximum glass size possible, and this may be smaller than the dimensions given in this brochure. The shape and number of apertures will be dependant on the door manufacturers test evidence.

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