

# FIRE RATED DOORSETS SYSTEM GUIDE

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## What are Fire Rated Doorsets?

A Fire Rated Doorset consists of a door leaf, door frame, associated hardware such as closers, handles, locks, vision panels, air grilles (etc), and is defined under Australian Standard AS1905.1. This standard also defines the installation and tagging features that are required for the doorset to be deemed a 'Fire Rated Doorset', and in particular stipulates that a fire rated doorset must be self closing and self latching. The term 'FIRE DOOR' is the common abbreviation of 'FIRE DOOR SET', and includes all of the requirements stipulated in AS1905.1.

The fire rated door leaves detailed in this manual are only one component of a fire rated doorset, and will only meet the requirements set out in AS1905.1 when they are installed correctly, incorporate approved hardware, and are self closing and self latching, and fitted into a tested and approved wall system. If any of the above requirements are not met, the door can not be tagged as a certified fire rated doorset.

## Range of Pyropanel Fire Rated Doorsets

Pyropanel Developments has been developing and manufacturing fire rated doors for 30 years, and has developed a huge range of fire rated doorsets to meet most requirements set out in the numerous Australian and International Standards.

The range includes:

- Timber faced side hung fire doorsets for internal and external applications, available in a multitude of finishes and fire ratings up to 4hrs,
- Sliding fire doors,
- Steel faced or fully clad steel fire doors,
- Double acting fire doors,
- Fully glazed timber fire doors,
- Fully glazed steel fire doors.

Pyropanel also offer a large range of doorsets that combine fire resistance with other tested and certified features such as smoke leakage (*see life safety doors*), bullet and intruder resistance (*see special purpose doors*), acoustic resistance (*see acoustic doors*), and special high performance finishes such as hospital grade stainless steel and mirror finishes.

## Installation of Fire Rated Doorsets

Pyropanel Fire Doors have been tested and approved with a wide range of the most commonly occurring wall types, as well as a large range of the less common wall types. These include masonry walls, brick walls, timber and steel stud walls using fire rated plasterboard, aerated masonry bricks and panels. For details on installation, please refer to frames and building in details, or contact Pyropanel Development for more information.

Many Pyropanel Fire Doorsets have been in active service for in excess of 20 years.

## Advantages and Features

Because Pyropanel develop the most technologically advanced fire doorsets available, there are numerous features of a Pyropanel fire door that provide significant advantages:

**Lightweight materials** - Pyropanel Fire doors can weigh only half as much as conventionally constructed fire doors. This will reduce the amount of time and effort required to hang the doors, will reduce maintenance costs due to dropping on hinges, and increase the life of the door.

**Trimming** - Pyropanel Fire door leaves can be readily trimmed on site to facilitate easy installation to existing approved door frames. In extreme cases, rails and/or stiles can be replaced using approved methods and materials (contact your licensed Pyropanel Agent).

**Fixing of hardware** - Pyropanel's latest range of hinged fire door leaves, made from environmentally sound "Pandor" core do not contain steel components, enabling hardware to be securely fixed to any part of the door leaf.

**Bond Strength** - facings and edges are bonded to the core using melamine-based resin adhesive

## Certification

Pyropanel Fire Doors are fully tested and certified to a variety of countries' standards, including:

AS 1530.4	1997	ISO 834	1999
AS 1905.1	1997	ISO 3008	1976
AS 4072.1	1992	NZS 4232	1984
SABS 0177.2	1981	BS 476.20/22	
SABS 1253	2003	Chinese GB 7633	1987
SS332	2000	Chinese GB 12955	1991
		Chinese GB 14101	1993

Please note, for a detailed list of the range of products approved for countries outside Australian and New Zealand, please contact Pyropanel or your local licensed agent.

## Summary

- Multiple Fire Resistance Levels available
- Huge range of finishes, including:
  - Ply, MDF,
  - Steel, stainless steel, zinc,
  - Routed faces and mouldings,
  - Mirror,
  - Melamines and laminates.
- Available with either Exposed or Concealed seal arrangements, by Euroseal®, Raven, & Lorint
- Tested and certified Acoustic Ratings from 27 - 46Rw



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