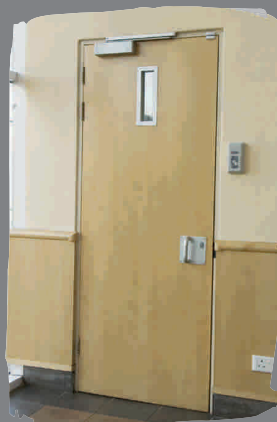


# opening systems pyropanel fire doors



**creating environments**



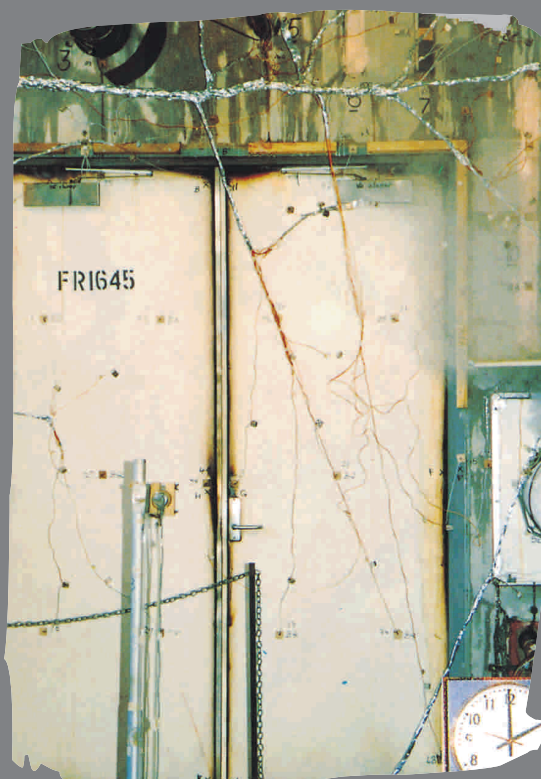


## pelican systems fire doorsets

PYROPANEL DEVELOPMENTS (PTY) LTD. are industry leading innovators of fire door technology and have teamed up with PELICAN SYSTEMS (Pty) Ltd. to make this technology available locally in South Africa.

PYROPANEL has done extensive testing and development to British, European, New Zealand and Australian standards and we are now the first South African Company to successfully apply for a permit to apply the SABS mark to our locally manufactured doors. This is significantly different from holding an SABS test report for a particular fire door assembly, which successfully passed a test. Test reports apply specifically to the door assembly that was tested and there are no guarantees that doors manufactured thereafter are made to the same exacting standards as the test door itself.

One of the conditions of being an SABS permit holder requires that SABS representatives randomly select doors from our production line for testing. Due to this fact, we at PELICAN SYSTEMS (Pty) Ltd. have ensured that each and every door we manufacture is made to the same exacting standards as the doors we have had tested. This ensures that you, our customer, has absolute peace of mind in the knowledge that every one of our doors is made to the highest quality standards and is guaranteed to do the job they are intend for.



In the seemingly unlikely event of a fire, the quality of the fire doors used in a building can severely impact on the safety of its occupants. It is during these events that products such as fire doors need to perform to specification and cannot be found wanting in any aspect of their design or construction. We therefore strongly advocate that when selecting a fire door for a building application where the safety of people and property is at risk, there should be no compromise.

## fire rated single action, side hung doorsets (1/2, 1, 2, 3, and 4 hr rating) (SABS class A, B, C and D")

Depending on the rating required PYROPANEL hinged fire rated doorsets are constructed with either a solid or laminated "Pyrolite" or "FR Board" core covered on both side with plywood facings and finished with timber edge strips. Top and bottom rails are made up of treated pine and an intumescent strip where required.

Perforated steel plates are strategically placed within the door leaf to provide suitable fixing locations for hinges, door closers, concealed door closers, floor springs, locks, furniture and panic bars. As a standard we provide for the hinges, a mortice lock with furniture and a standard fire rated doorcloser. If your ironmongery differs from

these standard requirements it is imperative that the ironmongery specifications be provided to PELICAN SYSTEMS (Pty) Ltd. prior to manufacture to ensure that the correct ironmongery fixing provisions are made within each door leaf (See Fig 2).

Hinged door assemblies are available in single and double door options. Double doors are fitted with anodised aluminium "J" section meeting stiles, set flush to the door faces and forming a double lapped joint. Aluminium "bull-nosed" sections incorporating intumescent fire and smoke seals as well as aluminium clad rebated meeting stiles are also available (See Fig 4).

### Dimensions:

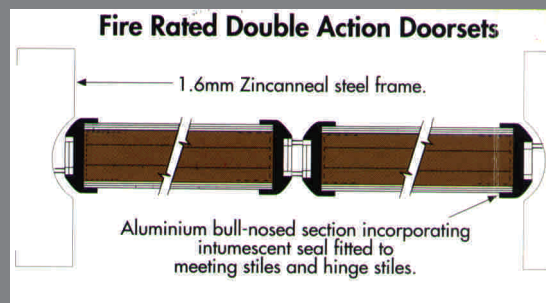
- maximum opening size – single leaf door  
– 3000 x 1200 x 48mm
- maximum opening size – double leaf door  
– 3000 x 3000 x 48mm

### Hardware options:

Suitable fire rated door hardware from most reputable manufacturers are compatible with PYROPANEL fire rated doorsets. Please consult with your nearest PELICAN SYSTEMS (Pty) Ltd. representative to obtain assistance with your specification requirements.

### Finishes:

Doors are available in various finishes including standard plywood for painting, selected polished veneers, fire retardant laminates and steel faces and edges.



## THE ADVANTAGES OF PYROPANEL FIRE DOORS

- Total peace of mind in the knowledge that PYROPANEL fire rated doorsets will perform when put to the test in a fire.
- PYROPANEL fire rated doorsets are far lighter than conventional fire doors and this ensures they are easier to transport and to install on site.
- The lightweight construction of PYROPANEL fire rated doorsets also ensures that the doors cause less wear and tear on hinges and door furniture thus significantly extending the life of the fire doorset. This is even more significant when doors are used in high traffic areas.
- Provisions for door furniture are made during construction of the doorset thus ensuring there are no fixing pullouts and no unsightly back to back fixings are required.
- PYROPANEL fire rated doorsets use advanced double core technology, which will consistently outperform any fire door constructed with a single core design.
- PYROPANEL fire rated doorsets can be trimmed at the bottom by up to 20mm to accommodate floor variances.
- PYROPANEL fire rated doorsets are available in a wide variety of finishes and configurations. Due to the fact that PELICAN SYSTEMS (Pty) Ltd. also manufactures standard timber door veneers can be matched to ensure consistency of veneers on all doors used in the building.



## fire rated double action, side hung doorsets (fire rated up to 2 hours)

PYROPANEL was one of the first to develop a double action fire doorset which is an ideal problem solver where single action doorsets cause functional problems. Double action doorsets are ideal for high traffic areas where a two way swing can be an important requirement. Typical installations include:-

- Hospitals
- Public buildings
- Hotels
- Schools, Technikons and Universities
- Kitchens

Double acting fire doorsets are available in single and double leaf options. Door edges are finished with aluminium "bull-nosed" sections incorporating intumescent seals fitted in meeting and hinge stiles. (See Figure 1)

Hardware options:

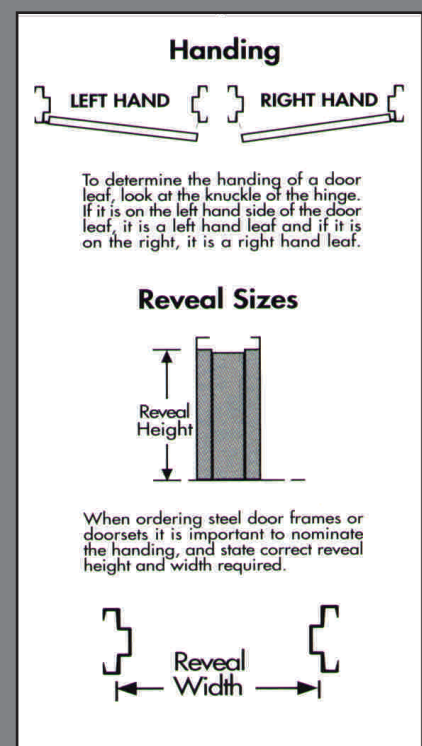
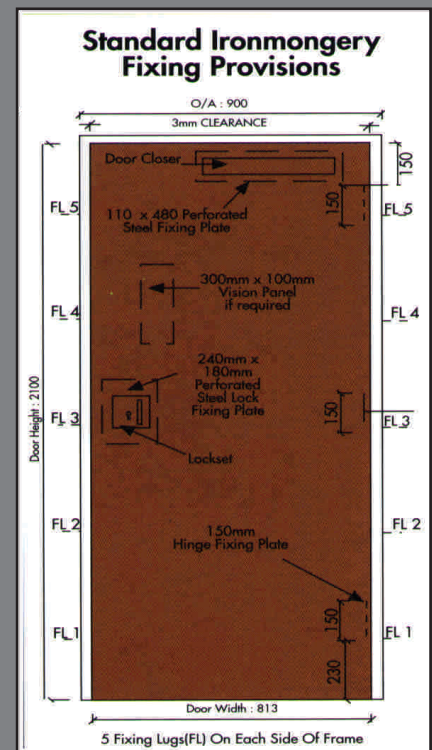
Suitable fire rated floor springs or concealed double action door closers from most reputable manufacturers are compatible with PYROPANEL fire rated doorsets. Please consult with your nearest PELICAN SYSTEMS (Pty) Ltd. representative to obtain assistance with your specification requirements.

Finishes:

Doors are available in various finishes including standard plywood for painting, selected polished veneers, fire retardant laminates and steel facings and edges.

### Dimensions:

maximum opening size – single leaf double action door – 2324 x 1016mm  
 maximum opening size – double leaf double action door – 2324 x 2040mm







## general

All PYROPANEL fire rated doorsets are available with Pyroceramic or Georgian wire view panels as per SABS requirements and steel kick plates and pushplates where required. All doors are supplied with metal identification tags on the door leaf and frame displaying the doorset number, the date of manufacture, the class/fire rating of the door and the SABS permit number. All doors are manufactured, labelled and supplied in strict accordance with SABS 1253 : 1994.

## fire rated sliding doorsets (fire rated up to 5 hours)

PYROPANEL sliding doorsets offer a lightweight construction to fire rating ratio and can be built on site thus eliminating many site and transport problems. Facings are constructed from 1.0mm zincanneal sheet steel or 4mm decorative fire retardant chemically treated plywood. Doors are edged all around by 1.2mm steel U channels to protect door edges. Track systems are selected based on the application requirements and the size and weight of the door leaves.

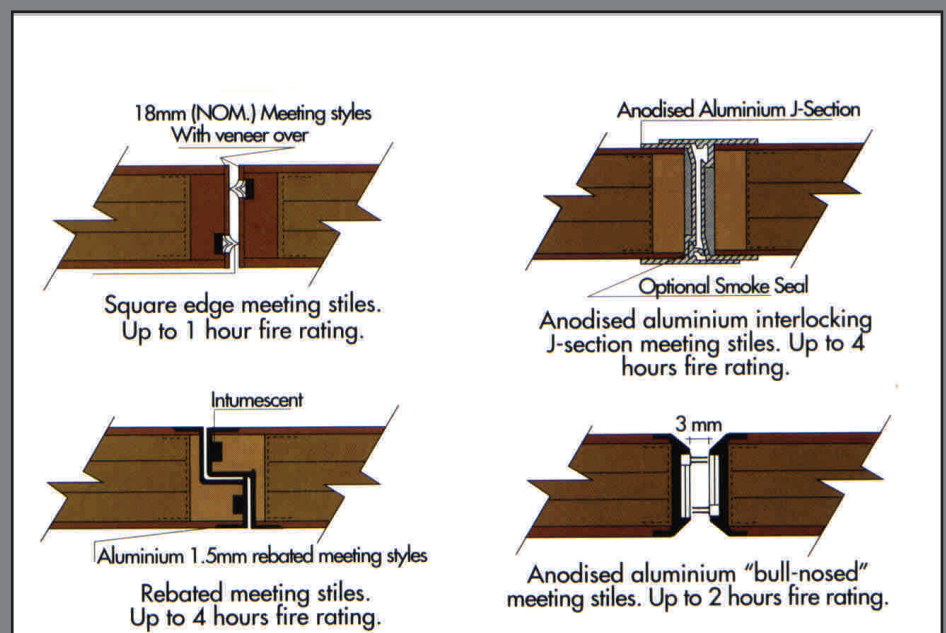
### Hardware options:

Suitable fire rated sliding door gear and door furniture from most reputable manufacturers are compatible with PYROPANEL fire rated doorsets. Please consult with your nearest PELICAN SYSTEMS (Pty) Ltd. representative to obtain assistance with your specification requirements.

### Finishes:

Doors are faced with 1.0mm zincanneal steel or fire retardant plywood for painting.

**Dimensions:**  
maximum leaf size  
– 5000 x 6000mm  
Weight: 50kg/m<sup>2</sup>  
Thickness: 80mm



## bill of quantity specifications

Standard Fire Rated Hinged Doorsets (1 and 2 hr rating or SABS class A & B) (Specifications for all other PYROPANEL fire rated doorsets are available on request.)

### A) 1 Hour Fire Rated Doorset

Supply and install PYROPANEL FIRE RATED DOORSETS in strict accordance with the manufacturers instructions and in compliance with SABS 1253 : 1994 and carrying the relevant SABS mark for a 60 min fire rating with 3.6mm treated commercial ply suitable for painting on both sides. Including intumescent strip to top of door, hardwood edges, specified ironmongery and hinged one side to suitable 1.6mm gauge red oxide primered mild steel / galvanized steel frame.

1. Single Leaf door 810 x 2030 x 48mm including frame suitable for 115mm / 230mm brick wall.
2. Unequal Leaf Double door 1200 x 2030 x 48mm including frame suitable for 115mm / 230mm brick wall.
3. Equal Leaf Double door 1620 x 2030 x 48mm including frame suitable for 115mm / 230mm brick wall.
4. Single Leaf door 810 x 2030 x 48mm including 100 x 300mm vision panel with Georgian Wire fire resistant glass and frame suitable for 115mm / 230mm brick wall.
5. Unequal Leaf Double door 1200 x 2030 x 48mm including 100 x 300mm vision panel with Georgian Wire fire resistant glass to each leaf and frame suitable for 115mm / 230mm brick wall.
6. Equal Leaf Double door 1620 x 2030 x 48mm including 100 x 300mm vision panel with Georgian Wire fire resistant glass to each leaf and frame suitable for 115mm / 230mm brick wall.

### B) 2 Hour Fire Rated Doorset

Supply and install PYROPANEL FIRE RATED DOORSET in strict accordance with the manufacturers instructions and in compliance with SABS 1253 : 1994 and carrying the relevant SABS mark for a 120 min fire rating with 3.6mm treated commercial ply suitable for painting on both sides. Including intumescent strip to top of door, hardwood edges, specified ironmongery and hinged one side to suitable 1.6mm gauge red oxide primered mild steel / galvanized steel frame.

1. Single Leaf door 810 x 2030 x 48mm including frame suitable for 115mm / 230mm brick wall.
2. Unequal Leaf Double door 1200 x 2030 x 48mm including frame suitable for 115mm / 230mm brick wall.
3. Equal Leaf Double door 1620 x 2030 x 48mm including frame suitable for 115mm / 230mm brick wall.
4. Single Leaf door 810 x 2030 x 48mm including 100 x 300mm vision panel with PYROCERAMIC fire resistant glass and frame suitable for 115mm / 230mm brick wall.
5. Unequal Leaf Double door 1200 x 2030 x 48mm including 100 x 300mm vision panel with PYROCERAMIC fire resistant glass to each leaf and frame suitable for 115mm / 230m brick wall.
6. Equal Leaf Double door 1620 x 2030 x 48mm including 100 x 300mm vision panel with PYROCERAMIC fire resistant glass to each leaf and frame suitable for 115mm / 230mm brick wall.

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Website: [www.pelican.co.za](http://www.pelican.co.za)  
Email: [info@pelican.co.za](mailto:info@pelican.co.za)

If you require any further information about PELICAN Systems, PYROPANEL fire doors or any of our other products we will be pleased to answer your enquiry by either: sending you further literature on areas of interest to you; arranging for one of our representatives to visit you in person or arranging for you to come and visit our showroom and manufacturing facility.

Your local distributor is:

