

Introduction



Company profile and history

The Pyropanel Group was founded in 1976 as a family owned business, and was wholly acquired by Assa Abloy in February 2007.

From humble beginnings as a supplier of timber doors, we have operated a continuous program of research and development which has resulted in a diverse range of independently tested and certified fire resistant and special purpose products. This commitment to research remains as strong today as it was in the past, ensuring that our products remain at the forefront of their field. To meet the growing needs of off-shore markets Pyropanel products are tested to an ever increasing range of international standards.

Our head office is based in eastern Melbourne, Victoria, with distribution throughout Australia, New Zealand and a growing number of overseas countries via a network of privately owned licensed manufacturers and distributors known as 'Licencees'. These Licencees have been fully trained in the construction methods and features of the Pyropanel range, so you can be confident that the product will meet the strict quality and performance characteristics that have become synonymous with Pyropanel products.

Using this manual

This product manual is designed to be used by specifiers, builders, surveyors, architects, designers, engineers or whomever requires technical information about our range of products.

The manual has been divided into product specific sections, with each section containing a '**System Guide**' which is designed to introduce the reader to the section, provide information about the range of products, while also detailing particular characteristics that may be common to all products within that section. A sub-list of the range of products is also contained within each system guide to allow for easy product selection.

Following the System Guides are the '**Tech Sheets**', which provide detailed technical information on each product within our range. Many tech sheets also refer to additional sheets to provide supplementary and common information.

Finally, this **introduction** provides background information about our company, as well as providing a **comprehensive list of all the current tech sheets available, and the correct edition of these tech sheets.**

All information found in this manual is available for downloading on the Pyropanel website, and tech sheets and systems guides are updated and published quarterly - please refer to the '**Edition date**' on the top of this page to determine how current your version is.

Should you wish to request a printed version, please do not hesitate to contact the Pyropanel office on the numbers listed below, and we can organise for additional copies or printed updates to be provided to you.

Range of Pyropanel products

Pyropanel Developments has developed a huge range of fire rated, non fire rated and special purpose products to meet most requirements set out in the numerous Australian and International Standards. Some of the products within the Pyropanel range include:

- Fire Doors
 - Timber faced side hung fire doorsets for internal and external applications, available in a multitude of finishes and up to 4hrs of fire resistance
 - Steel faced or fully clad steel fire doors
 - Sliding fire doors
 - Double acting fire doors
 - Fully glazed timber fire doors
 - Fully glazed steel fire doors, side hung and sliding
- Acoustic Doors
 - Fire rated
 - Non fire rated models
- Life safety doors (tested and certified smoke doors):
 - Fire rated
 - Non fire rated
- Special purpose doors, such as,
 - RF resistant
 - Bullet resistant
 - Sub station doors
 - Custom doors
- Fire rated access panels
 - Wall
 - Floor
- Fire rated glazing
 - Insulated glass fire doors, side hung and sliding
 - Insulated fire windows
 - Non insulated fire windows
 - Timber framed fire windows
- Accessories
 - Fire rated grilles
 - Fire rated door seals
 - Fire rated door hardware
- Frames
 - Fire Rated Frames
 - Non fire rated frames
 - Euroseal profile frames
- Passive Products
 - Fire collars
 - Fire wraps
 - Fire rated mortar
 - Fire rated sealants
 - Fire pillows and snakes

Pyropanel is constantly reviewing and developing new products, so if you do not see a product that meets your specifications, please contact Pyropanel on the numbers listed below to see how we can assist with your requirements.

Master list of Tech Sheets The following list details the range of tech sheets, and shows the current edition of each sheet

Description	Tech Sheet	Edition date
Fire Doors		
Fire Rated Doorsets System Guide	System Guide	16-06-10
Timber Faced Side Hung Fire Door Leaves	FD-01	11-07-11
Steel Fire Door leaves	FD-02	11-07-11
Sliding Fire Doorsets	FD-03	30-11-11
Double Acting Fire Doors	FD-04	26-05-10
Glass Fire Doors - Timber	FD-05	03-08-10
Glass Fire Doors - Steel	FD-06	10-06-10
Fire rated doorsets with panel over and no transom	FD-07	11-06-10
Fire rated doorsets with panel over and with transom	FD-08	11-06-10
Fire rated glass sliding door	FD-09	01-12-06
FSC Certified fire and non fire rated leaves	FD-11	11-07-11
Smoke and Life Safety Doors		
Smoke and Life Safety Door System Guide	System Guide	02-08-11
LSD non fire rated, cold medium smoke	LSD-0-C/MS	02-08-11
LSD non fire rated, cold medium smoke, Euroseal door frame	LSD-0-C/MS/EU	02-08-11
LSD 30 minute fire rated, cold medium smoke	LSD-30-C/MS	02-08-11
LSD 30 minute fire rated, cold medium smoke, Euroseal door frame	LSD-30-C/MS/EU	02-08-11
LSD 30 minute fire rated, cold medium hot smoke	LSD-30-C/M/HS	02-08-11
LSD 30 minute fire rated, cold medium hot smoke, Euroseal door frame	LSD-30-C/M/HS/EU	02-08-11
LSD 60 minute fire rated, cold medium smoke	LSD-60-C/MS	02-08-11
LSD 60 minute fire rated, cold medium smoke, Euroseal door frame	LSD-60-C/MS/EU	02-08-11
LSD 60 minute fire rated, cold medium hot smoke	LSD-60-C/M/HS	02-08-11
LSD 60 minute fire rated, cold medium hot smoke Euroseal door frame	LSD-60-C/M/HS/EU	02-08-11

Continued over page

- Please refer to the Tech Sheet indicated for details on the particular door required.
- Please refer to the Pyropanel Website for the latest technical information.
- N/A indicates that this combination was not available at date of publication - please check with Pyropanel for latest approvals.
- If you do not find a product to suit your requirements, please contact Pyropanel Developments for the latest information on our comprehensive range of Passive Fire Protection Products.



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Description	Tech Sheet	Edition date
Acoustic Doors		
Acoustic Door System Guide	System Guide	30-07-10
27 Rw, single, typical 60 minute fire rated unit entry door, LSD approved	AS-27-PAN-E	30-07-10
28 Rw, single, typical 30 minute fire rated unit entry door, LSD approved	AS-28-PAN(i)	30-07-10
28 Rw, single, typical 60 minute fire rated unit entry door	AS-28-PAN(ii)	30-07-10
30 Rw, single, typical 60 minute fire rated unit entry door, LSD approved	AS-30-PAN-E	30-07-10
32 Rw, single, typical 60 minute fire rated unit entry door, LSD approved	AS-31-PAN	30-07-10
31 Rw, single, typical 2hr fire rated fire door with seals	AS-31-FRB	30-07-10
33 Rw, single, typical 2hr fire rated fire door with seals	AS-33-FRB	30-07-10
33 Rw, single, non fire rated acoustic door	AS-BLOCK-A	02-02-12
36, 34 Rw Single, non fire rated metal clad acoustic door	AS-PYROL-A	02-02-12
40 Rw, single, 2hr fire rated acoustic door with Ply faces	AS-40-FRB	30-07-10
45 Rw, single, non fire rate, heavy duty	AS-SPECIAL-A	02-02-12
46 Rw, single, two leaves in one frame, 60 min fire rated for apartment interconnecting doors	AS-46-INTERCON	30-07-10
47 Rw, single, non fire rated, heavy duty leaf	AS-SPECIAL-B	02-02-12
30 Rw, pair, non fire rated, typical unit entry doors	AP-30-PAN-E	30-07-10
31 Rw, pair, non fire rated, typical unit entry doors	AP-31-PAN	30-07-10
41 Rw, pair, non fire rated acoustic doors	AP-41-PYROL	30-07-10

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Description	Tech Sheet	Edition date
Special Purpose Doors		
Special Purpose Doors System Guide	System Guide	03-08-10
Bullet resistance doors	SP-BR01	01-11-05
RF resistant doors	SP-RF01	01-11-05
Substation doors	SP-SUB	22-11-11
Access Panels		
Access Panels System Guide	System Guide	03-05-11
One hour fire rated wall panels	PANEL-01	03-05-11
Two hour fire rated wall panels	PANEL-02	03-05-11
Four hour fire rated wall panels	PANEL-03	03-05-11
Lift shaft wall fire rated panels	PANEL-04	03-08-10
Plaster board fire rated ceiling panel	PANEL-05	03-08-10
Fire rated lift motor room hatch / floor panel	PANEL-06	03-08-10
Fire Rated Glazing		
Fire Rated Glazing System Guide	System Guide	27-03-07
-/60/- using Georgian wired glass in steel frame	FW-01	08-09-06
-/240/- using Pyroceram® glass in steel frame	FW-02	03-08-10
-/60/- using Pilkington Pyrodur in steel frame	FW-03	22-02-11
-/60/60 and -/60/30 using 27, 23 and 18mm Pilkington Pyrostop glass in insulated steel frame	FW-04	22-02-11
-/90/90 using 47mm Pilkington Pyrostop glass in insulated steel frame	FW-05	22-02-11
-/120/120 using 52 or 54mm Pilkington Pyrostop glass in insulated steel frame	FW-06	22-02-11
-/60/30 using 18mm Pilkington Pyrostop in Pyropanel fire rated timber frame	FW-07	22-02-11

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Description	Tech Sheet	Edition date
Accessories		
Accessories System Guide	System Guide	03-08-10
Fire rated air grille	ACC-01	03-08-10
Fire rated Pyropanel auto latch	ACC-02	03-08-10
PFS2004 Fire rated intumescent smoke/fire seal	ACC-03	03-08-10
Fire rated roller latch	ACC-04	03-08-10
Pyrosill seal	ACC-05	03-08-10
Euroseal smoke seal	ACC-06	03-07-07
Fire rated vision panels	ACC-07	03-08-10
Fire rated meeting stiles	ACC-08	08-09-06
Approved hardware list	ACC-09	03-08-10
Frames and building in details		
Frames and Building in details System Guide	System Guide	03-08-10
Building in gyprock walls	BUILD-01	07-06-10
Building in masonry walls	BUILD-02	07-06-10
Rectification of gaps	BUILD-03	03-02-11
Non fire rated frame profiles	FRAME-01	23-10-07
Fire rated frame profiles	FRAME-02	23-10-07
Euroseal frame profiles	FRAME-03	23-10-07
1hr Timber fire rated frame details	FRAME-04	04-10-11
1hr MDF fire rated frame details	FRAME-05	17-03-10
Upgrading non fire rated door frames	FRAME-06	03-08-10
2hr Timber fire rated frame details	FRAME-07	09-06-10

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Description	Tech Sheet	Edition date
Passive Products		
Passive Products System Guide	System Guide	19-07-10
(Collars and wraps)		
Cast in fire collar	PAS-01	23-10-07
Retrofit fire collar (multi-fit)	PAS-02	15-09-06
Retrofit fire collar (single-fit)	PAS-03	09-09-11
Pyrorap fire collar	PAS-04	27-03-07
Titan fire collar	PAS-05	23-10-07
GV fire collar	PAS-06	19-07-10
Intumex L for Armaflex	PAS-07	19-07-10
(Sealants and Mortar)		
Multiflex fire rated sealant	PAS-08	15-09-06
M4 fire rated mortar	PAS-09	15-01-08
(Fire Pillows and other systems)		
P4 fire pillows	PAS-11	15-09-06
PS fire pillows	PAS-12	23-10-07
Fire snake	PAS-13	19-07-10
Fire rated switch box	PAS-14	15-09-06

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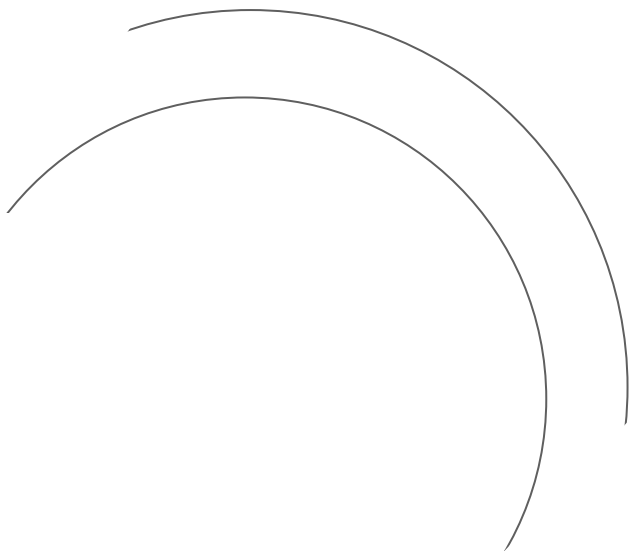
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Availability

All Pyropanel products are available throughout Australia and various other countries through a network of licensed manufacturers and distributors. For a current contact list, please contact Pyropanel Developments or visit our website at www.pyropanel.com.au.

[Pyropanel > Fire Doors > Smoke Doors > Life Safety Doors > Fire Rated Glazing > Passive Products > Special Purpose Doors](#)



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Fire Rated Doorsets System Guide



FIRE RATED DOORSETS SYSTEM GUIDE

Issue: 16-06-2010

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, Lorient & Hafele
- Tested and certified Acoustic Ratings from 27 - 46Rw



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FIRE RATED DOORSETS SYSTEM GUIDE

Issue: 16-06-2010

Selection Guide

Model	FRL	Leaf Thickness	Facing	Maximum Leaf size - Single (mm)	Maximum Leaf size - Pair (mm)	Tech Sheet
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Timber faced Side hung Fire Door Leaves

PFD030-38	-/30/30	38mm	Ply/MDF/Steel/other	2420 x 1020 or 2200 x 1120	N/A	FD-01
PFD030-48	-/30/30	48mm	Ply/MDF/Steel/other	3000 x 1500	3000 x 1500 / 1500	FD-01
PFD060-38	-/60/30	38mm	Ply/MDF/Steel/other	2350 x 1020	N/A	FD-01
PFD060-48	-/60/30	48mm	Ply/MDF/Steel/other	3000 x 1500	3000 x 1500 / 1500	FD-01
PFD120-38	-/120/30	38mm	Ply/Steel/other	2350 x 1020	N/A	FD-01
PFD120-48	-/120/30	48mm	Ply/Steel/other	3000 x 1500	3000 x 1350 / 1350	FD-01
PFD240-48	-/240/30	48mm	Ply/Steel/other	3000 x 1500	3000 x 1200 / 1200	FD-01

Steel Fire Door Leaves

PFDS030-38	-/30/30	38mm	Steel/other	2420 x 1020 or 2200 x 1120	N/A	FD-02
PFDS030-48	-/30/30	48mm	Steel/other	3000 x 1500	3000 x 1500 / 1500	FD-02
PFDS060-38	-/60/30	38mm	Steel/other	2350 x 1020	N/A	FD-02
PFDS060-48	-/60/30	48mm	Steel/other	3000 x 1500	3000 x 1500 / 1500	FD-02
PFDS120-38	-/120/30	38mm	Steel/other	2350 x 1020	N/A	FD-02
PFDS120-48	-/120/30	48mm	Steel/other	3000 x 1500	3000 x 1350 / 1350	FD-02
PFDS240-48	-/240/30	48mm	Steel/other	3000 x 1500	3000 x 1200 / 1200	FD-02

Sliding Fire doorsets

PSFD120-80	-/120/120	80mm	Steel / Ply over	5000(h) x 6000(w) [#]	5000(h) x 6000(w) [#]	FD-03
PSFD240-80	-/240/120	80mm	Steel / Ply over	5000(h) x 6000(w) [#]	5000(h) x 6000(w) [#]	FD-03

Double Acting Fire Doors

PDAFD060-48	-/60/30	48mm	Ply/Steel/other	2400 x 1200	2400 x 1100 / 1100	FD-04
PDAFD120-48	-/120/30	48mm	Ply/Steel/other	2400 x 1200	2400 x 1100 / 1100	FD-04

Glass Fire Doors

PG1FD060-52	-/60/30	52mm	Timber with 1/2 glass	2400 x 920 or 2100 x 1200	2400 x 920 or 2100 x 1200	FD-05
PG2FD060-54	-/60/30	54mm	Timber with full glass	2700 x 1050 or 2100 x 1200	N/A	FD-05
PGMFD060-65	-/60/30	65mm	Steel with full glass	2400 x 1200	2400 x 1200 / 1200	FD-06
PGSD30S or PGSD30P	-/30/-	65mm	Steel with full glass (sliding)	2700 x 1405	2700 x 1405 / 1405	FD-09

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FIRE RATED DOORSETS SYSTEM GUIDE

Selection Guide continued

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Model	FRL	Leaf Thickness	Facing	Maximum Leaf size - Single (mm)	Maximum Leaf size - Pair (mm)	Tech Sheet
Fire Door leaves with panel over and no transom						
FDPO-NT	-/120/30	48mm	Ply/MDF/Steel/other	3600 x 1200	NA	FD-07
Fire Door leaves with panel over with transom						
FDPO-WT-120-30	-/120/30	48mm	Ply/MDF/Steel/other	3600 x 1200	3600 x 1200 / 1200	FD-08
FDPO-WT-240-30	-/240/30	48mm	Ply/MDF/Steel/other	3350 x 1200	3350 x 1200 / 1200	FD-08
FSC certified fire and non-fire rated leaves						
PFDFSC-0-38	-/-/-	38	Ply/MDF/Steel/other	Any	Any	FD-11
PFDFSC-0-48	-/-/-	48	Ply/MDF/Steel/other	Any	Any	FD-11
PFDFSC-030-38	-/30/30	38	Ply/MDF/Steel/other	2420 x 1020 or 2200 x 1120	N/A	FD-11
PFDFSC-030-48	-/30/30	48	Ply/MDF/Steel/other	3000 x 1500	3000 x 1500 / 1500	FD-11
PFDFSC-060-38	-/60/30	38	Ply/Steel/other	2350 x 1020	N/A	FD-11
PFDFSC-060-48	-/60/30	48	Ply/Steel/other	3000 x 1500	3000 x 1500 / 1500	FD-11
PFDFSC-120-38	-/120/30	38	Ply/Steel/other	2350 x 1020	N/A	FD-11
PFDFSC-120-48	-/120/30	48	Ply/Steel/other	3000 x 1500	3000 x 1350 / 1350	FD-11
PFDFSC-240-48	-/240/30	48	Ply/Steel/other	3000 x 1500	3000 x 1200 / 1200	FD-11

Other Important Tech Sheets

Description	Section	Tech Sheet
Meeting stile details for pairs	Accessories	ACC-08
LP design detail	Fire Doors	TBA
Vision Panel detail	Accessories	ACC-07
Building in details for frames	Building-in Details	(Multiple)
Fire Rated Frame Profiles	Building-in Details	FRAME-02
Euroseal Fire Rated Frame Profile	Building-in Details	FRAME-03
Timber Fire Rated frame details	Building in Details	FRAME-04
MDF Fire Rated frame details	Building in Details	FRAME-05
Euroseal smoke seal details	Accessories	ACC-06
Fire Rated Grilles	Accessories	ACC-01
Auto latch for fire doors	Accessories	ACC-02
Intumescent door seals	Accessories	ACC-03
Roller latch for fire doors	Accessories	ACC-04
Approved hardware list	Accessories	ACC-09
Insulated and non insulated fixed side lites and windows	Fire Rated Glazing	(Multiple)

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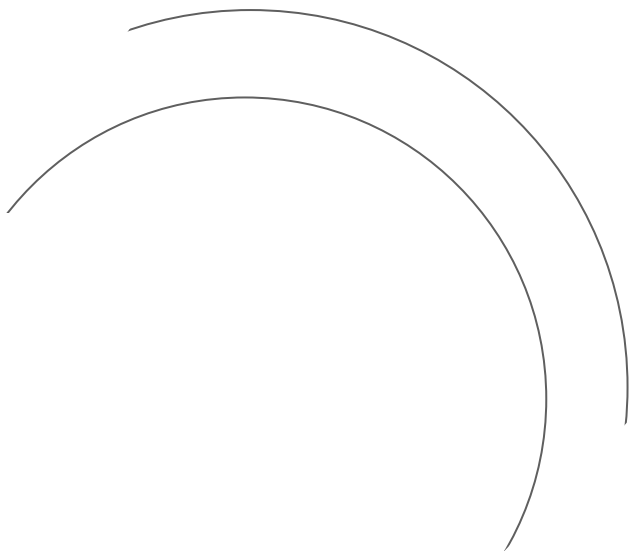
FIRE RATED DOORSETS SYSTEM GUIDE

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[Pyropanel > Fire Doors > Smoke Doors > Life Safety Doors > Fire Rated Glazing > Passive Products > Special Purpose Doors](#)



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FIRE DOOR LEAVES

Timber faced fire door leaves

30min, 1hr, 2hr, 4hr

TECH SHEET: FD-01

Issue: 11-07-11

**Timber Fire Door Leaves, side hung,
with optional facings and thicknesses**

DESCRIPTION

Timber fire door leaves utilising the latest Pyropanel fire resistant door core and design technology, these doors are fully tested and certified to AS1530.4 and AS1905.1, and are available in a variety of sizes and finishes in 30 minute, 1 hour, 2 hour and 4 hour fire resistance levels.

APPLICATIONS

Ideal for most applications that require a certified fire door set especially in residential complexes, hospitals, schools, public buildings etc.

FEATURES

- For use in 1hr and 2hr plasterboard stud walls, all fire rated masonry walls, gypsum block walls, aerated concrete blocks and wall panels, Insulboard panel walls, Rokcore and Paroc (refer Refer to Pyropanel if your wall type is not listed).
- Available in pairs or singles, and with panels over.
- 38mm and 48mm (nom) thickness - other thicknesses available on request.
- Approx weight
 - 48mm - 22kg/m².
 - 38mm - 19kg/m².
- 30 minute and 1 hour door leaves are of 'no metal' construction type, allowing for easy hanging and lock preparation (depending on leaf dimensions).
- Fully tested and certified up to -/240/30 FRL.
- Variety of meeting stiles for pair configurations.
- Suitable for Pyropanel Pressed Metal Door Frames or Pyropanel Fire Rated Timber Door Frames.
- Also suitable for modified non rated door frames - *contact Pyropanel for more information.*
- MDF facing up to one hour, Ply facing up to 4 hours.
- Edge Details:
 - 10mm timber concealed or exposed.
 - Steel channels or flats.
 - Aluminium anodised.
- Recommended hinge configuration:
 - up to 2040 x 920 = 3 hinges.
 - up to 2400 x 1020 = 4 hinges.
 - up to 3000 x 1500 = 5 hinges.

OPTIONAL EXTRAS

- Veneer, steel, aluminium, PVC, laminate, stone, glass, and routed and/or applied beading facings.
- Vision panels up to 300 x 200 or 600 x 100mm - (Glass fire doorsets up to -/60/30 in pairs and singles available - Refer to *Glass Fire Doors & Fire Rated Glazing*).
- Kick panels of stainless steel to selected height.
- Smoke seals, viewing lens, electric strikes and locks, panic bars, magnetic hold open devices, etc, are all optional hardware items - Refer to Pyropanel hardware tech sheet for the latest edition of the approved hardware, or contact Pyropanel for any items that are not listed.
- Pre-hung option available for all fire ratings.
- Panel over with or without transom (Refer transom panel Tech sheet for more information).
- Many other testing standards are approved - refer Pyropanel for more information.
- Also available as 2 hour rated double acting fire doorsets - Refer to *Pyropanel Double Acting fire door leaves*.
- Models up to 1 hour also available with certified smoke leakage data - Refer to *Pyropanel Life Safety Doors*.

MODELS AVAILABLE

Model	FRL	Thick-ness	Max Leaf size - Single	Max Leaf size - Pair
PFD030-38	-/30/30	38	2420 x 1020 or 2200 x 1120	N/A
PFD030-48	-/30/30	48	3000 x 1500	3000 x 1500/1500
PFD060-38	-/60/30	38	2350 x 1020	N/A
PFD060-48	-/60/30	48	3000 x 1500	3000 x 1500/1500
PFD120-38	-/120/30	38	2350 x 1020	N/A
PFD120-48	-/120/30	48	3000 x 1500	3000 x 1350/1350
PFD240-48	-/240/30	48	3000 x 1500	3000 x 1200/1200

HOW TO SPECIFY

"Eg. Door to be a Pyropanel PFD060-48 Fire Rated Door, 48mm thick, -/60/30 FRL, Ply face*, mounted in Pyropanel PMDF / Pyropanel Fire rated timber door frame*, with the following options: (eg, vision panels, kick panels, etc*),*

* denotes example - delete, change or specify as required.



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FIRE DOOR LEAVES

Steel fire door leaves

30min, 1hr, 2hr, 4hr

TECH SHEET: FD-02

Issue: 11-07-11

**Steel Fire Door Leaves, side hung,
with optional facings and thicknesses**

DESCRIPTION

Steel Fire door leaves utilising the latest Pyropanel fire resistant door core and design technology, these doors are fully tested and certified to AS1530.4 and AS1905.1, and are available in a variety of sizes and finishes in 30 minute, 1 hour, 2 hour and 4 hour fire resistance levels.

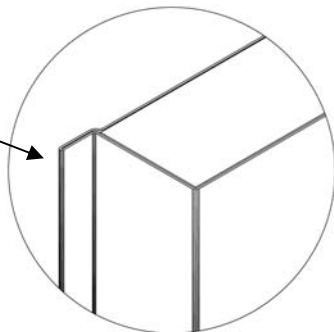
APPLICATIONS

Ideal for most applications that require a certified steel clad fire door set especially in hospitals, schools, public buildings, shopping centres, factories, warehouses, etc.

FEATURES

- Utilise the revolutionary 'LP' design door skin design on most models, which provides a smooth finish along both stiles of the door with an optional integrated security lip (refer LP design tech sheet for more information).
- 0.8mm (nominal) galvanised facings as standard (other thicknesses available).
- For use in plasterboard stud walls, fire rated masonry walls, Gypsum block walls, aerated concrete blocks and wall panels, Rokcore and Paroc. Refer to Pyropanel if your wall type is not listed.
- Available in pairs or singles, and with panels over.
- 38mm and 48mm (nom) thickness - other thicknesses available on request.
- Fully tested and certified up to -/240/30 FRL.
- Variety of meeting stiles for pair configurations.
- Suitable for Pyropanel Pressed Metal Door Frames.
- Edge detail: flush finish 'LP' design or channel capped.
- Recommended hinge configuration:
 - up to 2040 x 920 = 3 hinges
 - up to 2400 x 1020 = 4 hinges
 - up to 3000 x 1500 = 5 hinges
 - continuous (piano) hinges available

Optional Integrated Security Lip on LP design door skin



OPTIONAL EXTRAS

- Stainless Steel facing.
- Channel and applied steel facing design available for larger sizes than listed below.
- Vision panels up to 300 x 200 or 600 x 100mm.
- Smoke seals, viewing lens, electric strikes and locks, panic bars, magnetic hold open devices, etc, are all optional hardware items - Refer to Pyropanel hardware tech sheet for the latest edition of the approved hardware, or contact Pyropanel for any items that are not listed.
- Pre-hung option available for all fire ratings.
- Panel over with transom (Refer *Transom panel Tech sheet* for more information).
- Many other international testing standards are approved - refer Pyropanel for more information.
- Bullet resistance (Refer to *Pyropanel Special Purpose Doors*).
- Steel Acoustic doors are available (Refer to *Pyropanel Acoustic Doors*).

MODELS AVAILABLE

Model	FRL	Thick ness	Max Leaf size - Single	Max Leaf size - Pair
PFDS030-38	-/30/30	38	2420 x 1020 or 2200 x 1120	N/A
PFDS030-48	-/30/30	48	3000 x 1500	3000 x 1500/1500
PFDS060-38	-/60/30	38	2350 x 1020	N/A
PFDS060-48	-/60/30	48	3000 x 1500	3000 x 1500/1500
PFDS120-38	-/120/30	38	2350 x 1020	N/A
PFDS120-48	-/120/30	48	3000 x 1500	3000 x 1350/1350
PFDS240-48	-/240/30	48	3000 x 1500	3000 x 1200/1200

HOW TO SPECIFY

"Eg, Door to be a Pyropanel PFDS060-48* Steel Fire Rated Door, 48mm thick, -/60/30 FRL, Zinc plated*, mounted in Pyropanel PMDF door frame*, with the following options: (eg, vision panels, kick panels, etc*),

* denotes example - delete or change or specify as required



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FIRE DOOR LEAVES

Sliding fire doors 4 hr

TECH SHEET: FD-03

Issue: 30-11-2011

Sliding Fire Doorsets, with optional facings and thicknesses

Page 1 of 3

DESCRIPTION

Sliding Fire doorsets consisting of door leaf, and associated track and counterweights with steel facings, available in 4 hours of certified fire resistance.

APPLICATIONS

Ideal for applications that require a certified sliding fire door especially in hospitals, schools, public buildings, shopping centres, factories, warehouses, etc.

FEATURES

- Protection of openings in up to 4hr Concrete/Masonry walls.
- Facing - 1.0mm zincanneal sheet steel as standard, alternative of 4mm decorative fire retardant chemical treated plywood available.
- All doors have steel channels to protect edge of door leaves.
- Available in singles, two part, or bi-parting.
- Maximum size: Refer to Table *Models Available* on Page 3.
- Low weight to rating ratio - approx weight:
 - 80mm steel clad - 55kg/m²
- Can be manufactured in sections and assembled on site for easier transport and handling.
- Strong inner metal frame construction ensures long service life.
- Excellent insulation and sound reducing properties.

TRACK CONFIGURATIONS

- Henderson 305 for doors up to 700kg per leaf.
- Henderson 307 for doors up to 2000kg per leaf.

DETAILS

- All sliding fire doors must overlap top and both sides of opening by 75mm.
- Wall surfaces along the travel should be level with a maximum recommended tolerance of 5mm.
- Maximum clearance between door and floor should be 10mm.
- Ensure no wall obstructions along the distance of travel.
- Allow 250mm clear wall area for counter-weight case.

OPERATING SYSTEM

- **Fusible Link System:** Door is opened and closed manually. In case of fire the door closes automatically from any given position.
- **Pyropanel Electric System (BCA Kit):** Door is opened manually and will be held open by an electromagnet when the building is in use. Door is released to close using a release switch. In case of fire the door is released (closed) by a smoke/heat detectors.

(Note: Purchaser should specify one of the above system. Please contact Licensed distributor for more info)

STANDARD HARDWARE

- Track and brackets for wall mounting.
- 2 hangers per leaf
- Channel Section floor guide.
- Fusible link activated closing on wire rope and pulley system.
- Counterweight system allowing free-flow operation.
- Flush mounted door pulls.
- Galvanised steel wall mounted door binders to leading edge.
- Indicator arrow on both faces to indicate open direction.
- Standard specification excludes electromagnetic hold open device, smoke detectors, warning signs, battery back up and sirens, as typically required by BCA clause C3.6.
- *Purchaser should always confirm with agent to confirm specific hardware inclusions and exclusions.*

OPTIONAL EXTRAS

- Stainless Steel, Timber or Aluminium cladding.
- Vision panels (Standard size - 600 x 100mm or 300 x 200mm).
- Wicket (access) door up to 1830 x 750, located 300mm from bottom of slider (note: Wicket door is an access door only, and should not be used for emergency access).
- Speed control device.

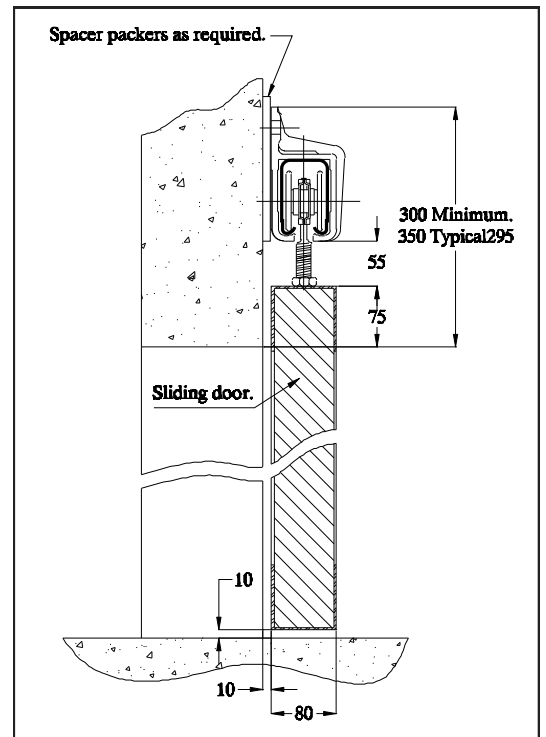
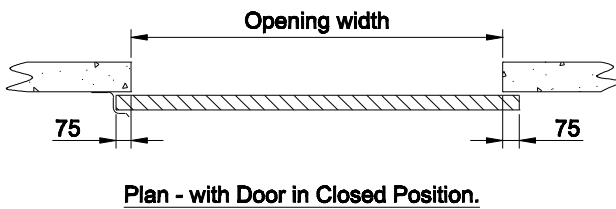
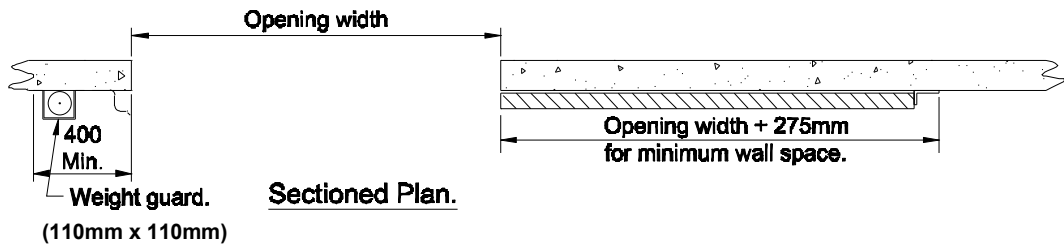
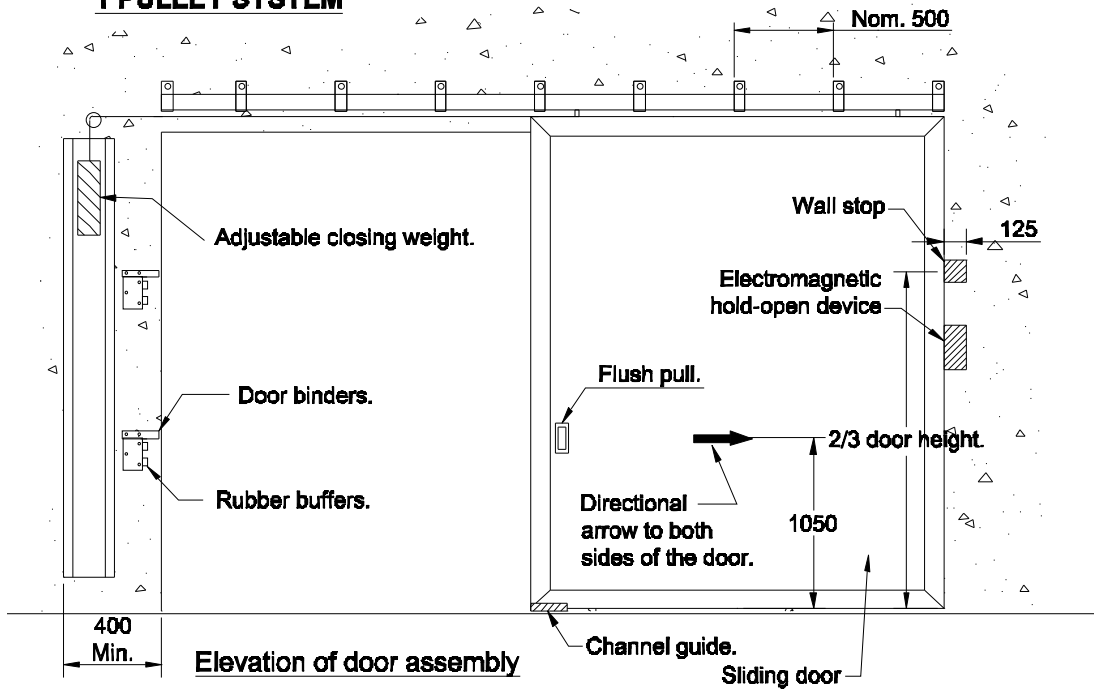


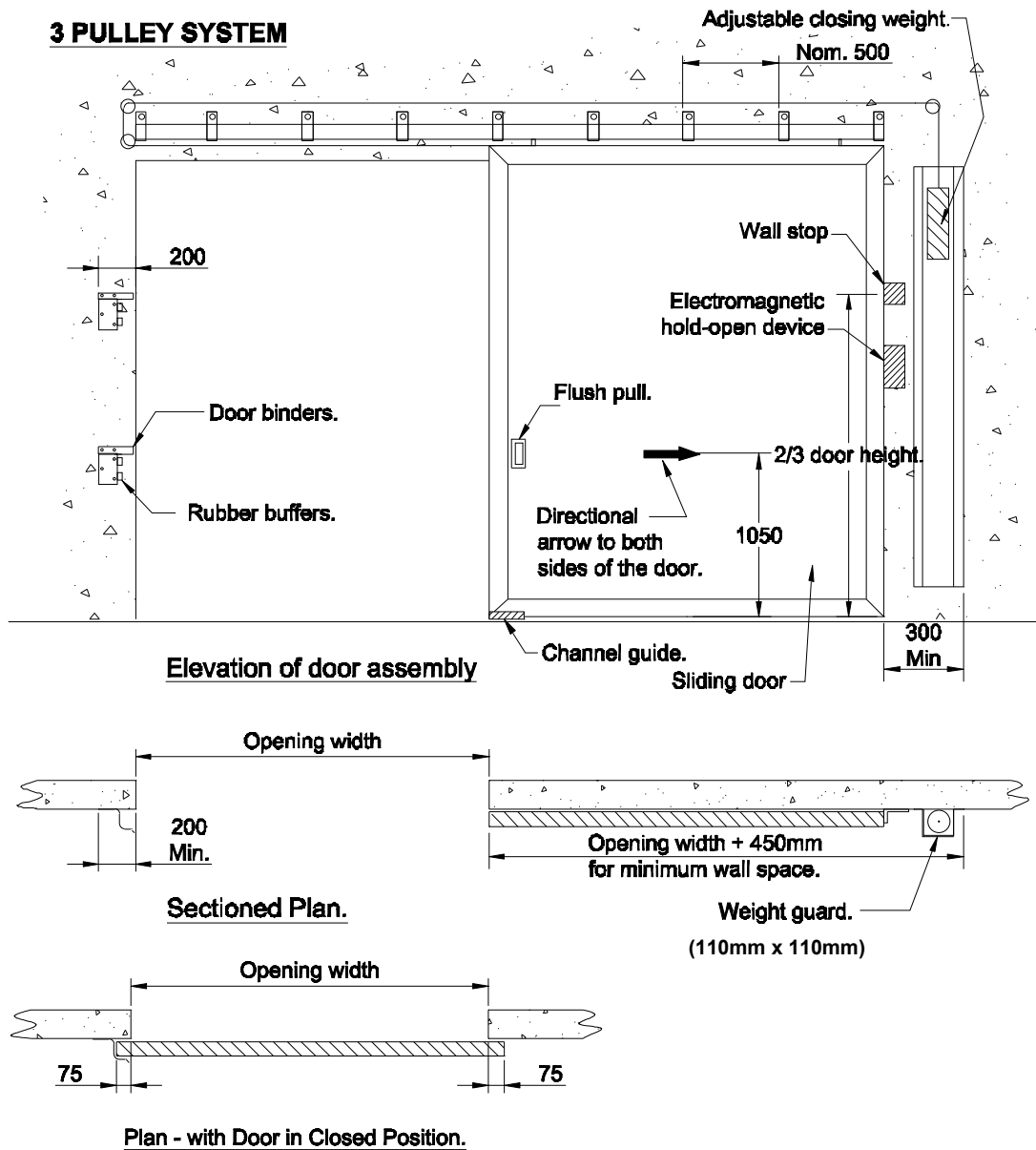
Protecting Life & Property

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1 PULLEY SYSTEM





MODELS AVAILABLE

Model	FRL	Thick ness (mm)	Max Leaf size - Single (mm)	Max Leaf size - Pair (mm)
PSFD120-80	-/120/120	80	5000(h) x 6000(w) [#]	5000(h) x 6000(w) [#]
PSFD240-80	-/240/120	80	5000(h) x 6000(w) [#]	5000(h) x 6000(w) [#]

HOW TO SPECIFY

Eg, "Door to be a Pyropanel PSFD120-80 Metal clad Sliding Fire Rated Door, 80mm thick, -/120/30 FRL, Fusible link system*, Zinc plated*, including track, fittings, fusible link and counterweight closing system*, with the following options: (eg, vision panels, kick panels, wicket door, etc*)

* denotes example - delete or change or specify as required

[#] Max height 5m, Width can be increased provided the area of the door leaf does not exceed 30m².



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FIRE DOOR LEAVES

Double acting fire door leaves

1hr & 2hr

TECH SHEET: FD-04

Issue: 26-05-2010

Double acting Timber Fire Door Leaves, one and two hour fire rated

DESCRIPTION

Timber Fire door leaves utilising the latest Pyropanel fire resistant door core and design technology, these doors are fully tested and certified to AS1530.4 and AS1905.1, and have the benefit of a double action swinging mechanism.

APPLICATIONS

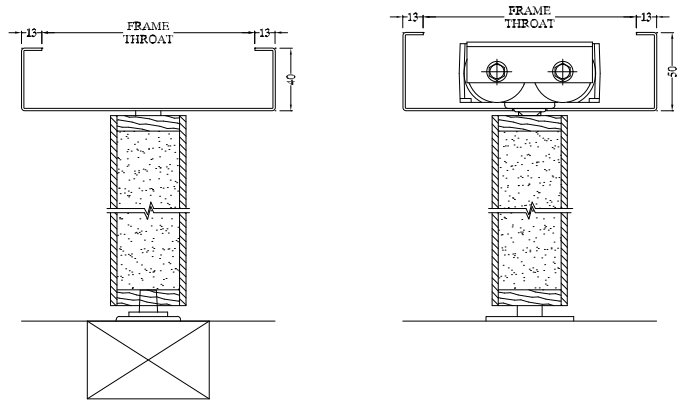
Ideal for heavy traffic areas where two way swing is an important function, and where fire resistance of up to 2 hours is required. Typical installations include hospitals, public buildings, corridors, nursing homes, schools, etc.

FEATURES

- For use in 1hr and 2hr plasterboard stud walls, fire rated masonry walls, gypsum block walls, aerated concrete blocks and wall panels. Refer to Pyropanel if your wall type is not listed.
- Available in pairs or singles.
- 48mm (nom) thickness.
- Approx weight (ply wood faced): 22kg/m².
- Fully tested and certified up to -/120/30 FRL.
- Special meeting stiles incorporating extruded aluminium section with integrated intumescent smoke seals.
- Suitable for Pyropanel Pressed Metal Door Frames designed specifically for double acting doors, available in flat faced or concave (please specify desired finish)
- Ply faces.
- Can be fitted with either floor springs or transom (overhead) closers.

OPTIONAL EXTRAS

- Veneer, steel, aluminium, PVC or laminate facings
- Vision panels up to 300 x 200 or 600 x 100.
- Kick Panels of Stainless Steel, Acrovyn, Kydex, etc, to selected height
- Other testing standards are approved - refer Pyropanel for more information.
- Smoke seals are not approved for head of door.



Typical head and floor section detail.

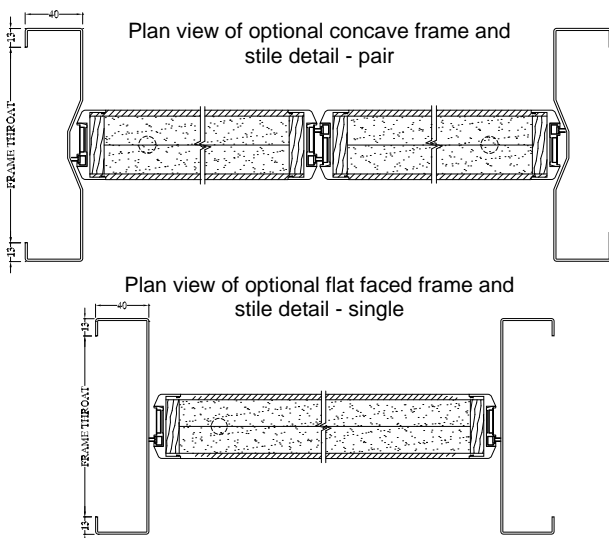
MODELS AVAILABLE

Model	FRL	Thick-ness	Max Leaf size - Single	Max Leaf size - Pair
PDAFD060-48	-/60/30	48	2400 x 1200	2400 x 1200/1200
PDAFD120-48	-/120/30	48	2400 x 1200	2400 x 1200/1200

HOW TO SPECIFY

EG, "Door to be a Pyropanel PDAFD060-48 Double Acting Fire Rated Door, 48mm thick, -/60/30 FRL, Ply face*, mounted in special Pyropanel Pressed Metal Door Frame with flat* / concave* finish, with the following options: (eg, vision panels, kick panels, etc*).

* denotes example - delete or change or specify as required



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FIRE DOOR LEAVES

Timber glass fire doors

TECH SHEET: FD-05

Issue: 03-08-2010

Glass fire doors with timber edges, available in half and full lites, singles & pairs, -/60/30.

DESCRIPTION

Glass and Timber Fire door leaves utilising the latest Pyropanel fire resistant door core and design technology combined with Pilkington insulating glass, these doors are fully tested and certified to AS1530.4 and AS1905.1, and are available in a variety of sizes and finishes for 1 hour fire resistance levels.

APPLICATIONS

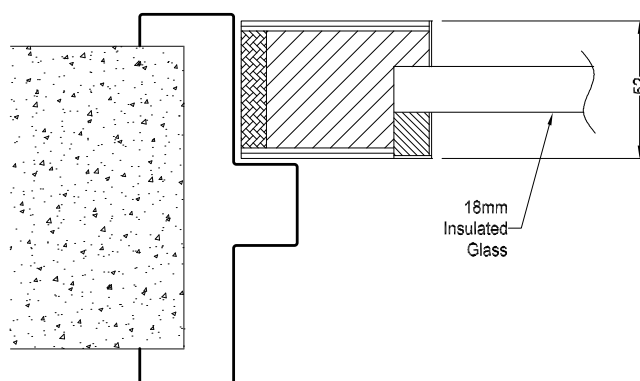
Ideal for most applications that require a certified fire door with the added safety and benefits of fire resistant glass, especially in hospitals, schools, car parks, shopping centres, offices, residential complexes, public buildings etc.

FEATURES

- Fully tested and certified for -/60/30 FRL.
- 1/2 lite or full lite configurations with std designs available
- For use in plasterboard stud walls & Masonry walls Refer to Pyropanel if your wall type is not listed.
- Paint grade Ply facings as standard.
- 1/2 lite available in pairs, full lite in singles only.
- Incorporates 18mm Pilkington Pyrostop™ Fire rated glass with A-class impact resistance.
- Suitable for Pyropanel Pressed Metal Door Frames with 25mm doorstop, or Pyropanel one hour Fire Rated Timber Door Frame with 20mm doorstop.
- Doors weigh approx 35kg/m² (1/2 lite) and 45kg/m² (full lite) .

OPTIONAL EXTRAS

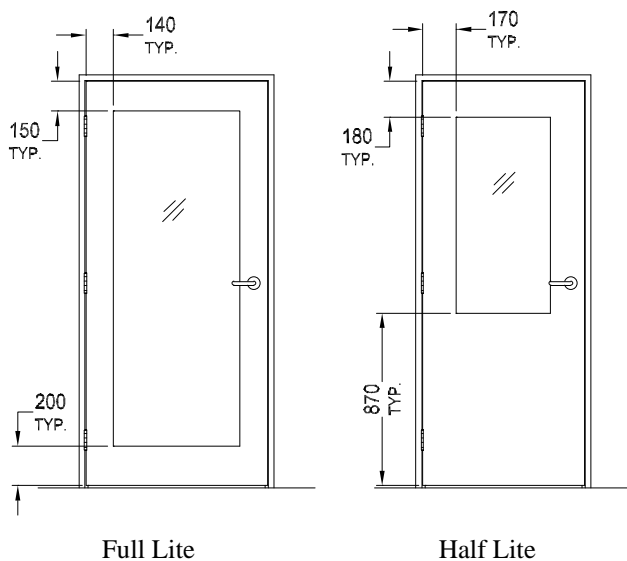
- MDF or Ply facings
- Different glass shapes available for 1/2 lite door (Contact Pyropanel for more info)
- Pre-hung option available.
- Pairs available – For fully glazed pair doors, refer *Pyropanel Steel Glass Fire Doors.*



MODELS AVAILABLE

Model	FRL	Thickness	Max Leaf size - Single	Max Leaf size - Pairs	Max Glass panel
PG1FD060-52	-/60/30	52	2400 x 920*	2400 x 920*	Half
PG2FD060-54	-/60/30	54	2700 x 1050*	N/A	Full

* Also available as 2100 x 1200



HOW TO SPECIFY

Eg, "Door to be a Pyropanel PG2FD060-54* Full -Lite Glass Fire Door, 54mm thick, tested and certified -/60/30 FRL, Ply face*, mounted in Pyropanel PMDF / Pyropanel Fire rated timber door frame*.

* denotes example - delete or change or specify as required



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FIRE DOOR LEAVES

Metal glass fire doors

TECH SHEET: FD-06

Issue: 10-06-2010

Glass fire doors incorporating the Forster metal framing system, -/60/30 FRL, available in singles and pairs.

DESCRIPTION

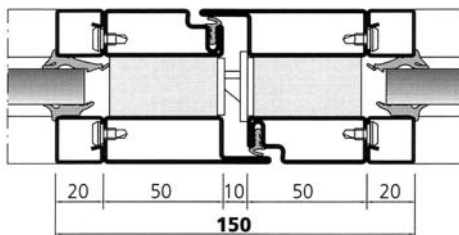
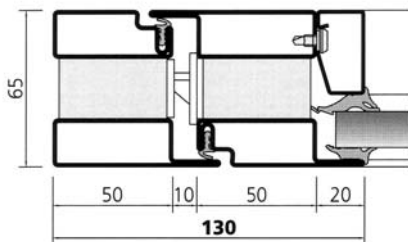
Fully glazed fire door incorporating the Forster insulated steel framing system, door frame and associated hardware, available in single and pair combinations with insulated top and side lites optional.

APPLICATIONS

Ideal for most applications that require a 1 hour certified fire door with the benefits and safety of transparent fire rated glazing, especially for fire escapes in residential complexes, hospitals, schools, car parks, shopping centres, shops, computer rooms, offices, public buildings, luxury residential high rise developments, etc.

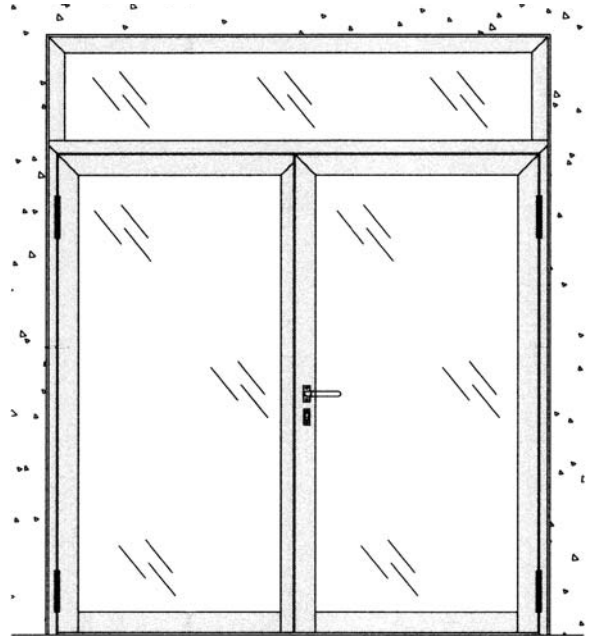
FEATURES

- Fully certified to Australian Standards.
- -/60/30 FRL in single and pairs configurations.
- For use in 1 hr and 2 hr plasterboard stud walls, fire rated masonry walls, gypsum block walls, aerated concrete blocks and wall panels. *Refer to Pyropanel if your wall type is not listed.*
- 65mm x 70mm slim line profile.
- Incorporates 18mm Pilkington Pyrostop Fire rated glass with A-class impact resistance.
- Comes standard with twin perimeter smoke seals and optional bottom drop seal.
- Insulated steel door frame included.
- Variety of stainless steel handles and hardware available.
- Leaves weigh approx 55kg/m².



OPTIONAL EXTRAS

- Powder coating
- Stainless steel frame.
- -/60/-, -/30/30 and -/60/60 and ratings also available for pairs and single configurations.
- Integrated top and side lites in fire ratings including -/30/-, -/60/-, -/60/30, -/60/60, -/90/90, and -/120/120 using an integrated insulated steel framing system are also available.
- Certified smoke leakage data is available - *Refer to Pyropanel for more information.*



MODELS AVAILABLE

Model	FRL	Thick-ness	Max Leaf size - Single	Max Leaf size - Pair
PGMFD060-65	-/60/30	65mm	2400 x 1200	2400 x 1200/1200

HOW TO SPECIFY

Eg, "Door to be a Pyropanel PGMFD060-65 Metal edged Glass Fire Rated Door, 65mm thick profile, -/60/30 FRL, incorporating 18mm Pilkington Pyrostop fire rated glass, mounted in integrated 65mm Fire rated door frame, prime paint / powdercoat / stainless steel* finish, incorporating certified Dorma Closer and sequence selector, and approved door hardware as required."

* denotes example - delete or change or specify as required



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FIRE DOOR LEAVES

Fire door with panel over (no transom)

TECH SHEET: FD-07

Issue: 11-06-2010

Fire doorsets and panel over with no separating transom, single leaves only, up to 2 hours fire rating

DESCRIPTION

Timber fire door leaves and panel over with no separating transom utilising the latest Pyropanel fire resistant door core and design technology. These doorsets are fully tested and certified to AS1530.4 and AS1905.1, and are available in a variety of sizes and finishes in 30 minute, 1 hour, and 2 hour fire resistance levels.

APPLICATIONS

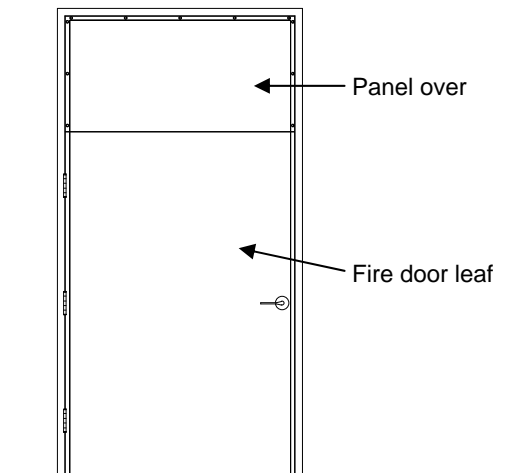
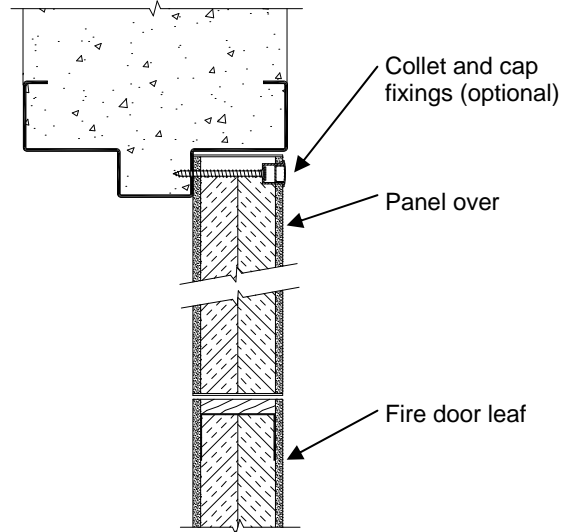
Ideal for applications that require a certified fire door and a panel over without a separating transom. Typically found in office lobbies, hospitals, schools, public buildings, shopping centres, factories, warehouses, plant rooms, etc.

FEATURES

- Single leaf configurations only.
- Door and panel are 48mm thick.
- Pressed metal door frames only.
- Ply facs.
- Panel is screw fixed, with optional collet and cap fixings.
- Maximum overall size, including door leaf and panel:
 - 3600 high x 1200 wide
- (refer to Pyropanel FD-01 **Timber fire door leaves tech sheet** for more details and features on fire door leaves)

OPTIONAL EXTRAS

- Steel, aluminium, PVC & Laminate.
- Vision panels up to 300 x 200 or 600 x 100mm for fire door using clear fire rated glass
- Kick panels of stainless steel to selected height.
- Smoke seals, viewing lens, electric strikes and locks, panic bars, magnetic hold open devices, etc, are all optional hardware items - Refer to Pyropanel hardware tech sheet for the latest edition of the approved hardware, or contact Pyropanel for any items that are not listed.



MODELS AVAILABLE

Model	Description	Max FRL	Thick-ness	Max overall size (leaf and panel)
FDPO-NT	Panel over with no transom	-/120/30	48	3600 x 1200

HOW TO SPECIFY

"Door to be a (eg) Pyropanel PFD060-48* Fire Rated Door, 48mm thick, -/60/30 FRL, Ply face*, mounted in Pyropanel PMDF / Pyropanel Fire rated steel door frame with a Pyropanel **FDPO-NT (FIRE DOOR PANEL OVER WITH NO TRANSOM)**, and the following options: (eg, vision panels, kick panels, etc*),

* denotes example - delete, change or specify as required.



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Distributed by:

FIRE DOOR LEAVES

Fire door and panel over (with transom)

TECH SHEET: FD-08

Issue: 11-06-2010

Fire doorsets and panel over with separating transom for singles and pairs, up to 4 hours fire rating

DESCRIPTION

Timber fire door leaves and panel over including separating transom utilising the latest Pyropanel fire resistant door core and design technology. These doorsets are fully tested and certified to AS1530.4 and AS1905.1, and are available in a variety of sizes and finishes in 30 minute, 1 hour, 2 hour and 4 hour fire resistance levels.

APPLICATIONS

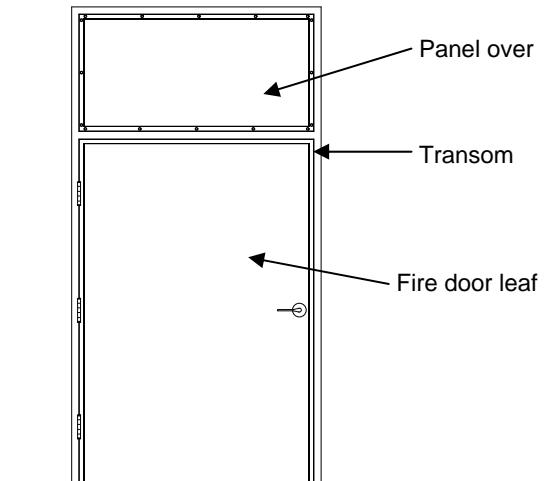
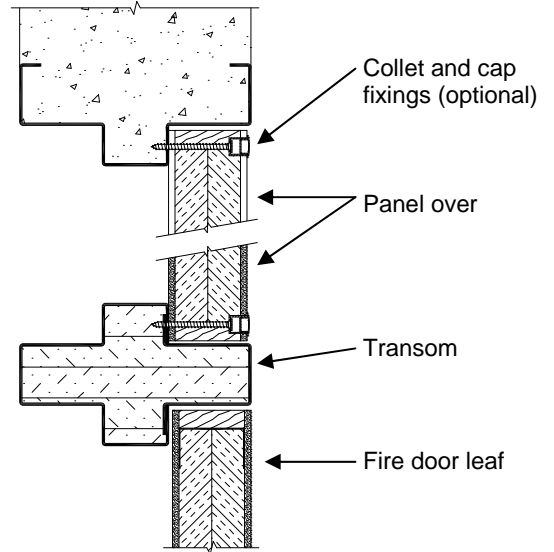
Ideal for applications that require a certified fire door and a panel over with a separating transom. Typically found in office lobbies, hospitals, schools, public buildings, shopping centres, factories, warehouses, plant rooms, etc.

FEATURES

- Panel available over single and pair fire door leaf configurations (note: panel over pair doors is a single panel only)
- Door and panel are 48mm thick.
- Pressed metal door frames only.
- Ply faces.
- Panel is screw fixed, with optional collet and cap fixings.

OPTIONAL EXTRAS

- Veneer, steel, aluminium, PVC, laminate.
- Vision panels up to 300 x 200 or 600 x 100mm for fire door using clear fire rated glass.
- Kick panels of stainless steel to selected height.
- Smoke seals, viewing lens, electric strikes and locks, panic bars, magnetic hold open devices, etc, are all optional hardware items - Refer to Pyropanel hardware tech sheet for the latest edition of the approved hardware, or contact Pyropanel for any items that are not listed.



MODELS AVAILABLE

Model	Description	Max FRL	Thick-ness	Max overall size (leaf and panel)
FDPO-WT-120-30	Panel over with transom	-/120/30	48	3600 x 1200 /1200
FDPO-WT-240-30	Panel over with transom	-/240/30	48	3350 x 1200 /1200

HOW TO SPECIFY

"Door to be a (eg) Pyropanel PFD060-48* Fire Rated Door, 48mm thick, -/60/30 FRL, Ply face*, mounted in Pyropanel PMDF / Pyropanel Fire rated steel door frame with a Pyropanel **FDPO-WT-120-30 (FIRE DOOR PANEL OVER WITH TRANSOM)**, and the following options: (eg, vision panels, kick panels, etc*),

* denotes example - delete, change or specify as required.



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FIRE DOOR LEAVES

Glass sliding fire doors

TECH SHEET: FD-09

Issue: 01-12-06

Automatic glass sliding fire door incorporating Pyropanel-Forster metal framing system, -/30/- FRL.

DESCRIPTION

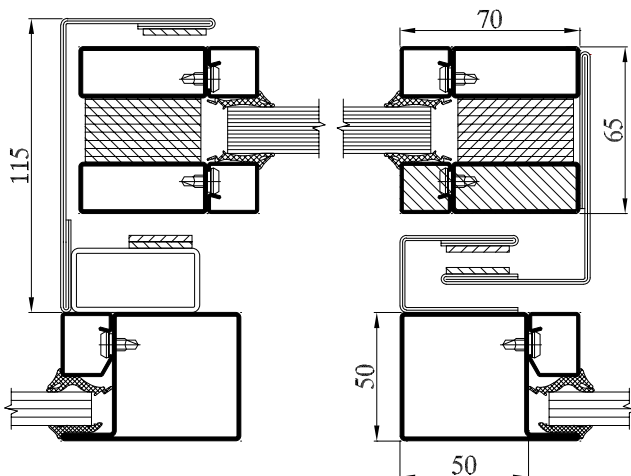
Fully glazed automatic sliding fire door available as single or bi-parting configurations, incorporating the Pyropanel-Forster insulated steel framing system, Pilkington Pyrostop intumescent fire rated glass, and a Kaba fire rated door operator.

APPLICATIONS

Ideal for applications that require an automatic glass sliding fire door, but which also require the protection of a fully certified fire door. Especially suitable for in residential complexes, hospitals, schools, shopping centres, shops, offices, public buildings, luxury residential high rise developments, etc.

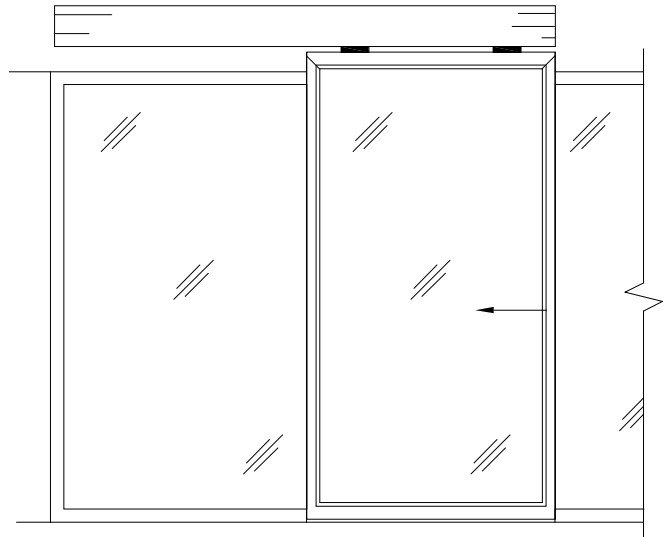
FEATURES

- Fully certified to Australian Standards.
- -/30/- FRL.
- Suitable for use in most wall types, including the Pyropanel -/60/- glass wall system which uses Pyropanel-Forster steel framing system and Pilkington Pyrodur fire rated glazing.
- 65mm x 70mm slim line profile.
- Extra large doors available.
- Incorporates 18mm Pilkington Pyrostop Fire rated glass with A-class impact resistance.
- Comes standard with intumescent perimeter smoke / fire seals.
- Single and bi-parting leaf configurations.
- Leaves weigh approx 55kg/m².
- Utilises the KABA Gilgen KGSSLMVSB door mechanism.



OPTIONAL EXTRAS

- Powder coating.
- Stainless steel frame.
- -/60/- or -/30/- surrounding side lites.
- Opaque film and decals to glass.



Typical layout of -/30/- single fire rated glass sliding door with -/60/- side lites

MODELS AVAILABLE

Model	FRL	Thick-ness	Max Leaf size - Single	Max Leaf size - Pair
PGSD30S	-/30/-	65mm	2700mm high x 1405mm wide	NA
PGSD30P	-/30/-	65mm	N/A	2700mm high x 1400mm / 1400mm wide

HOW TO SPECIFY

Eg, "Door to be a Pyropanel PGSD30S fully glazed single automatic glass sliding fire door, 65mm thick profile, -/30/- FRL, incorporating 18mm Pilkington Pyrostop fire rated glass, complete with flame guards, prime painted/ powdercoat / stainless steel* finish, incorporating a Kaba KGSSLMVSB certified fire rated operating mechanism, etc"

* denotes example - delete or change or specify as required



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FIRE DOOR LEAVES

FSC certified fire and non-fire rated leaves

TECH SHEET: FD-11

Issue: 11-07-2011

FSC approved door leaves suitable for "Greenstar" buildings requiring non-fire rated, or fire rated doors up to -/240/30

DESCRIPTION

Pyropanel FSC (Forest Stewardship Council) non rated and fire rated doors are FSC accredited, and meet the requirements for "Greenstar" projects and any other project that requires timber products to be sourced from Forest Stewardship Council certified timber.

APPLICATIONS

Any project requiring non fire rated or fire rated doors up to -/240/30, where a requirement also exists for the doors to be FSC certified, or be sourced from Forest Stewardship Council certified timber, including residential complexes, hospitals, schools, public buildings etc.

FEATURES

- Forest Stewardship Council Chain of Custody certified
- Fully tested and certified up to -/240/30 FRL
- Non fire rated models available
- Some models LSD (Life Safety Door) approved
- MDF facing up to one hour, steel and Ply facing up to 4 hours.
- Available in pairs or singles, and panel over
- 30 minute and 1 hour door leaves are of 'no metal' construction type, allowing for easy hanging and lock preparation (depending on leaf dimensions).
- Variety of meeting stiles for pair configurations.
- Suitable for Pyropanel Pressed Metal Door Frames or Pyropanel one hour Fire Rated FSC Timber Door Frame.
- Also suitable for modified non rated door frames - *contact Pyropanel for more information.*
- Split frame or standard one piece frame options.
- Optional intumescent hot smokes seals available
- Recommended hinge configuration:
 - up to 2040 x 920 = 3 hinges.
 - up to 2400 x 1020 = 4 hinges.
 - up to 3000 x 1500 = 5 hinges.

OPTIONAL EXTRAS

- Veneer, steel, aluminium, PVC, laminate, routed and/or applied beading facings.
- Vision panels up to 65,000mm², or 1/2 lite glazed panels (*Refer Glass Fire Doors*)
- Kick panels of steel or stainless steel to selected height.

OPTIONAL EXTRAS CON'T

- Smoke seals, viewing lens, electric strikes and locks, panic bars, magnetic hold open devices, etc, are all optional hardware items - Refer to Pyropanel hardware tech sheet for the latest edition of the approved hardware, or contact Pyropanel for any items that are not listed.
- Fire rated top and side-lites available.
- Pre-hung option available for all fire ratings.
- Panel over with or without transom (Refer transom panel Tech sheet for more information).
- Many other testing standards are approved - refer Pyropanel for more information.
- Also available as 2 hour rated double acting fire doorsets - Refer to *Pyropanel Double Acting fire door leaves.*

MODELS AVAILABLE

Model	FRL	Thick-ness	Max Leaf size - Single	Max Leaf size - Pair
PFD-FSC-0-38	-/-/-	38	Any	Any
PFD-FSC-0-48	-/-/-	48	Any	Any
PFD-FSC-030-38	-/30/30	38	2420 x 1020 or 2200 x 1120	N/A
PFD-FSC-030-48	-/30/30	48	3000 x 1500	3000 x 1500/1500
PFD-FSC-060-38	-/60/30	38	2350 x 1020	N/A
PFD-FSC-060-48	-/60/30	48	3000 x 1500	3000 x 1500/1500
PFD-FSC-120-38	-/120/30	38	2350 x 1020	N/A
PFD-FSC-120-48	-/120/30	48	3000 x 1500	3000 x 1350/1350
PFD-FSC-240-48	-/240/30	48	3000 x 1500	3000 x 1200/1200

HOW TO SPECIFY

"Eg. Door to be a Pyropanel PFD-FSC-060-48 Forest Stewardship Council certified Fire Rated Door, 48mm* thick, -/60/30 FRL*, Ply/MDF/Steel* face, mounted in Pyropanel PMDF / Pyropanel FSC Fire rated timber door frame*, with the following options: (eg, vision panels, kick panels, etc*),*

** denotes example - delete, change or specify as required.*



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Smoke & Life Safety Doors System Guide



Smoke Doors & Life Safety Doors

'Life Safety Door' (LSD) is the industry wide terminology used to describe a door that has been tested and certified under Australian Standards AS1530.7 for smoke leakage. The term is used to differentiate these doors from traditional 'smoke doors' that have not been tested for smoke leakage. Most Life Safety Doors have also been tested for fire resistance under Australian Standards AS1530.4 and AS/NZ1905.1, and so will also have a certified FRL. Additionally, Pyropanel Life Safety doors have been tested for acoustic performance, and most will satisfy the requirements of Part F5.5 of the BCA.

Because there is currently no performance requirement in the Building Code of Australia for smoke doors, most Pyropanel fire and non fire rated doors will meet the requirements of the BCA Specification C3.4 when fitted with smoke seals. Simply specifying the door as a "Pyropanel Smoke Door" will ensure compliance with the BCA.

Why develop a Life Safety Door?

For some time now, Fire Engineers and other specifiers have been looking for new and innovative ways to make a building 'Life Safe'. The Australian building code encourages the consideration of all protective elements in the design of a building, and this has led to the use of smoke seals in conjunction with fire rated and solid core doors to provide protection against fire and smoke.

However, unless the door and seal combination is actually tested to Australian Standards for smoke leakage, the actual level of smoke leakage remains unknown. Under medium heat conditions (AS1530.7), doors can bend away from smoke seals to the degree that they will provide little or even no protection from smoke. Only a tested and certified Life Safety Door will provide known protection from smoke and fire.

Comparison with Solid Core doors

A more recent development within performance based building design has been the inclusion of 'solid core doors' with or without smoke seals in applications that usually require a certified fire resistant door. But what is a 'solid core door'? There is no Australian standard to describe what constitutes a 'solid core door'. Solid core doors are not tested under Australian Standards for either fire resistance, smoke resistance, or acoustic performance, and are not certified to provide any guaranteed resistance to either fire, smoke or sound, even with seals.

Although solid core doors are assumed to provide at least 20mins of fire protection, recent test evidence shows that solid core doors can actually achieve less than 5 minutes of fire protection when exposed to the heating regime of AS1530.4, and will bend away from smoke seals in medium temperature situations, providing no resistance to the effects of smoke.

Pyropanel Life Safety Doors provide **tested and certified** resistance to Smoke, Fire, and Sound, and if fire resistance is truly not needed, will actually cost the same or less than a solid core door with seals.

Cost

Until recently, it was perceived that there was a significant cost difference between a widely variable, non tested, non certified "Solid Core Door" with seals, and a fully tested Fire rated door with seals. With the development of new technology and materials, the cost difference is now such that there is no effective saving gained by introducing a "solid core door" over a traditional Fire Rated door, when the costs associated with additional fire safety equipment (such as a sprinkler head) are also considered.

A non fire rated -/- Pyropanel LSD will cost the same or even less than a Solid Core Door with seals, yet provides certified smoke resistance and acoustic performance, as well as the same Fire Resistance as a Solid Core Door.

A 30 minute -/30/30 FRL Pyropanel LSD complete with leaf, frame, seals, hardware and installation will cost as little as 7% more than a Solid Core Door with seals, while a 60 minute -/60/30 LSD will cost as little as 12% more than a Solid Core Door with seals (prices based on standard 2040 x 820 x 38mm thick door, ex Melbourne, major project prices).

Features of Pyropanel LSDs

- Available in **singles** and **pairs**
- 3 Fire Resistance Levels:
 - -/-, -/30/30, and -/60/30
- 3 Certified Smoke Resistance Levels:
 - Cold (Ambient) smoke leakage
 - Medium (AS1530.7) smoke leakage
 - Hot smoke Leakage
- Available in either Exposed or Concealed seal arrangements, by Euroseal®, Raven, & Lorient
- Tested and certified Acoustic Ratings from 27 - 30Rw.
- Metal or timber frames to suit up to 1 hour fire resistance.
- Lighter than most common "Solid Core Doors"
- Non-timber, renewable resource core system, especially suited to "Green Projects".
- Fully tagged for both FRL and Smoke Resistance Levels for easy inclusion in essential services log books.

How to specify

Firstly determine the FRL required, then determine the smoke resistance required, and finally the seal combination desired.

Eg. **LSD - 60 - C / M / H S / EU**

Life Safety Door 60 mins fire rating Cold / Medium / Hot smoke rating Euroseal frame profile

Eg: "**Doors to be Pyropanel Life Safety Doors LSD-30-C/MS/EU with Euroseal perimeter seal and 'RP99Si*' bottom seal and <2m³/h@10Pa* smoke leakage rate, or equally tested and certified**". (* indicates change as required).

Always specify that the door must be 'equally tested and certified'. Only this way will you be assured that the installed door will meet the criteria that was originally required. If you do not specify which seal combination is required, the default seal combination will be supplied (refer to table).

LIFE SAFETY DOORS SYSTEM GUIDE

Issue: 02-08-2011

Product Range

Door Code	FRL	Smoke Resistance	Frame	Leaf Thickness	Maximum Size	Seal Combinations	Nominal Smoke Leakage (Med) (2040x820 Single)
LSD-0-C/MS	-/-	Cold / Medium	Steel or Timber	48mm or (38mm)	2400 x 1020 (2040 x 820)	*RP78Si + RP99Si	<2m ³ /h@10Pa
						RP24Si + RP38Si	2m ³ /h@10Pa
						LE1515 + IS8010Si	<2m ³ /h@10Pa
LSD-0-C/MS/EU	-/-	Cold / Medium	Steel or Timber (with Euroseal recess)	48mm or (38mm)	2400 x 1020 (2040 x 820)	*Euroseal + RP38Si	<2m ³ /h@10Pa
						Euroseal + RP99Si	<2m ³ /h@10Pa
						Euroseal + RP8Si	<2m ³ /h@10Pa
						Euroseal + IS8090Si	<2m ³ /h@10Pa
LSD-30-C/MS	-/30/30	Cold / Medium	Steel or Timber	48mm or (38mm)	2400 x 1020 (2040 x 820)	*RP78Si + RP99Si	<2m ³ /h@10Pa
						RP24Si + RP38Si	<2m ³ /h@10Pa
LSD-30-C/MS/EU	-/30/30	Cold / Medium	Steel or Timber (with Euroseal recess)	48mm or (38mm)	2400 x 1020 (2040 x 820)	*Euroseal + RP38Si	<2m ³ /h@10Pa
						Euroseal + RP99Si	<2m ³ /h@10Pa
						Euroseal + RP8Si	<2m ³ /h@10Pa
						#Euroseal + IS8090Si	<2m ³ /h@10Pa
LSD-30-C/M/HS	-/30/30	Cold / Medium/ Hot	Steel or Timber	48mm or (38mm)	2400 x 1020 (2040 x 820)	RP78Si* + RP99Si* + PFS2003*	<2m ³ /h@10Pa
						RP76Si + RP8Si + RP10Si	<2m ³ /h@10Pa
						RP24Si + RP38Si + PFS2003	<2m ³ /h@10Pa
LSD-30-C/M/HS/EU	-/30/30	Cold / Medium/ Hot	Steel or Timber (with Euroseal recess)	48mm or (38mm)	2400 x 1020 (2040 x 820)	*Euroseal + RP38Si + PFS2003	<2m ³ /h@10Pa
						Euroseal + RP99Si + PFS2003	<2m ³ /h@10Pa
						Euroseal + RP8Si + PFS2003	<2m ³ /h@10Pa
						#Euroseal + IS8090Si + PFS2003	<2m ³ /h@10Pa
LSD-60-C/MS	-/60/30	Cold / Medium	Steel or Timber	48mm or (38mm)	2400 x 1020 (2040 x 820)	*RP78Si + RP99Si	<2m ³ /h@10Pa
						RP24Si + RP38Si	<2m ³ /h@10Pa
LSD-60-C/MS/EU	-/60/30	Cold / Medium	Steel or Timber (with Euroseal recess)	48mm or (38mm)	2400 x 1020 (2040 x 820)	*Euroseal + RP38Si	<2m ³ /h@10Pa
						Euroseal + RP99Si	<2m ³ /h@10Pa
						Euroseal + RP8Si	<2m ³ /h@10Pa
						#Euroseal + IS8090Si	<2m ³ /h@10Pa
LSD-60-C/M/HS	-/60/30	Cold / Medium/ Hot	Steel or Timber	48mm or (38mm)	2400 x 1020 (2040 x 820)	RP78Si* + RP99Si* + PFS2003*	<2m ³ /h@10Pa
						RP76Si + RP8Si + RP10Si	<2m ³ /h@10Pa
						RP24Si + RP38Si + PFS2003	<2m ³ /h@10Pa
LSD-60-C/M/HS/EU	-/60/30	Cold / Medium/ Hot	Steel or Timber (with Euroseal recess)	48mm or (38mm)	2400 x 1020 (2040 x 820)	*Euroseal + RP38Si + PFS2003	<2m ³ /h@10Pa
						Euroseal + RP99Si + PFS2003	<2m ³ /h@10Pa
						Euroseal + RP8Si + PFS2003	<2m ³ /h@10Pa
						#Euroseal + IS8090Si + PFS2003	<2m ³ /h@10Pa

Notes:

- *Indicates standard seal configuration. Alternative seal combinations to be requested in door specification.
- #Indicates Seal combination used only on 48mm thick door.
- Refer to the PYROPANEL Life Safety Door Tech Sheets full features and test results of each model.
- Pair doors have been tested using Pyropanel J-Section meeting stile with integrated medium smoke seal - Contact Pyropanel for leakage data of pair doors.
- Hot smoke doors only have hot smoke (fire) seals on the sides and top of the door - no hot smoke seals are provided at the base of the door nor at the meeting stile of pair doors.



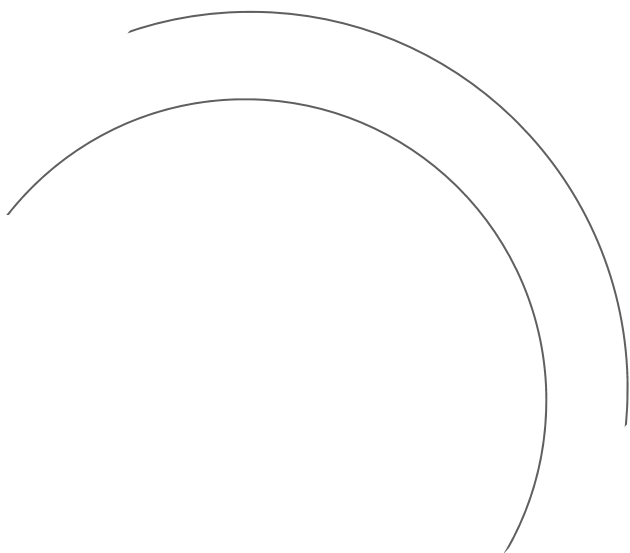
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Availability

All Pyropanel products are available throughout Australia and various other countries through a network of licensed manufacturers and distributors. For a current contact list, please contact Pyropanel Developments or visit our website at www.pyropanel.com.au.

[Pyropanel > Fire Doors > Smoke Doors > Life Safety Doors > Fire Rated Glazing > Passive Products > Special Purpose Doors](#)



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LIFE SAFETY DOOR

LSD-0-C/MS

TECH SHEET: LSD-0-C/MS

Issue: 02-08-2011

Tested and Certified Smoke door

DESCRIPTION

Non-Fire Rated Life Safety Door that has been tested and certified for smoke leakage as per AS1530.7, incorporating a choice of high performance cold / medium smoke seals.

APPLICATIONS

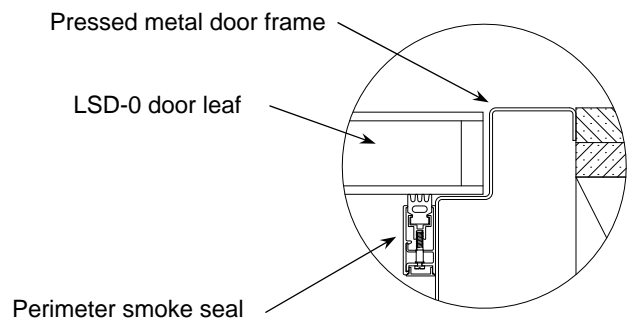
Ideal for Apartment entry doors or anywhere that requires no fire resistance, but does require certified smoke resistance.

FEATURES

- **SMOKE RESISTANCE (SRL):** COLD / MEDIUM
- **FIRE RESISTANCE (FRL):** -/-
- Tested and certified to AS1530.7 for Smoke Leakage
- 1.2mm or 1.4mm Pressed Metal Frames, or Plantation Timber Frames
- 48mm and 38mm thick, Single and Pair assemblies
- Environmentally friendly non-timber core
- Fully tagged SRL door tags
- Lighter than conventional 'solid-core' doors (leaf weight approximately 22kg/m² for 48mm thick door)
- Maximum size - Singles - 2400 x 1020mm (48mm)
2040 x 820mm (38mm)
- Pairs - 2400 x 1020mm per leaf (48mm)
- Meets the deemed to satisfy provisions for Smoke Doors found in Specification C3.4 Clause 3.2(b) of the BCA
- All pair assemblies are smoke tested with Pyropanel J-Section meeting stiles. Contact Pyropanel for pair assembly and large door leakage certificates.

OPTIONAL EXTRAS

- MDF, Ply or Laminate facings
- Solid hardwood frames
- Steel frames
- Vision panels - 300 x 200 or 600 x 100mm.
- Kick Panels of 1.2mm Stainless Steel to selected height
- Euroseal frame profile (see LSD-0-C/MS/EU)
- Pre-hung assembly available
- -/30/30 and -/60/30 models available (see LSD-30-C/MS and LSD-60-C/MS)



HOW TO SPECIFY

"Door to be a Pyropanel Life Safety Door LSD-0-C/MS or equally tested and certified with Pressed Metal / Timber door frames, 48mm* thick, -/- FRL, certified smoke leakage, MDF/Ply face*, with RP78Si* perimeter seal, and RP99Si* bottom seal, and the following options: (eg, vision panels, kick panels, etc),"*

* denotes example - delete, change or specify as required

MORE INFORMATION

For more information on the range of Pyropanel Life Safety Doors, please refer to the Life Safety Door System Guide available for download at www.pyropanel.com.au.

SEAL COMBINATIONS

Frame Details	Leaf Thickness (mm)	Cold/Medium perimeter Smoke Seal	Bottom Seal	Smoke Leakage 2040x820 single (@10Pa)	Smoke Certificate (820 single)
Pressed metal or Fire Rated timber	48 or 38	RP78Si [#]	RP99Si [#] (SM)	<2m ³ /h	SFC40973
Pressed metal or Fire Rated timber	48 or 38	RP24Si	RP38Si (SM)	<2m ³ /h	SFC40974
Pressed metal or Fire Rated timber	48 or 38	LE1515	IS8010Si (FM)	<2m ³ /h	SFC40962

Note: # indicates default seal combination (supplied unless other seals specified)
Bottom Seal Orientation: SM- Semi Morticed, FM- Fully Morticed, S- Surface Mounted



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LIFE SAFETY DOOR

LSD-0-C/MS/EU

TECH SHEET: LSD-0-C/MS/EU

Issue: 02-08-2011

Tested and Certified Smoke door

DESCRIPTION

Non-Fire Rated Life Safety Door that has been tested and certified for smoke leakage as per AS1530.7, incorporating the Pyropanel Euroseal frame profile and high performance cold and medium smoke seals.

APPLICATIONS

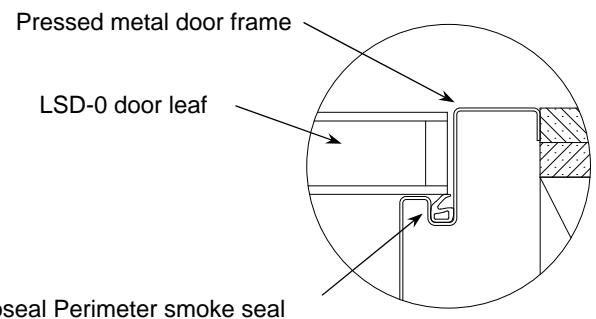
Ideal for Apartment entry doors or anywhere that requires no fire resistance, but does require certified smoke resistance.

FEATURES

- **SMOKE RESISTANCE (SRL): COLD / MEDIUM**
- **FIRE RESISTANCE (FRL): -/-**
- Tested and certified to AS1530.7 for Smoke Leakage
- 1.2mm or 1.4mm Pressed Metal Euroseal Frames, or Plantation Timber Frames
- 48mm and 38mm thick, Single and Pair assemblies
- Environmentally friendly non-timber core
- Fully tagged with SRL door tags
- Lighter than conventional 'solid-core' doors (leaf weight approximately 22kg/m² for 48mm thick door)
- Maximum size - Singles - 2400 x 1020mm (48mm)
- 2040 x 820mm (38mm)
- Pairs - 2400 x 1020mm per leaf (48mm)
- Meets the deemed to satisfy provisions for Smoke Doors found in Specification C3.4 Clause 3.2(b) of the BCA
- All pair assemblies are smoke tested with Pyropanel J-Section meeting stiles. Contact Pyropanel for pair assembly and large door leakage certificates.

OPTIONAL EXTRAS

- MDF, Ply or Laminate facings
- Solid hardwood frames
- Steel frames
- Vision panels - 300 x 200 or 600 x 100mm.
- Kick Panels of 1.2mm Stainless Steel to selected height
- Non-Euroseal frame profile (see LSD-0-C/MS)
- Pre-hung assembly available
- -/30/30 and -/60/30 models available (see LSD-30-C/MS/EU and LSD-60-C/MS/EU)



HOW TO SPECIFY

"Door to be a Pyropanel Life Safety Door LSD-0-C/MS/EU or equally tested and certified with Euroseal Pressed Metal / Plantation Timber door frames, 48mm* thick, -/- FRL, certified smoke leakage, MDF/Ply face*, with Euroseal, and RP38Si* bottom seal, and the following options: (eg, vision panels, kick panels, etc),"*

* denotes example - delete, change or specify as required

MORE INFORMATION

For more information on the range of Pyropanel Life Safety Doors, please refer to the Life Safety Door System Guide available for download at www.pyropanel.com.au.

SEAL COMBINATIONS

Frame Details	Leaf Thickness (mm)	Cold/Medium perimeter Smoke Seal	Bottom Seal	Smoke Leakage 2040x820 single (@10Pa)	Smoke Certificate (820 single)
Pressed metal or timber with Euroseal Rebate	48 or 38	Euroseal	RP38Si# (S)	<2m ³ /h	SFC40965
Pressed metal or timber with Euroseal Rebate	48 or 38	Euroseal	RP99Si (SM)	<2m ³ /h	SFC40966
Pressed metal or timber with Euroseal Rebate	48 or 38	Euroseal	RP8Si (FM)	<2m ³ /h	SFC40964
Pressed metal or timber with Euroseal Rebate	48 or 38	Euroseal	IS8090Si (S)	<2m ³ /h	SFC40963

Note: # indicates default seal combination (supplied unless other seals specified)

Bottom Seal Orientation: SM- Semi Morticed, FM- Fully Morticed, S- Surface Mounted



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LIFE SAFETY DOOR

LSD-30-C/MS

TECH SHEET- LSD-30-C/MS

Issue: 02-08-2011

Tested and Certified Fire, Smoke and Acoustic door

DESCRIPTION

30 minute Fire Rated Life Safety Door that has been tested and certified for fire resistance as per AS1530.4, tested and certified for smoke leakage as per AS1530.7, incorporating a choice of high performance cold / medium smoke seals.

APPLICATIONS

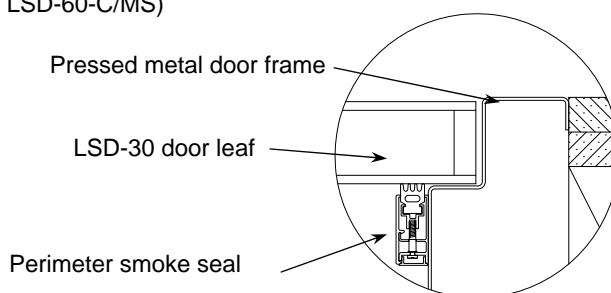
Ideal for Apartment entry doors or anywhere that requires 30 minutes of certified fire resistance, smoke resistance and acoustic resistance.

FEATURES

- **SMOKE RESISTANCE (SRL): COLD / MEDIUM**
- **FIRE RESISTANCE (FRL): -/30/30**
- Tested and certified to AS1530.7 for Smoke Leakage
- Tested and certified to AS1530.4 for Fire Resistance
- Some acoustically tested (filled metal or timber frame)
- 1.2mm or 1.4mm Pressed Metal Frames, or Fire Rated Plantation Timber Frames
- 48mm and 38mm thick, Single and Pair assemblies
- Environmentally friendly non-timber core
- Fully tagged with FRL and SRL door tags
- Lighter than conventional 'solid-core' doors (leaf weight approximately 22kg/m² for 48mm thick door)
- Maximum size - Singles - 2400 x 1020mm (48mm)
- 2040 x 820mm (38mm)
- Pairs - 2400 x 1020mm per leaf (48mm)
- Meets the deemed to satisfy provisions for Smoke Doors found in Specification C3.4 Clause 3.2(b) of the BCA
- All pair assemblies are smoke tested with Pyropanel J-Section meeting stiles. Contact Pyropanel for pair assembly and large door leakage certificates.

OPTIONAL EXTRAS

- MDF, Ply or Laminate facings
- Solid hardwood frames
- Steel frames
- Vision panels - 300 x 200 or 600 x 100mm.
- Kick Panels of 1mm Stainless Steel to selected height
- Euroseal frame profile (see LSD-30-C/MS/EU)
- Pre-hung assembly available
- -/- and -/60/30 models available (see LSD-0-C/MS and LSD-60-C/MS)



HOW TO SPECIFY

*"Door to be a Pyropanel Life Safety Door LSD-30-C/MS or **equally tested and certified** with Pressed Metal /Fire Rated Timber* door frames, 48mm* thick, -/30/30 FRL, certified smoke leakage, MDF/Ply face*, with RP78Si* perimeter seal, and RP99Si* bottom seal, and the following options: (eg, vision panels, kick panels, etc),"*

* denotes example - delete, change or specify as required

MORE INFORMATION

For more information on the range of Pyropanel Life Safety Doors, please refer to the Life Safety Door System Guide available for download at www.pyropanel.com.au.

SEAL COMBINATIONS

Frame Details	Leaf Thickness (mm)	Cold/Medium perimeter Smoke Seal	Bottom Seal	Smoke Leakage 2040x820 single (@10Pa)	Smoke Certificate (820 single)	Rw 48/38mm
Pressed metal or Fire Rated timber	48 or 38	RP78Si [#]	RP99Si [#] (SM)	<2m ³ /h	SFC40973	28/-
Pressed metal or Fire Rated timber	48 or 38	RP24Si	RP38Si (SM)	<2m ³ /h	SFC40974	30/-

Note: # indicates default seal combination which will be supplied unless specified

Bottom Seal Orientation: SM- Semi Morticed, FM- Fully Morticed, S- Surface Mounted



Pyropanel Developments Pty Ltd
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Distributed by:

LIFE SAFETY DOOR

LSD-30-C/MS/EU

TECH SHEET- LSD-30-C/MS/EU

Issue: 02-08-2011

Tested and Certified Fire, Smoke and Acoustic door

DESCRIPTION

30 minute Fire Rated Life Safety Door that has been tested and certified for fire resistance as per AS1530.4, tested and certified for smoke leakage as per AS1530.7, incorporating the Pyropanel Euroseal frame profile and high performance cold / medium smoke seals.

APPLICATIONS

Ideal for Apartment entry doors or anywhere that requires 30 minutes of certified fire resistance, smoke resistance and acoustic resistance.

FEATURES

- **SMOKE RESISTANCE (SRL): COLD / MEDIUM**
- **FIRE RESISTANCE (FRL): -/30/30**
- Tested and certified to AS1530.7 for Smoke Leakage
- Tested and certified to AS1530.4 for Fire Resistance
- Some acoustically tested (filled metal or timber frame)
- 1.2mm or 1.4mm Pressed Metal Euroseal Frames, or Fire Rated Plantation Timber Frames
- 48mm and 38mm thick, Single and Pair assemblies
- Environmentally friendly non-timber core
- Fully tagged with FRL and SRL door tags
- Lighter than conventional 'solid-core' doors (leaf weight approximately 22kg/m² for 48mm thick door)
- Maximum size - Singles - 2400 x 1020mm (48mm)
- 2040 x 820mm (38mm)
- Pairs - 2400 x 1020mm per leaf (48mm)
- Meets the deemed to satisfy provisions for Smoke Doors found in Specification C3.4 Clause 3.2(b) of the BCA
- All pair assemblies are smoke tested with Pyropanel J-Section meeting stiles.

SEAL COMBINATIONS

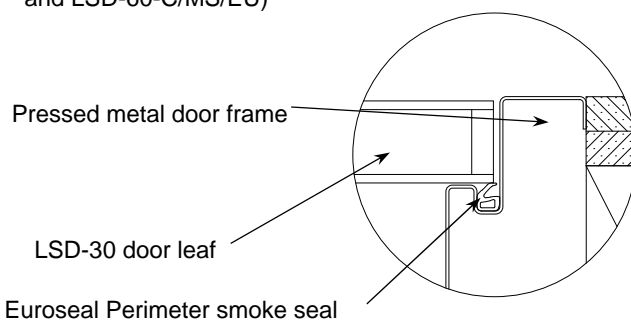
Frame Details	Leaf Thickness (mm)	Cold/Medium perimeter Smoke Seal	Bottom Seal	Smoke Leakage 2040x820 single (@10Pa)	Smoke Certificate (820 single)	Rw 48mm/38mm
Pressed metal or Fire Rated timber with Euroseal Rebate	48 or 38	Euroseal	RP38Si# (S)	<2m ³ /h	SFC40965	30 / -
Pressed metal or Fire Rated timber with Euroseal Rebate	48 or 38	Euroseal	RP99Si (SM)	<2m ³ /h	SFC40966	30 / 27
Pressed metal or Fire Rated timber with Euroseal Rebate	48 or 38	Euroseal	RP8Si (FM)	<2m ³ /h	SFC40964	30 / -
Pressed metal or Fire Rated timber with Euroseal Rebate	48	Euroseal	IS8090Si (S)	<2m ³ /h	SFC40963	30

Note:# indicates default seal combination (supplied unless other seals specified)

Bottom Seal Orientation: SM- Semi Morticed, FM- Fully Morticed, S- Surface Mounted

OPTIONAL EXTRAS

- MDF, Ply or Laminate facings
- Solid hardwood frames
- Steel frames
- Vision panels - 300 x 200 or 600 x 100mm.
- Kick Panels of 1mm Stainless Steel to selected height
- Non-Euroseal frame profile (see LSD-30-C/MS)
- Pre-hung assembly available
- -/- and -/60/30 models available (see LSD-0-C/MS/EU and LSD-60-C/MS/EU)



HOW TO

SPECIFY

"Door to be a Pyropanel Life Safety Door LSD-30-C/MS/EU or equally tested and certified with Euroseal Pressed Metal /Fire Rated Timber* door frames, 48mm* thick, -/30/30 FRL, certified smoke leakage, MDF/Ply face*, with Euroseal, and RP38Si* bottom seal, and the following options: (eg, vision panels, kick panels, etc),"

* denotes example - delete, change or specify as required

MORE INFORMATION

For more information on the range of Pyropanel Life Safety Doors, please refer to the Life Safety Door System Guide available for download at www.pyropanel.com.au.



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LIFE SAFETY DOOR

LSD-30-C/M/HS

TECH SHEET: LSD-30-C/M/HS

Issue: 02-08-2011

Tested and Certified Fire, Smoke and Acoustic door

DESCRIPTION

30 minute Fire Rated Life Safety Door that has been tested and certified for fire resistance as per AS1530.4, tested and certified for smoke leakage as per AS1530.7, incorporating a variety of high performance cold / medium smoke seals and intumescent hot smoke seals.

APPLICATIONS

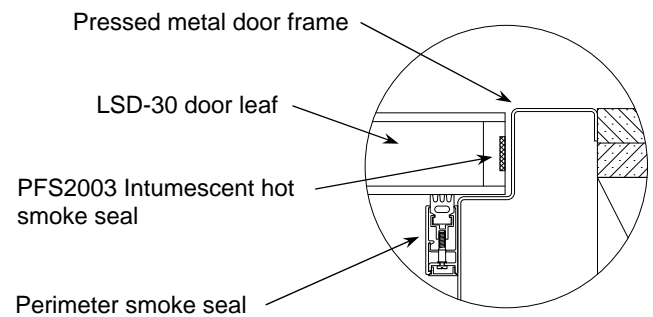
Ideal for Apartment entry doors or anywhere that requires 30 minutes of certified fire resistance, smoke resistance and acoustic resistance.

FEATURES

- **SMOKE RESISTANCE (SRL): COLD / MEDIUM / HOT**
- **FIRE RESISTANCE (FRL): -/30/30**
- Tested and certified to AS1530.7 for Smoke Leakage
- Tested and certified to AS1530.4 for Fire Resistance
- Some acoustically tested (with filled metal or timber frame)
- 1.2mm or 1.4mm Pressed Metal Frames, or Fire Rated Plantation Timber Frames
- 48mm and 38mm thick, Single and Pair assemblies
- Environmentally friendly non-timber core
- Fully tagged with FRL and SRL door tags
- Lighter than conventional 'solid-core' doors (leaf weight approximately 22kg/m² for 48mm thick door)
- Maximum size - Singles - 2400 x 1020mm (48mm)
- 2040 x 820mm (38mm)
- Pairs - 2400 x 1020mm per leaf (48mm)
- Meets the deemed to satisfy provisions for Smoke Doors found in Specification C3.4 Clause 3.2(b) of the BCA
- All pair assemblies are smoke tested with Pyropanel J-Section meeting Stiles.

OPTIONAL EXTRAS

- MDF, Ply or Laminate facings
- Solid hardwood frames
- Steel frames
- Vision panels - 300 x 200 or 600 x 100mm.
- Kick Panels of 1mm Stainless Steel to selected height
- Euroseal frame profile (see LSD-30-C/M/HS/EU)
- Pre-hung assembly available
- -/- and -/60/30 models available (see LSD-0-C/M/HS and LSD-60-C/M/HS)



HOW TO SPECIFY

"Door to be a Pyropanel Life Safety Door LSD-30-C/M/HS or equally tested and certified with Pressed Metal /Fire Rated Timber door frames, 48mm* thick, -/30/30 FRL, certified smoke leakage, MDF/Ply face*, with RP78Si*, PFS2003 and RP99Si* smoke seals, and the following options: (eg, vision panels, kick panels, etc),"*

* denotes example - delete, change or specify as required

MORE INFORMATION

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SEAL COMBINATIONS

Frame Details	Leaf Thickness (mm)	Cold/Medium perimeter Smoke Seal	Hot smoke seal	Bottom Seal	Smoke Leakage (2040x820 single) (@10Pa)	Smoke Certificate (820 single)	Rw 48/38mm
Pressed metal or Fire Rated timber	48 or 38	RP78Si [#]	PFS2003 [#]	RP99Si* (SM)	<2m ³ /h	SFC40973	28 / -
Fire Rated plantation timber	48 or 38	RP10Si	RP76Si	RP8Si (FM)	<2m ³ /h	SFC40961	- / -
Pressed metal or Fire Rated timber	48 or 38	RP24Si	PFS2003	RP38Si (SM)	<2m ³ /h	SFC40974	30 / -

Note: # indicates default seal combination (supplied unless other seals specified)

Bottom Seal Orientation: SM- Semi Morticed, FM- Fully Morticed, S- Surface Mounted



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LIFE SAFETY DOOR

LSD-30-C/M/HS/EU

TECH SHEET: LSD-30-C/M/HS/EU

Issue: 02-08-2011

Tested and Certified Fire, Smoke and Acoustic door

DESCRIPTION

30 minute Fire Rated Life Safety Door that has been tested and certified for fire resistance as per AS1530.4, tested and certified for smoke leakage as per AS1530.7, incorporating the Pyropanel Euroseal frame profile and high performance cold / medium smoke seals, & intumescent hot smoke seal.

APPLICATIONS

Ideal for Apartment entry doors or anywhere that requires 30 minutes of certified fire resistance, smoke resistance and acoustic resistance.

FEATURES

- **SMOKE RESISTANCE (SRL): COLD / MEDIUM / HOT**
- **FIRE RESISTANCE (FRL): -/30/30**
- Tested and certified to AS1530.7 for Smoke Leakage
- Tested and certified to AS1530.4 for Fire Resistance
- Some acoustically tested (filled metal or timber frame)
- 1.2mm or 1.4mm Pressed Metal Euroseal Frames, or Fire Rated Plantation Timber Frames
- 48mm and 38mm thick, Single and Pair assemblies
- Environmentally friendly non-timber core
- Fully tagged with FRL and SRL door tags
- Lighter than conventional 'solid-core' doors (leaf weight approximately 22kg/m² for 48mm thick door)
- Maximum size - Singles - 2400 x 1020mm (48mm)
- 2040 x 820mm (38mm)
- Pairs - 2400 x 1020mm per leaf (48mm)
- Meets the deemed to satisfy provisions for Smoke Doors found in Specification C3.4 Clause 3.2(b) of the BCA
- All pair assemblies are smoke tested with Pyropanel J-Section meeting stiles.

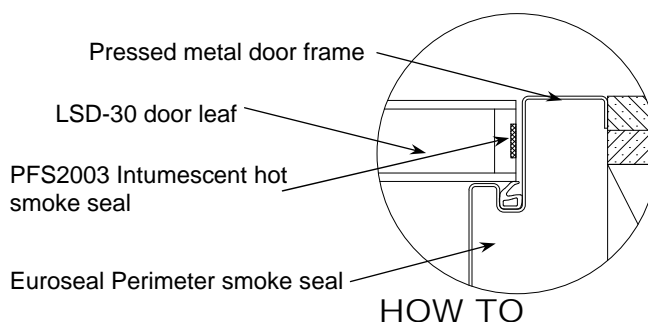
SEAL COMBINATIONS

Frame Details	Leaf Thickness (mm)	Cold/Medium perimeter Smoke Seal	Hot smoke seal	Bottom Seal	Smoke Leakage (2040x820 single) (@10Pa)	Smoke Certificate (820 single)	Rw 48mm/38mm
Pressed metal or Fire Rated timber with Euroseal Rebate	48 or 38	Euroseal	PFS2003	RP38Si [#] (S)	<2m ³ /h	SFC40965	30 / -
Pressed metal or Fire Rated timber with Euroseal Rebate	48 or 38	Euroseal	PFS2003	RP99Si (SM)	<2m ³ /h	SFC40966	30 / 27
Pressed metal or Fire Rated timber with Euroseal Rebate	48 or 38	Euroseal	PFS2003	RP8Si (FM)	<2m ³ /h	SFC40964	30 / -
Pressed metal or Fire Rated timber with Euroseal Rebate	48	Euroseal	PFS2003	IS8090Si (S)	<2m ³ /h	SFC40963	30

Note: # indicates default seal combination (supplied unless other seals specified)
Bottom Seal Orientation: SM- Semi Morticed, FM- Fully Morticed, S- Surface Mounted

OPTIONAL EXTRAS

- MDF, Ply or Laminate facings
- Solid hardwood frames
- Steel frames
- Vision panels - 300 x 200 or 600 x 100mm.
- Kick Panels of 1mm Stainless Steel to selected height
- Non-Euroseal frame profile (see LSD-30-C/M/HS)
- Pre-hung assembly available
- -/60/30 models available (see LSD-60-C/M/HS/EU)



SPECIFY

"Door to be a Pyropanel Life Safety Door LSD-30-C/M/HS/EU or equally tested and certified with Euroseal Pressed Metal /Fire Rated Timber* door frames, 48mm* thick, -/30/30 FRL, certified smoke leakage, MDF/Ply face*, with Euroseal, RP38Si* and PFS2003 smoke seals, and the following options: (eg, vision panels, kick panels, etc),"

* denotes example - delete, change or specify as required

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LIFE SAFETY DOOR

LSD-60-C/MS

TECH SHEET: LSD-60-C/MS

Issue: 02-08-2011

Tested and Certified Fire, Smoke and Acoustic door

DESCRIPTION

60 minute Fire Rated Life Safety Door that has been tested and certified for fire resistance as per AS1530.4, tested and certified for smoke leakage as per AS1530.7, incorporating a choice of high performance cold / medium smoke seals.

APPLICATIONS

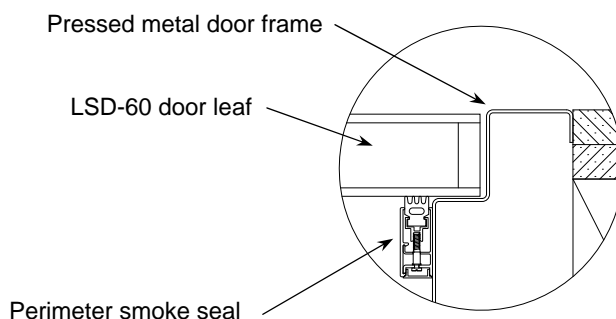
Ideal for Apartment entry doors or anywhere that requires 60 minutes of certified fire resistance, smoke resistance and acoustic resistance.

FEATURES

- **SMOKE RESISTANCE (SRL): COLD / MEDIUM**
- **FIRE RESISTANCE (FRL): -/60/30**
- Tested and certified to AS1530.7 for Smoke Leakage
- Tested and certified to AS1530.4 for Fire Resistance
- Some acoustically tested (filled metal or timber frame)
- 1.2mm or 1.4mm Pressed Metal Frames, or Fire Rated Plantation Timber Frames
- 48mm and 38mm thick, Single and Pair assemblies
- Environmentally friendly non-timber core
- Fully tagged with FRL and SRL door tags
- Lighter than conventional 'solid-core' doors (leaf weight approximately 22kg/m² for 48mm thick door)
- Maximum size - Singles - 2400 x 1020mm (48mm)
- 2040 x 820mm (38mm)
- Pairs - 2400 x 1020mm per leaf (48mm)
- Meets the deemed to satisfy provisions for Smoke Doors found in Specification C3.4 Clause 3.2(b) of the BCA
- All pair assemblies are smoke tested with Pyropanel J-Section meeting Stiles. Contact Pyropanel for pair assembly and large door leakage certificates.

OPTIONAL EXTRAS

- MDF, Ply or Laminate facings
- Solid hardwood frames
- Steel frames
- Vision panels - 300 x 200 or 600 x 100mm.
- Kick Panels of 1mm Stainless Steel to selected height
- Euroseal frame profile (see LSD-60-C/MS/EU)
- Pre-hung assembly available
- -/- and -/30/30 models available (see LSD-0-C/MS and LSD-30-C/MS)



HOW TO SPECIFY

"Door to be a Pyropanel Life Safety Door LSD-60-C/MS or equally tested and certified with Pressed Metal /Fire Rated Timber door frames, 48mm* thick, -/60/30 FRL, certified smoke leakage, MDF/Ply face*, with RP78Si* perimeter seal, and RP99Si* bottom seal, and the following options: (eg, vision panels, kick panels, etc),"*

* denotes example - delete, change or specify as required

MORE INFORMATION

For more information on the range of Pyropanel Life Safety Doors, please refer to the Life Safety Door System Guide available for download at www.pyropanel.com.au.

SEAL COMBINATIONS

Frame Details	Leaf Thickness (mm)	Cold/Medium perimeter Smoke Seal	Bottom Seal	Smoke Leakage 2040x820 single (@10Pa)	Smoke Certificate (820 single)	Rw
Pressed metal or Fire Rated timber	48	RP78Si [#]	RP99Si [#] (SM)	<2m ³ /h	SFC40973	28 / -
Pressed metal or Fire Rated timber	48	RP24Si	RP38Si (SM)	<2m ³ /h	SFC40974	30 / -

Note: # indicates default seal combination (supplied unless other seals specified)

Bottom Seal Orientation: SM- Semi Morticed, FM- Fully Morticed, S- Surface Mounted



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LIFE SAFETY DOOR

LSD-60-C/MS/EU

TECH SHEET: LSD-60-C/MS/EU

Issue: 02-08-2011

Tested and Certified Fire, Smoke and Acoustic door

DESCRIPTION

60 minute Fire Rated Life Safety Door that has been tested and certified for fire resistance as per AS1530.4, tested and certified for smoke leakage as per AS1530.7, incorporating the Pyropanel Euroseal frame profile and high performance cold / medium smoke seals.

APPLICATIONS

Ideal for Apartment entry doors or anywhere that requires 60 minutes of certified fire resistance, smoke resistance and acoustic resistance.

FEATURES

- **SMOKE RESISTANCE (SRL): COLD / MEDIUM**
- **FIRE RESISTANCE (FRL): -/60/30**
- Tested and certified to AS1530.7 for Smoke Leakage
- Tested and certified to AS1530.4 for Fire Resistance
- Some acoustically tested (filled metal or timber frame)
- 1.2mm or 1.4mm Pressed Metal Euroseal Frames, or Fire Rated Plantation Timber Frames
- 48mm and 38mm thick, Single and Pair assemblies
- Environmentally friendly non-timber core
- Fully tagged with FRL and SRL door tags
- Lighter than conventional 'solid-core' doors (leaf weight approximately 22kg/m² for 48mm thick door)
- Maximum size - Singles - 2400 x 1020mm (48mm)
- 2040 x 820mm (38mm)
- Pairs - 2400 x 1020mm per leaf (48mm)
- Meets the deemed to satisfy provisions for Smoke Doors found in Specification C3.4 Clause 3.2(b) of the BCA
- All pair assemblies are smoke tested with Pyropanel J-Section meeting stiles.

SEAL COMBINATIONS

Frame Details	Leaf Thickness (mm)	Cold/Medium perimeter Smoke Seal	Bottom Seal	Smoke Leakage 2040x820 single (@10Pa)	Smoke Certificate (820 single)	Rw 48mm/38mm
Pressed metal or Fire Rated timber with Euroseal Rebate	48 or 38	Euroseal	RP38Si# (S)	<2m ³ /h	SFC40965	30 / -
Pressed metal or Fire Rated timber with Euroseal Rebate	48 or 38	Euroseal	RP99Si (SM)	<2m ³ /h	SFC40966	30 / 27
Pressed metal or Fire Rated timber with Euroseal Rebate	48 or 38	Euroseal	RP8Si (FM)	<2m ³ /h	SFC40964	30 / -
Pressed metal or Fire Rated timber with Euroseal Rebate	48	Euroseal	IS8090Si (S)	<2m ³ /h	SFC40963	30

Note: # indicates default seal combination (supplied unless other seals specified)

Bottom Seal Orientation: SM- Semi Morticed, FM- Fully Morticed, S- Surface Mounted

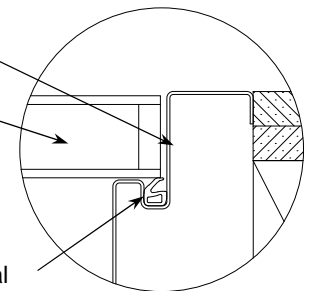
OPTIONAL EXTRAS

- MDF, Ply or Laminate facings
- Solid hardwood frames
- Steel frames
- Vision panels - 300 x 200 or 600 x 100mm.
- Kick Panels of 1mm Stainless Steel to selected height
- Non-Euroseal frame profile (see LSD-60-C/MS)
- Pre-hung assembly available
- -/- and -/30/30 models available (see LSD-0-C/MS/EU and LSD-30-C/MS/EU)

Pressed metal door frame

LSD-60 door leaf

Euroseal Perimeter smoke seal



HOW TO SPECIFY

"Door to be a Pyropanel Life Safety Door LSD-60-C/MS/EU or equally tested and certified with Euroseal Pressed Metal /Fire Rated Timber door frames, 48mm* thick, -/60/30 FRL, certified smoke leakage, MDF/Ply face*, with Euroseal, and RP38Si* bottom seal, and the following options: (eg, vision panels, kick panels, etc),"*

* denotes example - delete, change or specify as required

MORE INFORMATION

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LSD-60-C/M/HS

TECH SHEET: LSD-60-C/M/HS

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Tested and Certified Fire, Smoke and Acoustic door

DESCRIPTION

60 minute Fire Rated Life Safety Door that has been tested and certified for fire resistance as per AS1530.4, tested and certified for smoke leakage as per AS1530.7, incorporating a variety of high performance cold / medium smoke seals and intumescent hot smoke seals.

APPLICATIONS

Ideal for Apartment entry doors or anywhere that requires 60 minutes of certified fire resistance, smoke resistance and acoustic resistance.

FEATURES

- **SMOKE RESISTANCE (SRL): COLD / MEDIUM / HOT**
- **FIRE RESISTANCE (FRL): -/60/30**
- Tested and certified to AS1530.7 for Smoke Leakage
- Tested and certified to AS1530.4 for Fire Resistance
- Some acoustically tested (filled metal or timber frame)
- 1.2mm or 1.4mm Pressed Metal Frames, or Fire Rated Plantation Timber Frames
- 48mm and 38mm thick, Single and Pair assemblies
- Environmentally friendly non-timber core
- Fully tagged with FRL and SRL door tags
- Lighter than conventional 'solid-core' doors (leaf weight approximately 22kg/m² for 48mm thick door)
- Maximum size - Singles - 2400 x 1020mm (48mm)
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- Pairs - 2400 x 1020mm per leaf (48mm)
- Meets the deemed to satisfy provisions for Smoke Doors found in Specification C3.4 Clause 3.2(b) of the BCA
- All pair assemblies are smoke tested with Pyropanel J-Section meeting stiles.

SEAL COMBINATIONS

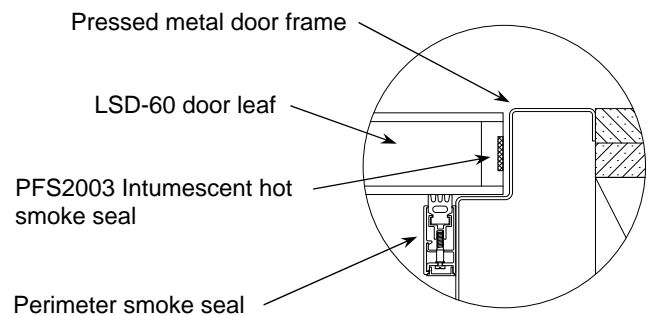
Frame Details	Leaf Thickness (mm)	Cold/Medium perimeter Smoke Seal	Hot smoke seal	Bottom Seal	Smoke Leakage (@10Pa) (2040x820 single)	Smoke Certificate (820 single)	Rw 48/38m
Pressed metal or Fire Rated timber	48 or 38	RP78Si [#]	PFS2003 [#]	RP99Si [#] (SM)	<2m ³ /h	SFC40973	28 / -
Fire Rated plantation timber	48 or 38	RP10Si	RP76Si	RP8Si (FM)	<2m ³ /h	SFC40961	- / -
Pressed metal or Fire Rated timber	48 or 38	RP24Si	PFS2003	RP38Si (SM)	<2m ³ /h	SFC40974	30 / -

Note: # indicates default seal combination (supplied unless other seals specified)

Bottom Seal Orientation: SM- Semi Morticed, FM- Fully Morticed, S- Surface Mounted

OPTIONAL EXTRAS

- MDF, Ply or Laminate facings
- Solid hardwood frames
- Steel frames
- Vision panels - 300 x 200 or 600 x 100mm
- Kick Panels of 1mm Stainless Steel to selected height
- Euroseal frame profile (see LSD-60-C/M/HS/EU)
- Pre-hung assembly available
- -/- and -/30/30 models available (see LSD-0-C/M/HS and LSD-30-C/M/HS)



HOW TO SPECIFY

"Door to be a Pyropanel Life Safety Door LSD-60-C/M/HS or equally tested and certified with Pressed Metal /Fire Rated Timber door frames, 48mm* thick, -/60/30 FRL, certified smoke leakage, MDF/Ply face*, with RP78Si, PFS2003 and RP99Si* smoke seals, and the following options: (eg, vision panels, kick panels, etc),"*

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LIFE SAFETY DOOR

LSD-60-C/M/HS/EU

TECH SHEET: LSD-60-C/M/HS/EU

Issue: 02-08-2011

Tested and Certified Fire, Smoke and Acoustic door

DESCRIPTION

60 minute Fire Rated Life Safety Door that has been tested and certified for fire resistance as per AS1530.4, tested and certified for smoke leakage as per AS1530.7, incorporating the Pyropanel Euroseal frame profile and high performance cold / medium smoke seals, & intumescent hot smoke seal.

APPLICATIONS

Ideal for Apartment entry doors or anywhere that requires 60 minutes of certified fire resistance, smoke resistance and acoustic resistance.

FEATURES

- **SMOKE RESISTANCE (SRL):** COLD / MEDIUM / HOT
- **FIRE RESISTANCE (FRL):** -/60/30
- Tested and certified to AS1530.7 for Smoke Leakage
- Tested and certified to AS1530.4 for Fire Resistance
- Some acoustically tested (filled metal or timber frame)
- 1.2mm or 1.4mm Pressed Metal Euroseal Frames, or Fire Rated Plantation Timber Frames
- 48mm and 38mm thick, Single and Pair assemblies
- Environmentally friendly non-timber core
- Fully tagged with FRL and SRL door tags
- Lighter than conventional 'solid-core' doors (leaf weight approximately 22kg/m² for 48mm thick door)
- Maximum size - Singles - 2400 x 1020mm (48mm)
- 2040 x 820mm (38mm)
- Pairs - 2400 x 1020mm per leaf (48mm)
- Meets the deemed to satisfy provisions for Smoke Doors found in Specification C3.4 Clause 3.2(b) of the BCA
- All pair assemblies are smoke tested with Pyropanel J-Section meeting stiles

SEAL COMBINATIONS

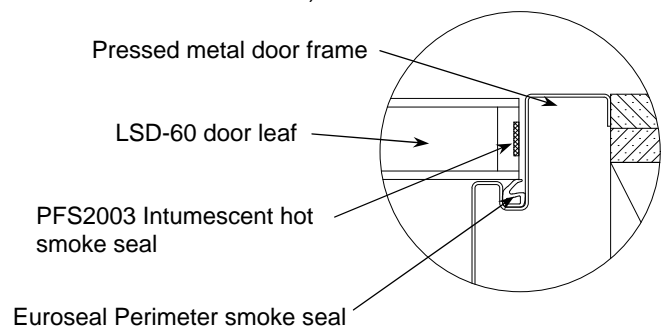
Frame Details	Leaf Thickness (mm)	Cold/Medium perimeter Smoke Seal	Hot smoke seal	Bottom Seal	Smoke Leakage 2040x820 single (@10Pa)	Smoke Certificate (820 single)	Rw 48mm/38mm
Pressed metal or Fire Rated timber with Euroseal Rebate	48 or 38	Euroseal	PFS2003	RP38Si# (S)	<2m ³ /h	SFC40965	30 / -
Pressed metal or Fire Rated timber with Euroseal Rebate	48 or 38	Euroseal	PFS2003	RP99Si (SM)	<2m ³ /h	SFC40966	30 / 27
Pressed metal or Fire Rated timber with Euroseal Rebate	48 or 38	Euroseal	PFS2003	RP8Si (FM)	<2m ³ /h	SFC40964	30 / -
Pressed metal or Fire Rated timber with Euroseal Rebate	48	Euroseal	PFS2003	IS8090Si (S)	<2m ³ /h	SFC40963	30

Note:# indicates default seal combination (supplied unless other seals specified)

Bottom Seal Orientation: SM- Semi Morticed, FM- Fully Morticed, S- Surface Mounted

OPTIONAL EXTRAS

- MDF, Ply or Laminate facings
- Solid hardwood frames
- Steel frames
- Vision panels - 300 x 200 or 600 x 100mm.
- Kick Panels of 1mm Stainless Steel to selected height
- Non-Euroseal frame profile (see LSD-60-C/M/HS)
- Pre-hung assembly available
- -/- and -/30/30 models available (see LSD-0-C/M/HS/EU and LSD-30-C/M/HS/EU)



HOW TO SPECIFY

"Door to be a Pyropanel Life Safety Door LSD-60-C/M/HS/EU or **equally tested and certified** with Euroseal Pressed Metal /Fire Rated Timber* door frames, 48mm* thick, -/60/30 FRL, certified smoke leakage, MDF/Ply face*, with Euroseal, RP38Si* and PFS2003 smoke seals, and the following options: (eg, vision panels, kick panels, etc),"

* denotes example - delete, change or specify as required

MORE INFORMATION

For more information on the range of Pyropanel Life Safety Doors, please refer to the Life Safety Door System Guide available for download at www.pyropanel.com.au.



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Acoustic Doors System Guide



ACOUSTIC DOORS SYSTEM GUIDE

Issue: 30-07-2010

What is an Acoustic Doorset?

An acoustic doorset consists of a door leaf (or leaves), door frame, and seal package that has been tested for acoustic performance to AS 1191-1985. The results from such tests are expressed in either "Sound Transmission Class" (STC), calculated to AS 1276-1979, and/or "Weighted Sound Reduction" (Rw), calculated using AS/NZS 1276.1-1999.

Pyropanel acoustic doorsets are available in a range of STC/Rw ratings from 27 to 47. Many models also incorporate fire and/or smoke resistance levels according to AS1530.4-1997 and AS1530.7-1998. Doorsets with acoustic ratings exceeding 47 STC/Rw are available upon request. All tests have been conducted by independent NATA approved laboratories.

Applications

Pyropanel acoustic doorsets are available in both hinged and sliding configurations. Hinged doors can be fitted to either pressed metal or timber door frames. In detailing acoustic door frames it is vital to ensure that the frames are backfilled (where appropriate) and securely fitted to the wall system utilizing acoustically rated methods and sealants.

Typical applications for acoustic doorsets include recording studios, music halls, schools, executive meeting rooms and apartments. Pyropanel acoustic doorsets are capable of incorporating additional features such as ballistic or radiation resistance if required.

Pyropanel also offer a large range of doorsets that combine acoustic resistance with other tested and certified features such as smoke leakage (*life safety doors*), bullet, intruder or radiation resistance (*special purpose doors*) and fire resistance, as well as a variety of performance finishes such as hospital grade stainless steel and mirror finishes. For more information on our custom designed performance doors, please contact Pyropanel Developments direct, or your local Pyropanel licensed agent.

Installation

Acoustic doorsets will not meet the desired level of performance unless correctly installed. Misalignment of the door frame and/or door seals will result in sound leakage, compromising the doorset's performance. Care must also be taken in the installation of the door frame itself, as gaps between the frame and wall may drastically reduce the doorset's acoustic rating. All acoustic doors must have a backfilled/packed steel frame or timber frame depending on required rating and model.

Pyropanel recommend that only qualified installers be used. In specifying an acoustic doorset it is vital that the final installation be certified by the Company who manufactures and supplies the doorset, and wherever possible should be the installer of the doorset.

Advantages and Features

- Available in single and double leaf designs.
- Can be fitted to either pressed metal or timber door frames.
- Sliding doorsets are available.
- Additional performance for fire, smoke, ballistics, radiation etc, can be incorporated.
- Doorsets can be fitted with a range of seal types, including Raven, Lorient, Zero, and fully concealed "Euroseal".
- Door leaves can be decorative, using a range of optional face materials including MDF, Ply, laminate, steel sheet or timber veneer.
- Door leaves are generally thinner and lighter than historic acoustic door designs leading to greater ease of use and durability.
- Independently tested by NATA approved laboratories.

Certification

Pyropanel acoustic doorsets comply with the following Australian Standards:

- AS 1191-1985 "Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions".
- AS 1276-1999 "Acoustics – Rating of sound insulation in buildings and of building elements – Airborne sound insulation" (now AS/NZS ISO 717.1:2004).

Summary

- Pyropanel acoustic doorsets are fully tested and approved.
- All acoustic doorsets must be carefully installed.
- Doorsets can have multiple performance features.
- Always specify the exact model number of doorset required.
- If in doubt contact Pyropanel for assistance.

How to specify

Firstly determine the Acoustic performance required, identify whether the doorset also requires other performance characteristics such as fire or acoustic protection, choose the correct model number (refer to individual tech sheets for additional information) and specify as per the following example:

Eg: "Door to be a Pyropanel AS-31-FRB acoustic doorset with certified -/240/30* FRL, Raven RP24 perimeter seal, Raven RP 38 bottom seal, installed into a press metal door frame packed with mortar or FR board"

(* indicates delete or change as required).



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ACOUSTIC DOORS SYSTEM GUIDE

Issue: 30-07-2010

Selection Guide

Model / Tech sheet	Rw	FRL	Leaf Thickness	Facing	Perimeter Seal	Floor Seal	Comments
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SINGLE ACOUSTIC DOORS

AS-27-PAN-E	27	-/60/30	38mm	MDF/Ply	Euroseal	RP99	Typical 60 min unit entry door, LSD approved
AS-28-PAN(i)	28	-/30/30	48mm	MDF/Ply	RP78Si	RP99	Typical 30 min unit entry door, LSD approved
AS-28-PAN(ii)	28	-60/30	48mm	MDF/Ply	RP47	RP99	Typical 60 min unit entry door
AS-30-PAN-E	30	-60/30	48mm	MDF/Ply	Euroseal	RP99	Typical 60 min unit entry door, LSD approved
AS-31-PAN	31	-60/30	48mm	MDF/Ply	RP10	RP99	Typical 60 min unit entry door, LSD approved
AS-31-FRB	31	-/240/30	48mm	Ply	RP24	RP38	Typical 2hr rated fire door with seals
AS-33-FRB	33	-/240/30	50mm	Steel	RP24	RP38 + Pyrosill	Typical 2hr rated fire door with seals
AS-BLOCK-A	33	-	48mm	MDF/Ply	RP24	RP38	Non-fire rated acoustic door
AS-PYROL-A	36	-	48mm	Steel	IS6030 +LE 1515	Pyrosill	Non-fire rated metal clad acoustic door
	36	-	48mm	Steel	Zero 3708A	Pyrosill	Non-fire rated metal clad acoustic door
	34	-	48mm	Steel	Euroseal	Pyrosill	Non-fire rated metal clad acoustic door
AS-40-FRB	40	-/120/30	55mm	Ply/Steel	RP39	Pyrosill	2hr rated acoustic door with Ply faces
AS-SPECIAL-A	45	-	48mm	Steel	Euroseal	Pyrosill	Heavy duty
AS-46-INTERCON	46	-/60/30	47mm / 42mm	MDF/Ply	RP39 + RP76	RP38	Two leaves in one frame - for apartment interconnecting doors
AS-SPECIAL-B	47	-	48mm	Steel	3708A	367A + Pyrosill	Heavy duty leaf

PAIR ACOUSTIC DOORS

AP-30-PAN-E	30	Fire Rated construction only	48mm	MDF/Ply	Euroseal + Rubber rebated meeting stile	RP99	Fire rated pair doors with acoustic rated meeting stile
AP-31-PAN	31	Fire Rated construction only	48mm	MDF/Ply	RP99 + Rubber rebated meeting stile	RP99	Same as AP-30-PAN-E
AP-41-PYROL	41	-	56mm	Steel & Ply	367A + Pyrosill + Rubber rebated meeting stile	367A + Pyrosill	Best suited to timber jamb - seals may be used as door stop

- Please refer to the Tech Sheet indicated for details on the particular door model required.
- Please refer to the Pyropanel Website for the latest Technical information.
- If you do not find a product to suit your requirements, please contact Pyropanel Developments for the latest information on our comprehensive range of Passive Fire Protection Products



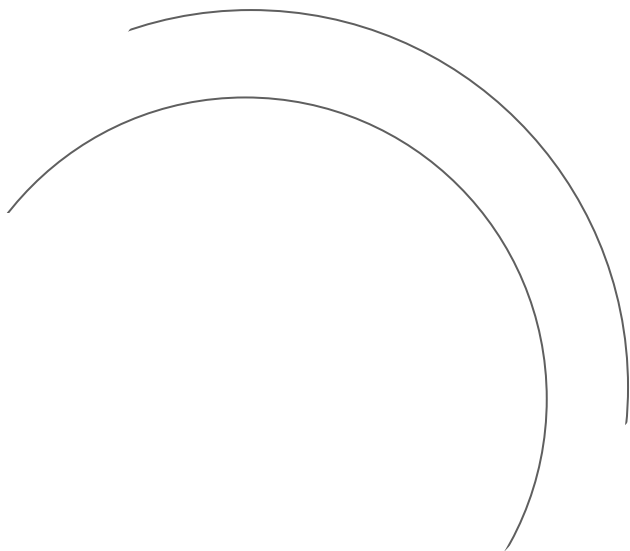
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Availability

All Pyropanel products are available throughout Australia and various other countries through a network of licensed manufacturers and distributors. For a current contact list, please contact Pyropanel Developments or visit our website at www.pyropanel.com.au.

[Pyropanel > Fire Doors > Smoke Doors > Life Safety Doors > Fire Rated Glazing > Passive Products > Special Purpose Doors](#)



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ACOUSTIC DOOR

AS-27-PAN-E

TECH SHEET: AS-27-PAN-E

Issue: 30-07-2010

**1 Hr fire rated 27 Rw single acoustic /
smoke / fire door**

DESCRIPTION

Pyropanel AS-27-PAN-E is a 27 Rw 1 hour fire rated 38mm single leaf acoustic door that utilises a Raven Products bottom seal and a Pyropanel Euroseal concealed perimeter seal. This door has also been tested to AS 1530.7 for smoke leakage.

APPLICATIONS

Ideal for unit entry applications or anywhere that requires 1 hour of fire resistance and an acoustic rating of 27 Rw.

FEATURES

Acoustic Rating

- 27 Rw (27 STC)

Test Certificate number

- TL373(a)

Fire Resistance

- FRL -/60/30

Door Configuration

- Single leaf hung in a steel or timber frame.

Perimeter Seal

- Pyropanel Euroseal® concealed smoke/acoustic seal

Bottom Seal

- Raven RP99

Thickness

- 38mm (Nominal)

Size

- Maximum Size - 2200 x 920 (-/60/30)
- 2420 x 1020 or 2200 x 1120 (-/30/30)
- 2400 x 1100 (- / - / -)

Hinges

- Minimum 3 steel hinges

Frame

- Pyropanel KDHW timber or packed pressed metal frame

Finish

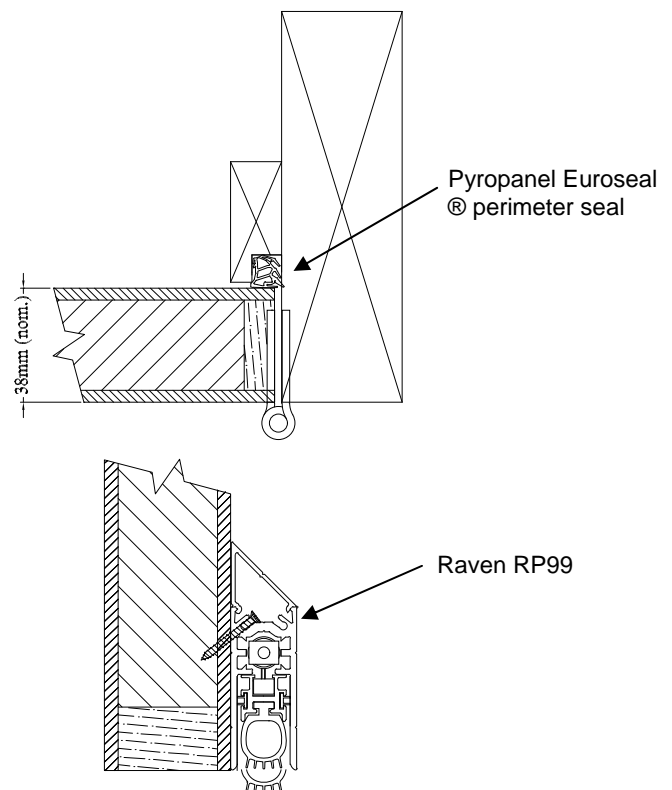
- MDF as standard

OPTIONAL EXTRAS

- Pre-hung in steel or timber frame
- Ply, Veneer, Steel or Laminate facings
- Kick Panels of 1mm Stainless Steel to selected height
- Tested for smoke leakage - refer Pyropanel Life Safety door model LSD-60-C/MS/EU for smoke leakage data

INSTALLATION

Door frame must be tightly sealed against wall structure using Pyropanel Multiflex or approved alternative fire and acoustic sealant. Metal door frames will require packing with Pyropanel FR board, Fire rated plaster, concrete or mortar to achieve desired acoustic rating.



HOW TO SPECIFY

"Door to be a Pyropanel AS-27-PAN-E acoustic door with -/60/30 FRL, installed into a Pyropanel Fire rated timber / packed metal* door frame"*

* denotes example—delete, change or specify as required

PYRO PANEL

Protecting Life and Property

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ACOUSTIC DOOR

AS-28-PAN(i)

TECH SHEET: AS-28-PAN(i)

Issue: 30-07-2010

30 minute fire rated 28 Rw single acoustic / smoke / fire door

DESCRIPTION

Pyropanel AS-28-PAN(i) is a 28 Rw 30 minute fire rated 48mm single leaf acoustic door that utilises a Raven Products RP78Si perimeter seal and a RP99Si bottom seal. This door has also been tested to AS1530.7 for smoke leakage.

APPLICATIONS

Ideal for unit entry applications or anywhere that requires 30 minutes of fire resistance and an acoustic rating of 28 Rw.

FEATURES

Acoustic Rating

- 28 Rw (28 STC)

Test Certificate number

- TL409(l)

Fire Resistance

- FRL -/30/30

Door Configuration

- Single leaf hung in a steel or timber frame.

Perimeter Seal

- Raven RP78Si

Bottom Seal

- Raven RP99Si

Thickness

- 48mm (Nominal)

Size

- Maximum Size - 2420 x 1020 or 2200 x 1120 (-/30/30)
- 2400 x 1100 (- / - / -)

Hinges

- Minimum 3 steel hinges

Frame

- Pyropanel KDHW timber or packed pressed metal frame

Finish

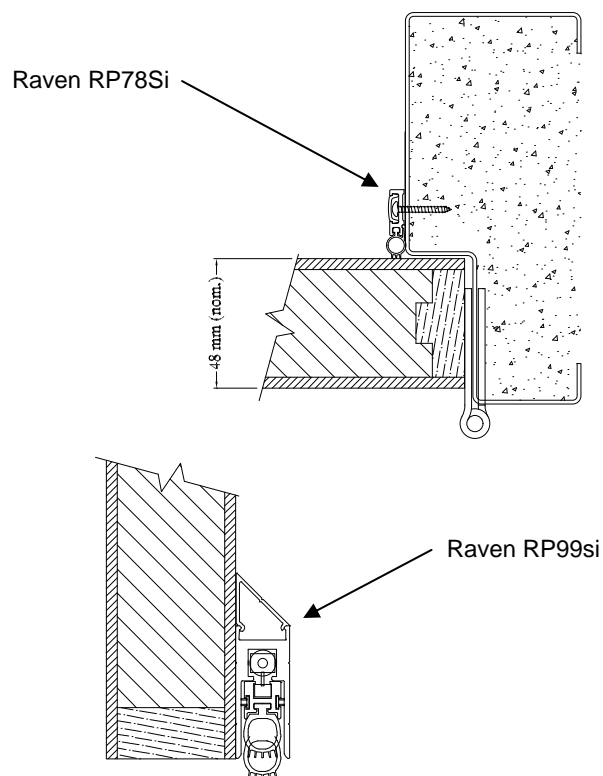
- MDF as standard

OPTIONAL EXTRAS

- Pre-hung in steel or timber frame
- Ply, Veneer, Steel or Laminate facings
- Vision panels—300 x 200 or 600 x 100mm.
- Kick Panels of 1mm Stainless Steel to selected height
- Tested for smoke leakage - refer Pyropanel Life Safety door model LSD-30-C/MS for smoke leakage data

INSTALLATION

Door frame must be tightly sealed against wall structure using Pyropanel Multiflex or approved alternative fire and acoustic sealant. Metal door frames will require packing with Pyropanel FR board, Fire rated plaster, concrete or mortar to achieve desired acoustic rating.



HOW TO SPECIFY

"Door to be a Pyropanel AS-28-PAN(i) acoustic door with -/30/30 FRL, installed into a Pyropanel Fire rated timber / packed metal* door frame"*

* denotes example—delete, change or specify as required

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ACOUSTIC DOOR

AS-28-PAN(ii)

TECH SHEET AS-28-PAN(ii)

Issue: 30-07-2010

60 minute fire rated 28 Rw single acoustic / smoke / fire door

DESCRIPTION

Pyropanel AS-28-PAN(ii) is a 28 Rw, 1 hour fire rated 48mm single leaf acoustic door that utilises a Raven Products RP47 perimeter seal and a RP99 bottom seal.

APPLICATIONS

Ideal for unit entry applications or anywhere that requires 60 minutes of fire resistance and an acoustic rating of 28 Rw.

FEATURES

Acoustic Rating

- 28 Rw (28 STC)

Test Certificate number

- TL373(d)

Fire Resistance

- FRL -/60/30

Door Configuration

- Single leaf hung in steel or timber frame.

Perimeter Seal

- Raven RP47

Bottom Seal

- Raven RP99

Thickness

- 48mm (Nominal)

Size

- Maximum Size - 2420 x 1020 or 2200 x 1120 (-/60/30)

Hinges

- Minimum 3 steel hinges

Frame

- Pyropanel KDHW timber or packed pressed metal frame

Finish

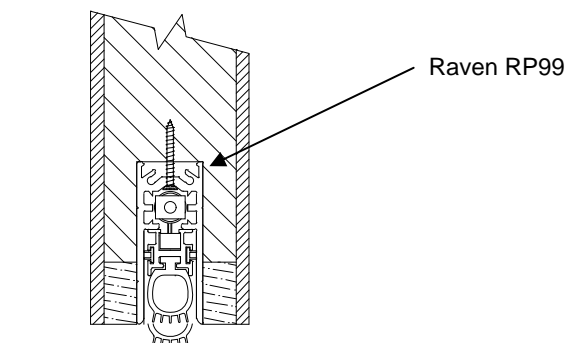
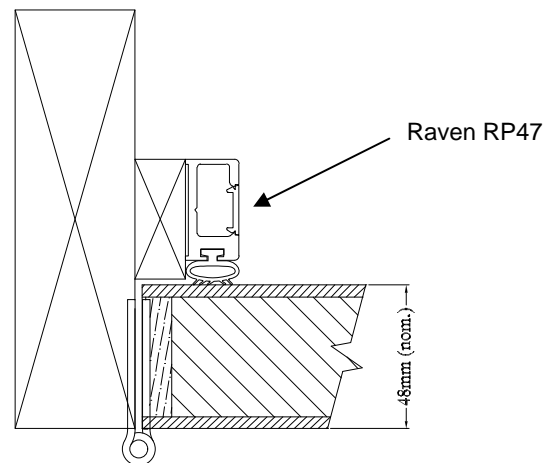
- MDF as standard

OPTIONAL EXTRAS

- Pre-hung in steel or timber frame
- Ply, Veneer, Steel or Laminate facings
- Vision panels - 300 x 200 or 600 x 100mm.
- Kick Panels of 1mm Stainless Steel to selected height
- Meets the BCA requirement for a smoke door.

INSTALLATION

Door frame must be tightly sealed against wall structure using Pyropanel Multiflex or approved alternative fire and acoustic sealant. Metal door frames will require packing with Pyropanel FR board, Fire rated plaster, concrete or mortar to achieve desired acoustic rating.



HOW TO SPECIFY

"Door to be a Pyropanel AS-28-PAN(ii) acoustic door with -/60/30 FRL, installed into a Pyropanel Fire rated timber / packed metal* door frame"*

* denotes example—delete, change or specify as required

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ACOUSTIC DOOR

AS-30-PAN-E

TECH SHEET: AS-30-PAN-E

Issue: 30-07-2010

60 minute fire rated 30 Rw single acoustic / smoke / fire door

DESCRIPTION

Pyropanel AS-30-PAN-E is a 30 Rw, 1 hour fire rated 48mm single leaf acoustic door that utilises a Raven Products bottom seal and a Pyropanel Euroseal concealed perimeter seal. This door has also been tested to AS 1530.7 for smoke leakage.

APPLICATIONS

Ideal for unit entry applications or anywhere that requires 60 minutes of fire resistance and an acoustic rating of 30 Rw.

FEATURES

Acoustic Rating

- 30 Rw (30 STC)

Test Certificate number

- TL373(n)

Fire Resistance

- FRL -/60/30

Door Configuration

- Single leaf hung in a steel or timber frame.

Perimeter Seal

- Pyropanel Euroseal® concealed smoke/acoustic seal

Bottom Seal

- Raven RP99

Thickness

- 48mm (Nominal)

Size

- Maximum Size - 2420 x 1020 or 2200 x 1120 (-/60/30)

Hinges

- Minimum 3 steel hinges

Frame

- Pyropanel KDHW timber or packed pressed metal frame

Finish

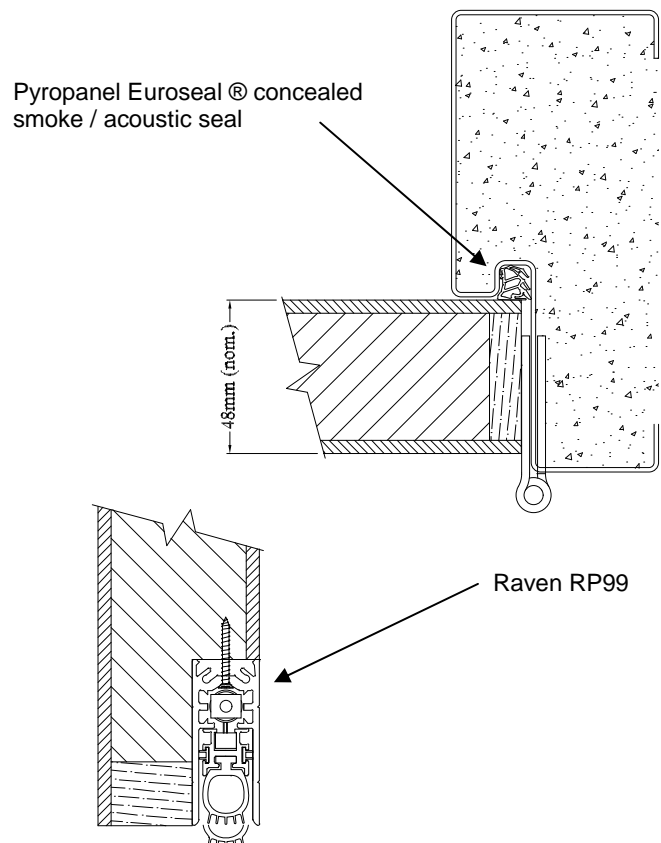
- MDF as standard

OPTIONAL EXTRAS

- Pre-hung in steel or timber frame
- Ply, Veneer, Steel or Laminate facings
- Vision panels - 300 x 200 or 600 x 100mm.
- Kick Panels of 1.2mm Stainless Steel to selected height
- Tested for smoke leakage - refer Pyropanel Life Safety door model LSD-C/MS/EU for smoke leakage data.

INSTALLATION

Door frame must be tightly sealed against wall structure using Pyropanel Multiflex or approved alternative fire and acoustic sealant. Metal door frames will require packing with Pyropanel FR board, Fire rated plaster, concrete or mortar to achieve desired acoustic rating.



HOW TO SPECIFY

"Door to be a Pyropanel AS-30-PAN-E acoustic door with -/60/30 FRL, installed into a Pyropanel Fire rated timber / packed metal* door frame"*

* denotes example—delete, change or specify as required

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ACOUSTIC DOOR

AS-31-PAN

TECH SHEET: AS-31-PAN

Issue: 30-07-2010

60 minute fire rated 31 Rw single acoustic / smoke / fire door

DESCRIPTION

Pyropanel AS-31-PAN is a 31 Rw 1 hour fire rated 48mm single leaf acoustic door that utilises a Raven Products RP10 perimeter seal and an RP99 bottom seal.

APPLICATIONS

Ideal for unit entry applications or anywhere that requires 60 minutes of fire resistance and an acoustic rating of 31 Rw.

FEATURES

Acoustic Rating

- 31 Rw (31 STC)

Test Certificate number

- TL373(m)

Fire Resistance

- FRL -/60/30

Door Configuration

- Single leaf hung in a steel or timber frame.

Perimeter Seal

- Raven RP10

Bottom Seal

- Raven RP99

Thickness

- 48mm (Nominal)

Size

- Maximum Size - 2420 x 1020 or 2200 x 1120

Hinges

- Minimum 3 steel hinges

Frame

- Pyropanel KDHW timber or packed pressed metal frame

Finish

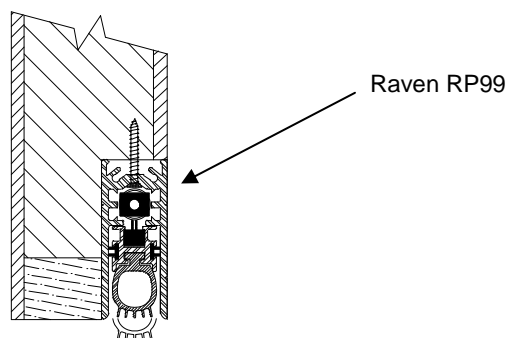
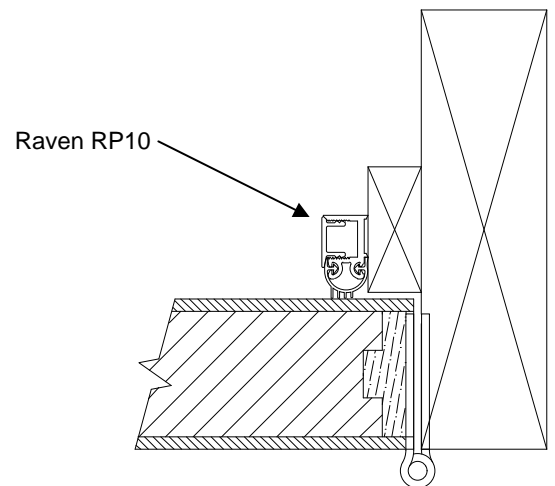
- MDF as standard

OPTIONAL EXTRAS

- Pre-hung in steel or timber frame
- Ply, Veneer, Steel or Laminate facings
- Vision panels - 300 x 200 or 600 x 100mm.
- Kick Panels of 1mm Stainless Steel to selected height
- Meets the BCA requirement for a smoke door.

INSTALLATION

Door frame must be tightly sealed against wall structure using Pyropanel Multiflex or approved alternative fire and acoustic sealant. Metal door frames will require packing with Pyropanel FR board, Fire rated plaster, concrete or mortar to achieve desired acoustic rating.



HOW TO SPECIFY

"Door to be a Pyropanel AS-31-PAN acoustic door with -/60/30 FRL, installed into a Pyropanel Fire rated timber / packed metal* door frame"*

* denotes example—delete, change or specify as required

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ACOUSTIC DOOR

AS-31-FRB

TECH SHEET: AS-31-FRB

Issue: 30-07-2010

**4 hr fire rated 31 Rw single acoustic /
smoke / fire door**

DESCRIPTION

Pyropanel AS-31-FRB is a 31 Rw, 4 hour fire rated 48mm single leaf acoustic door that utilises a Raven Products RP24 perimeter seal and an RP38 bottom seal.

APPLICATIONS

Ideal for applications that require 4 hours of fire resistance and an acoustic rating of 31Rw, such as hospitals, warehouses and fire escapes.

FEATURES

Acoustic Rating

- 31 Rw (31 STC)

Test Certificate number

- 86T13/1

Fire Resistance

- FRL -/240/30

Door Configuration

- Single leaf hung in a steel frame

Perimeter Seal

- Raven RP24

Bottom Seal

- Raven RP38

Thickness

- 48mm (Nominal)

Size

- Maximum Size - 3000 x 1500

Hinges

- Minimum 3 steel hinges

Frame

- Packed pressed metal frame

Finish

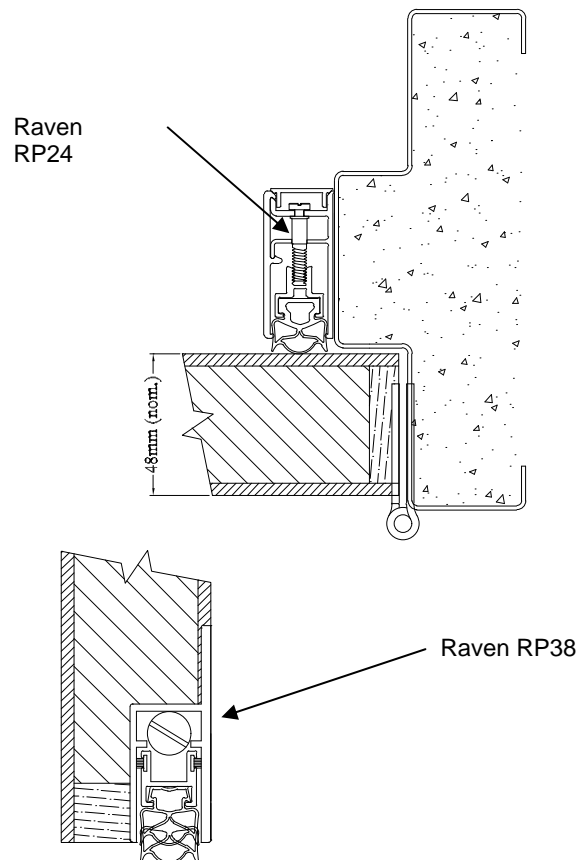
- PLY as standard

OPTIONAL EXTRAS

- Pre-hung in steel or timber frame
- Veneer, Steel or Laminate facings
- Vision panels - 300 x 200 or 600 x 100mm.
- Kick Panels of 1mm Stainless Steel to selected height
- Meets the BCA requirement for a smoke door.

INSTALLATION

Door frame must be tightly sealed against wall structure using Pyropanel Multiflex or approved alternative fire and acoustic sealant. Metal door frames will require packing with Pyropanel FR board, Fire rated plaster, concrete or mortar to achieve desired acoustic and fire rating.



HOW TO SPECIFY

"Door to be a Pyropanel AS-31-FRB acoustic door with -/240/30 FRL, installed into a packed metal door frame"*

* denotes example—delete, change or specify as required

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Distributed by:

ACOUSTIC DOOR

AS-33-FRB

TECH SHEET: AS-33-FRB

Issue: 30-07-2010

**4 hr fire rated 33 Rw single acoustic /
smoke / fire door**

DESCRIPTION

Pyropanel AS-33-FRB is a 33 Rw, 4 hour fire rated 48mm single leaf acoustic door that utilises a Raven Products RP24 perimeter seal and an RP38 bottom seal used in conjunction with a Pyropanel 'Pyrosill' sill seal

APPLICATIONS

Ideal for applications that require 4 hours of fire resistance and an acoustic rating of 33 Rw, such as warehouses, factories and fire escapes.

FEATURES

Acoustic Rating

- 33 Rw (33 STC)

Test Certificate number

- TL409(i)

Fire Resistance

- FRL -/240/30

Door Configuration

- Single leaf hung in a steel frame

Perimeter Seal

- Raven RP24

Bottom Seal

- Raven RP38, and
- Pyropanel "Pyrosill" sill seal

Thickness

- 50mm (Nominal)

Size

- Maximum Size - 3000 x 1500

Hinges

- Minimum 3 steel hinges

Frame

- Packed pressed metal frame

Finish

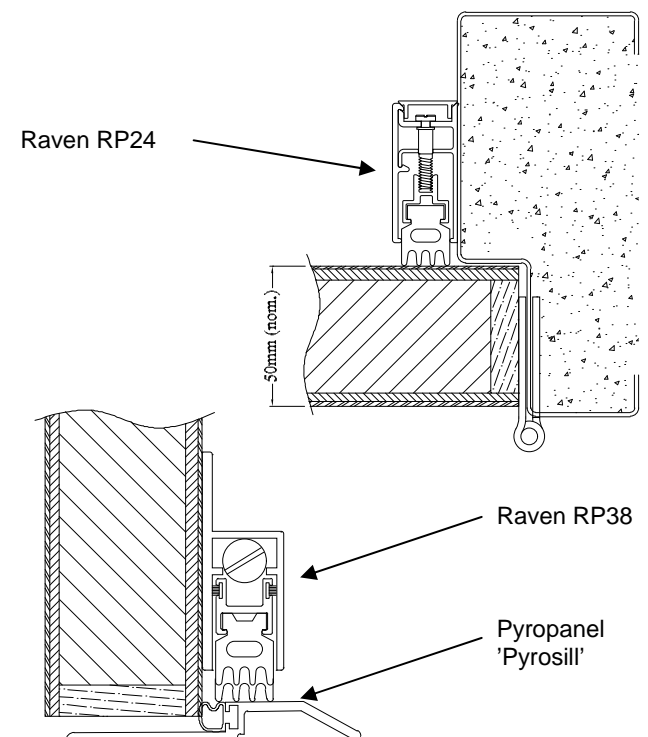
- STEEL as standard

OPTIONAL EXTRAS

- Pre-hung in steel frame
- Vision panels - 300 x 200 or 600 x 100mm.
- Kick Panels of 1mm Stainless Steel to selected height
- Meets the BCA requirement for a smoke door.

INSTALLATION

Door frame must be tightly sealed against wall structure using Pyropanel Multiflex or approved alternative fire and acoustic sealant. Metal door frames will require packing with Pyropanel FR board, Fire rated plaster, concrete or mortar to achieve desired acoustic and fire rating.



HOW TO SPECIFY

"Door to be a Pyropanel AS-33-FRB acoustic door with -/240/30 FRL, installed into a packed metal door frame"*

* denotes example—delete, change or specify as required

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ACOUSTIC DOOR

AS-BLOCK-A

TECH SHEET: AS-BLOCK-A

Issue: 02-02-2012

Non fire rated 33 Rw single acoustic / smoke door

DESCRIPTION

Pyropanel AS-BLOCK-A is a 33 Rw non fire rated 48mm single leaf acoustic door. This door comes standard with Ply facings covering a lead lined core.

APPLICATIONS

Ideal for applications that require no fire resistance, but require smoke resistance and an acoustic rating of 33 Rw, such as acoustic smoke doors in hospitals, schools and offices.

FEATURES

Acoustic Rating

- 33 STC

Test Certificate number

- RMIT 121/131/KC

Smoke Resistance

- Meets the BCA requirement for a smoke door

Door Configuration

- Single leaf, hung in a steel frame

Thickness

- 48mm (Nominal)

Size

- Maximum Size - 2400 x 1200

Hinges

- Minimum 3 steel hinges

Frame

- KDHW Timber or packed pressed metal frame

Finish

- PLY over lead as standard

Seal Combinations

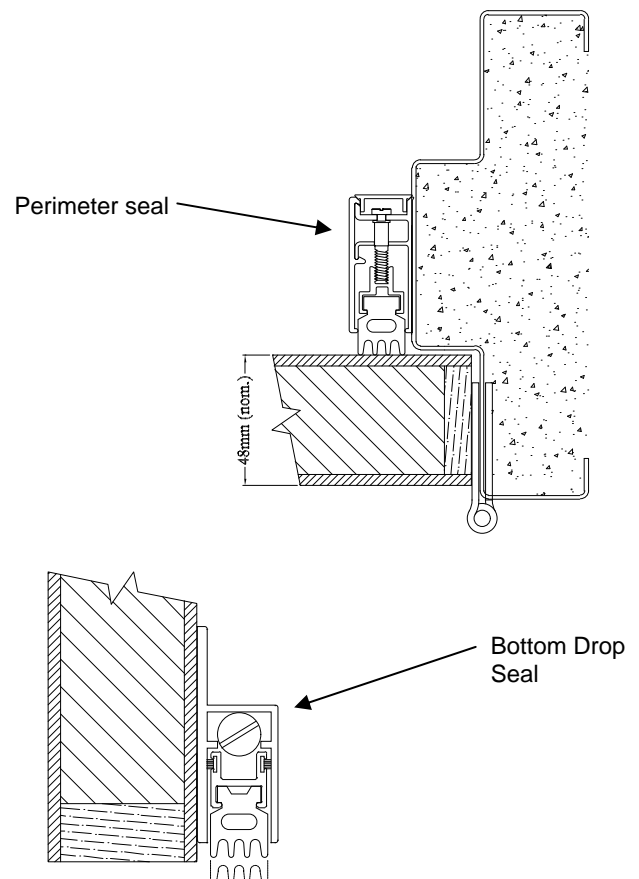
Door Type	Perimeter	Bottom	Rw
AS-BLOCK-A1	RP24	RP38	33

OPTIONAL EXTRAS

- Pre-hung in timber or steel frame
- Veneer or Laminate facings can be applied over ply face
- Vision panels - 300 x 200 or 600 x 100mm.
- Kick Panels of 1mm Stainless Steel to selected height

INSTALLATION

Door frame must be tightly sealed against wall structure using Pyropanel Multiflex or an approved alternative and acoustic sealant. Metal door frames will require packing with Pyropanel FR board, Plasterboard, concrete or mortar to achieve desired acoustic rating.



HOW TO SPECIFY

"Door to be a Pyropanel AS-BLOCK-A1 acoustic door installed into a timber* or packed metal door frame*"*

* denotes example—delete, change or specify as required

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Distributed by:

ACOUSTIC DOOR

AS-PYROL-A

TECH SHEET: AS-PYROL-A

Issue: 02-02-2012

Non fire rated 36 & 34 Rw single acoustic / smoke door

DESCRIPTION

Pyropanel AS-PYROL-A is a non fire rated 48mm single leaf acoustic. This door comes standard with LP-design metal facings and door edges.

APPLICATIONS

Ideal for applications that require no fire resistance, but require smoke resistance and an acoustic rating of 34 or 36 Rw, such as acoustic smoke doors in hospitals, schools and offices.

FEATURES

Acoustic Rating

- 36 Rw or 34 Rw

Test Certificate number

- TL409(m)

Door Weight

- Approx 40kg/m²

Smoke Resistance

- Meets BCA requirement for a smoke door

Door Configuration

- Single leaf hung in a timber or steel frame

Thickness

- 48mm (Nominal)

Size

- Maximum Size - 2500 x 1000 or 2100 x 1200

Hinges

- Minimum 3 steel hinges

Frame

- Packed pressed metal frame

Finish

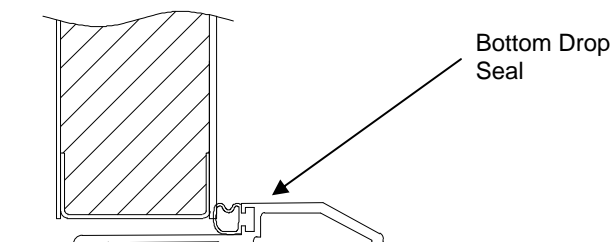
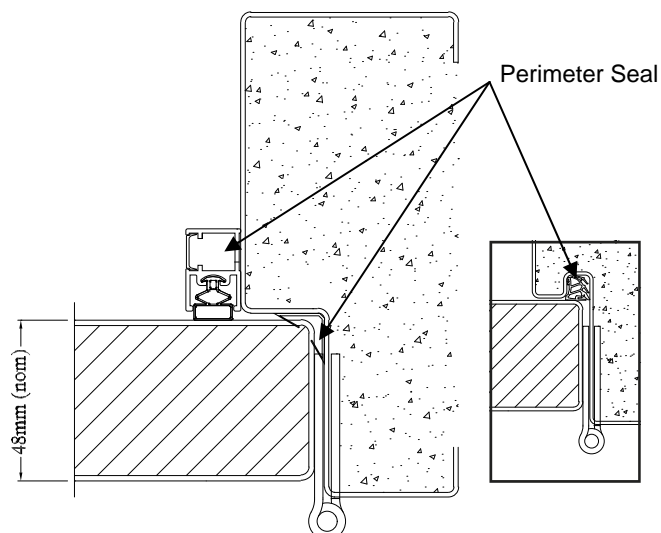
- Metal facings (LP design)

OPTIONAL EXTRAS

- Pre-hung in steel frame
- Stainless steel face and edge
- Vision panels - 300 x 200 or 600 x 100mm.

INSTALLATION

Door frame must be tightly sealed against wall structure using Pyropanel Multiflex or an approved alternative acoustic sealant. Metal door frames will require packing with Pyropanel FR board, plasterboard, concrete or mortar to achieve desired acoustic rating.



HOW TO SPECIFY

"Door to be a Pyropanel AS-PYROL-A1 acoustic door installed into a timber* or packed metal door frame*"*

* denotes example—delete, change or specify as required

Door Type	Perimeter	Bottom	Rw
AS-PYROL-A1	IS6030 + LE1515	Pyrosill	36
AS-PYROL-A2	Zero 3708A	Pyrosill	36
AS-PYROL-A3	Euroseal	Pyrosill	34

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Distributed by:

ACOUSTIC DOOR

AS-40-FRB

TECH SHEET: AS-40-FRB

Issue: 30-07-2010

**2 hr fire rated 40 Rw single acoustic /
smoke / fire door**

DESCRIPTION

Pyropanel AS-40-FRB is a 40 Rw, 2 hour fire rated 55mm single leaf acoustic door that utilises a Raven RP39 perimeter smoke / acoustic seal and a Pyropanel 'Pyrosill' bottom seal. This door comes standard with ply faces.

APPLICATIONS

Ideal for applications that requires up to 2 hours of fire resistance and an acoustic rating of 40 Rw, such as warehouses and factories.

FEATURES

Acoustic Rating

- 40 Rw (40 STC)

Test Certificate number

- T423/Spec 4

Fire Resistance

- -/120/30

Door Configuration

- Single leaf hung in a steel frame

Perimeter Seal

- Raven RP39 magnetic smoke / acoustic seal

Bottom Seal

- Pyropanel 'Pyrosill' sill seal

Thickness

- 55mm (Nominal)

Size

- Maximum Size - 2400 x 1020

Hinges

- Minimum 3 steel hinges

Frame

- Packed pressed metal frame (2 hr)

Finish

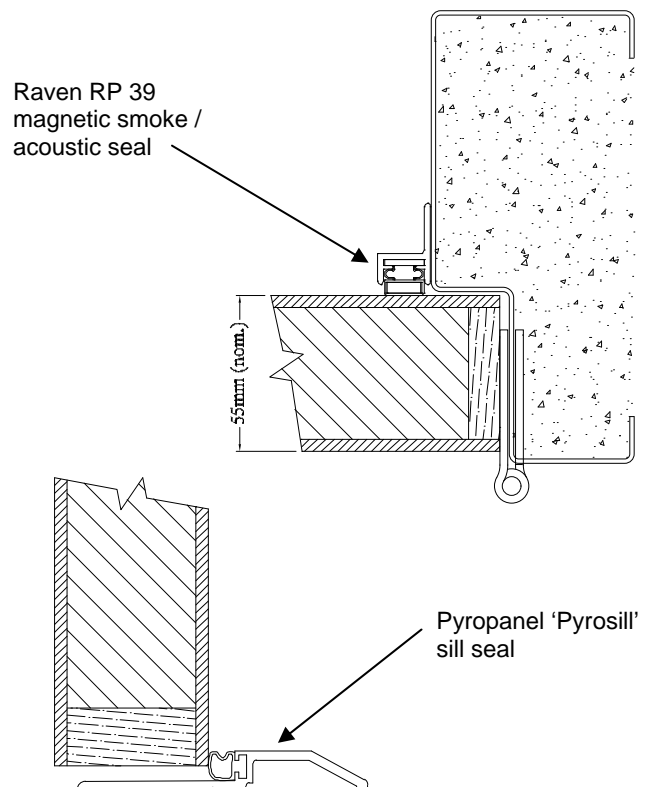
- Ply or Steel to both faces

OPTIONAL EXTRAS

- Pre-hung in steel frame
- Ply, MDF, Veneer or Laminate facings can be applied over existing face
- Stainless steel faces
- Vision panels - 300 x 200 or 600 x 100mm.
- Kick Panels of 1mm Stainless Steel to selected height
- Meets the BCA requirement for a smoke door.

INSTALLATION

Door frame must be tightly sealed against wall structure using Pyropanel Multiflex or approved alternative fire and acoustic sealant. Metal door frames will require packing with Pyropanel FR board, Fire rated plaster, concrete or mortar to achieve desired acoustic and fire rating.



HOW TO SPECIFY

"Door to be a Pyropanel AS-40-FRB acoustic door with -/120/30 FRL and installed in a packed pressed metal door frame*"*

* denotes example—delete, change or specify as required

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Distributed by:

ACOUSTIC DOOR AS-SPECIAL-A

TECH SHEET: AS-SPECIAL-A

Issue: 02-02-2012

**Non fire rated 45 Rw single acoustic /
smoke / fire door**

DESCRIPTION

Pyropanel AS-SPECIAL-A is a 45 Rw, non fire rated 48mm single leaf acoustic door that utilises a Pyropanel Euroseal® perimeter smoke / acoustic seal and a Pyropanel 'Pyrosill' bottom seal.

APPLICATIONS

Ideal for applications that require no fire resistance but require smoke resistance and an acoustic rating of 45 Rw.

FEATURES

Acoustic Rating

- 45 Rw (44 STC)

Test Certificate number

- TL409(r)

Door Weight

- Approx 85 kg/m²

Smoke Resistance

- Meets BCA requirement for Smoke door

Door Configuration

- Single leaf hung in a steel frame

Thickness

- 48mm (Nominal)

Size

- Maximum Size - 2400 x 1200

Hinges

- Minimum 4 heavy duty steel hinges, or continuous piano hinge

Frame

- Pressed metal frame (back-grouted)

Finish

- Steel to both faces & edges

Seal Combinations

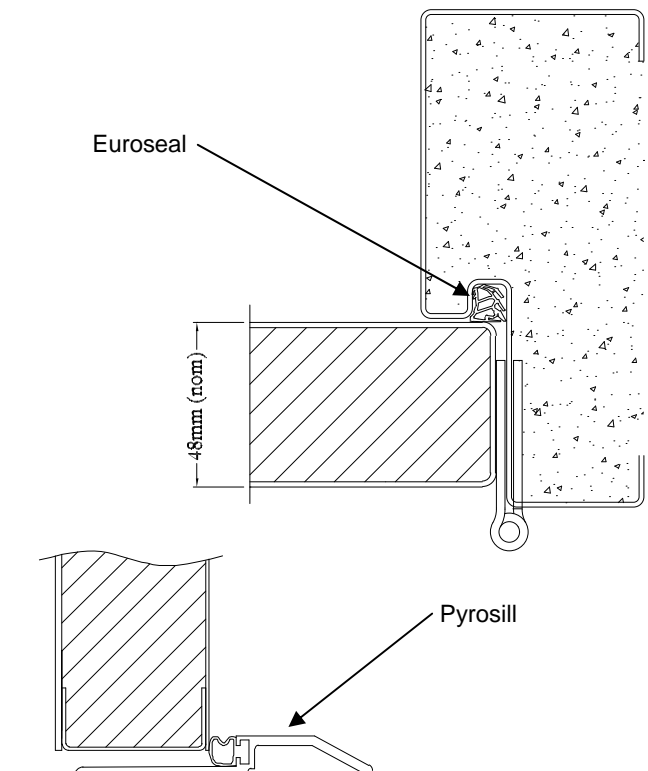
Door Type	Perimeter	Bottom	Rw
AS-SPECIAL-A1	EUROSEAL	PYROSILL	45

OPTIONAL EXTRAS

- Pre-hung in steel frame
- Stainless steel faces

INSTALLATION

This door is very heavy, and the frame must be securely attached to the wall structure. Frame must then be tightly sealed to the wall structure using Pyropanel Multiflex or approved alternative acoustic sealant. Metal door frames will require packing with concrete or mortar to achieve desired acoustic rating.



HOW TO SPECIFY

"Door to be a Pyropanel AS-SPECIAL-A1 acoustic door with Bullet resistance * installed in a packed pressed metal door frame*"*

* denotes example—delete, change or specify as required

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ACOUSTIC DOOR AS-46-INTERCON

TECH SHEET: AS-46-INTERCON

Issue: 30-07-2010

**1 hour fire rated 46 Rw twin leaf
acoustic / smoke / fire door**

DESCRIPTION

Pyropanel AP-46-INTERCON a 46 Rw, 1 hour fire rated twin door leaf arrangement, consisting of a 47mm one hour door and a 42mm non fire rated door in a single frame, both with Raven RP39 perimeter seals and RP38 bottom seals, and additional RP76 perimeter seals on the fire rated leaf

APPLICATIONS

Ideal for interconnecting hotel rooms that may require up to 1 hour of fire rating and an Rw rating of 46.

FEATURES

Acoustic Rating

- 46 Rw (46 STC)

Test Certificate number

- DSIR 360/445/89(x)

Fire Resistance

- -/60/30

Door Configuration

- Two doors in a single frame

Perimeter Seal

- Raven RP39 magnetic acoustic / smoke seals to both leaves, and,
- Raven RP76 to fire rated leaf

Bottom Seal

- Raven RP38 to both leaves

Thickness

- 47mm (nominal) fire door, and
- 42mm (nominal) non fire rated door

Size

- Maximum Size - 2400 high x 1200 wide
- Minimum Size - 1980 high x 810 wide

Hinges

- Minimum 3 steel hinges per leaf

Frame

- Double rebated KDHW timber or steel door frame designed to receive one door on each side. The separation distance between the leaves is 65mm.

Finish

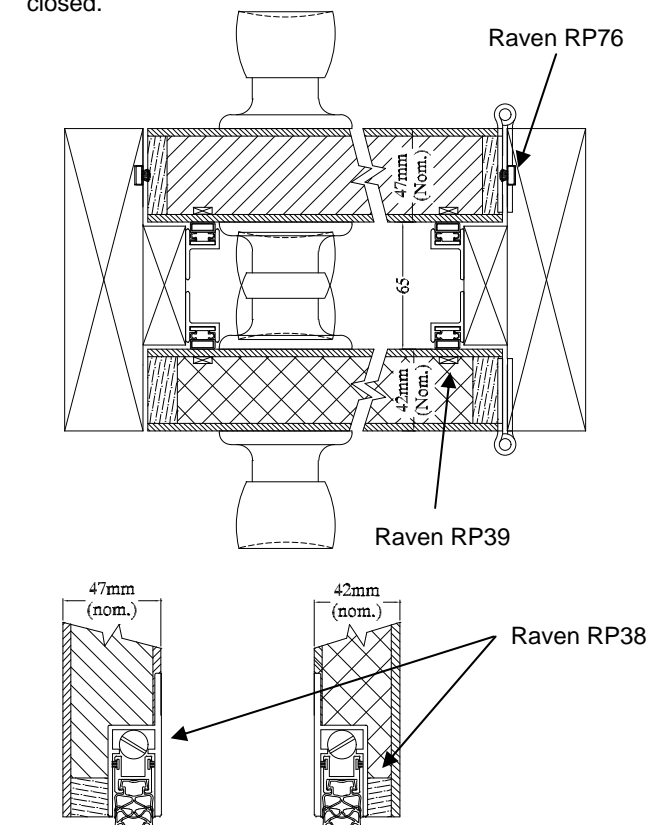
- MDF faces to both doors as standard

OPTIONAL EXTRAS

- Pre-hung in steel or timber frame
- Ply, Veneer, MDF or Laminate facings of existing faces
- Steel and Stainless steel facings
- Vision panels - 300 x 200 or 600 x 100mm.
- Kick Panels of 1mm Stainless Steel to selected height
- Meets the BCA requirement for a smoke door

INSTALLATION

Door frame must be tightly sealed against wall structure using Pyropanel Multiflex or approved alternative fire and acoustic sealant. Metal door frames will require packing with Pyropanel FR board, Fire rated plaster, concrete or mortar to achieve desired acoustic rating. Internal door hardware must be off set to prevent any clashing when both leaves are closed.



HOW TO SPECIFY

“Door to be a Pyropanel AP-46-INTERCON acoustic door pair, installed into a Pyropanel timber / packed metal door frame”*

* denotes example—delete, change or specify as required

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Distributed by:

ACOUSTIC DOOR AS-SPECIAL-B

TECH SHEET: AS-SPECIAL-B

Issue: 02-02-2012

**Non fire rated 47 Rw single acoustic /
smoke door**

DESCRIPTION

Pyropanel AS-SPECIAL-B is a 47 Rw, non fire rated 48mm single leaf acoustic door

APPLICATIONS

Ideal for applications that require no fire resistance but require smoke resistance and an acoustic rating of 47 Rw.

FEATURES

Acoustic Rating

- 47 Rw (46 STC)

Test Certificate number

- TL409(q)

Door Weight

- Approx 84 kg/m²

Fire Resistance

- Nil

Door Configuration

- Single leaf hung in a steel frame

Thickness

- 48mm (Nominal)

Size

- Maximum Size - 2400 x 1200

Hinges

- Minimum 4 heavy duty steel hinges, or continuous piano type hinge

Frame

- Pressed metal frame (back-grouted)

Finish

- Steel to both faces and edges

Seal Combinations

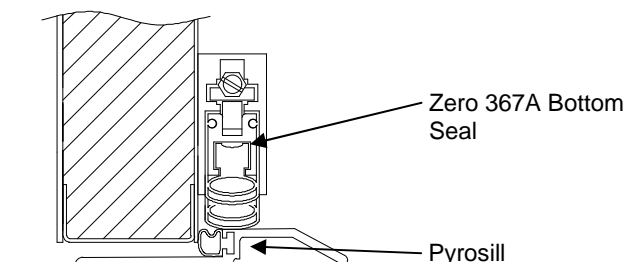
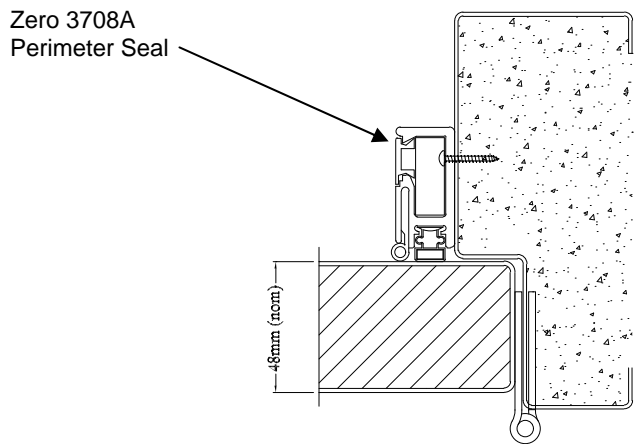
Door Type	Perimeter	Bottom	Rw
AS-SPECIAL-B1	Zero 3708A	Zero 367A + PYROSILL	47

OPTIONAL EXTRAS

- Pre-hung in steel frame
- Stainless steel faces
- Meets the BCA requirement for a smoke door.

INSTALLATION

This door is very heavy, and the frame must be securely attached to the wall structure. Frame must then be tightly sealed to the wall structure using Pyropanel Multiflex or an approved alternative acoustic sealant. Metal door frames will require packing with concrete or mortar to achieve the desired acoustic rating.



HOW TO SPECIFY

"Door to be a Pyropanel AS-SPECIAL-B1 acoustic door with Bullet resistance * installed in a packed pressed metal door frame*"*

* denotes example—delete, change or specify as required

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ACOUSTIC DOOR

AP-30-PAN-E

TECH SHEET: AP-30-PAN-E

Issue: 30-07-2010

30 Rw acoustic / smoke door PAIR

DESCRIPTION

Pyropanel AP-30-PAN-E is a 30 Rw 48mm acoustic door PAIR that utilises a Raven Products bottom seal, a Pyropanel Euroseal concealed perimeter seal, and a Pyropanel rebated rubber meeting stile.

APPLICATIONS

Ideal for unit entry applications or anywhere that requires 60 minutes of fire resistance and an acoustic rating of 30 Rw in a pair configuration.

FEATURES

Acoustic Rating

- 30 Rw (30 STC)

Test Certificate number

- TL373(n)

Fire Resistance

- (Fire rated construction only)

Door Configuration

- Single acting pair configuration hung in a steel or timber frame.

Perimeter Seal

- Pyropanel Euroseal® concealed smoke / acoustic seal

Bottom Seal

- Raven RP99

Meeting Stile

- Pyropanel rubber rebated meeting stile

Thickness

- 48mm (Nominal)

Size

- Maximum Size (overall) - 2420 high x 2040 wide

Hinges

- Minimum 3 steel hinges

Frame

- Pyropanel KDHW timber or packed pressed metal frame

Finish

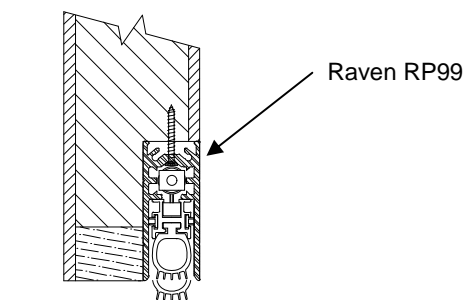
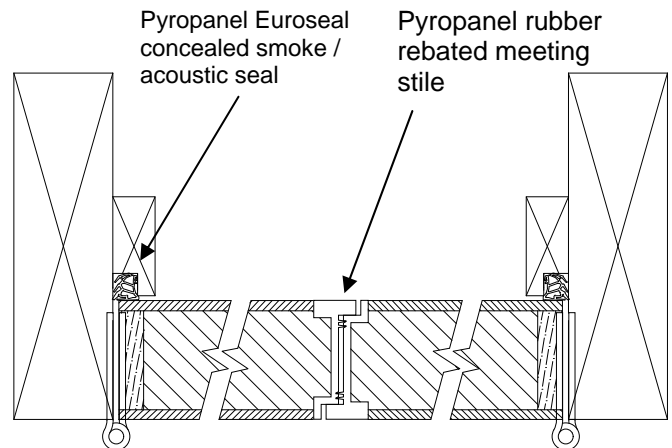
- MDF as standard

OPTIONAL EXTRAS

- Pre-hung in steel or timber frame
- Ply, Veneer, Steel or Laminate facings
- Vision panels - 300 x 200 or 600 x 100mm.
- Kick Panels of 1mm Stainless Steel to selected height
- Meets the BCA requirement for a smoke door.

INSTALLATION

Door frame must be tightly sealed against wall structure using Pyropanel Multiflex or approved alternative fire and acoustic sealant. Metal door frames will require packing with Pyropanel FR board, Fire rated plaster, concrete or mortar to achieve desired acoustic rating.



HOW TO SPECIFY

"Door to be a Pyropanel AP-30-PAN-E acoustic door pair, installed into a Pyropanel Fire rated timber / packed metal door frame"*

* denotes example—delete, change or specify as required

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ACOUSTIC DOOR

AP-31-PAN

TECH SHEET: AP-31-PAN

Issue: 30-07-2010

31 Rw acoustic / smoke door PAIR

DESCRIPTION

Pyropanel AP-31-PAN-E is a 31 Rw, 48mm leaf acoustic door PAIR that utilises an RP10 Raven Products bottom seal, an RP99 Raven Products bottom seal, and a Pyropanel rebated rubber meeting stile.

APPLICATIONS

Ideal for unit entry applications or anywhere that requires an acoustic rating of 31 Rw in a pair configuration.

FEATURES

Acoustic Rating

- 31 Rw (31 STC)

Test Certificate number

- TL373(m)

Fire Resistance

- (Fire rated construction only)

Door Configuration

- Single acting pair configuration hung in a steel or timber frame.

Perimeter Seal

- Raven RP10

Bottom Seal

- Raven RP99

Meeting Stile

- Pyropanel rubber rebated meeting stile

Thickness

- 48mm (Nominal)

Size

- Maximum Size (overall) - 2420 high x 2040 wide

Hinges

- Minimum 3 steel hinges

Frame

- Pyropanel KDHW timber or packed pressed metal frame

Finish

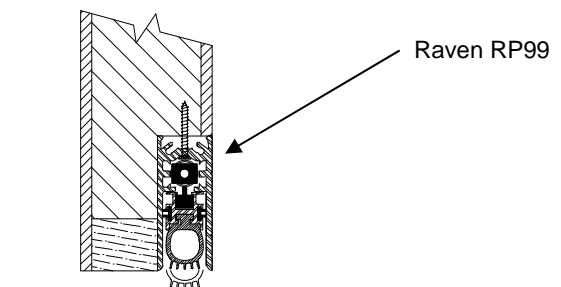
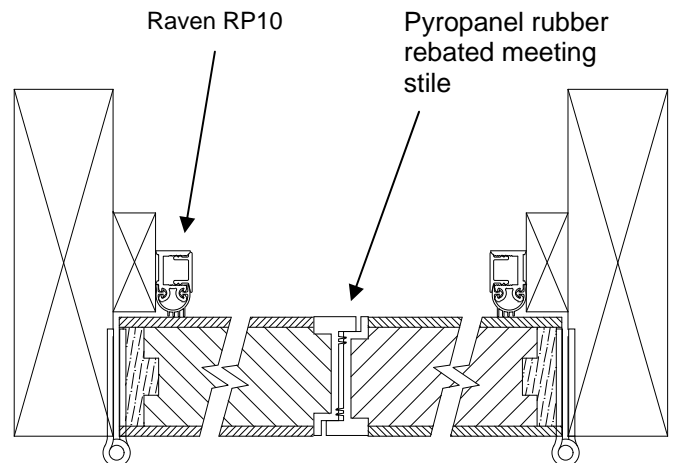
- MDF as standard

OPTIONAL EXTRAS

- Pre-hung in steel or timber frame
- Ply, Veneer, Steel or Laminate facings
- Vision panels - 300 x 200 or 600 x 100mm.
- Kick Panels of 1mm Stainless Steel to selected height
- Meets the BCA requirement for a smoke door

INSTALLATION

Door frame must be tightly sealed against wall structure using Pyropanel Multiflex or approved alternative fire and acoustic sealant. Metal door frames will require packing with Pyropanel FR board, Fire rated plaster, concrete or mortar to achieve desired acoustic rating.



HOW TO SPECIFY

"Door to be a Pyropanel AP-31-PAN acoustic door pair installed into a Pyropanel Fire rated timber / packed metal door frame".*

* denotes example—delete, change or specify as required

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ACOUSTIC DOOR

AP-41-PYROL

TECH SHEET: AP-41-PYROL

Issue: 30-07-2010

Non fire rated 41 Rw acoustic / smoke door PAIR

DESCRIPTION

Pyropanel AP-41-PYROL is a 41 Rw, non fire rated 56mm leaf acoustic door PAIR that utilises 3708A 'Zero' and B119W perimeter seals, 367A 'Zero' and Pyropanel 'Pyrosill' sill seals, and a Pyropanel Rubber rebated meeting stile seal. This door has one steel face, one ply face as standard.

APPLICATIONS

Ideal for applications that do not require fire rating but require smoke resistance and acoustic rating of 41 Rw in a pair configuration. This is a lightweight steel faced door that has excellent sound reduction characteristics.

FEATURES

Acoustic Rating

- 41 Rw (41 STC)

Test Certificate number

- TL373(p)

Fire Resistance

- Nil

Door Configuration

- Single acting pair configuration hung in a steel or timber frame.

Perimeter Seal

- 3798A "Zero" seal, and
- B119W seal

Bottom Seal

- 367A "Zero" seal, and
- Pyropanel 'Pyrosill'

Meeting Stile

- Pyropanel rubber rebated meeting stile

Thickness

- 56mm (Nominal)

Size

- Maximum Size (overall) - 2400 high x 1200/1200 wide

Frame

- Pyropanel KDHW timber or packed pressed metal frame

Finish

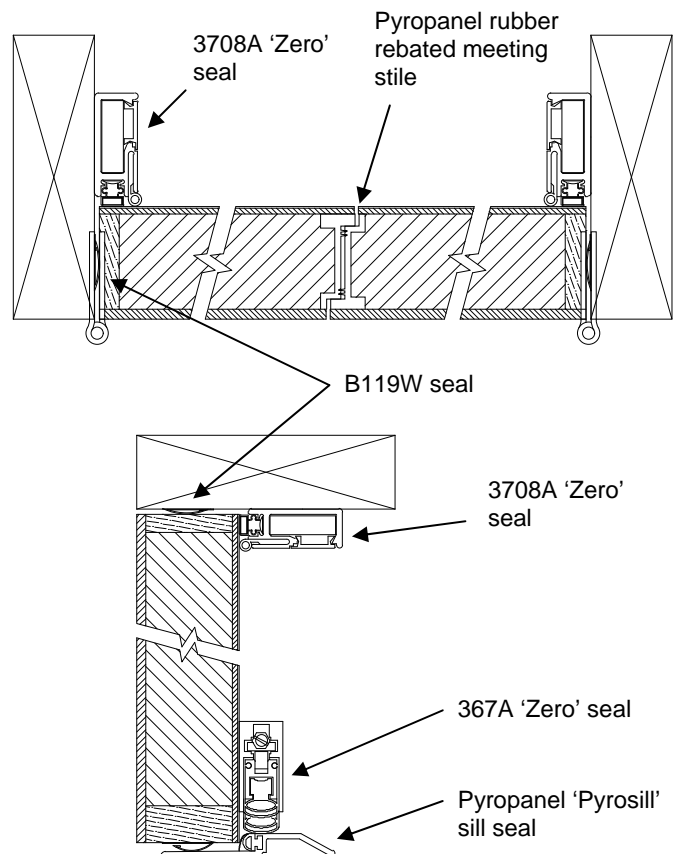
- Steel to one face, ply to other face as standard (steel to both faces is available on request).

OPTIONAL EXTRAS

- Pre-hung in steel or timber frame
- Ply, Veneer, MDF or Laminate facings over existing faces
- Stainless steel facings
- Vision panels - 300 x 200 or 600 x 100mm.
- Kick Panels of 1.2mm Stainless Steel to selected height
- Meets the BCA requirement for a smoke door

INSTALLATION

Door frame must be tightly sealed against wall structure using Pyropanel Multiflex or approved alternative fire and acoustic sealant. Metal door frames will require packing with Pyropanel FR board, Fire rated plaster, concrete or mortar to achieve desired acoustic rating.



HOW TO SPECIFY

"Door to be a Pyropanel AP-41-PYROL acoustic door pair, installed into a Pyropanel timber / packed metal door frame"*

* denotes example—delete, change or specify as required

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Special Purpose Doors System Guide



SPECIAL PURPOSE DOORS SYSTEM GUIDE

Issue: 15-11-2011

What are Special Purpose Doors?

Many doors are required to provide a specific performance level, or a combination of performance levels. In some cases these fall in to distinct categories, such as fire resistant or acoustic, whilst in others the measure may be more obscure, such as ballistic or radiation resistance. Typically a "Special Purpose" door is one which has been designed, tested and constructed to suit a nominated performance level. In most cases either an Australian or International Standard will be used to nominate the test method, however many doors are constructed to meet specific individual designs.

In addition to the range of pre-designed special purpose doors specified in this manual, Pyropanel has a research and development division that specializes in developing custom designed doors to meet the particular performance characteristics that may be required in various applications. If you do not find a product that meets your specific requirements, please phone Pyropanel Developments directly and ask to speak to a technical consultant in the Research and Development division who will be more than happy to determine how best we can meet your needs.

Pyropanel also manufacture a huge range of certified fire doors, smoke doors, life safety doors, acoustic doors, fire rated Glazing and other passive fire protection products, that are generally located in other sections of this technical manual - Please refer to the Pyropanel website or the Introduction section in the full manual if you can not find a product for your particular requirement in this section.

Advantages and Features

- Custom design to suit almost any requirement
- Certified products
- Large range
- Personalised service
- Readily available technical information
- Available through a network of licensed manufacturers and distributors Australia wide, and throughout many other countries

Custom Designed Special Purpose Doors

When contacting Pyropanel regarding any type of custom designed special purpose door, the following questions are an example of the typical information that may be required:

1. What are the specific performance measures that the door will be required to meet?
2. To what standard, if any, will the door be required to meet?
3. What size will the door be?
4. Does it require special hinging or operating systems?
5. Are there any nominated surface finish requirements?
6. Will the door be exposed to weather?
7. Is the door in a high traffic area?
8. Are site conditions important?
9. Will access for installation be a consideration in the door design (eg, doors in tunnels)?

Model	Features	Tech Sheet
Special Purpose Doors - Pre Designed Solutions		
Bullet resistance doors	A variety of bullet resistant doors to meet the various classifications of AS2343, from Class GO (9mm handgun) through to the AK-47 assault rifle.	SP-BR01
RF doors	Fully lined doors that are designed prevent the passage of RF radiation, especially for rooms where MRI equipment is used.	SP-RF01
Substation doors	Manufactured to the specification and details required by the State Electricity Commission of Victoria, these doors are available in 3 'off the shelf' sizes, or as custom configurations.	SP-SUB

- Please refer to the Tech Sheet indicated for details on the particular door model required
- Please refer to the Pyropanel Website for the latest Technical information
- If you do not find a product to suit your requirements, please contact Pyropanel Developments for the latest information on our comprehensive range of Passive Fire Protection and Special Purpose Products



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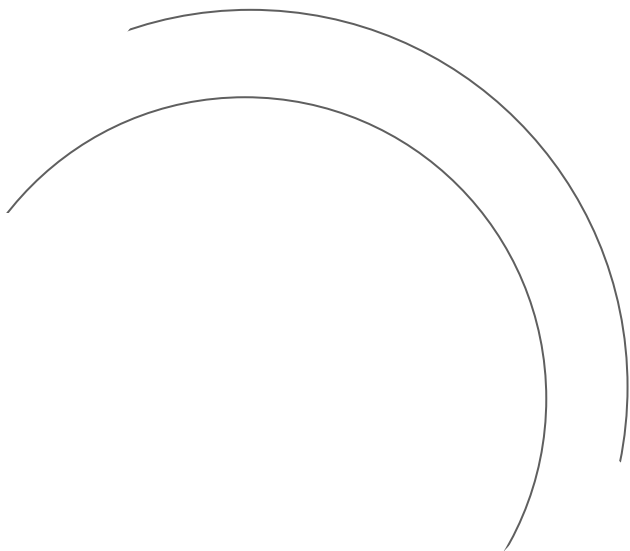
SPECIAL PURPOSE DOORS SYSTEM GUIDE

Issue: 15-11-2011

Availability

All Pyropanel products are available throughout Australia and various other countries through a network of licensed manufacturers and distributors. For a current contact list, please contact Pyropanel Developments or visit our website at www.pyropanel.com.au.

[Pyropanel > Fire Doors > Smoke Doors > Life Safety Doors > Fire Rated Glazing > Passive Products > Special Purpose Doors](#)



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PYROPANEL®

BULLET RESISTANT DOORS

Special Purpose Bullet Resistant Doorsets

TECH SHEET: SP-BR01

Issue: 01-11-05

Range of bullet resistant doorsets that have been tested to Australian Standards for a variety of resistance classifications

DESCRIPTION

Pyropanel Bullet Resistant doorsets are tested to Australian Standards, and are available in a range of models to suite all applications. They have a nominal thickness of 50-55mm, and are supplied with 2mm metal door frames, factory fitted ball bearing 100mm x 100mm butt hinges (4qty), or continuous piano hinges. All locksets and door hardware are required to be factory fitted to ensure no loss of integrity.

APPLICATIONS

Pyropanel Bullet Resistant doorsets are suitable for a wide range of applications such as banks, embassies, prisons, cash rooms, apartment entry doors, etc.

FEATURES

- Wide range of models covering AS classifications of G0, G1, G2, R1, R2, S0, and S1, as well as the AK47 urban assault rifle.
- Fire Resistant construction available up to -/120/30.
- Smoke and sound resistant (with seals).
- Bullet resistant vision panels utilising LEXGUARD laminate glass.
- Finishes include Zinc, Galvanised, Stainless Steel, Laminate, Ply or MDF.

CLASSIFICATION TABLE

(AS/NZS 2343:1997)

Class	Weapon Type	Calibre	Ammunition	Range
G0	Hand Gun	9mm	7.4g standard bullet	3m +/- 10mm
G1	Hand Gun	.357 Magnum	10.2g flat nose bullet	3m +/- 10mm
G2	Hand Gun	.44 Magnum	15.6g flat nose bullet	3m +/- 10mm
R1	Rifle	5.56mm	3.6g bullet	10m +/- 20mm
R2	Rifle	7.62mm	9.3g bullet	10m +/- 20mm
S0	Shotgun	12 gauge full choke	32g 70mm no.6 SG shot	3m +/- 10mm
S1	Shotgun	12 gauge full choke	24.8g 70mm single slug	3m +/- 10mm
AK-47	Urban Assault rifle	7.62mm	8.3g jacketed bullet	10m +/- 20mm

MODELS AVAILABLE

Model	Bullet Resistance	Fire resistance (fire rated construction)
BR-A	G0, G1, G2, S0, S1	Up to -/120/30
BR-B	R1, G0, G1, G2, S0, S1	Up to -/120/30
BR-C	R2, G0, G1, G2, S0, S1, AK-47	Up to -/120/30

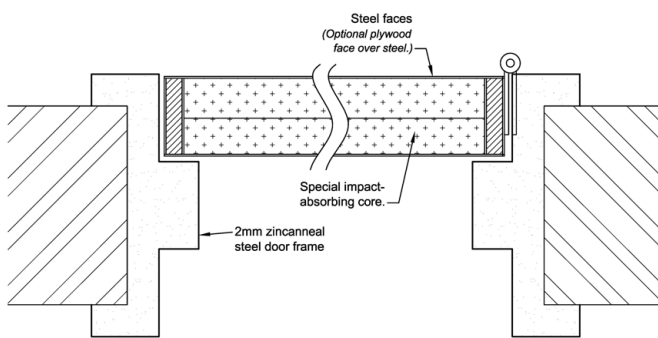


Illustration of typical doorset with frame solidly grouted into masonry wall. Special bullet resistant frames can be designed for stud wall applications

HOW TO SPECIFY

"Door to be a Pyropanel Bullet resistant doorset, 50-55mm mm thick, -/120/30 Fire rated construction, with steel / ply / mdf* facings installed in a Pyropanel pressed metal door frame solidly packed with concrete"*

* denotes example—delete or change or specify as required



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RF DOOR

Special Purpose RF Door

TECH SHEET: SP-RF01

Issue: 01-11-05

Fully lined doors designed to passage of electromagnetic radiation and RF radiation into & out of specially rooms

DESCRIPTION

Fully lined door designed to prevent the passage of electromagnetic radiation and RF radiation into and out of rooms.

APPLICATIONS

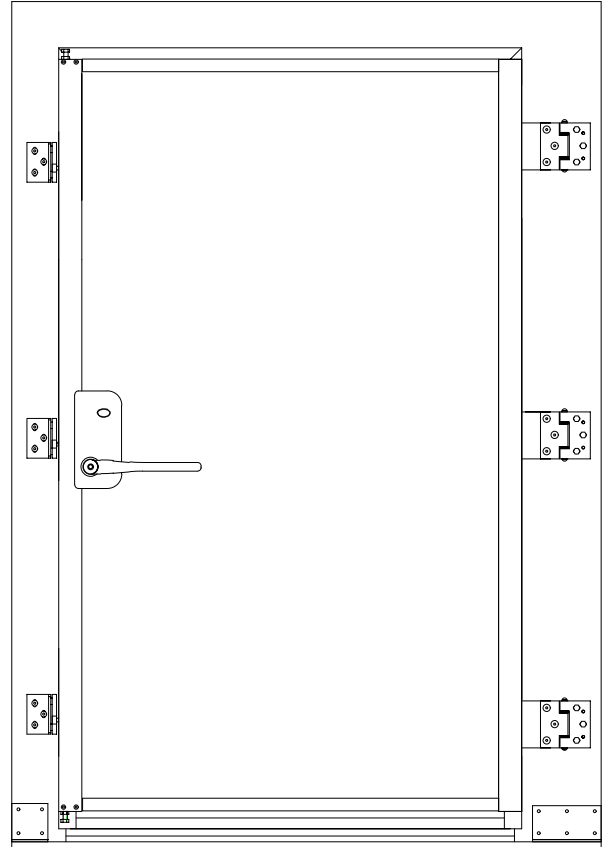
RF Doors are designed specifically for MRI (Magnetic Resonance Imaging) rooms in hospitals. They prevent electromagnetic (EM) and RF radiation from exiting the room, but more importantly prevent EM and RF radiation from entering the room and interfering with the imaging equipment. Designed especially for use with MRI and other RF equipment rooms in hospitals, laboratories, universities, etc.

FEATURES

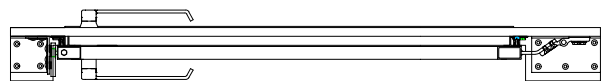
- The door is also designed to achieve a high acoustic attenuation due to the high sound pressure levels developed by modern RF equipment.
- The edges of the door are sealed with special seals which block EM and electrically link the door to the specially designed room, which is grounded.
- Doors are available in RHH (right hand hinged) or LHH (left hand hinged), and open inwards, or open outwards.
- The standard model has been designed to resist a particular range of electromagnetic radiation, and is not suitable for all applications - custom designs for other applications are available - please contact Pyropanel for more information.

HARDWARE

- Custom designed Stainless Steel lever action handles supplied to both faces.
- Heavy Duty adjustable hinges.
- 3 point cam-action latching mechanism.
- Ply or Stainless steel on outside face.
- Incorporates electromagnetic resistant seals to all 4 edges.



Elevation of typical RF door assembly



Plan view of typical RF door assembly

HOW TO SPECIFY

"Door to be a Pyropanel RF Door, installed as part of a custom designed RF room".

SUB-STATION DOORS

Special Purpose Sub-Station Doorsets

TECH SHEET: SP-SUB

Issue: 22-11-11

Metal Clad Doorset especially approved for use in Substations

DESCRIPTION

Manufactured to the specification of the Electricity Supply Authorities, these doorsets can be made for individual project requirements, and are available as single or double leaf as well as cubicle sets, all complete with frames and hardware.

APPLICATIONS

Ideal for substations in hospitals, schools, public buildings etc., or anywhere that requires a metal door with excellent ventilation.

FEATURES

- Fully weather and vermin proof, fixed louver aluminium ventilations sealed to door with waterproof compound
- Ventilators constructed from AS1866-1976 aluminium
- Door faces constructed from 1.6mm flat galvanised sheeting, fastened with pop sealed rivets at 150mm spacings.
- Welded construction leaf frame, as per AS1554, Pt1 1974
- Vents 0.015mm clear anodised finish
- Door frames constructed from 40 x 40 x 5mm mild steel angle, welded, ground flush, and prime painted
- Door leaves hung on 3 No. 100mm plated steel hinges, factory fitted to frames.
- Center door can be removed on DSUB3 to provide just under 3600 clear opening
- Outer doors open 180°
- Special sizes are available for all models
- Active leaf on DSUB2 or DSUB3 to be specified on plans
- DSUB3 supplied Pre-Hung in modular form for ease of transport and handling - easily assembled on site

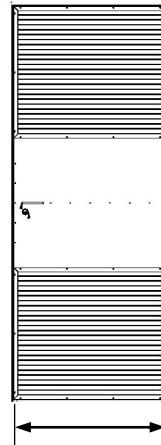
HARDWARE

- Lockwood 211 Stream Latch
- 'D' pull handle
- Tower Bolts (DSUB2 and DSUB3)
- Lockwood 9000 series Panic Bar (DSUB3 only)
- Panic Bolt (DSUB3 only)

OPTIONAL EXTRAS

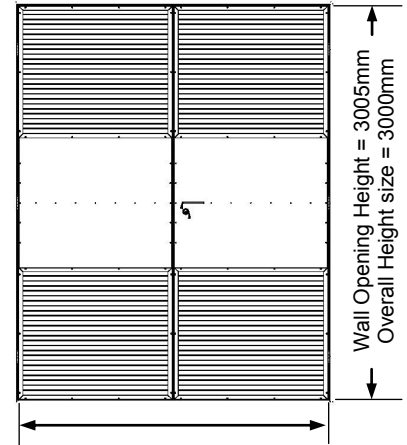
- Single Panic Bar (DSUB1 and 2)
- Lockwood 3572 Mortise Lock (DSUB1, 2 and 3)
- Pressed metal door frame (DSUB1, 2 and 3)
- Can be upgraded to Blast Resistance (on assessment)

DSUB1



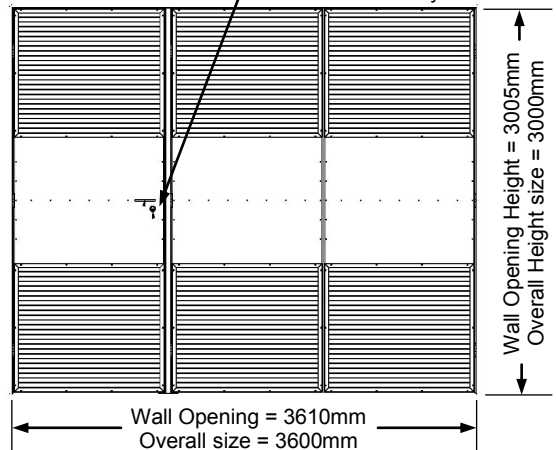
Wall Opening = 1202mm
Overall size = 1192mm

DSUB2



Wall Opening = 2380mm
Overall size = 2370mm

DSUB3



Wall Opening = 3610mm
Overall size = 3600mm

MODELS

Model	Leaf	Wall Opening	Overall Size
DSUB1	Single	3005 x 1192	3000 x 1192
DSUB2	Pair	3005 x 2380	3000 x 2370
DSUB3	Triple	3005 x 3610	3000 x 3600

HOW TO SPECIFY

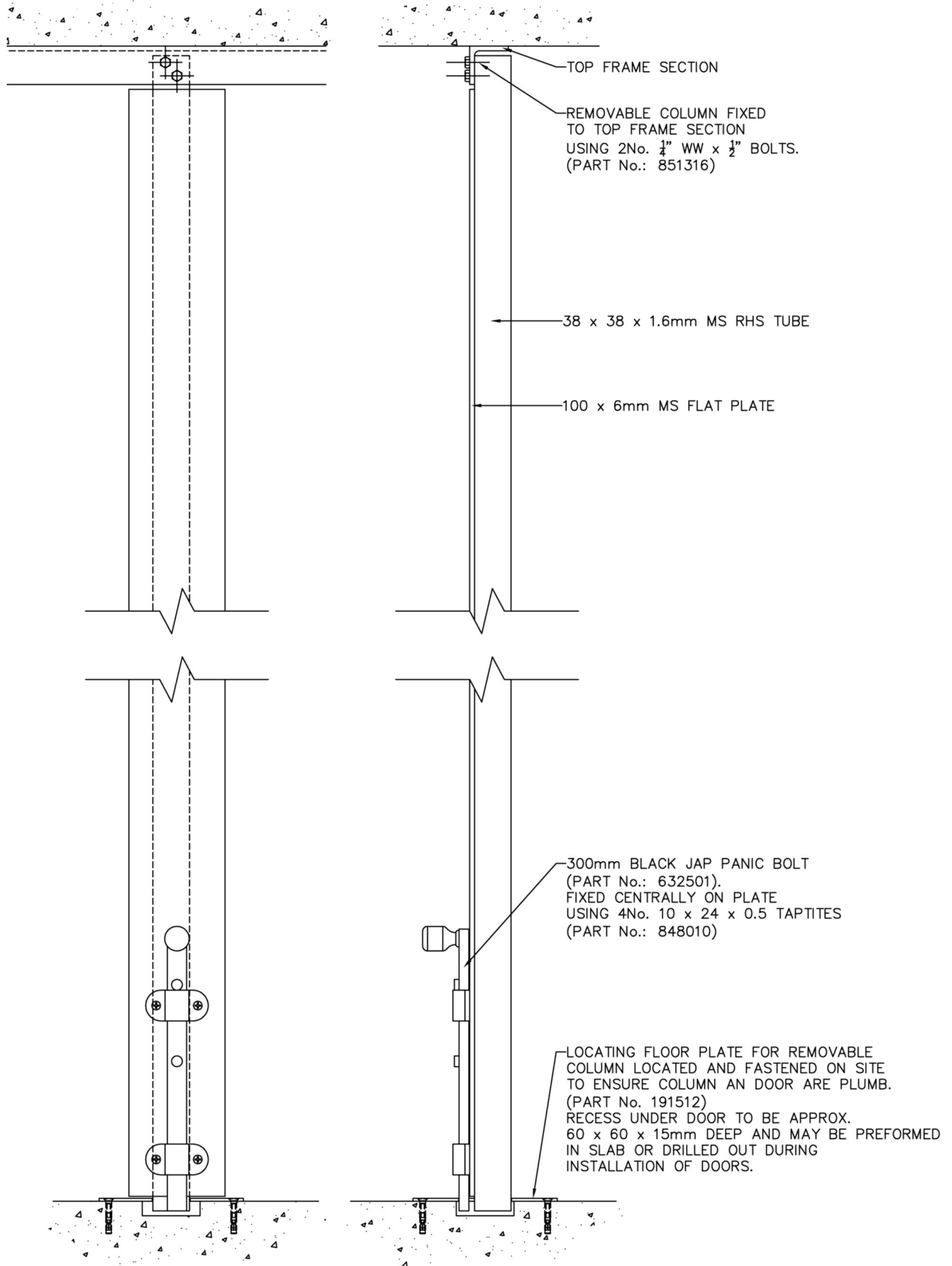
"Door to be a Pyropanel Substation door Model DSUB3 with the following options: (eg, Mortise lock, pressed metal door frames, etc).*

* denotes example—delete or change or specify as required



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Access Panels System Guide



ACCESS PANELS SYSTEM GUIDE

Issue: 03-05-2011

Introduction

Pyropanel Developments have developed a range of wall, ceiling and floor access panels that are designed to meet the requirements of most applications with modern building design. Fully certified to Australian Standards and available in a variety of fire resistance levels, these panels provide cost effective solutions that are readily available and easy to install.

Applications

Commercial and high rise residential buildings where access to services is required through fire rated walls, ceilings and floors

Models available

Model	FRL	Panel Thickness (mm)	Maximum panel size (mm)	Facing	Tech sheet
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Wall Panels

PWAP-60/60	-/60/60	48	2400 x 1000	Timber or steel	PANEL-01
PWAP-120/60	-/120/60	48	2400 x 1000	Timber or steel	PANEL-02
PWAP-120/120	-/120/120	73	2400 x 1000	Timber or steel	PANEL-02
PWAP-240/60	-/240/60	48	2200 x 600	Timber or steel	PANEL-03
PWAP-240/120	-/240/120	73	2200 x 600	Timber or steel	PANEL-03

Lift shaft wall panel

Model	FRL	Panel Thickness	Maximum panel size	Facing	Tech sheet
PLWAP-90/60	-/90/60	48mm	1570 x 470	Timber or Steel	PANEL-04

Plasterboard ceiling access panel

Model	FRL	Panel Thickness	Maximum panel size	Facing	Tech sheet
PCAP-CP03	-/60/60	48mm	600 x 600	Timber or Steel	PANEL-05

Lift motor room hatch / floor access panel

Model	FRL	Panel Thickness	Maximum panel size	Facing	Tech sheet
PFAP-240/120	-/240/120	48mm	1700 x 500	Timber or Steel	PANEL-06
PFAP-120/120	-/120/120	48mm	1275 x 850	Timber or Steel	PANEL-06



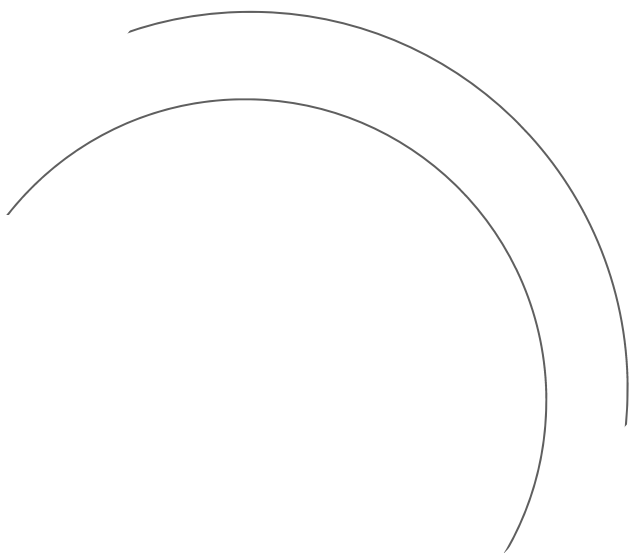
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Availability

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[Pyropanel > Fire Doors > Smoke Doors > Life Safety Doors > Fire Rated Glazing > Passive Products > Special Purpose Doors](#)



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FIRE RATED ACCESS PANEL

1hr fire rated wall access panel

TECH SHEET: PANEL-01

Issue: 03-05-2011

Hinged or screw fixed wall access panel with 1 hr fire rating

DESCRIPTION

Hinged or screw fixed wall access panel suitable for installation in masonry or stud walls with a pressed metal frame or T-section frame, with a -/60/60 fire rating.

APPLICATIONS

Shops, offices, apartments and any application where access needs to be achieved through a fire rated wall.

FEATURES

- Fully insulated for 60 minutes
- MDF, ply or steel facing available
- Suitable for masonry, concrete or plaster walls
- Screw fixed at 500mm centres on all sides, or hinged with budget locks at 500mm centres on lock side.
- 38mm or 48mm thick
- Medium and hot temperature smoke seals, fire seals, and acoustic seals available
- Standard 4 sided pressed metal door frame with 25mm doorstops available in a variety of profiles (see *fire rated frame profiles*), or
- T-Section frame available (screw fix only) comprised of 2 welded 25mm x 25mm x 3mm steel angles
- Single leaf configurations only
- Recommended hinge configuration:
 - up to 2040 x 920 = 3 hinges.
 - up to 2400 x 1000 = 4 hinges.

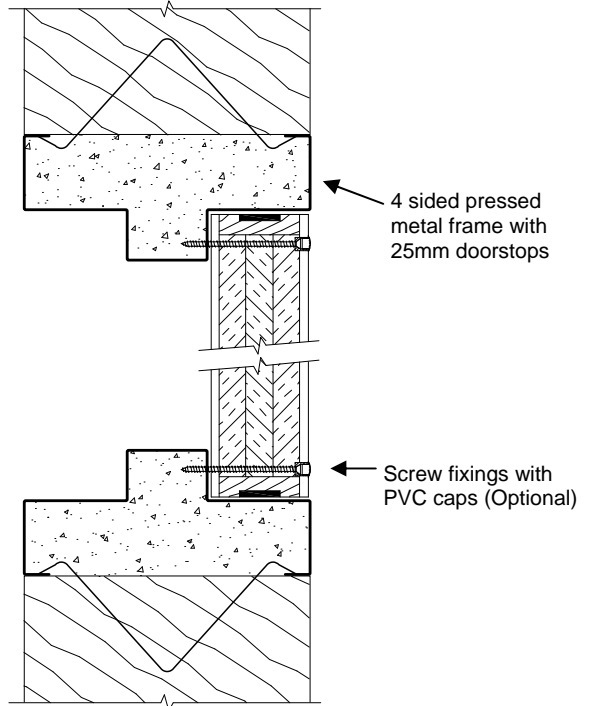
MODELS

Model	FRL	Thickness (mm)	Max size (mm)
PWAP-60/60	-/60/60	48	2400 x 1000

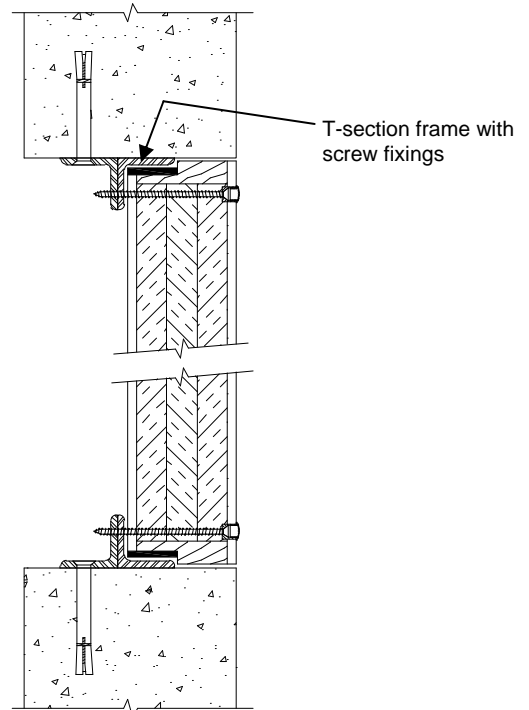
HOW TO SPECIFY

"Eg. Access panel to be a Pyropanel fire rated wall access panel PWAP-60/60, 38 / 48mm thick*, -/60/60, MDF face*, with hinges and budget locks / screw fixings*"

* denotes example - delete, change or specify as required.



Wall panel with pressed metal door frame



Wall panel with T-Section frame



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FIRE RATED ACCESS PANEL

2hr fire rated wall access panel

TECH SHEET: PANEL-02

Issue: 03-05-2011

Hinged or screw fixed wall access panel with 2 hr fire rating

DESCRIPTION

Hinged or screw fixed wall access panel suitable for installation in masonry or stud walls with a pressed metal frame or T-section frame, with a -/120/60 fire rating.

APPLICATIONS

Shops, offices, apartments, factories and any application where access needs to be achieved through a fire rated wall.

FEATURES

- Fully insulated for 60 or 120 minutes,
- Ply or steel facing available
- Suitable for masonry, concrete or plaster walls
- Screw fixed at 500mm centres on all sides, or hinged with budget locks at 500mm centres on lock side.
- 48mm or 73mm thick
- Medium and hot temperature smoke seals, fire seals, and acoustic seals available
- Standard 4 sided pressed metal door frame with 25mm doorstops available in a variety of profiles (see *fire rated frame profiles*), or T-Section frame available (screw fix only) comprised of 2 welded 25mm x 25mm x 3mm steel angles
- Single leaf configurations only
- Recommended hinge configuration:
 - up to 2040 x 920 = 3 hinges.
 - up to 2400 x 1000 = 4 hinges.

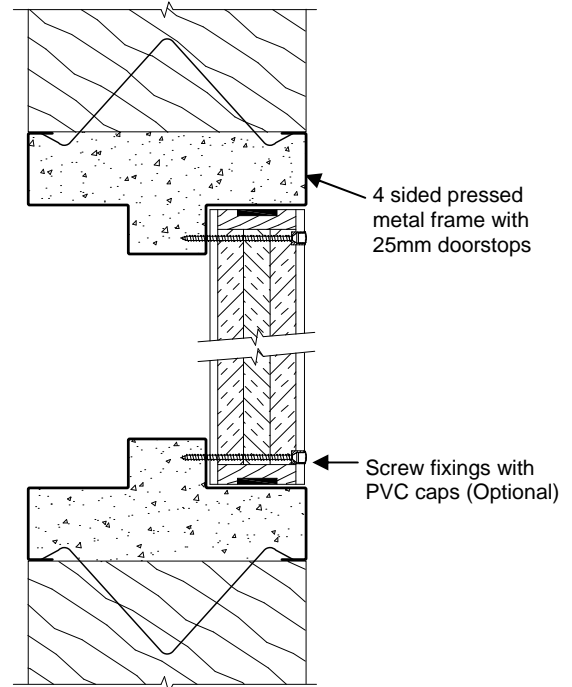
MODELS

Model	FRL	Thickness (mm)	Max size (mm)
PWAP-120/60	-/120/60	48	2400 x 1000
PWAP-120/120	-/120/120	73	2400 x 1000

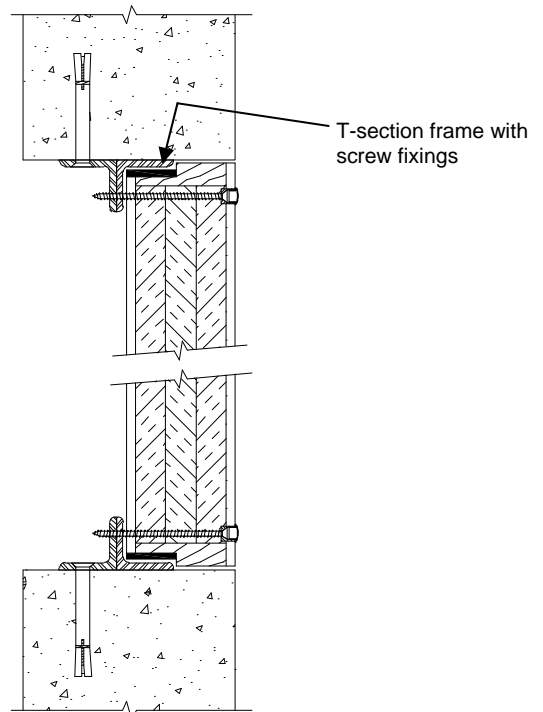
HOW TO SPECIFY

"Eg. Access panel to be a Pyropanel fire rated wall access panel PWAP-120/60, 48mm thick*, -/120/60, Ply face, with hinges and budget locks / screw fixings**"

* denotes example - delete, change or specify as required.



Wall panel with pressed metal door frame



Wall panel with T-Section frame

PYRO PANEL
Protecting Life & Property

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FIRE RATED ACCESS PANEL

4hr fire rated wall access panel

TECH SHEET: PANEL-03

Issue: 03-05-2011

Hinged or screw fixed wall access panel with 4 hr fire rating

DESCRIPTION

Hinged or screw fixed wall access panel suitable for installation in masonry walls with a pressed metal frame or T-section frame, with a -/240/60 or -/240/120 fire rating.

APPLICATIONS

Shops, offices, apartments, factories and any application where access needs to be achieved through a fire rated wall.

FEATURES

- Insulated for 60 or 120 minutes
- Ply or steel facing available
- Suitable for masonry, concrete or plaster walls
- Screw fixed at 500mm centres on all sides, or hinged with budget locks at 500mm centres on lock side.
- 48mm or 73mm thick
- Medium and hot temperature smoke seals, fire seals, and acoustic seals available
- Standard 4 sided pressed metal door frame with 25mm doorstops available in a variety of profiles (see *fire rated frame profiles*), or
- T-Section frame available (screw fix only) comprised of 2 welded 25mm x 25mm x 3mm steel angles
- Single leaf configurations only
- Recommended hinge configuration:
 - up to 2040 x 600 = 3 hinges.
 - up to 2200 x 600 = 4 hinges.

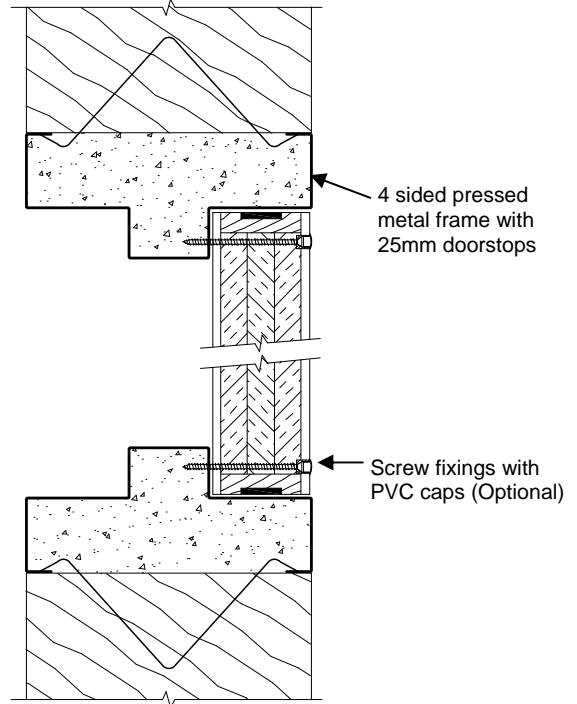
MODELS

Model	FRL	Thickness (mm)	Max size (mm)
PWAP-240/60	-/240/60	48	2200 x 600
PWAP-240/120	-/240/120	73	2200 x 600

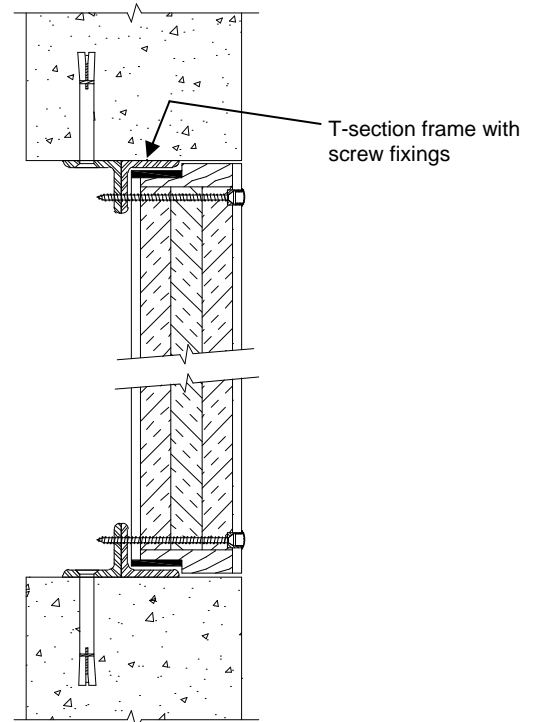
HOW TO SPECIFY

"Eg. Access panel to be a Pyropanel fire rated wall access panel PWAP-240/60, 48mm thick, -/240/60, Ply face, with hinges and budget locks / screw fixings"

* denotes example - delete, change or specify as required.



Wall panel with pressed metal door frame



Wall panel with T-Section frame

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FIRE RATED ACCESS PANEL

Lift shaft wall access panel

TECH SHEET: PANEL-04

Issue: 03-08-2010

Fire rated access panel for lift shaft walls

DESCRIPTION

Specially designed access panel for gypsum cavity wall shafts around lift walls. Panel can be screw fixed or hinged with budget locks.

APPLICATIONS

Gypsum (plaster) lift shaft liner walls (eg, Australian Gypsum Ltd cavity wall shaft, Boral Ltd lift wall system, etc).

FEATURES

- Ply or steel facing available
- Suitable for gypsum cavity wall shafts (eg, Australian Gypsum cavity wall shaft, Boral Ltd lift wall system, etc)
- Screw fixed at 500mm centres on all sides, or hinged with budget locks at 500mm centres on lock side.
- 48mm thick
- Medium and hot temperature smoke seals, fire seals, and acoustic seals available
- Special 4 sided pressed metal door frame
- Single leaf configurations only

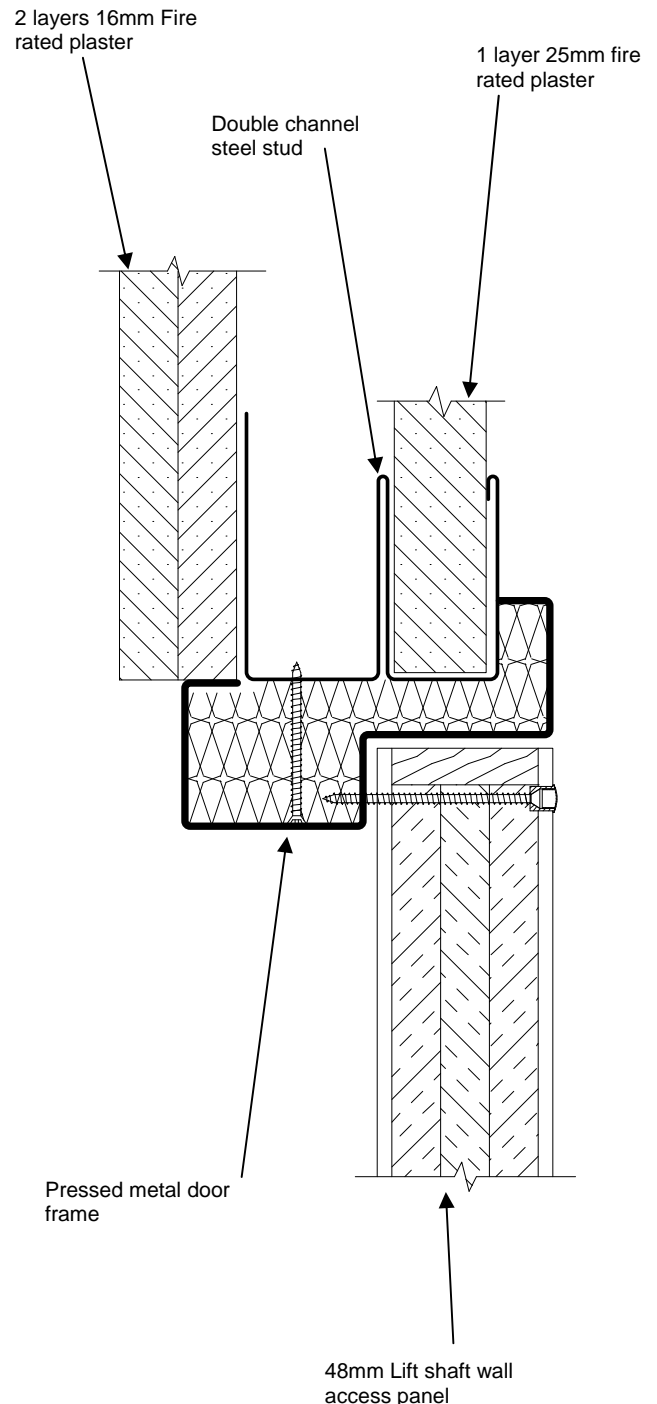
MODELS

Model	FRL	Thickness (mm)	Max size (mm)
PLWAP-90/60	-/90/60	48	1570 x 470

HOW TO SPECIFY

"Eg. Lift shaft wall access panel to be a Pyropanel fire rated lift shaft wall access panel PLWAP-90/60, 48mm thick, FRL -/90/60, Ply face, with screw fixings"*

* denotes example - delete, change or specify as required.



FIRE RATED ACCESS PANEL

1hr fire rated plasterboard ceiling access panel

TECH SHEET: PANEL-05

Issue: 08-09-06

Hinged access panel suitable for plaster board ceilings

DESCRIPTION

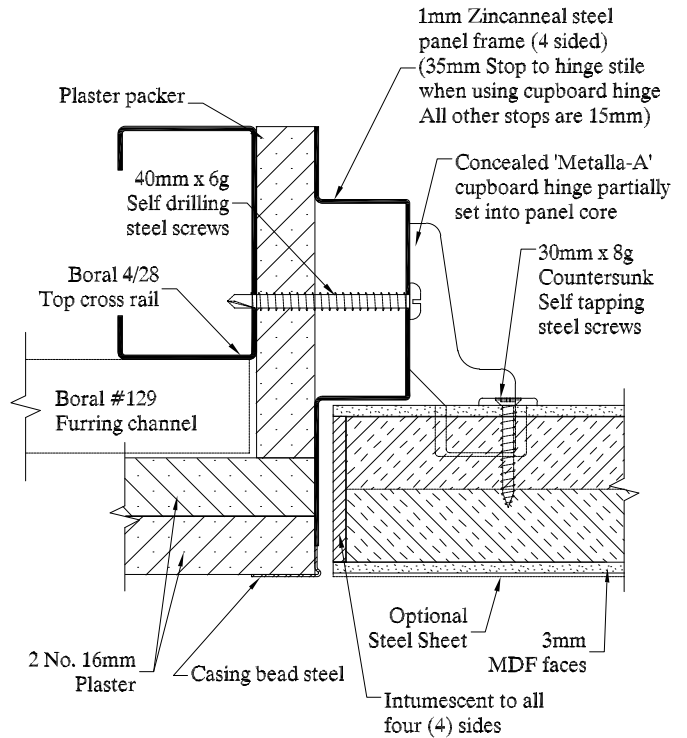
Hinged access panel installed into a steel framed plasterboard ceiling with a -/60/60 fire rating.

APPLICATIONS

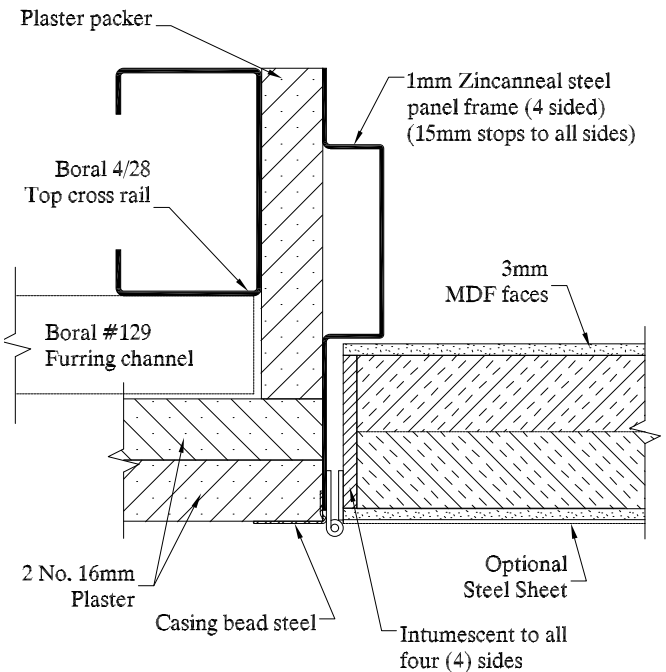
Shops, offices, apartments and any application where access needs to be achieved through a plaster lined ceiling without effecting the fire rating of the ceiling

FEATURES

- Flush mounted or recess mounted
- 'Metalla-A' concealed cupboard hinges with 35mm frame rebate on hinge side, and 15mm frame rebate for remaining 3 sides, or
- Continuous 15 x 15 x 1.2 mm steel piano hinge with 15mm frame rebate on all 4 sides
- MDF facing as standard, or optional steel facing available
- Latched with either Bowman's cam-action or Budget lock
- 48mm thick
- Integrated hot temperature smoke / fire seals



Ceiling panel with cupboard hinges



Ceiling panel with continuous hinges

MODELS

Model	FRL	Thickness	Max size
PCAP-CPS03	-/60/60	48	600 x 600

HOW TO SPECIFY

"Eg. Access panel to be a Pyropanel fire rated plasterboard ceiling access panel PCAP-CPS03, -/60/60, MDF face*, with a Budget lock* and Metalla-A concealed cupboard hinges**."

* denotes example - delete, change or specify as required.



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FIRE RATED ACCESS PANEL

Lift motor room hatch / floor access panel

TECH SHEET: PANEL-06

Issue: 08-09-06

Screw fixed or hinged floor access panel with checker plate cover and 4 sided steel frame

DESCRIPTION

Specifically designed for lift motor room and plant room hatches, these units are manufactured to size and incorporate a steel checker plate cover, and a special four sided pressed metal frame which is suitable for casting into concrete floors.

APPLICATIONS

Lift shafts, motor rooms, plant rooms, or any application that requires access through a fire rated concrete floor.

FEATURES

- Anodised aluminium or steel channel edges to four edges
- Ply or steel faced
- 48mm thick
- Screw fixed, masonry anchors or hinged
- Recessed finger grips provided
- Finger holes provide in checker plate steel cover
- NOTE: panels are non structural and must not have any load directly applied - steel checker plate is mandatory where there is any risk of load (including people) being applied
- Integrated hot smoke / fire seals included
- Medium temperature smoke seals available
- Singles or pairs with removable mullion
- Deletion of checker plate will reduce insulation value to 60 minutes

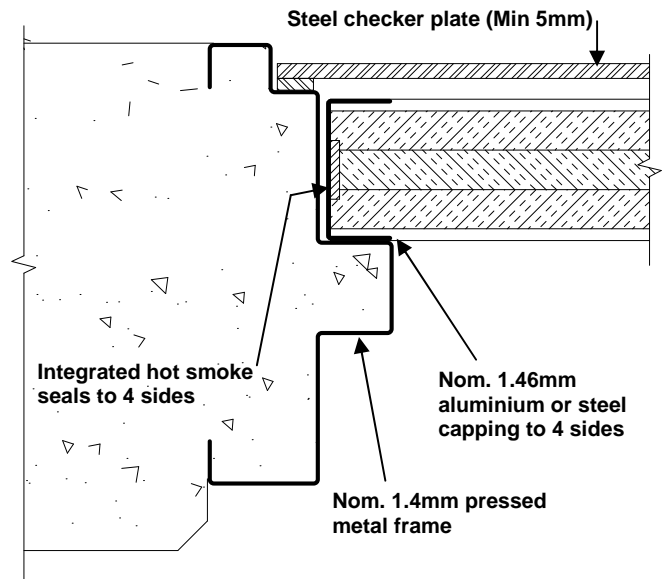
MODELS

Model	FRL	Thick-ness	Max size single panel	Max size per panel for pairs
PFAP-240/120	-/240/120	48	1700 x 500	N/A
PFAP-120/120	-/120/120	48	1275 x 850	1275 x 850

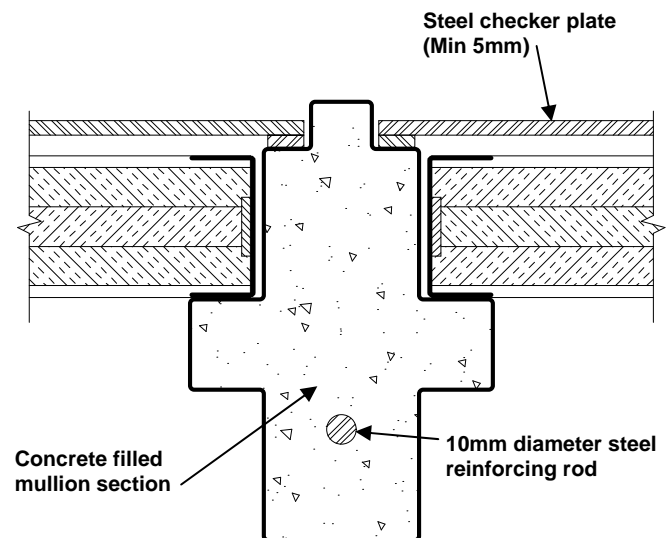
HOW TO SPECIFY

"Eg. Access panel to be a Pyropanel fire rated floor access panel PFAP-240/120, FRL -/240/120, Ply face*, with a hinges / screw fixings*.

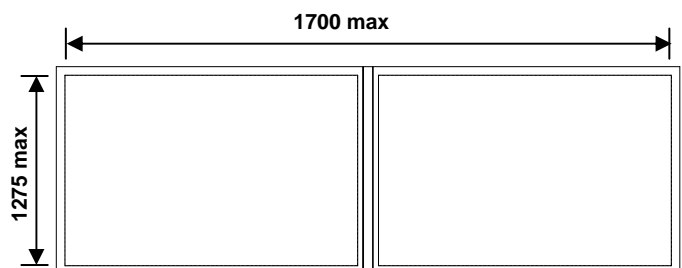
* denotes example - delete, change or specify as required.



Elevation of edge detail



Elevation of removable mullion detail



Plan view of pair floor panel with removable mullion



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Fire Rated Glazing System Guide



FIRE RATED GLAZING SYSTEM GUIDE

Issue: 27-03-07

Introduction

Pyropanel Developments are specialists in fire rated glazing solutions, and our systems are designed for easy installation into new projects, refurbished buildings and existing walls. In addition to regular non insulated Georgian and Pyroceram™ non insulated systems, Pyropanel also offer a number of certified solutions incorporating Pilkington Pyrostop™ and Pyrodur™ fire rated glass. Pilkington Pyrostop™ and Pyrodur™ are arguably the best fire rated glass products available in Australia, offering superior safety, longevity and visual transparency for both insulated and non insulated applications. All Pilkington Pyrostop™ and Pyrodur™ products have an impact rating to AS2208.

As part of the certified solution, Pyropanel uses a European designed insulated steel element that can be used to support glass panels in both doors and fixed windows. Available for internal and external applications, there are a variety of profiles designed to suit most glazing applications and classifications under the Building Code of Australia, and all products are certified to the relevant Australian Standard. Pyropanel also offer a range of timber fire windows that achieve a -/60/30 rating, and timber fire doors that can incorporate either half or full light glazed elements incorporating Pilkington Pyrostop™ for a rating of -/60/30.

Models available

Model	FRL	Leaf Thickness	Facing	Frame material	Maximum Leaf size - Single (mm)	Maximum Leaf size - Pair (mm)	Tech Sheet
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Glass Fire doors

PG1FD060-54	-/60/30	54mm	Timber with 1/2 glass	Timber or steel	2400 x 1200	N/A	FD-05 (fire door section)
PG2FD060-54	-/60/30	54mm	Timber with full glass	Timber or steel	2400 x 1200	N/A	FD-05 (fire door section)
PG3FD060-65	-/60/30	65mm	Steel with full glass	Integrated steel	2400 x 1100	2400 x 1100 / 1100	FD-06 (fire door section)
PGSD30S	-/30/-	65mm	Steel with full glass	Integrated Steel	Sliding glass fire door - 2700 x 1405		FD-09 (Fire door section)

Fire Windows

Model	FRL	Glass thickness	Glass type	Frame material	Grade A impact rating?	Max overall frame size (approx)	Tech Sheet
PFWS-GW60/-	-/60/-	6mm	Georgian wired	Steel	No	1200 x 1130	FW-01
PFWS-PC240/-	-/240/-	5mm	Pyroceram	Steel	No	1640 x 970	FW-02
PFWS-PD60/-	-/60/-	13mm	Pyrodur™	Steel	Yes	2900 x 1400	FW-03
PFWS-PS60/60	-/60/60	23 or 27mm	Pyrostop™	Steel	Yes	2865 x 1465	FW-04
PFWS-PS60/30	-/60/30	18mm	Pyrostop™	Steel	Yes	2400 x 1200	FW-04
PFWS-PS90/90	-/90/90	47mm	Pyrostop™	Steel	Yes	2400 x 1415	FD-05
PFWS-PS120/120	-/120/120	52 or 56mm	Pyrostop™	Steel	Yes	2400 x 1415	FD-06
PFWT-PS60/30	-/60/30	18mm	Pyrostop™	Pyropanel® fire rated timber	Yes	2860 x 1200	FD-07

Certification

For compliance to Australian Standards, all fire rated solutions must be independently certified by an approved testing laboratory and form part of a certified system. All Pyropanel Fire Rated glass door and window systems are fully tested certified to AS1530.4, and are supplied as a complete package including frame and glass, and are either factory fitted or fitted on site depending on the project specifics.

Applications

Pyropanel Fire Rated Glass doors and windows are ideal for applications where natural light needs to be retained and where visual sighting is important, but where the fire rating of the building element must also be retained. Typical installations such as doors and windows in stair wells increase their attractiveness and hence usability while providing both a socially safe and fire safe environment for occupants. Other uses are common, such as in heritage buildings where the use of unsightly sprinklers is not desirable, hospitals, schools and nursing homes where visual sighting is important, and of course all applications under the building code of Australia that require the use of fire rated glazing solutions.

Pyropanel fire rated glass doors and windows open up a world of design opportunities for creating visually appealing buildings that utilise the benefits of natural light and visibility, without compromising fire safety.



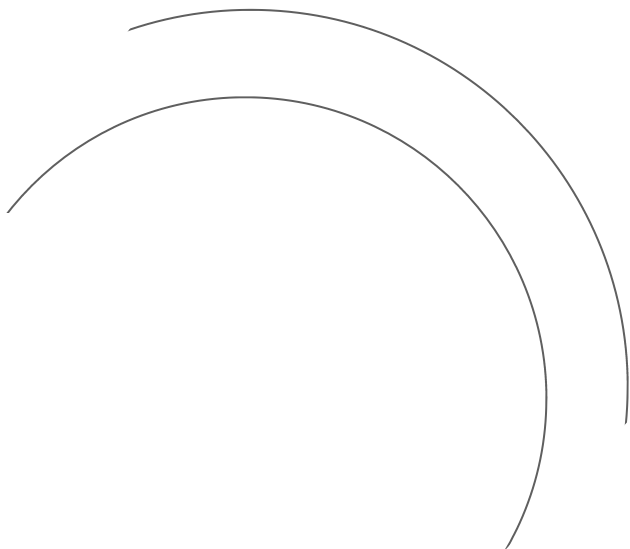
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Availability

All Pyropanel products are available throughout Australia and various other countries through a network of licensed manufacturers and distributors. For a current contact list, please contact Pyropanel Developments or visit our website at www.pyropanel.com.au.

[Pyropanel > Fire Doors > Smoke Doors > Life Safety Doors > Fire Rated Glazing > Passive Products > Special Purpose Doors](#)



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FIRE RATED GLAZING

Georgian wired -/60/- fire window

TECH SHEET: FW-01

Issue: 08-09-06

Fire rated window, -/60/-, using
Georgian wired glass in a steel frame

DESCRIPTION

Steel framed fire rated window providing one hour of integrity only protection, this budget priced system is a great solution for applications requiring certified fire resistance without the need for radiation protection, insulation protection, or the need for perfectly clear glass.

APPLICATIONS

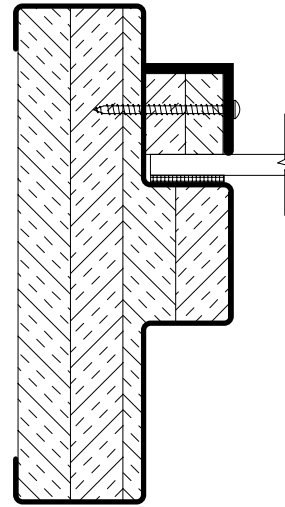
Car parks, factories and boundary walls, or wherever there is a need for integrity only protection without a requirement for protection against the spread of fire due to heat transfer. This glass does not provide any level of radiation protection and should not be used in an escape route or where occupants could be exposed to radiant heat.

FEATURES

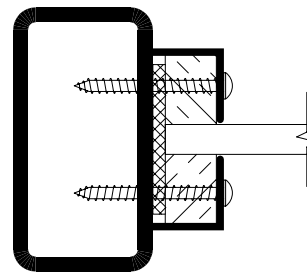
- Fully certified to Australian Standards
- -/60/- FRL
- 6mm Georgian wire clear glass (eg, Pilkington Pyroshield®) with 10mm squared wire reinforcement
- Pressed metal or RHS frame system
- Class B impact rating to AS1288 (not suitable for applications requiring class A safety glass)
- For use in 1hr timber and steel stud walls, all fire rated masonry walls, gypsum block walls, aerated concrete blocks and wall panels. *Refer to Pyropanel if your wall type is not listed.*
- All frames must be fully packed with Rockwool, Pyropanel FR board, Fire rated plaster, Mortar or concrete
- Single panes up to 1070 x 1000 visible
- Multi-lites with panes up to 1030 x 910 visible (total assembly size - max 2280 x 1040)
- Arched windows available

OPTIONAL EXTRAS

- Galvanised frames
- Stainless Steel frames
- Double glazing
- Mullions and transoms
- Obscure films



Standard pressed metal window profile



Alternative RHS window profile
(not recommended for external applications)

MODELS AVAILABLE

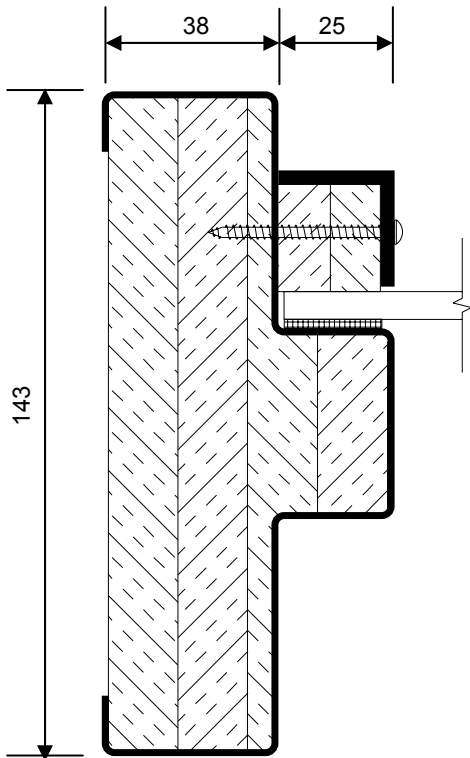
Model	FRL	Glass thickness	Max visible glass	Max overall frame size (approx)
PFWS-GW60/-	-/60/-	6mm	1070 x 1000	1200 x 1130

HOW TO SPECIFY

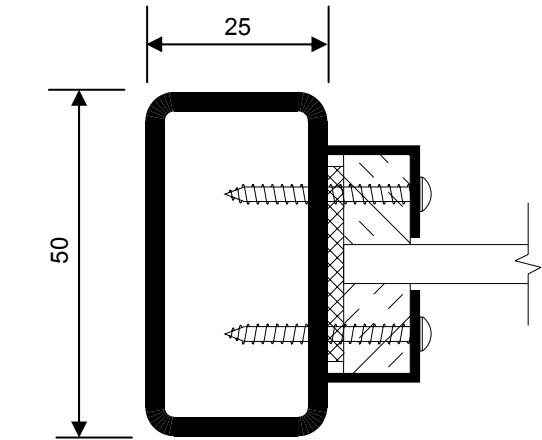
Eg, "Window to be a Pyropanel **PFWS-GW60/-** Certified -/60/- FRL fire window, incorporating 6mm Georgian wired glass, mounted in pressed metal window frame*, prime paint / powdercoat / galvanised / stainless steel* finish, (builder to fully pack frame as required)"

* denotes example - delete or change or specify as required

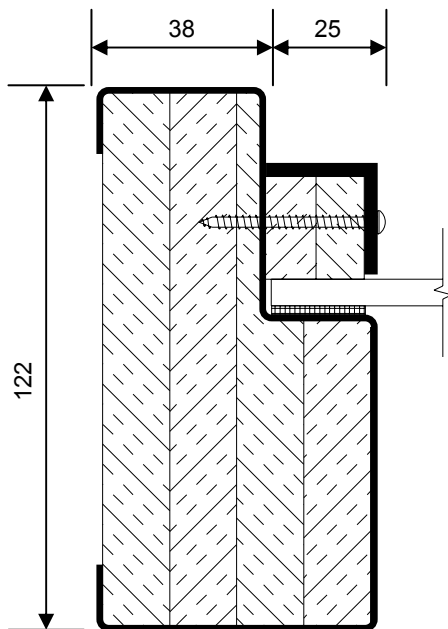
TYPICAL SECTIONS



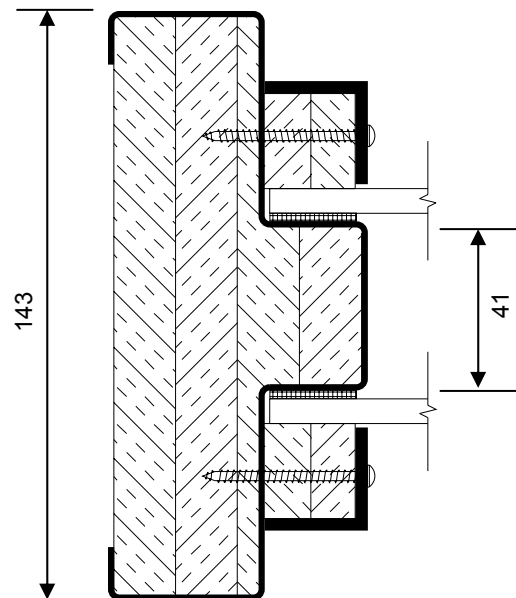
Pressed metal double rebated window frame



RHS window frame
 (not recommended for external applications)

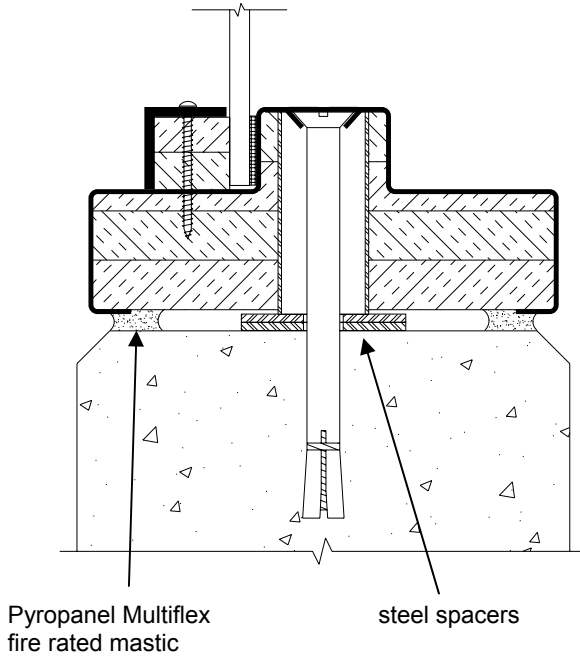


Pressed metal single rebated window frame

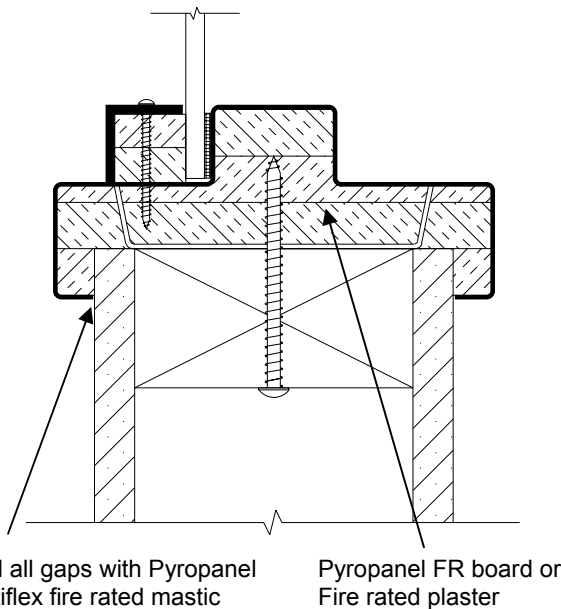


Pressed metal single rebated window frame with double glazing

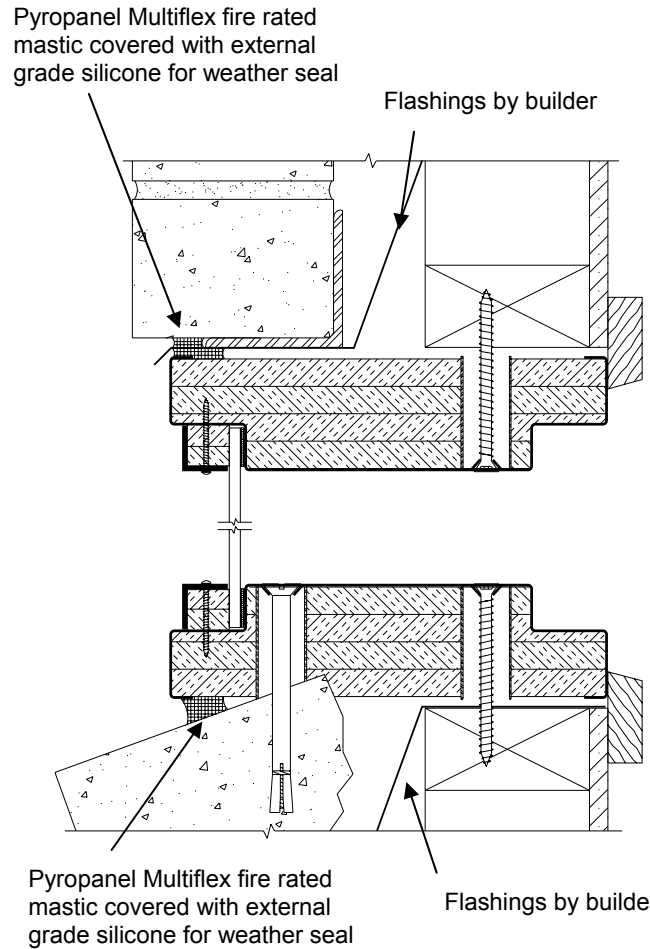
WALL ABUTMENTS AND BUILDING IN DETAILS



Typical wall fixing for masonry and pre-cast concrete walls



Typical wall fixing for masonry and pre-cast concrete walls



Ensure all gaps are tightly sealed with fire rated sealant, and that the frames are fully packed with Pyropanel FR board, Fire rated plaster, mortar or concrete. Back of window frame must abut fire rated element of wall (generally brick).

Suggested fixing detail for brick veneer applications

FIRE RATED GLAZING

Pyroceram -/240/- fire window

TECH SHEET: FW-02

Issue: 03-08-2010

Fire rated window, -/240/-, using Pyroceram glass in a steel frame

DESCRIPTION

Steel framed fire rated window providing up to four hours of integrity only protection, this system is a great solution for applications requiring certified fire resistance without the need for radiation protection, insulation protection, or the need for perfectly clear glass.

APPLICATIONS

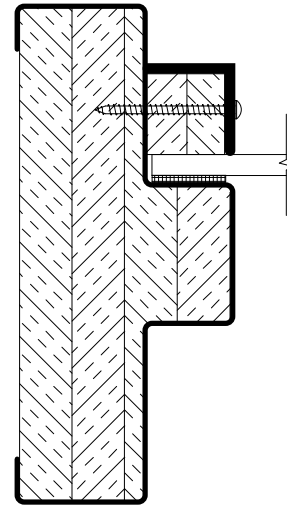
Car parks, factories and boundary walls, or wherever there is a need for integrity only protection without a requirement for protection against the spread of fire due to heat transfer. This glass does not provide any level of radiation protection and should not be used in an escape route or where occupants could be exposed to radiant heat.

FEATURES

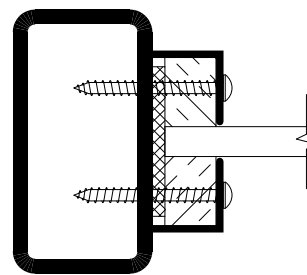
- Fully certified to Australian Standards
- -/60/-, -/120/-, -/240/- FRL depending on application and FRL of wall
- 5mm Pyroceram ceramic glass (slightly bronze colour in appearance)
- Pressed metal or RHS frame system
- NOTE: This glass has no impact rating to AS1288 (not suitable for applications requiring safety glass)
- For use in 1hr timber and steel stud walls, all fire rated masonry walls, gypsum block walls, aerated concrete blocks and wall panels. *Refer to Pyropanel if your wall type is not listed.*
- All frames must be fully packed with Rockwool, Pyropanel FR board, Fire rated plaster, Mortar or concrete
- Single panes up to 1510 x 840 visible
- Multi-lites with panes up to 1510 x 840 visible (total maximum assembly size
 - 3300mm (h) x 1560mm (w) or
 - 1560mm (h) x 2400mm (w)
- Arched windows available
- Tested and approved for use as side-lites and top-lites adjacent to Pyropanel fire doors (*note: no insulation protection provided*)

OPTIONAL EXTRAS

- Galvanised frames
- Stainless Steel frames
- Double glazing
- Impact rated film
- Obscure films



Standard pressed metal window profile



Alternative RHS window profile
(not recommended for external applications)

MODELS AVAILABLE

Model	FRL Up to:	Glass thickness	Max visible glass	Max overall frame size (approx)
PFWS-PC240/-	-/240/-	5mm	1510 x 840	1640 x 970

HOW TO SPECIFY

Eg, "Window to be a Pyropanel **PFWS-PC240/-** Certified -/240/- FRL* fire window, incorporating non impact rated 5mm Pyroceram glass, mounted in pressed metal window frame*, prime paint / powdercoat / stainless steel* finish, (builder to fully pack frame as required)"

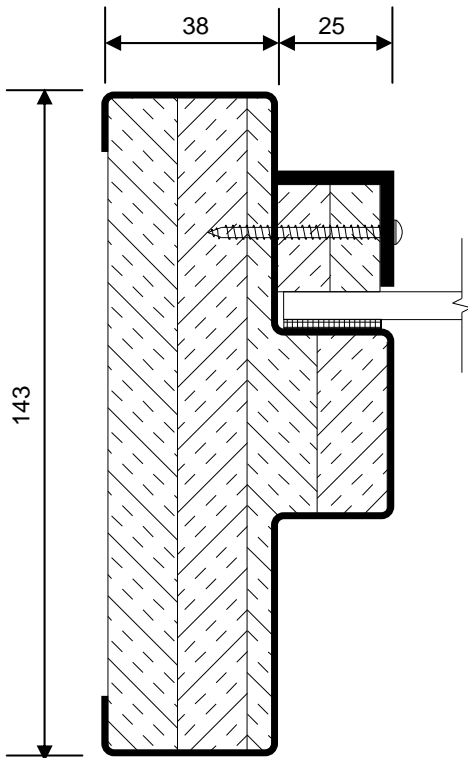
* denotes example - delete or change or specify as required



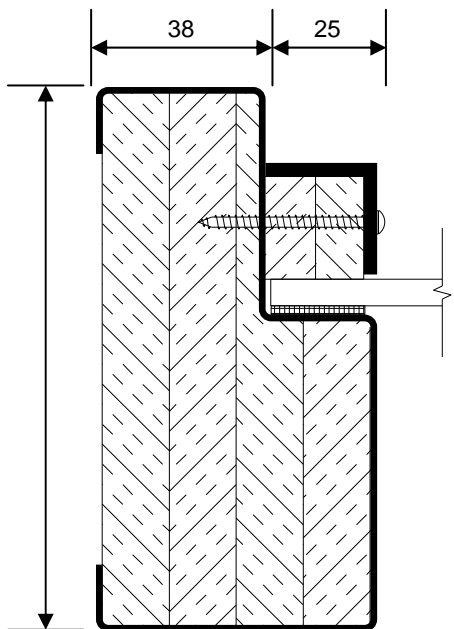
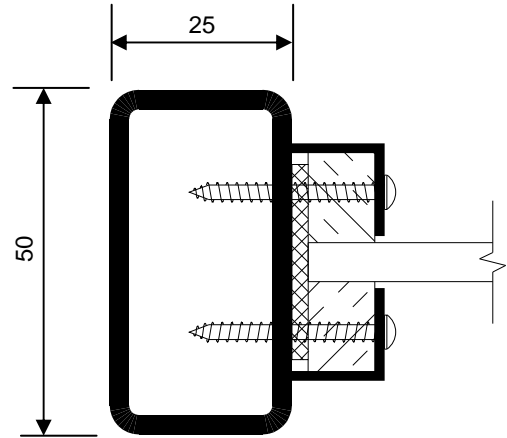
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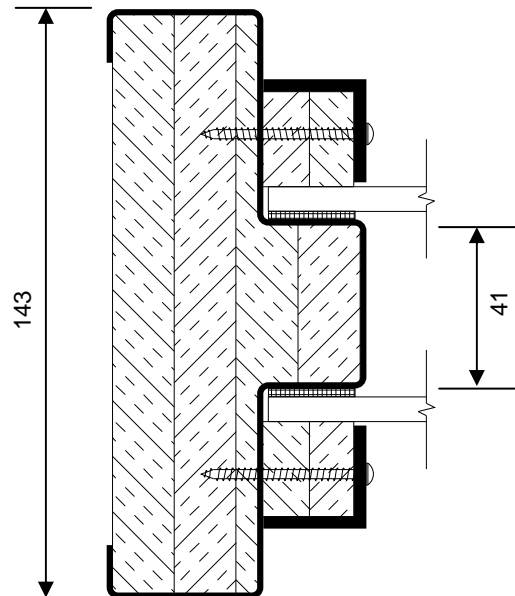
TYPICAL SECTIONS



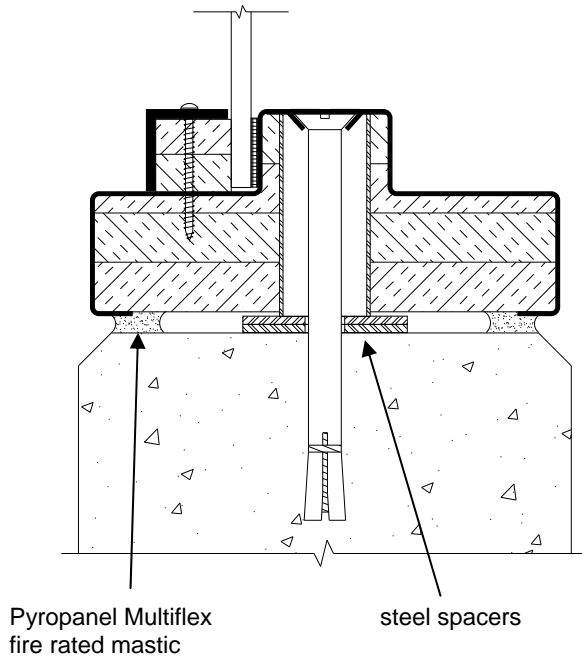
Pressed metal double rebated window frame



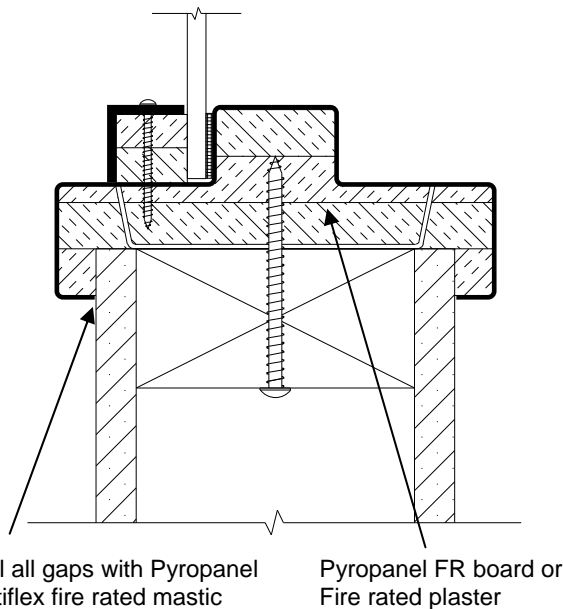
Pressed metal single rebated window frame



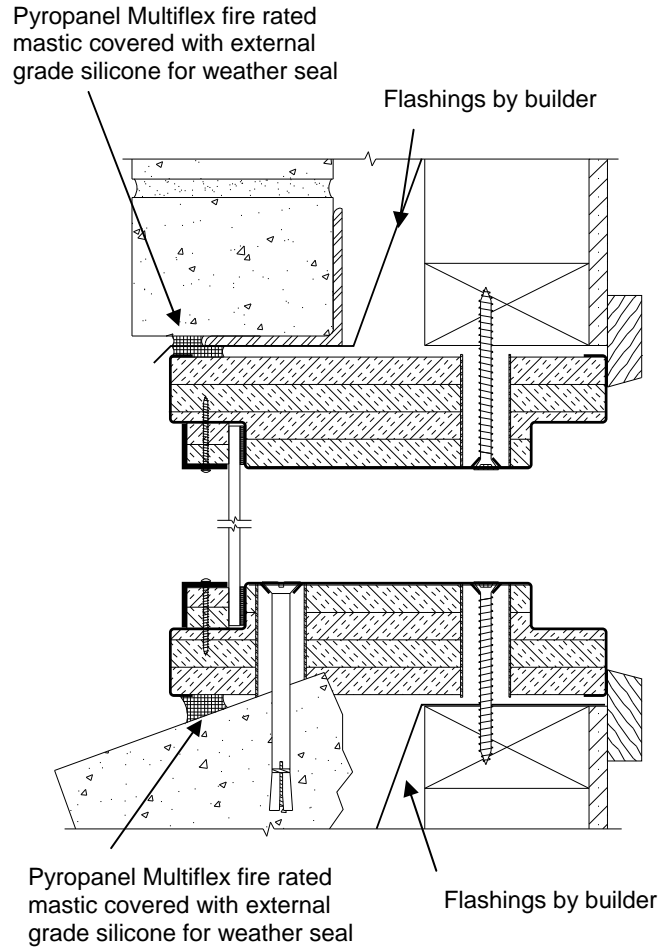
WALL ABUTMENTS AND BUILDING IN DETAILS



Typical wall fixing for masonry and pre-cast concrete walls



Typical wall fixing for masonry and pre-cast concrete walls



Ensure all gaps are tightly sealed with fire rated sealant, and that the frames are fully packed with Pyropanel FR board, Fire rated plaster, mortar or concrete. Back of window frame must abut fire rated element of wall (generally brick).

Suggested fixing detail for brick veneer applications (not tested).

FIRE RATED GLAZING

Pyrodur™ -/60/- fire window

TECH SHEET: FW-03

Issue: 22-02-11

Fire rated window, -/60/-, using Pilkington Pyrodur™ clear insulating glass in a steel frame

Page 1 of 2

DESCRIPTION

Steel framed fire rated window providing one hour of integrity only protection with perfectly clear Pilkington Pyrodur™ insulating glass, this system is a great solution for applications requiring certified fire resistance, with a requirement for clear glass and the added safety benefit of radiation protection.

APPLICATIONS

Car parks, factories and boundary walls, domestic houses or wherever there is a need for integrity only protection with a need to protect the building and occupants against the effect of radiant heat transmission.

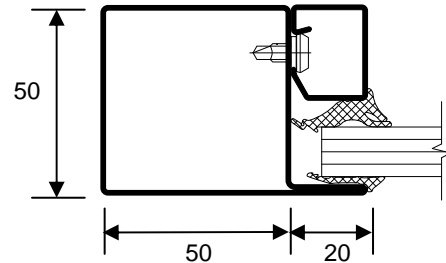
FEATURES

- Fully certified to Australian Standards AS1530.4
- -/60/- FRL
- Reduces radiant heat transmission by 90%
- Glass provides at least 10 minutes of insulation protection
- Internal and External applications
- 13mm Pilkington Pyrodur™ insulating clear glass (18mm Pilkington Pyrostop may be used on large panes)
- Non insulated Forster® Presto steel framing system
- Class A impact rated to AS2208
- For use in fire rated masonry walls.
- Single panes up to 2900 x 1400 per pane
- Multi panes up to 2900 x 1400 per pane
- Multi pane systems up to 4m high, no limitation on span
- Arched windows
- Can be integrated into steel framed glass fire doors (Contact Pyropanel for more information)
- Standard finish is Prime Painted, ready for undercoating and top coat

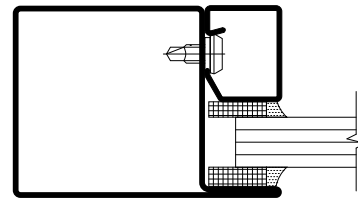
OPTIONAL EXTRAS

- Stainless Steel frames
- Powdercoating
- Tinted films

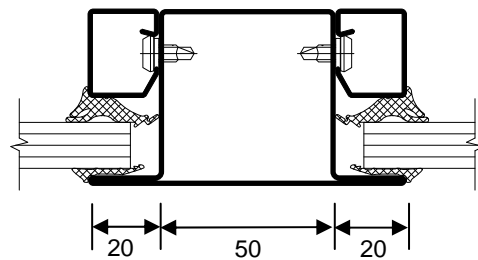
PROFILES



Standard profile with rubber beading (internal application)



Standard profile with silicone beading (internal or external application)



Standard mullion and transom profile

MODELS AVAILABLE

Model	FRL	Glass Thickness	Max pane size - Single or continuous
PFWS-PD60/-	-/60/-	13mm/19mm	2900 x 1400

Note: 19mm will be used on sizes greater than 2600 x 700, or 1800 x 1300, or linear transition between these sizes

HOW TO SPECIFY

Eg, "Window to be fully test and certified Pyropanel Fire Window **PFWS-PD60/-**, -/60/- FRL, incorporating Forster non-insulated steel frame and 13mm Pilkington Pyrodur™ clear intumescent glass, with rubber beading / silicone weather seal*. System available from Pyropanel Developments"

* denotes example - delete or change or specify as required

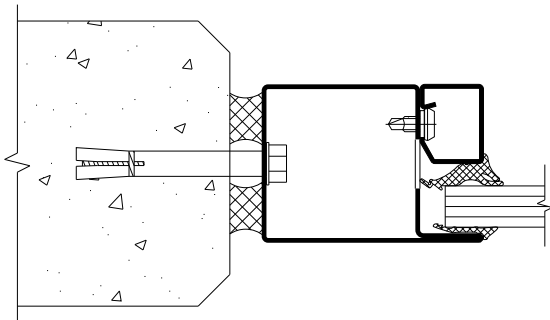


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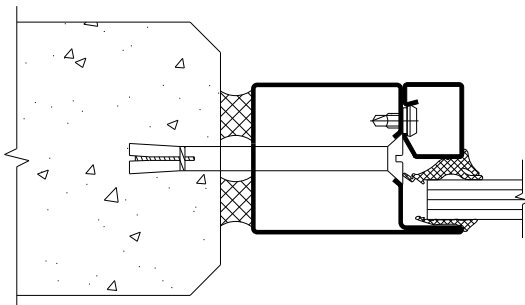
WALL ABUTMENTS AND BUILDING IN DETAILS

All windows must be tightly sealed to surrounding fire rated wall using Pyropanel Multiflex fire rated acrylic sealant or approved equivalent. For external applications, an additional layer of weather resistant silicone must be applied to the exposed Multiflex to create a water resistant barrier. All required flashings are by builder or other parties. Most fixings are approved for most wall types.



Fixing type FTP01

M6 Dynabolt into masonry wall at max 600mm centers. Can only be used for site glazed applications. Fixings to 3 sides minimum.



Fixing type FTP02

M6 Flat head Dynabolt into masonry wall at max 600mm centers. Can only be used for site glazed applications. Fixings to 3 sides minimum.

GLASS DATA

Product	Nominal Thickness (mm)	Application	Integrity (mins)	Insulation (mins)	Sound Reduction**	Light transmission %	Approx weight of glass (kg/m ²)	Approx weight of glass and frame (kg/m ²)
Pyrodur™	13	Internal / External	60	-	38	86	31	32



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FIRE RATED GLAZING

Pyrostop -/60/60 and -/60/30 fire window

TECH SHEET: FW-04

Issue: 22-02-11

Fire rated window, -/60/60 and -/60/30, using Pilkington Pyrostop™ clear glass in an insulated steel frame

Page 1 of 3

DESCRIPTION

Insulated steel framed fire rated window providing one hour of integrity and insulation protection with perfectly clear Pilkington Pyrostop™ insulating glass, this system is a great solution for applications requiring certified fire resistance for both integrity and insulation and the added safety benefit of radiation protection.

APPLICATIONS

Fire escapes, smoke lobbies, computer rooms, car parks and factories, boundary walls, domestic houses or wherever there is a need for integrity and insulation protection, with the need to protect the building and occupants against the spread of fire due to radiant heat transmission.

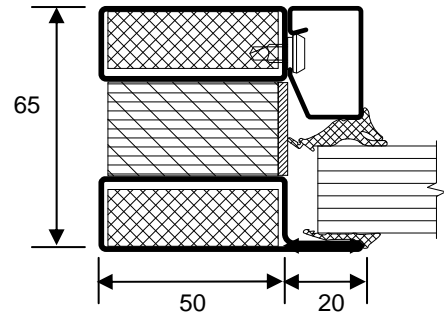
FEATURES

- Fully certified to Australian Standards AS1530.4
- -/60/60 FRL using 23mm Pilkington Pyrostop™ for internal applications, and 27mm for external applications
- -/60/30 FRL using 18mm Pilkington Pyrostop™ for both internal and external applications
- Reduces radiant heat transmission by 98%
- Internal and External applications
- Light transmission comparable to 5mm float glass
- Forster® Fuego Light triple insulated framing system
- Class A impact rated to AS2208
- For use in fire rated masonry walls
- Single and multiple panes up to 2865 x 1465 visible (3005 x 1605 overall frame size)
- Multi panes up to 4m high, no limitations on span
- Arched windows
- Can be integrated into steel framed -/60/30 glass fire doors (*Refer metal glass fire door tech sheet FD-06 for more information*)
- Standard finish is Prime Painted, ready for undercoating and top coat

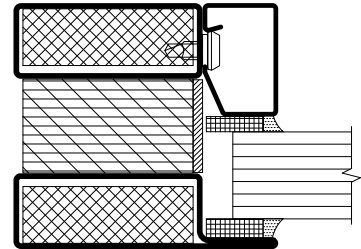
OPTIONAL EXTRAS

- Stainless Steel frames
- Powdercoating
- Tinted films

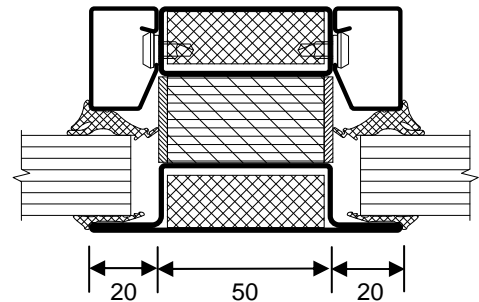
PROFILES



Standard profile with rubber beading (internal application)



Standard profile with silicone beading (internal or external application)



Standard mullion and transom profile

MODELS AVAILABLE

Model	FRL	Glass Thickness	Max Pane size (visible)
PFWS-PS60/60	-/60/60	23 or 27mm	2865 x 1465
PFWS-PS60/30	-/60/30	18mm	2400 x 1200

HOW TO SPECIFY

Eg, "Window to be fully test and certified Pyropanel Fire Window **PFWS-PS60/60**, -/60/60 FRL, incorporating Forster triple insulated steel frame and 23mm / 27mm* Pilkington Pyrostop™ clear intumescent glass, with rubber beading / silicone weather seal*. System available from Pyropanel Developments"

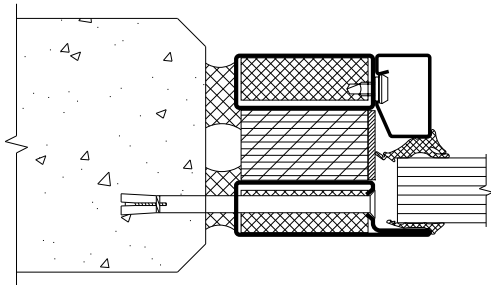
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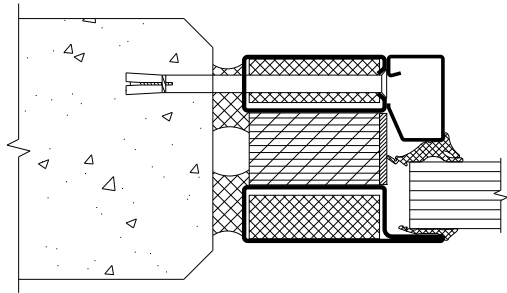
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WALL ABUTMENTS AND BUILDING IN DETAILS



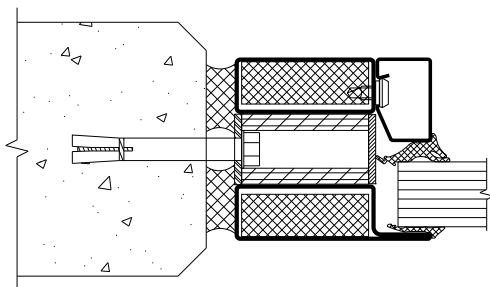
Fixing type FTFL01

M6 Flat head Dynabolt into masonry wall or 12G screws into fire rated Gyprock wall on lip side of frame, at max 600mm centers. Can only be used for site glazed applications. Fixings to 3 sides minimum.



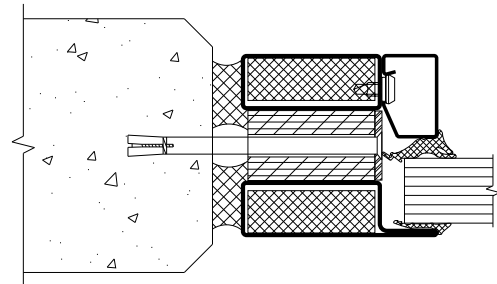
Fixing type FTFL02

M6 Flat head Dynabolt into masonry wall or 12G screws into fire rated Gyprock wall on beading side of frame, at max 600mm centers. Can only be used for site glazed applications. Fixings to 3 sides minimum.



Fixing type FTFL03

M6 Flat head Dynabolt into masonry wall or 12G screws into fire rated Gyprock wall recessed into middle of frame, at max 600mm centers. Can only be used for site glazed applications. Fixings to 3 sides minimum.



Fixing type FTFL04

M6 Flat head Dynabolt into masonry wall or 12G screws into fire rated Gyprock wall recessed into middle of frame, at max 600mm centers. Can only be used for site glazed applications. Fixings to 3 sides minimum.

FIRE RATED GLAZING

Pyrostop -/90/90 fire window

TECH SHEET: FW-05

Issue: 22-02-11

Fire rated window, -/90/90 using Pilkington Pyrostop™ clear glass in an insulated steel frame

Page 1 of 3

DESCRIPTION

Insulated steel framed fire rated window providing 90 minutes integrity and 90 minutes of insulation protection with Pilkington Pyrostop™ perfectly clear insulating glass, this system is a great solution for applications requiring certified fire resistance for both integrity and insulation and the added safety benefit of radiation protection.

APPLICATIONS

Fire escapes, smoke lobbies, computer rooms, car parks and factories, boundary walls, or wherever there is a need for integrity and insulation protection, with the need to protect the building and occupants against the spread of fire due to radiant heat transmission.

FEATURES

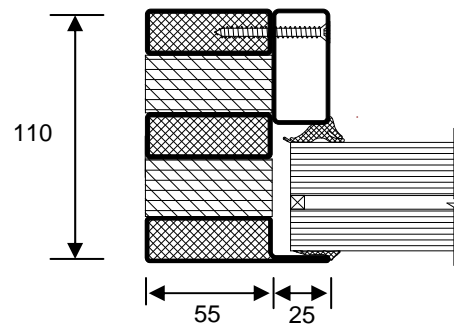
- Fully certified to Australian Standards AS1530.4
- -/90/90 FRL using 47mm Pilkington Pyrostop™ for both internal and external applications
- Reduces radiant heat transmission by over 98%
- Internal and External applications
- Very high light transmission value
- Forster® insulated framing system
- Class A impact rated to AS2208
- For use in fire rated masonry walls.
- Single or Multiple panes up to 2400h x 1415w (visible) (2560 x 1575 overall frame size) (**recommended max size: 1.5m² due to weight of system - Larger sizes are available upon request, however highly specialised lifting and glazing equipment will be required**)
- Arched windows
- Can be integrated into steel framed -/60/30 glass fire doors (*Contact Pyropanel for more information*)
- Standard finish is Prime Painted, ready for undercoating and top coat

OPTIONAL EXTRAS

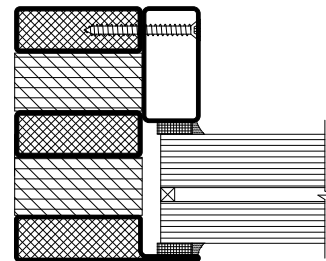
- Powdercoating
- Tinted films

MODELS AVAILABLE

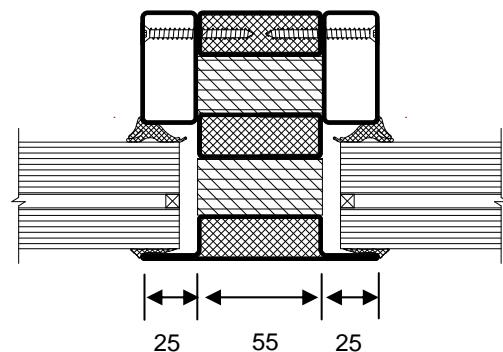
Model	FRL	Glass Thickness	Max Pane size (visible)
PFWS-PS90/90	-/90/90	47mm	2400 x 1415*



Standard profile with rubber beading (internal application)



Standard profile with silicone beading (internal or external application)



Standard mullion and transom profile

Continued...

HOW TO SPECIFY

Eg, "Window to be fully test and certified Pyropanel Fire Window **PFWS-PS90/90**, -/90/90 FRL, incorporating Forster insulated steel frame and 47mm*Pilkington Pyrostop™ clear intumescent glass, with rubber beading / silicone weather seal*. System available from Pyropanel Developments"

* denotes example - delete or change or specify as required



Pyropanel Developments Pty Ltd
 122-124 Beresford Rd, Lilydale, VIC, 3140
 Ph: (03) 9739 3100 Fax: (03) 9739 3115
 Email: sales@pyropanel.com.au
 Web: www.pyropanel.com.au

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GLASS DATA

Product	Nominal Thickness (mm)	Application	Integrity (mins)	Insulation (mins)	Sound Reduction (Rw)	Light transmission %	Approx weight of glass (kg/m ²)	Approx weight of glass and frame (kg/m ²)
Pyrostop™	47 IGU (23+6+18)	Internal / External	90	90	43	75	96	120

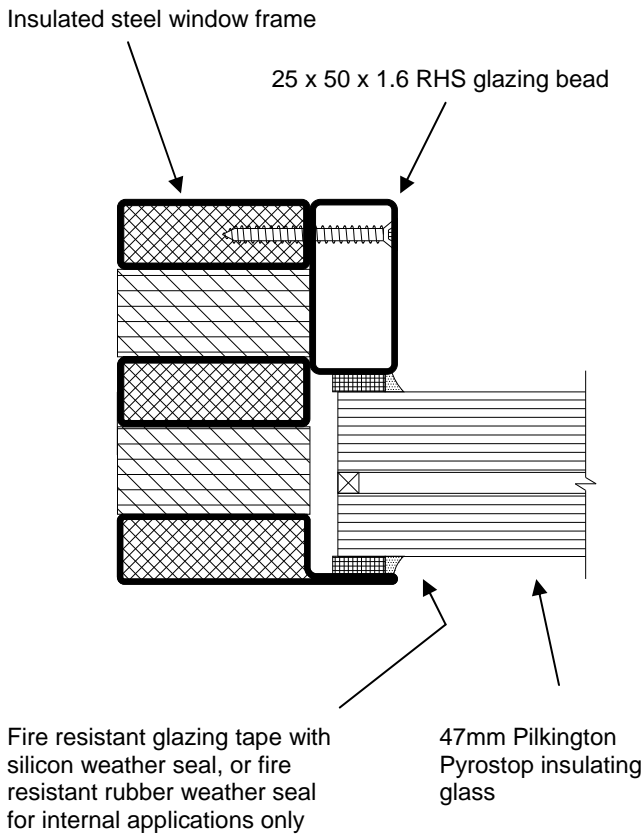
SYSTEM DETAILS

Standard system

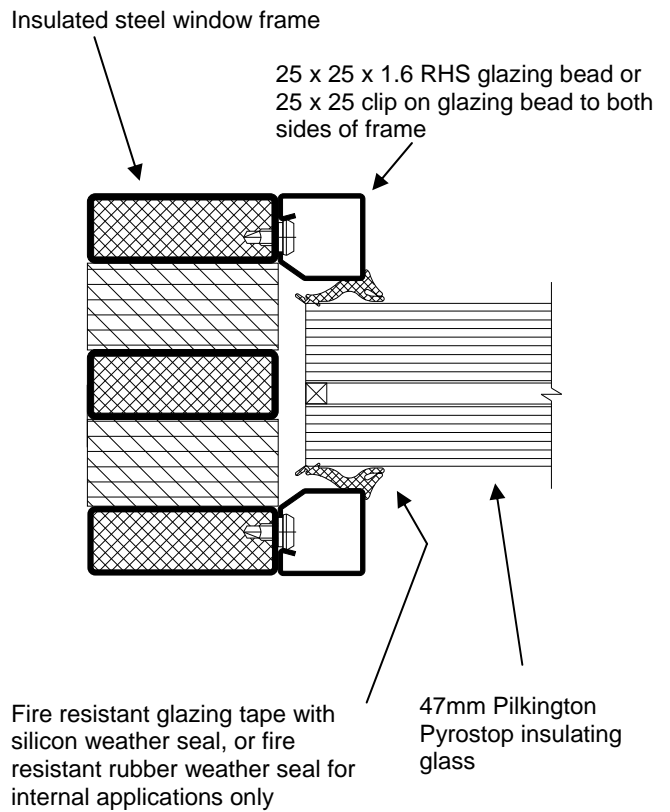
- Off set glazing
- Silicon weather sealing for internal or external applications (wet glazing), or optional rubber weather stripping for internal application only (dry glazing)

Optional glazing system

- Centre glazing
- Silicon weather sealing for internal applications only (wet glazing), or optional rubber weather stripping for internal application only (dry glazing)
- Frame profile may require extended lead times



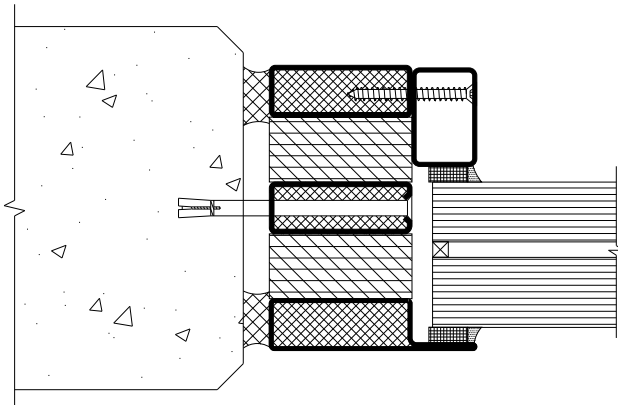
Standard off set glazing profile (internal or external application)



Alternative centre line glazing profile (internal application only)
Note: this frame profile may require extended lead times

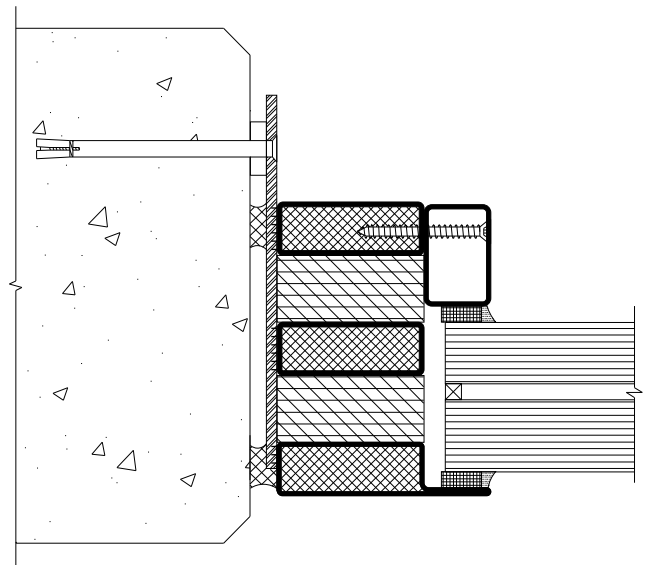
Continued...

BUILDING IN AND FIXING TYPE DETAILS



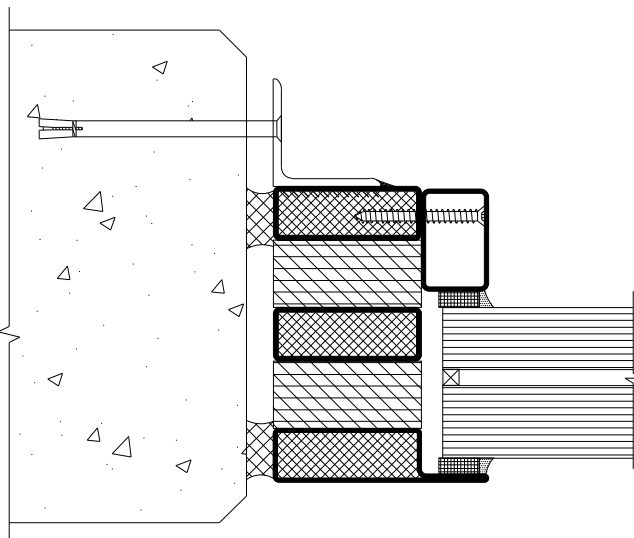
Fixing type FTFC01

M6 Flat head Dynabolt into masonry wall or 12G screws into fire rated Gyprock wall through steel frame, at max 600mm centers. Can only be used for site glazed applications. Fixings to 3 sides minimum (4 recommended)



Fixing type FTFC03

M6 Dynabolt into masonry wall or 12G screws into fire rated Gyprock wall through 150 x 50 x 2.5 welded steel plate at max 600mm centers. Can be used for factory glazed or site glazed applications. Fixings to 3 sides minimum (4 recommended)



Fixing type FTFC02

M6 Dynabolt into masonry wall or 12G screws into fire rated Gyprock wall through 75 x 75 x 3mm welded steel angle sections at max 600mm centers. Can be used for factory glazed or site glazed applications. Fixings to 3 sides minimum (4 recommended).

FIRE RATED GLAZING

Pyrostop -/120/120 fire window

TECH SHEET: FW-06

Issue: 22-02-11

Fire rated window, -/120/120 using Pilkington Pyrostop™ clear glass in an insulated steel frame

Page 1 of 3

DESCRIPTION

Insulated steel framed fire rated window providing 120 minutes integrity and 120 minutes of insulation protection with perfectly clear Pilkington Pyrostop™ insulating glass, this system is a great solution for applications requiring certified fire resistance for both integrity and insulation and the added safety benefit of radiation protection.

APPLICATIONS

Fire escapes, smoke lobbies, computer rooms, car parks and factories, boundary walls, or wherever there is a need for integrity and insulation protection, with the need to protect the building and occupants against the spread of fire due to radiant heat transmission.

FEATURES

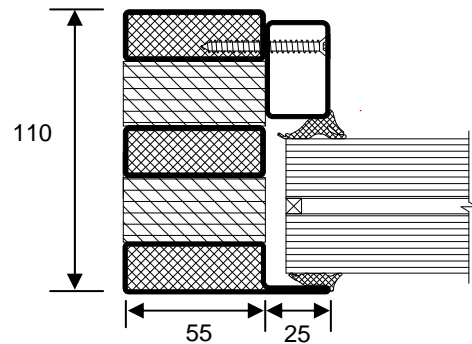
- Fully certified to Australian Standards AS1530.4
- -/120/120 FRL using 52mm Pilkington Pyrostop™ for internal applications, and 56mm for external applications
- Reduces radiant heat transmission by over 98%
- Internal and External applications
- Very high light transmission value
- Forster® insulated framing system
- Class A impact rated to AS2208
- For use in fire rated masonry walls.
- Single or Multiple panes up to 2400h x 1415w (visible) (2560 x 1575 overall frame size) (**recommended max size: 1.5m2 due to weight of system - Larger sizes are available upon request, however highly specialised lifting and glazing equipment will be required**)
- Arched windows
- Can be integrated into steel framed -/60/30 glass fire doors (*Contact Pyropanel for more information*)
- Standard finish is Prime Painted, ready for undercoating and top coat

OPTIONAL EXTRAS

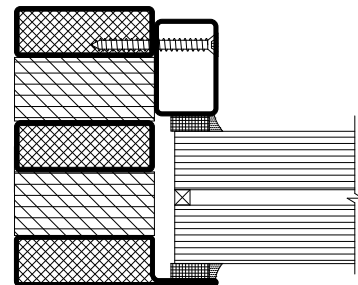
- Powdercoating
- Tinted films

MODELS AVAILABLE

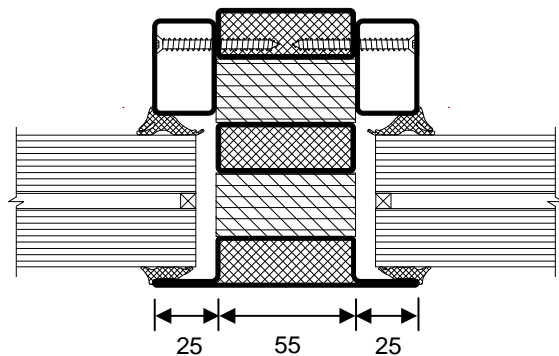
Model	FRL	Glass Thickness	Max Pane size (visible)
PFWS-PS120/120	-/120/120	52 or 56mm	2400 x 1415*



Standard profile with rubber beading (internal application)



Standard profile with silicone beading (internal or external application)



Standard mullion and transom profile

Continued...

HOW TO SPECIFY

*Eg, "Window to be fully test and certified Pyropanel Fire Window **PFWS-PS120/120**, -/120/120 FRL, incorporating Forster insulated steel frame and 52 / 56mm*Pilkington Pyrostop™ clear intumescent glass, with rubber beading / silicone weather seal*. System available from Pyropanel Developments"*

* denotes example - delete or change or specify as required



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 Web: www.pyropanel.com.au

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GLASS DATA

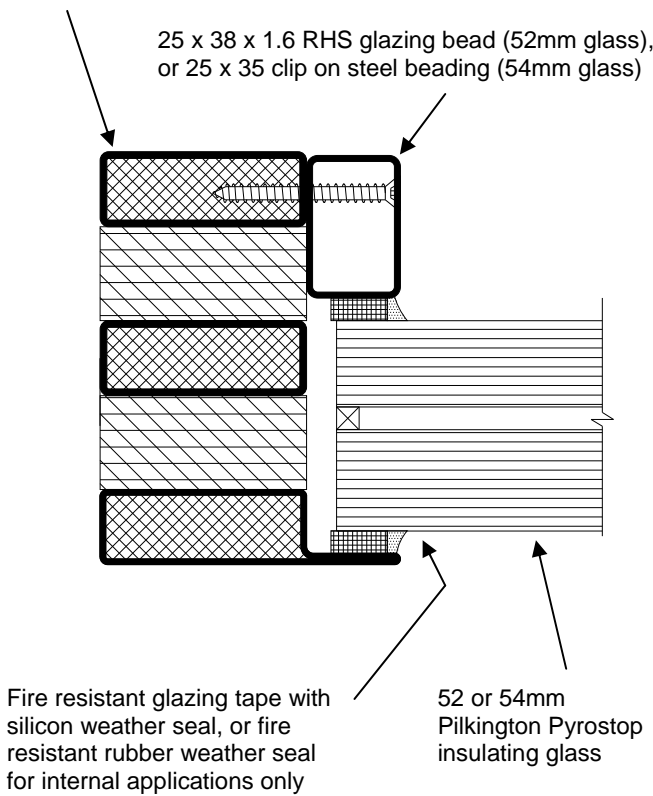
Product	Nominal Thickness (mm)	Application	Integrity (mins)	Insulation (mins)	Sound Reduction**	Light transmission %	Approx weight of glass (kg/m ²)	Approx weight of glass and frame (kg/m ²)
Pyrostop™ with Optiwhite™	52 IGU (23+6+23)	Internal	120	120	42	78	106	130
Pyrostop™ with Optiwhite™	56 IGU (27+6+23)	Internal / External	120	120	47	77	125	150

SYSTEM DETAILS

Standard system

- Off set glazing
- Silicon weather sealing for internal or external applications (wet glazing), or optional rubber weather stripping for internal application only (dry glazing)

Insulated steel window frame

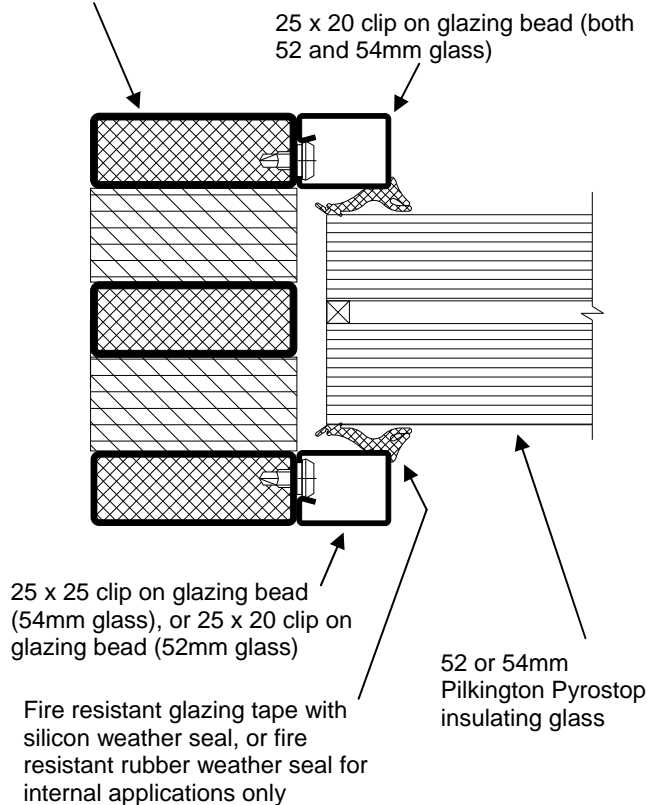


Standard off set glazing profile (internal or external application)

Optional glazing system

- Centre glazing
- Silicon weather sealing for internal applications only (wet glazing), or optional rubber weather stripping for internal application only (dry glazing)
- Frame profile may require extended lead times

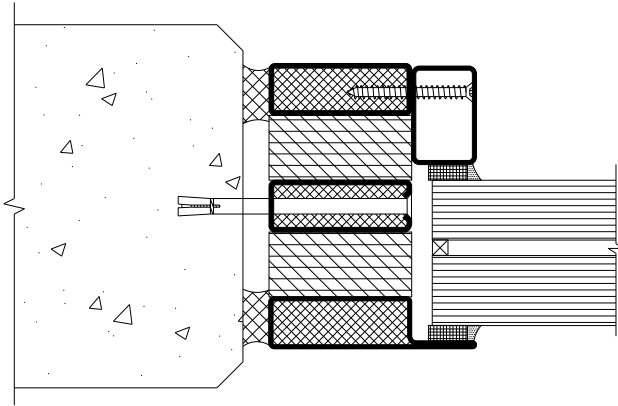
Insulated steel window frame



Alternative centre line glazing profile (internal application only)
Note: this frame profile may require extended lead times

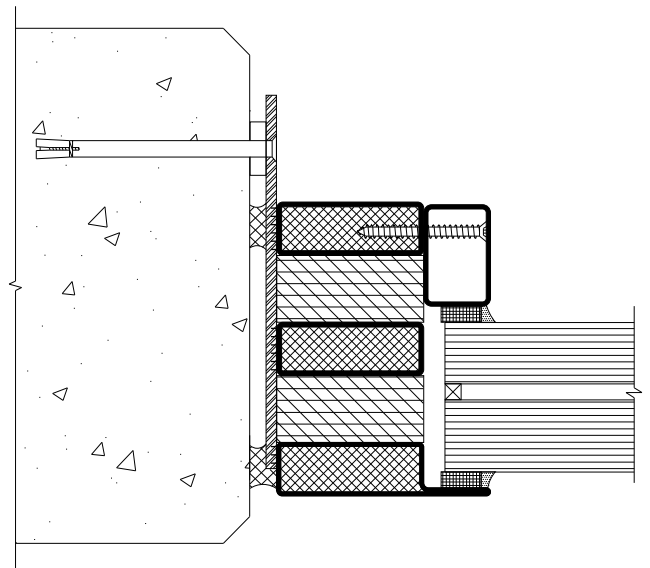
Continued...

BUILDING IN AND FIXING TYPE DETAILS



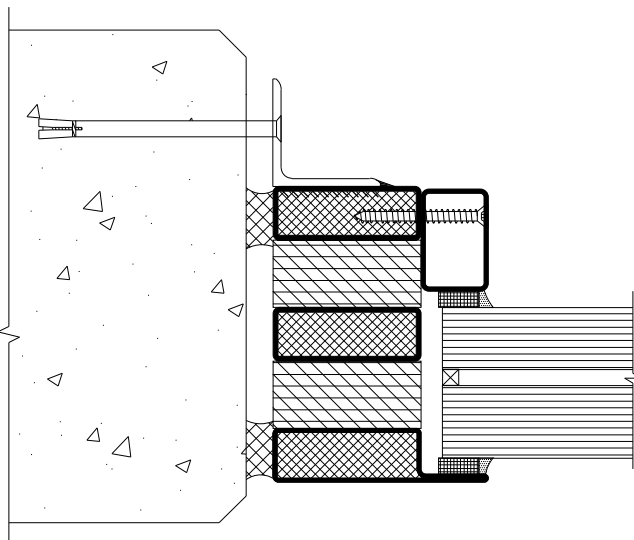
Fixing type FTFC01

M6 Flat head Dynabolt into masonry wall or 12G screws into fire rated Gyprock wall through steel frame, at max 600mm centers. Can only be used for site glazed applications. Fixings to 3 sides minimum (4 recommended)



Fixing type FTFC03

M6 Dynabolt into masonry wall or 12G screws into fire rated Gyprock wall through 150 x 50 x 2.5 welded steel plate at max 600mm centers. Can be used for factory glazed or site glazed applications. Fixings to 3 sides minimum (4 recommended)



Fixing type FTFC02

M6 Dynabolt into masonry wall or 12G screws into fire rated Gyprock wall through 75 x 75 x 3mm welded steel angle sections at max 600mm centers. Can be used for factory glazed or site glazed applications. Fixings to 3 sides minimum (4 recommended).

FIRE RATED GLAZING

Pyrostop -/60/30 timber framed fire window

TECH SHEET: FW-07

Issue: 22-02-11

Fire rated timber framed window, FRL -/60/30 using Pilkington Pyrostop™ clear glass for internal and external

Page 1 of 2

DESCRIPTION

Timber framed fire rated window providing one hour of integrity and 30 minutes of insulation protection with perfectly clear Pilkington Pyrostop™ insulating glass, with an FRL of -/60/30. Suitable for internal and external applications.

APPLICATIONS

Domestic houses, fire escapes, smoke lobbies, computer rooms, car parks and factories, boundary walls, or wherever there is a need for integrity and insulation protection, and the need to protect the building and occupants against the spread of fire due to radiant heat transmission.

FEATURES

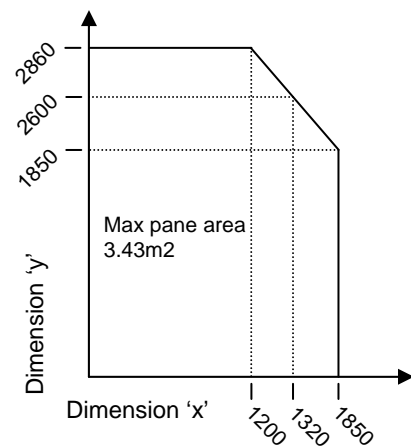
- Fully certified to Australian Standards AS1530.4
- -/60/30 FRL using 18mm Pilkington Pyrostop™ glass
- Pyropanel® special fire rated timber framing system with proprietary fire rated gaskets and sealants
- Reduces radiant heat transmission by up to 98%
- Internal and external applications
- Light transmission comparable to 5mm float glass
- Class A impact rated to AS2208
- For use in 1hr plasterboard walls and fire rated masonry walls.
- Single and multiple pane configurations
- Max pane size up to 3.3m2 visible area (3.4m2 pane size), with pane size up to 2860 x 1200 (see table).
- Multi pane configurations up to 4m high, no limitations on multi-pane span
- Can be installed as a side-lite or top-lite for 1hr fire rated doors in timber frames, including 1/2 lite and full lite timber-glass fire doors (*See Pyropanel glass fire doors, or contact Pyropanel for more information*)
- Frames can be painted, stained, or lacquered

OPTIONAL EXTRAS

- Tinted and opaque films
- Custom frame profiles available on request

MAXIMUM PANE SIZES

Maximum pane dimension 'y' (actual glass pane size) (mm)	Maximum pane dimension 'x' (actual glass pane size) (mm)	Maximum Pane area	Max visible size	Approx max overall pane size including frame
2860	1200	3.43m2	2826 x 1166 (3.3m2)	2956 x 1296
2600	1320	3.43m2	2566 x 1286 (3.3m2)	2696 x 1416
1850	1850	3.43m2	1816 x 1816 (3.3m2)	1946 x 1946



Maximum pane dimensions

Note: Dimensions 'x' and 'y' can be either horizontal or vertical (portrait or landscape). Any size is approved within the area under the graph, provided that the maximum sizes are not exceeded as per this graph, and provided that the maximum glass pane size is not greater than 3.43m2 (3.3m2 visible).

MODELS AVAILABLE

Model	FRL	Glass Thickness	Frame type	Max visible area
PFWT-PS60/30	-/60/30	18mm	Pyropanel® fire rated timber	3.3m2

HOW TO SPECIFY

Eg, "Window to be fully test and certified Pyropanel Timber Fire Window PFWT-PS60/30, -/60/30 FRL, incorporating Pyropanel fire rated timber window framing system and 18mm Pilkington Pyrostop™ clear intumescent glass. System available from Pyropanel Developments"....

Continued...



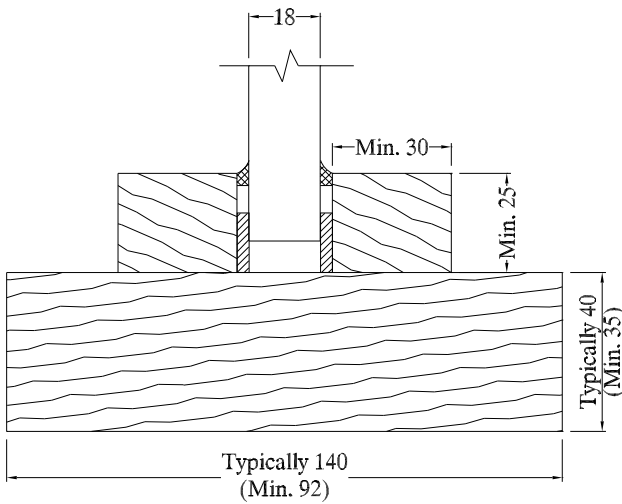
Pyropanel Developments Pty Ltd
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 Ph: (03) 9739 3100 Fax: (03) 9739 3115
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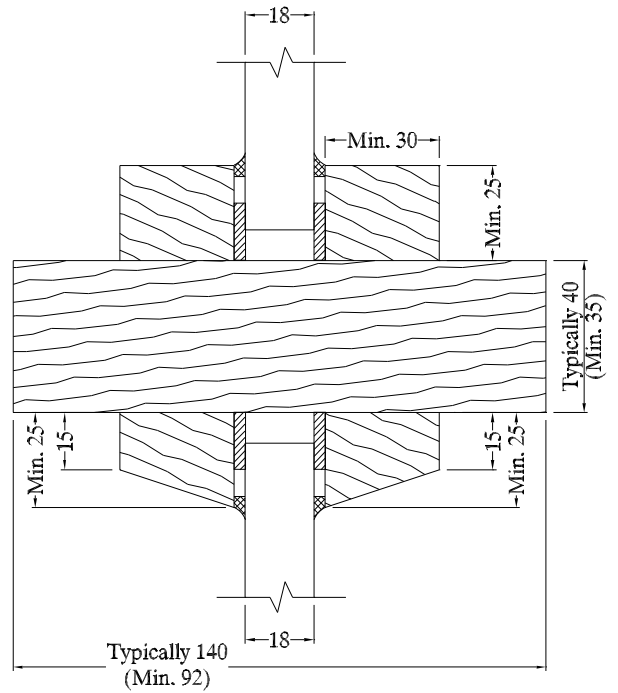
GLASS DATA

Product	Nominal Thickness (mm)	Application	Integrity (mins)	Insulation (mins)	Sound Reduction	Light transmission %	Approx weight of glass (kg/m ²)	Approx weight of glass and frame (kg/m ²)
Pyrostop™	18	Internal / External	60	30	38	85	42	55

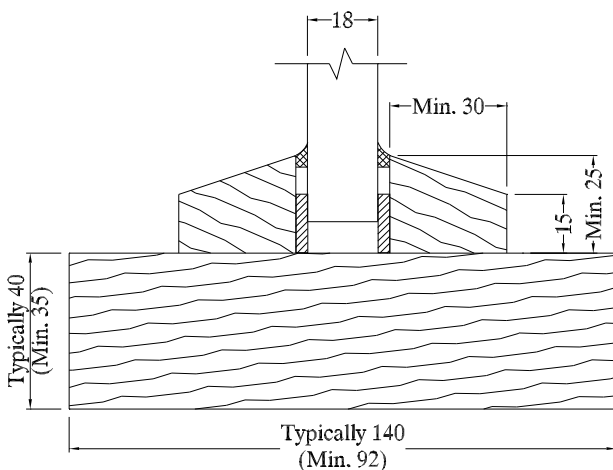
TYPICAL SECTIONS



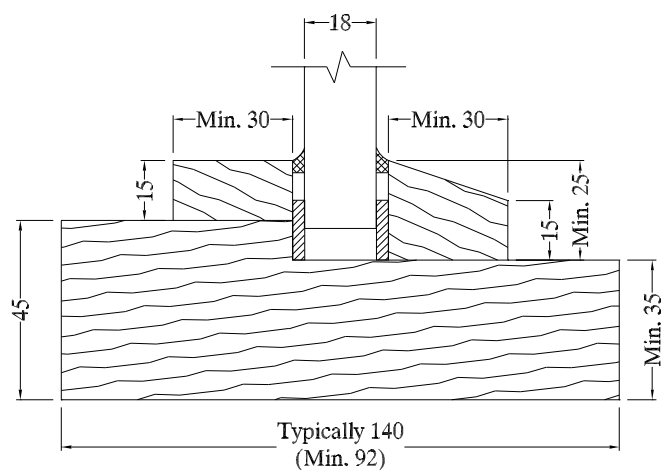
Typical section with standard square edge beading



Typical Mullion / transom section showing standard square edge beading or angled beading (optional)



Typical section with optional angled beading



Typical section with optional rebate for external applications



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Accessories System Guide



ACCESSORIES SYSTEM GUIDE

Issue: 03-08-2010

Introduction

Complementing the extensive range of fire and special purpose products, Pyropanel offer a range of accessories and product additions that are fully tested and certified to Australian standards as well as many international standards. These accessories are used to enhance or complete the system approach that Pyropanel takes to ensure total fire protection

Pyropanel are constantly adding and improving the range of products available, so if you are unable to find a product that you are looking for, please do not hesitate to contact Pyropanel to discuss your particular requirements.

Selection Guide

Model	Features	Tech Sheet
Fire rated air grille	Intumescent fire resistant air grille suitable for use in fire rated doors for up to 3 hours	ACC-01
Fire rated auto bolt	Latching mechanism for non-active leaf in Pyropanel fire rated door pairs	ACC-02
Fire rated intumescent smoke/fire seal	Pyropanel PFS2003 Intumescent smoke and fire seal for fire doors and hot smoke life safety doors	ACC-03
Fire rated roller latch	Latching mechanism for non active leaf in Pyropanel fire rated door pairs	ACC-04
Pyrosill seal	Fire rated floor mounted sill seal (mounted directly to floor) to reduce smoke leakage and improve acoustic performance of doorset	ACC-05
Euroseal smoke seal	Integrated smoke seals that are hidden and protected within a rebate in either timber or steel door frames. Fully tested for fire and acoustic performance, as well as smoke leakage to AS1530.7	ACC-06
Fire rated vision panels	Fire rated vision panels using various types of glass to achieve up to 4 hours of fire rating, as well as options for clear vision panels with Grade A impact rating	ACC-07
Fire rated meeting stiles	A range of meeting stiles to suit single acting and double acting fire doors for fire ratings up to 4 hours	ACC-08
Approved hardware list	A comprehensive list of hardware from various suppliers that has been tested and approved on Pyropanel fire doors	ACC-09

- Please refer to the Tech Sheet indicated for details on the particular door model required.
- Please refer to the Pyropanel Website for the latest Technical information.
- N/A indicates that this combination was not available at date of publication - please check with Pyropanel for latest approvals.
- If you do not find a product to suit your requirements, please contact Pyropanel Developments for the latest information on our comprehensive range of Passive Fire Protection Products.



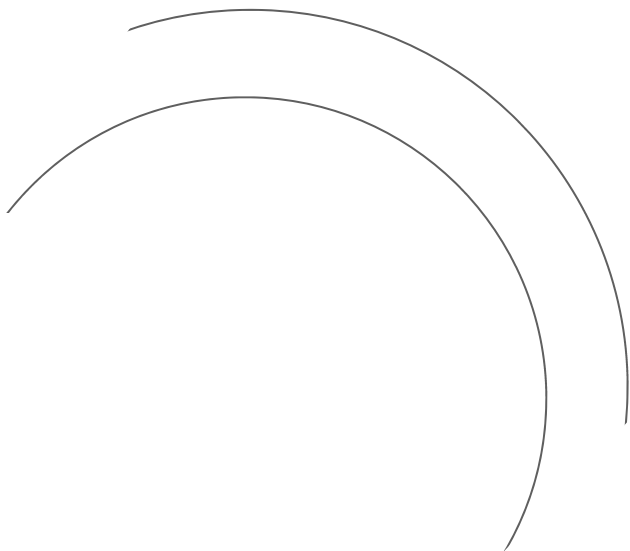
Pyropanel Developments Pty Ltd
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Web: www.pyropanel.com.au

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Availability

All Pyropanel products are available throughout Australia and various other countries through a network of licensed manufacturers and distributors. For a current contact list, please contact Pyropanel Developments or visit our website at www.pyropanel.com.au.

[Pyropanel > Fire Doors > Smoke Doors > Life Safety Doors > Fire Rated Glazing > Passive Products > Special Purpose Doors](#)



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W www.pyropanel.com.au

PYROPANEL®

FIRE RATED AIR GRILLE

Pyrogrille Fire Rated Air Grille

TECH SHEET: ACC-01

Issue: 03-08-2010

Intumescent Fire Resistant air grille suitable for use in fire rated doors

DESCRIPTION

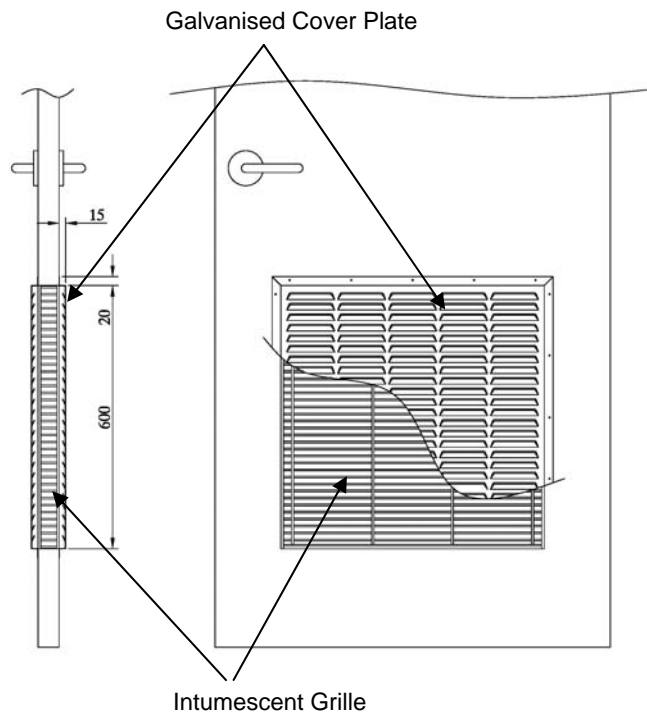
Pyropanel PYROGRILLE is an intumescent fire resistant air grille, especially designed to provide fire protection of air relief penetrations in fire doors. The intumescent material softens at high temperatures to completely seal the penetration and maintain the fire resistance level of the door or wall. Tested to AS1530.4-1997, BS476-Part 22:1987, and Annex E of SS332:2000

APPLICATIONS

Air Flow penetrations through all types of Pyropanel Fire Rated Doors with FRL up to -/180/30. *Note: these grilles are not Fire Dampers.*

FEATURES

- Maintains the Fire Resistance level of any Pyropanel Fire Resistant Door with an FRL of up to -/180/30
- Easy to Install
- Galvanised cover plates to each face of door
- Allows air circulation to maintain temperature control
- Reduces door closing pressure on enclosed rooms



INSTALLATION

1. Cut penetration in door – note: penetration must be a minimum of 150mm from all door edges.
2. Insert intumescent grille into center of cavity.
3. Seal intumescent grille into penetration with Pyropanel Multiflex fire resistant sealant, ensuring any gaps around the entire perimeter of the penetration are filled with the sealant.
4. Install cover plate to both sides of door or opening.
5. Where the door thickness exceeds 70mm, two intumescent internal grilles are required, each to be installed within 5mm of the face of each side of the door

TEST RESULTS

Up to -/180/30 for AS 1530.4-1997, BS476- Part22:1987, and Annex E of SS332:2000

MODELS AVAILABLE

Model	Penetration opening size (H x W) (mm)	Overall size including cover (mm)
IGS300X300	300 x 300	340 x 340
IGS300X600	300 x 600	340 x 640
IGS450X450	450 x 450	490 x 490
IGS450X600	450 x 600	490 x 640
IGS600X600	600 x 600	640 x 640

HOW TO SPECIFY

"Door to be a Pyropanel fire rated door with a Pyropanel Pyrogrille Fire rated air grille, IGS300X300"... etc,

PYROANEL
Protecting Life & Property

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ACCESSORIES

Pyropanel Auto Latch

TECH SHEET: ACC-02

Issue: 03-08-2010

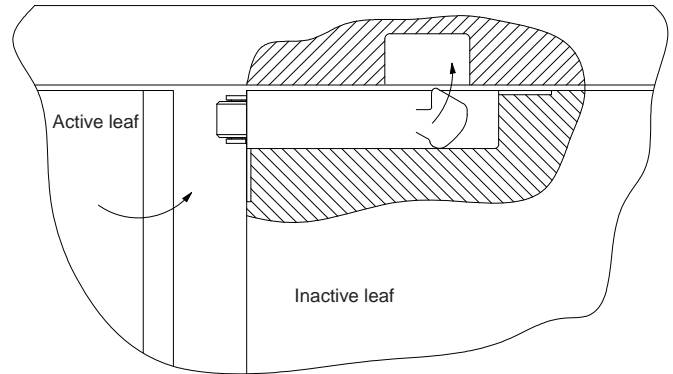
Latching mechanism for non-active leaf in Pyropanel Fire Rated Pair Doorsets

DESCRIPTION

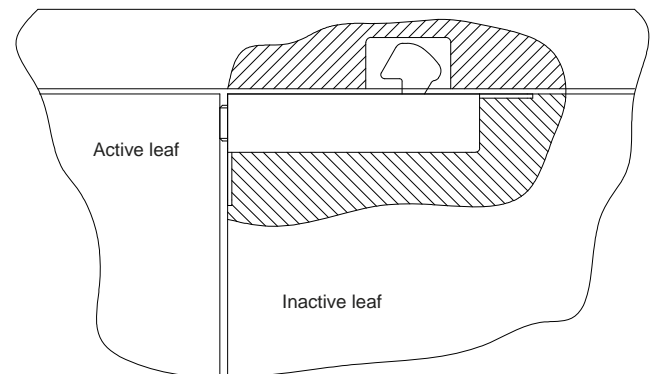
Automatic latching bolt for fire door pairs which is recessed into the head of the non active leaf, and automatically bolts the non-active leaf when the active leaf returns to the closed position.

FEATURES

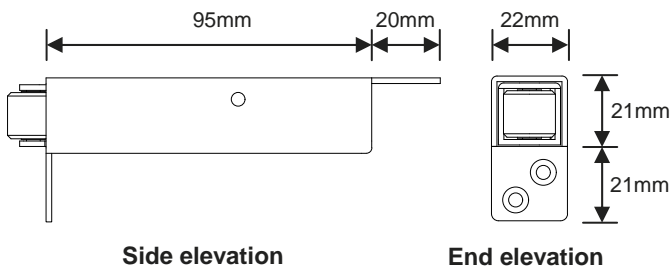
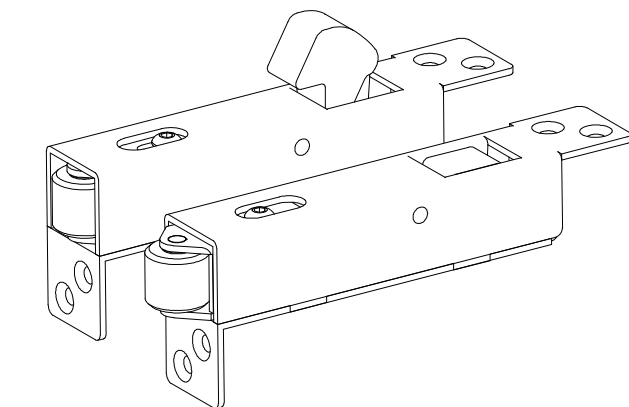
- Suitable for Pyropanel Fire Rated pair doorsets.
- Designed to securely hold the inactive leaf closed in the event of a fire scenario.
- Fire Rated up to 4 hrs.
- Fail safe.
- Manufactured in Australia.
- Easy to install.
- Head of the door frame requires a rectangular hole.



Front elevation showing disengaged Auto latch with active door leaf open



Front elevation showing engaged Auto latch after active door leaf is closed



HOW TO SPECIFY

"Pyropanel Fire Rated Doorset Pair to include Pyropanel Fire Rated Auto Latch to inactive leaf"...

FIRE RATED ACCESSORIES

Pyropanel PFS2003 Fire Seal

TECH SHEET: ACC03

Issue: 03-08-2010

Intumescent Smoke and Fire Seal for fire doors and hot smoke Life Safety Doors

DESCRIPTION

Pyropanel PFS2003 Fire Seal is an intumescent fire and smoke seal that is activated under fire conditions to restrict the passage of hot smoke and fire. The intumescent material softens and expands at high temperatures to seal the gap between the door edge and door frame to restrict the passage of hot smoke and help maintain the fire resistance level of the door.

APPLICATIONS

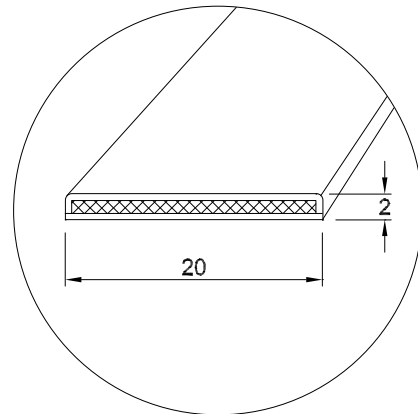
Pyropanel Fire Seals can be rebated into the head and edges of either the door leaf or timber frame.

FEATURES

- Creates a hot smoke seal to resist both fire and smoke under fire conditions.
- Only 20mm wide X 2mm thick
- Can be used in conjunction with the Pyropanel *Life Safety door* range to upgrade the smoke resistance to Hot smoke.
- Integrated PVC cover can be painted
- Can be rebated into either the door edge and head or into a fire rated timber door frame
- Available in Red & black.

INSTALLATION

1. Rebate 3mm x 20mm groove into door frame or edge of door leaf.
2. Apply seal to rebate using integrated self adhesive backing strip.
3. Paint as required.



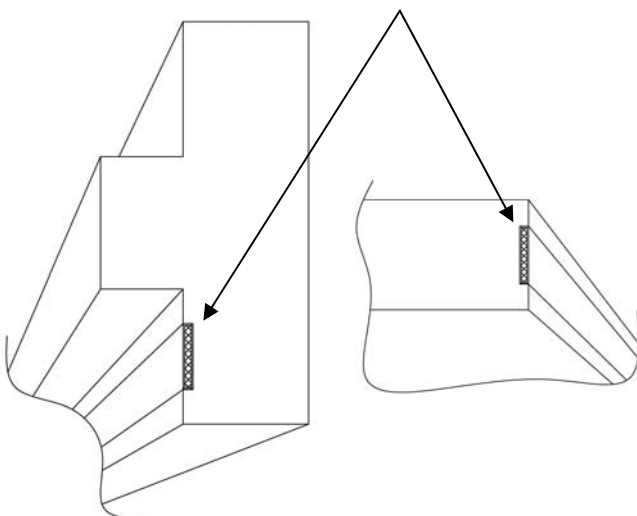
SUITABILITY

All Pyropanel fire doors up to -/240/30

MODELS AVAILABLE

Model	Colour	Overall Size
PFS2003-R	Red	2mm x 20mm
PFS2003-BI	Black	2mm x 20mm

Pyropanel PFS2003 Fire Seal



HOW TO SPECIFY

"Install Pyropanel Intumescent Fire Seal PFS2003 to the head and sides of door frame / head and edges of door leaf"... etc,*

* Delete as required

FIRE RATED ACCESSORIES

Pyropanel Roller-Latch

TECH SHEET: ACC-04

Issue: 03-08-2010

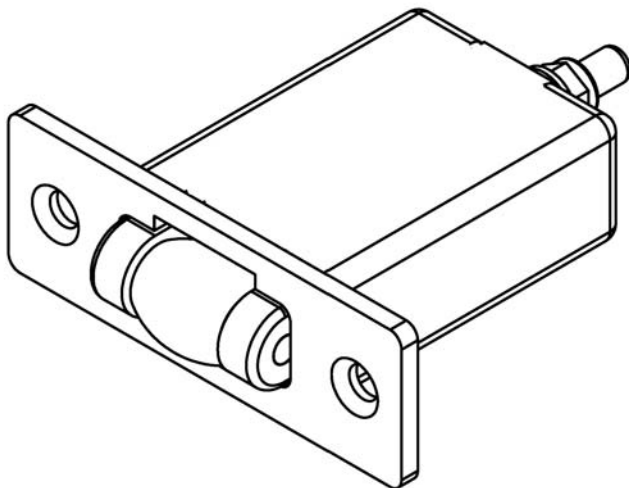
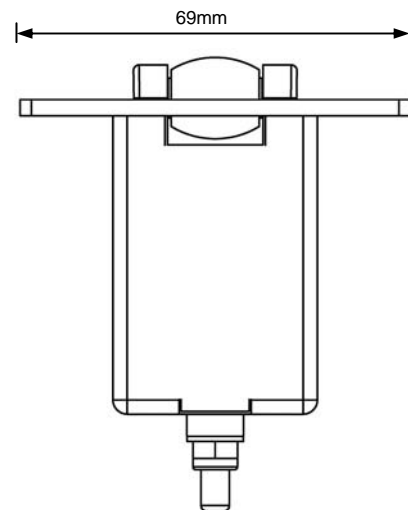
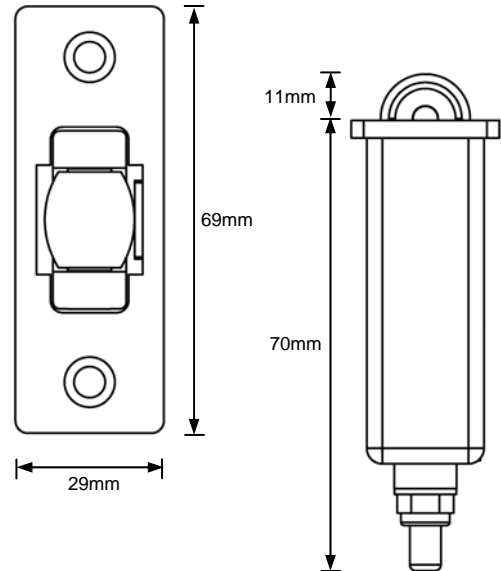
Latching mechanism for non-active leaf in Pyropanel Fire Rated Pairs Doorsets.

DESCRIPTION

Fire activated 'hold-close' latch suitable for the inactive leaf in most Pyropanel Fire Rated Pair Doorset.

APPLICATIONS / FEATURES

- Suitable for Pyropanel single action or double action Fire Rated Pair Doorsets.
- Designed to securely hold the inactive leaf closed in the event of a fire scenario
- Can be installed to the head of both leaves of a double - action pair
- Can be installed to the meeting stile of a double action pair
- Suitable for most types of Pyropanel Fire Rated Pair Doorsets
- Fire Rated up to 4 hrs
- Fail safe
- Manufactured in Australia
- Easy to install
- Must be used with custom designed single - action or double - action striker (supplied).



HOW TO SPECIFY

"Pyropanel Fire Rated Doorset Pair to include Pyropanel Fire Rated Roller-Latch to inactive leaf".



Pyropanel Developments Pty Ltd
122-124 Beresford Rd, Lilydale, VIC, 3140
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Web: www.pyropanel.com.au

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ACCESSORIES

Pyropanel Pyrosill

TECH SHEET: ACC-05

Issue: 03-08-2010

Floor mounted fire rated acoustic and smoke sill seal

DESCRIPTION

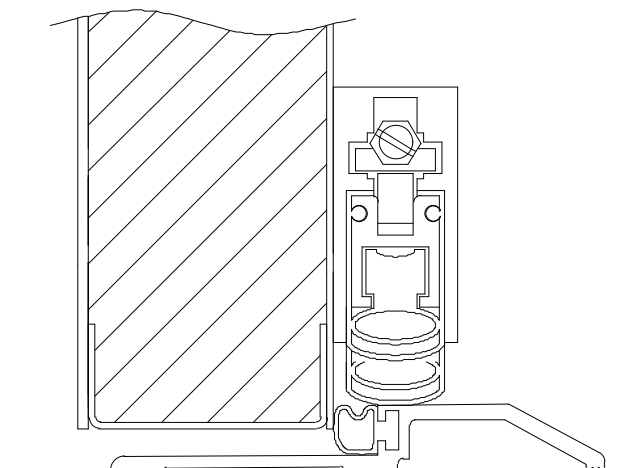
An aluminium floor mounted fire rated sill seal incorporating a silicone based seal that reduces the passage of sound and smoke.

APPLICATIONS

Commercial and domestic applications requiring a high performance acoustic and smoke seal. Has been tested with Pyropanel Acoustic doors for up to 47RW of acoustic resistance

FEATURES

- Slimline design - only 12.5mm high
- replaceable rubber seal
- Easy to install



Example of Pyrosill installed at base of Pyropanel AS-47-Special acoustic door with Zero 367A, tested to 47 RW for acoustic rating

CLEARANCES

Max clearance under door before installing Pyrosill = 8mm

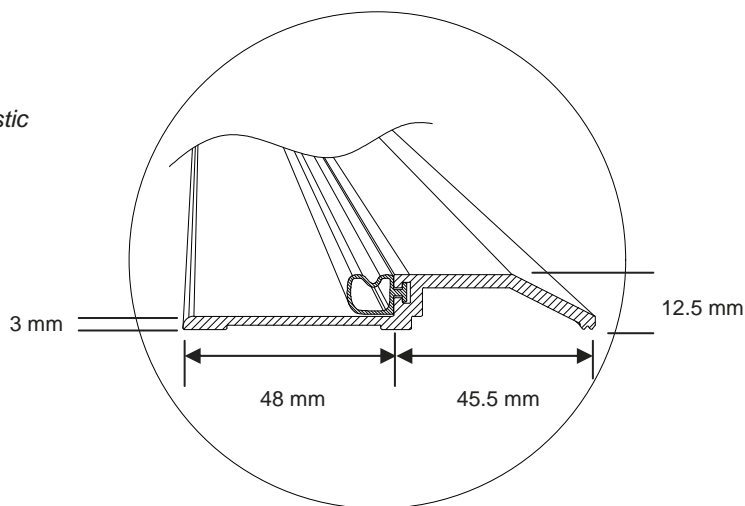
Min clearance under door before installing Pyrosill = 4mm

Max clearance under door to Pyrosill = 5mm

Min clearance under door to Pyrosill = 1mm

HOW TO SPECIFY

"Door seal to be a Pyropanel Pyrosill seal fire rated acoustic smoke seal..."



PYRO PANEL
Protecting Life & Property

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ACCESSORIES

Euroseal® medium temperature smoke & acoustic seal

TECH SHEET: ACC-06

Issue: 03-07-07

Fire rated medium temperature perimeter smoke and acoustic seal, concealed into door frame

Page 1 of 2

DESCRIPTION

A fire rated silicone smoke seal that is concealed inside the door frame and provides protection against the transmission of ambient and medium temperature smoke, and sound.

APPLICATIONS

Unit entry doors, fire doors, offices, schools, hotels, hostels, nursing homes, hospitals, factories or any application that requires protection against the spread of ambient or medium temperature smoke, or which requires the reduction of sound transmission.

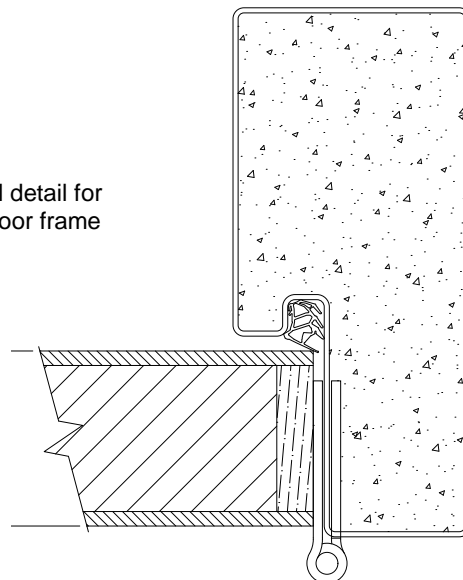
The specially designed frames (timber or steel), and are available in either fire rated or non fire rated profiles. The Euroseal holds itself in position in the door stop without the need for any adhesives and can be easily installed on site after painting of the door frame

FEATURES

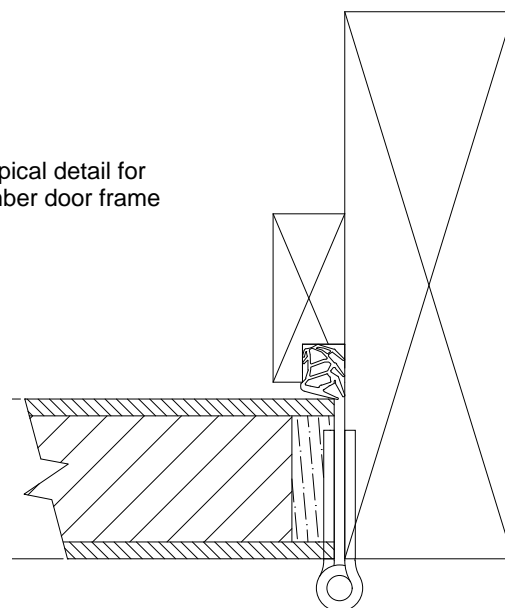
- Fully certified to Australian Standards
- Suitable for all Pyropanel fire rated doorsets up to 2 hours FRL (AS1530.4, BS 476)
- Up to 40 STC (Rw) rating
- Does not reduce clear opening width
- Extremely cost effective and durable
- Relief from slamming doors
- No adhesives required - simply pressed into the frame after painting
- Reduces medium (200°) and ambient temperature smoke transmission
- Completely concealed when door is closed
- Stops dust
- Can be easily removed, cleaned and refitted into the 10mm x 10mm rebate
- Tested and Approved for 1hour fire rated Pyropanel Life Safety Doors (certified smoke doors) with less than 2m³/h of smoke leakage on selected Life Safety Door models (Refer Life Safety door section of product manual)
- Preformed pressed metal doorframes available from all Pyropanel licensed distributors to suit a wide variety of wall types (Refer tech sheet FRAME-04 for full range of Euroseal pressed metal door frames)
- DXF files of frames available from the Pyropanel website
- See over for correct installation instructions

OPTIONAL EXTRAS

Typical detail for steel door frame



Typical detail for timber door frame



HOW TO SPECIFY

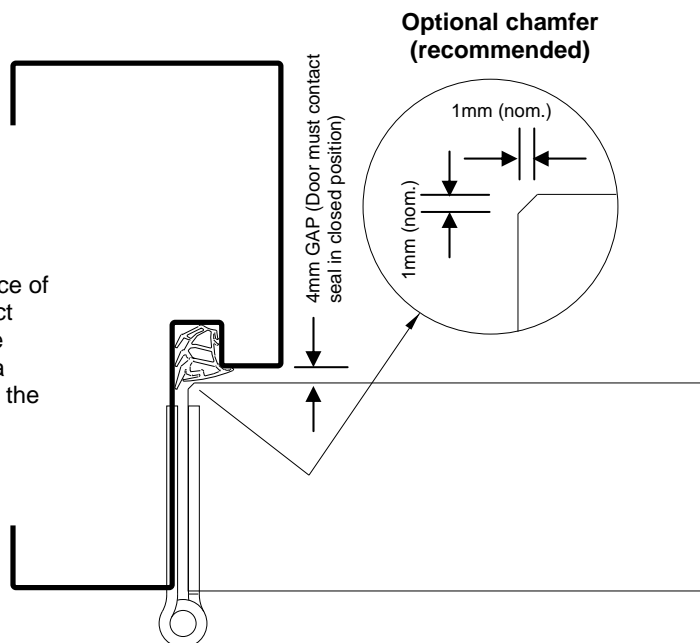
Eg, "Perimeter door seal to be a Pyropanel Euroseal® concealed medium temperature smoke and acoustic seal, installed into a pressed metal door frame / timber door frame* to suit appropriate wall type and fire rating"

* denotes example - delete or change or specify as required

INSTALLATION

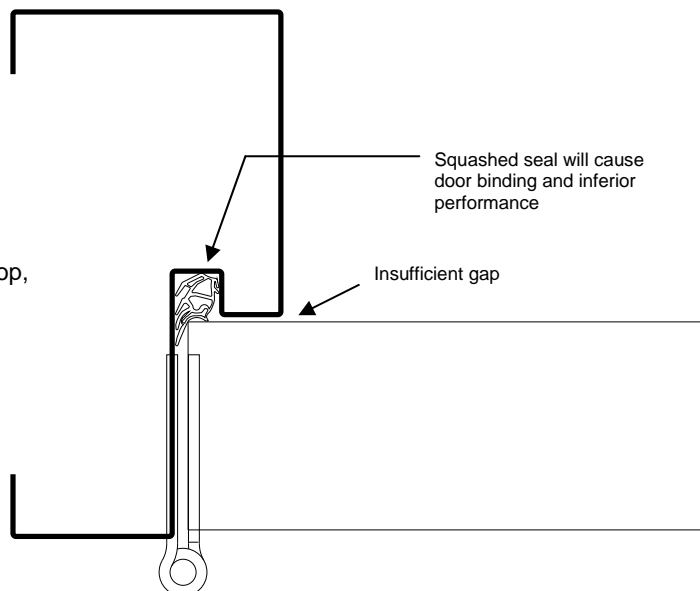
CORRECT INSTALLATION

Correct installation requires a 4mm gap between the face of the door and the door stop. This provides for the correct compression of the seal, and allows the door to operate properly. It is also possible (but not required) to apply a slight chamfer the corner of the door to further increase the performance of the seal (see insert).



INCORRECT INSTALLATION

Incorrect installation occurs where there is insufficient clearance between the face of the door and the door stop, causing too much compression of the Euroseal, which results in damage to the seal, and jamming doors.



NOTE: Correct closer selection is important for ALL doors fitted with compression seals. (If in doubt, please contact your hardware supplier to determine suitability)

ACCESSORIES

Fire rated vision panel

TECH SHEET: ACC-07

Issue: 03-08-2010

Fire rated vision panels suitable for up to 4 hr fire rated doors

Page 1 of 2

DESCRIPTION

Vision panels utilising Pilkington Pyrodur™, Georgian wired glass and Pyroceram glass, mounted in aluminium, steel or stainless steel surrounds for up to 4 hours of fire rating.

APPLICATIONS

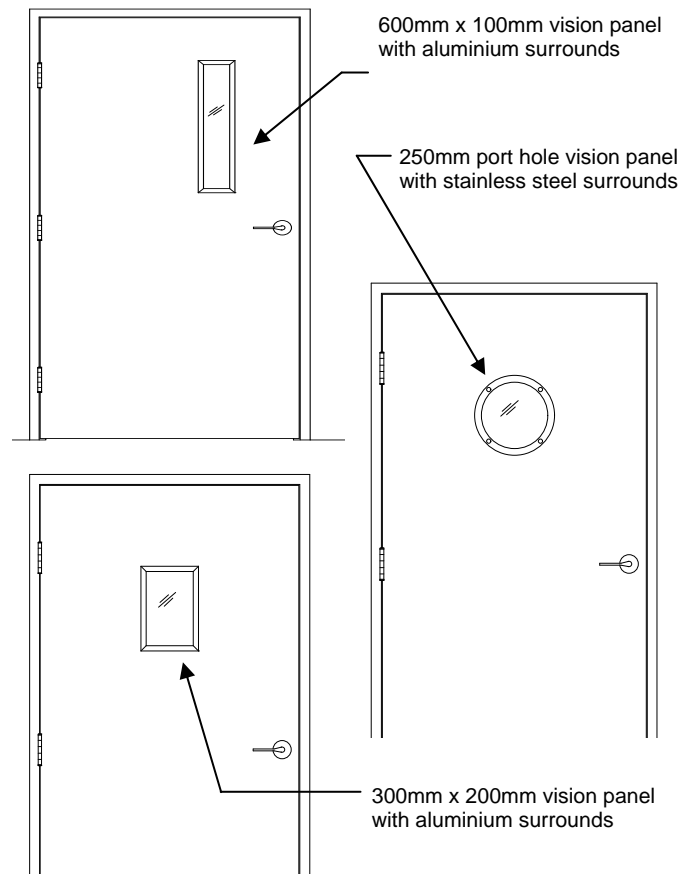
Fire doors located in car parks, factories schools, hospitals, or wherever there is a need to see through a fire door. Suitable for all Pyropanel timber and steel fire doors. *Note: Australian Standards 1530.4 and 1905.1 limit visible area for glass that has an insulation value less than 30 minutes to a maximum area 65,000mm², when used in fire doors.*

FEATURES

- All options fully certified to Australian Standards
- Standard sizes: 300mm x 200mm (nom), 600mm x 100mm (nom) and 250mm (nom) diameter porthole
- 13mm Pilkington Pyrodur glass
 - Perfectly clear glass
 - Grade A safety glass (AS1288)
 - 2 hr fire rating
 - Maximum 65,000mm² visible
 - Suitable for 38mm and 48mm doors
- 6mm Georgian wired glass
 - Clear in appearance
 - 10mm steel wires
 - Grade B safety glass (approved for use in doors)
 - 1 hr fire rated
 - Maximum 65,000mm² visible
 - Suitable for 38mm and 48mm doors
- 5mm Pyroceram ceramic glass
 - Slightly bronze colour in appearance
 - Non safety glass (impact film must be applied to comply with AS1288)
 - 4 hr fire rated
 - Maximum 65,000mm² visible
 - Suitable for 38mm and 48mm doors

OPTIONAL EXTRAS

- Custom sizes available
- For vision panels greater than 65,000mm² visible area, please refer to "Glass fire doors" within the Fire Door section



HOW TO SPECIFY

Eg, "Door to have 600 x 100mm* Pyropanel PVP-Pyrodur* vision panel including anodised aluminium surrounds..."

* denotes example - delete or change or specify as required

MODELS AVAILABLE

Continued...

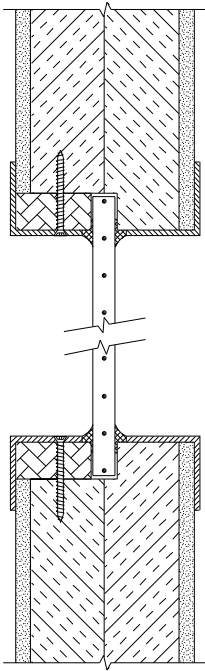
Model	Maximum fire rating	Glass	Light transmission	Thickness	Wires	Impact rated	Requires additional impact film?	Aluminium Surrounds?	Maximum Visible area
PVP-Georgian	1hr	Georgian wire	75% (approx)	6mm	Yes	Grade B	No	Yes	65,000mm ²
PVP-Pyrodur	2hr	Pyrodur™	85%	13mm	No	Grade A	No	Yes	65,000mm ²
PVP-Pyroceram	4hr	Pyroceram™	65% (approx)	5mm	No	No	Yes	Yes	65,000mm ²



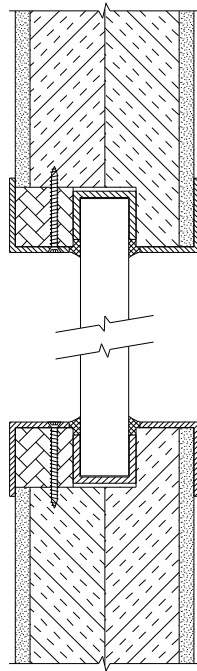
Pyropanel Developments Pty Ltd
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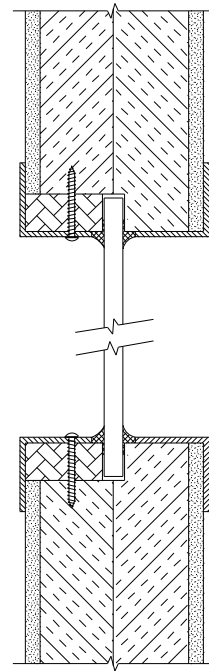
TYPICAL SECTIONS



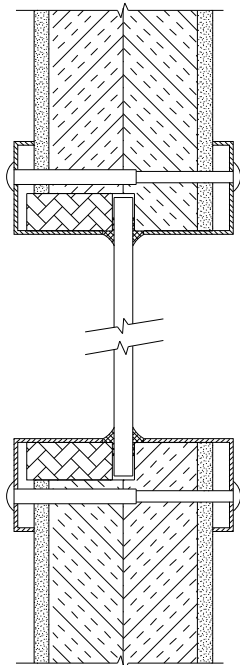
6mm Georgian wired glass vision panel (1 hr)



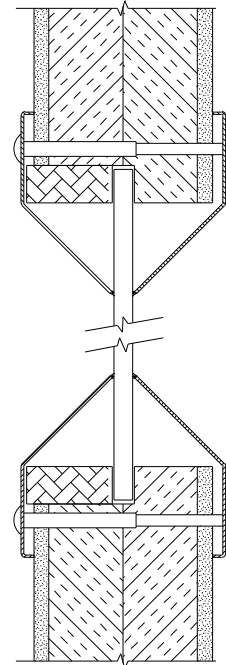
13mm Pilkington Pyrodur™ vision panel (2 hr)



5mm Pyroceram vision panel (4 hr)



Standard port hole vision panel with square edge surrounds



Optional port hole vision panel with angled edge surrounds

ACCESSORIES

Fire rated meeting stiles

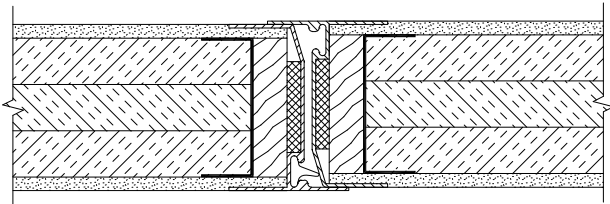
TECH SHEET: ACC-08

Issue: 08-09-06

Fire rated meeting stiles suitable for Pyropanel fire doors for up to 4 hours of fire rating

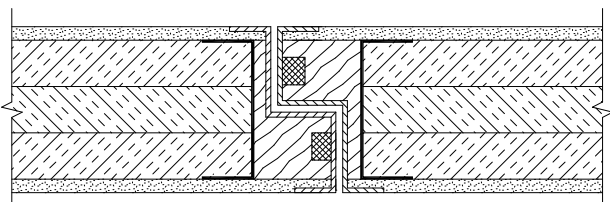
DESCRIPTION

Fire rated meeting stiles suitable for Pyropanel fire doors for up to 4 hours of fire rating.



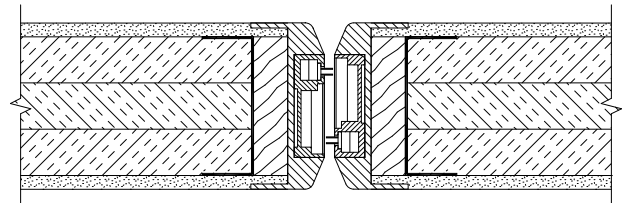
Aluminium J-Section meeting stile (Up to 4 hours of fire rating)

Standard meeting stile detail of anodised aluminium interlocking J-Section fitted to each leaf. Smoke seals to both leaves available as optional extra. Meeting stile is approved for Life Safety Doors (certified smoke doors). Active leaf should be nominated in specification when ordering.



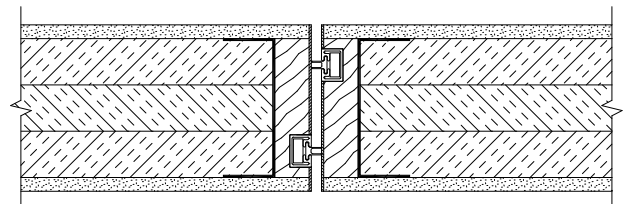
Aluminium rebated meeting stile (Up to 4 hours of fire rating)

Meeting stile detail of anodised aluminium suitable for doors with up to 4 hours of fire rating.



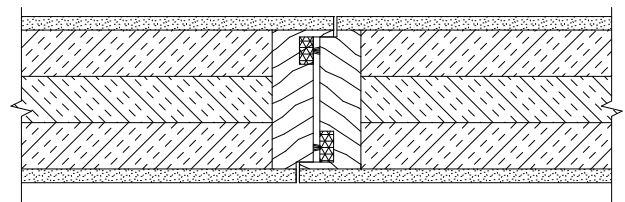
Aluminium bull nosed meeting stile (Up to 3 hours of fire rating)

Meeting stile detail of anodised aluminium suitable for single acting and double acting fire doors for up to 3 hours of fire rating. Meeting stile incorporates the Pyropanel fin seal.



Square edge meeting stile (Up to 1 hour of fire rating)

Meeting stile detail of with Raven RP76 seals and veneered edge strip to enable the meeting stiles to look like solid timber.



Timber double rebated meeting stile (Up to 1 hour of fire rating)

Timber meeting stile with double rebated detail and integrated smoke seals.

ACCESSORIES

List of approved hardware

TECH SHEET: ACC-09

Issue: 03-08-2010

Comprehensive list of hardware from various suppliers that has been tested and approved on Pyropanel fire doors

The list of approved hardware for Pyropanel fire doors is currently being updated

Please contact your nearest Pyropanel distributor for confirmation that your desired hardware is approved for use on fire doors.

Please look up Pyropanel website for the contact details of the distributor in your state or please follow the link below

<http://www.pyropanel.com.au/en/site/Pyropanel/Distribution/Australia/>



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Frames and Building in details System Guide

FRAMES & BUILDING-IN DETAILS SYSTEM GUIDE

Issue: 03-08-2010

Introduction

The following section details the various frame types available to suit Pyropanel fire doors, and also the methods that are approved to fix frames to various wall types.

All frames should be built in true and square, and all must be sealed back to the fire rated wall using Pyropanel Multiflex fire rated acrylic sealant.

If you have a wall type that is not listed, or if you require further information on fixing methods, please do not hesitate to contact Pyropanel directly, or any of the licensed Pyropanel distributors.

Selection Guide

Product	Features	Tech Sheet
Building in gyprock walls	Various methods for building steel and timber doorframes in to lightweight gyprock (plaster) walls	BUILD-01
Building in masonry walls	Various methods for building steel and timber doorframes in to masonry and concrete walls	BUILD-02
Rectification of gaps	Methods for reducing clearances around fire doors to achieve relevant certification	BUILD-03
Non fire rated door frames	Various profiles of non fire rated steel door frames	FRAME-01
Fire rated door frames	Various profiles of non fire rated steel door frames	FRAME-02
Euroseal fire rated door frames	Various profiles of fire rated steel door frames incorporating Euroseal® rebate for integrated smoke and acoustic performance	FRAME-03
1hr Timber fire rated door frame	Details about the Pyropanel 1Hr fire rated timber door frame	FRAME-04
MDF fire rated door frame	Details about the Pyropanel MDF fire rated door frame	FRAME-05
Upgrading non fire rated door frames	Allowable methods for upgrading non fire rated steel door frames to suit Pyropanel fire rated doors	FRAME-06
2hr Timber Fire rated door frame	Details about the Pyropanel 2Hr fire rated timber door frame	FRAME-07



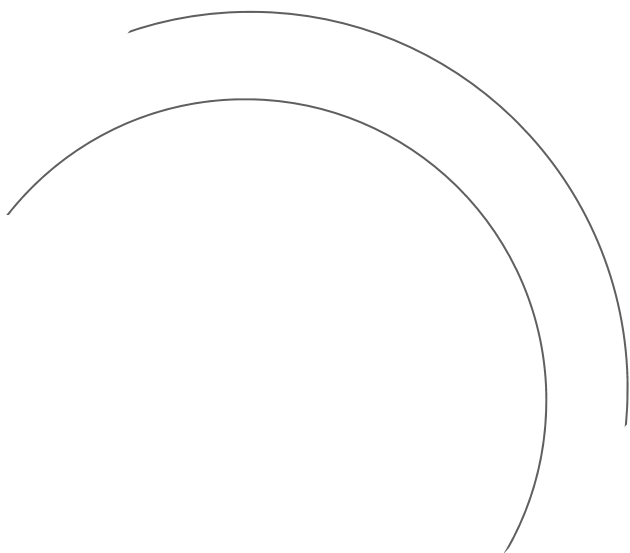
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122-124 Beresford Rd, Lilydale, VIC, 3140
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Email: sales@pyropanel.com.au
Web: www.pyropanel.com.au

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Availability

All Pyropanel products are available throughout Australia and various other countries through a network of licensed manufacturers and distributors. For a current contact list, please contact Pyropanel Developments or visit our website at www.pyropanel.com.au.

[Pyropanel > Fire Doors > Smoke Doors > Life Safety Doors > Fire Rated Glazing > Passive Products > Special Purpose Doors](#)



PYROPANEL
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W www.pyropanel.com.au

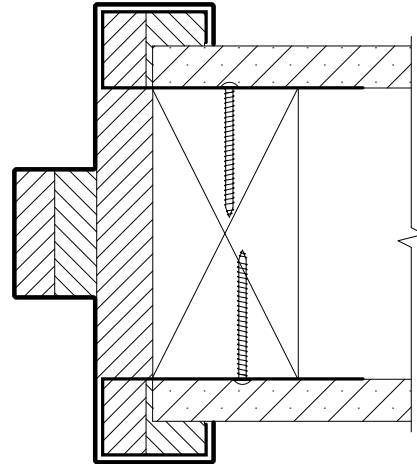


DESCRIPTION

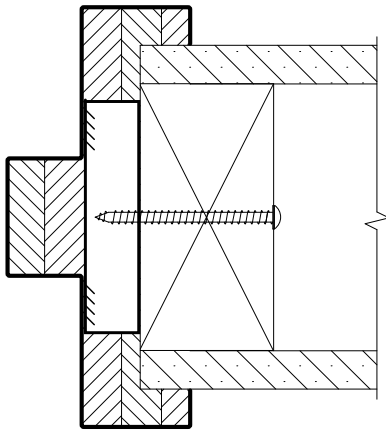
Building in details showing the approved fixing methods for gyprock walls up to 2 hours of fire rating.

REQUIREMENTS

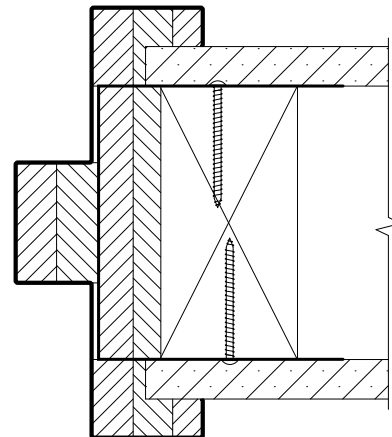
- Backfilling with fire rated gyprock or rockwool is highly recommended, but not required up to 2 hour FRL. All acoustic warranties and approvals are void for unpacked frames.
- Ensure all gaps are tightly filled with Pyropanel Multiflex fire rated acrylic sealant.
- Fixings to be at max. 500mm centres



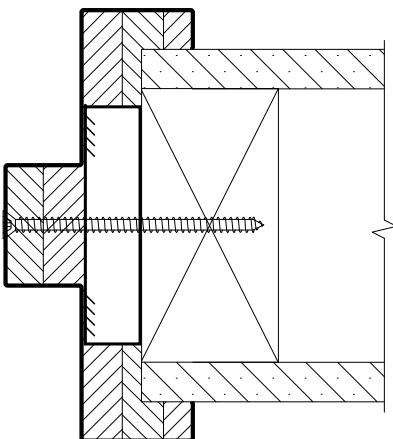
Stud Bracket



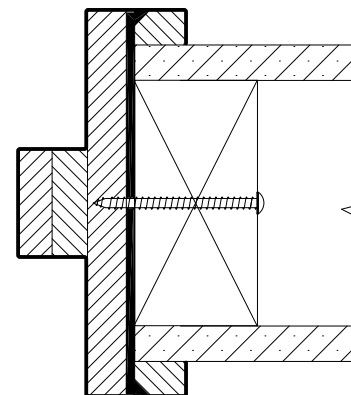
MS tube or saddle bracket



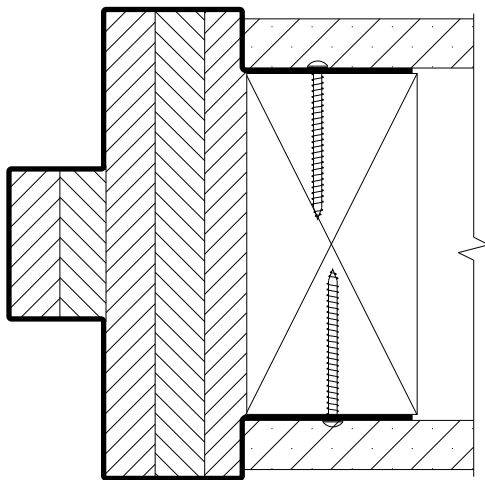
C-Section



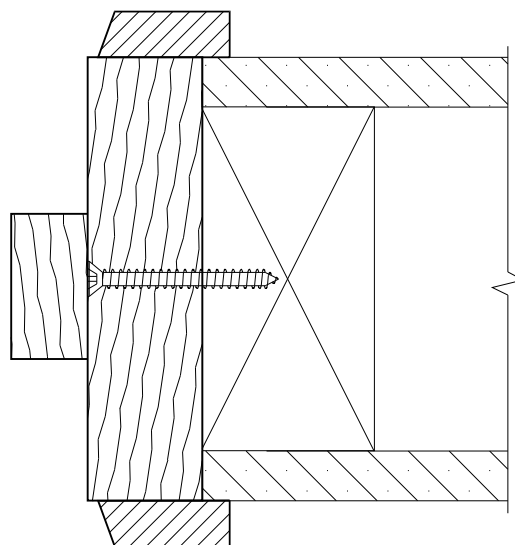
MS tube or saddle bracket



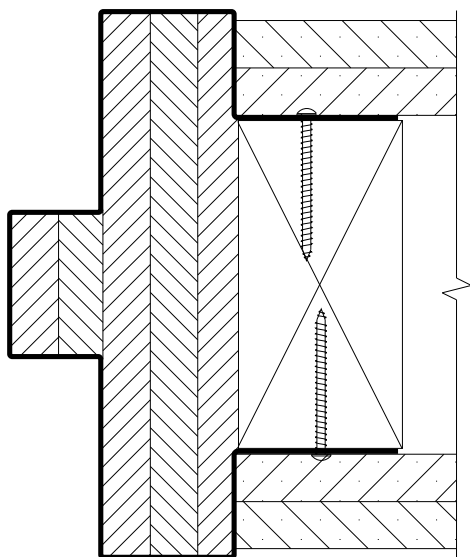
Steel strap



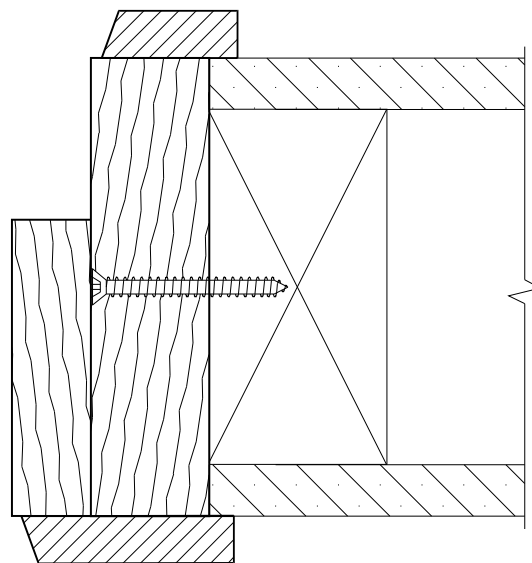
Steel frame - single layer of plasterboard



Timber frame - Single layer of plasterboard



Steel frame - double layer of plasterboard



Timber frame - Single Rebate with single layer of plasterboard

BUILDING IN DETAILS

Masonry, brick, aerated brick walls

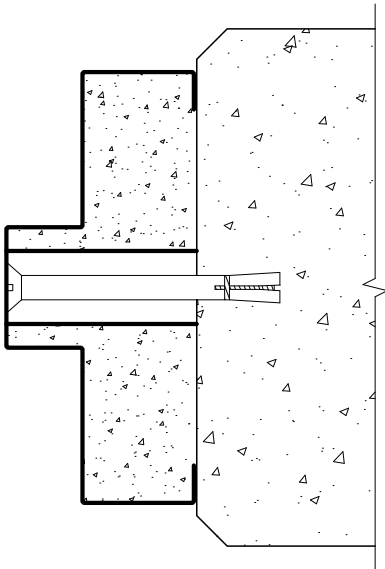
TECH SHEET: BUILD-02

Issue: 07-06-2010

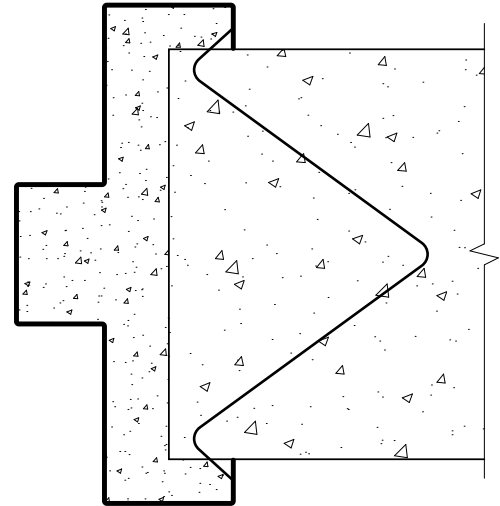
Allowable building in details for masonry (concrete, brick, etc) walls

DESCRIPTION

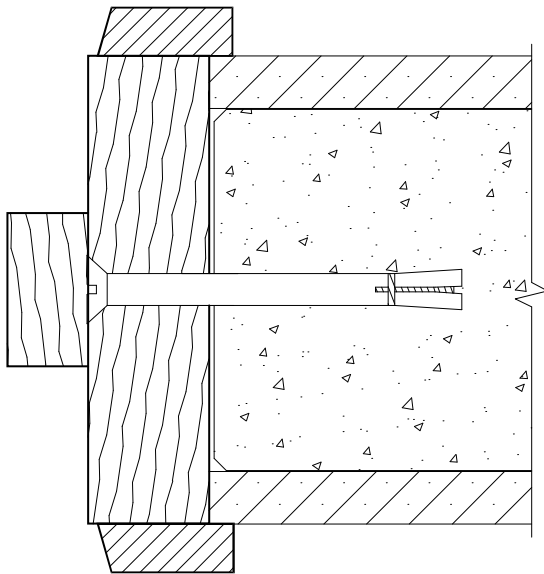
Building in details showing the approved fixing methods for masonry walls, including concrete, brick, aerated lightweight brick (Hebel®) walls for up to 4 hours of fire rating.



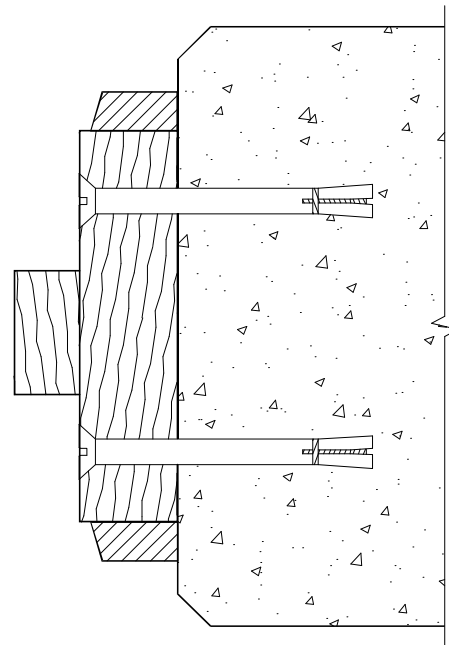
Steel frame with Dynabolt fixings at typically 400mm centres (up to 4 hours)



Wire ties for block wall or cast into concrete panel wall (up to 4 hours)



Timber frame - single row of concealed dynabolts at typically 400mm centres (optional rebate for plaster wall lining shown) (Up to 1hour)



Optional fixing for timber frame with two rows of dynabolts at typically 400mm centres. Also approved for fixing steel



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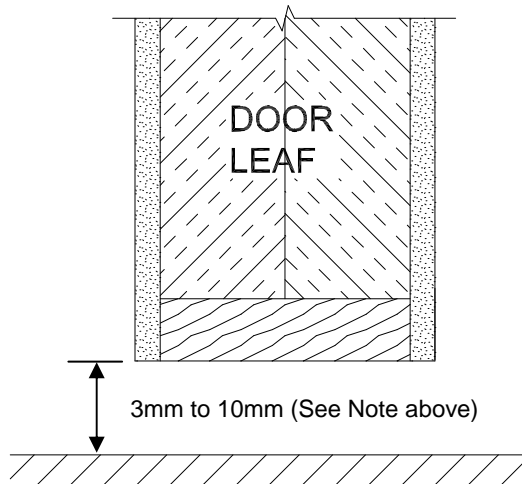
Distributed by:

DESCRIPTION

Fire doors must be installed to AS1905.1 or as per tested or assessed, which includes the allowable gaps around the stiles, head and base of the door. The following technical sheet describes the maximum allowable gaps and acceptable rectification methods.

ACCEPTABLE CLEARANCES

- **Stiles and head:**
 - In the closed position, gaps between the door and frame jamb (head, hinge and lock stiles) are not to exceed 3mm.
 - Door leaf to the door seat rebate to not exceed 5mm average.
- **Bottom:**
 - Maximum allowable gap between leaf and top of finished floor level is 10mm (3-10mm is recommended)
(Note: Up to 15mm gap is approved on some doors, contact licensed distributor to confirm.)



RECTIFICATION OF EXCESS GAPS

Stiles and head:

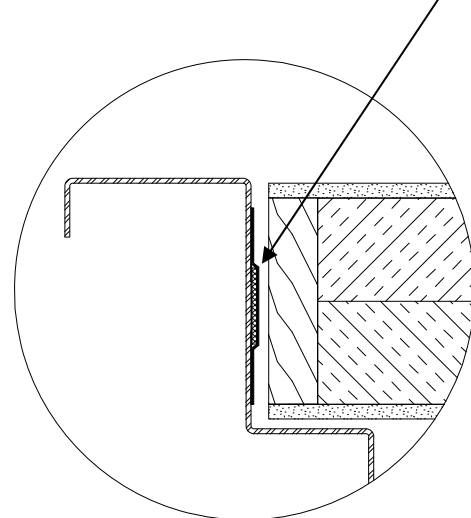
Gaps between door leaf and frame can be reduced by using the following methods:

- Lorient HP4002 stick on perimeter seal attached to door frame or door leaf

Lorient HP4002:

- Can be used where there are excessive stile or head gaps.
- Can be used on each stile of door leaf
- Integrated self adhesive tape is used to apply seal to door rebate.

HP4002 1.6mm thick X 40mm wide



Continued...

RECTIFICATION OF EXCESS GAPS

Bottom:

Gaps of up to 20mm at the bottom of the door can be reduced by using the following methods:

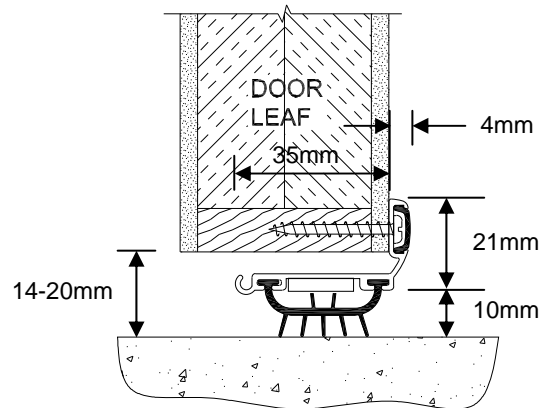
(Note: The following methods are approved up to 2hr fire rating, Contact Pyropanel Distributor for more info)

- **Lorient FDBU20** can be used for up to 20mm gap
- **Raven RP114** can be used for up to 20mm gaps
- **Pyropanel Greenboard** can be used to reduce gaps by 10mm.
- **Non combustible threshold seals** can be used to reduce the gap under a fire door:
 - Raven RP28, RP29, RP77, RP82, RP95 (gaskets must be removed), Lorient IS4070, IS4075, IS4010, IS4015, IS4020, IS4025, IS4110, IS4120

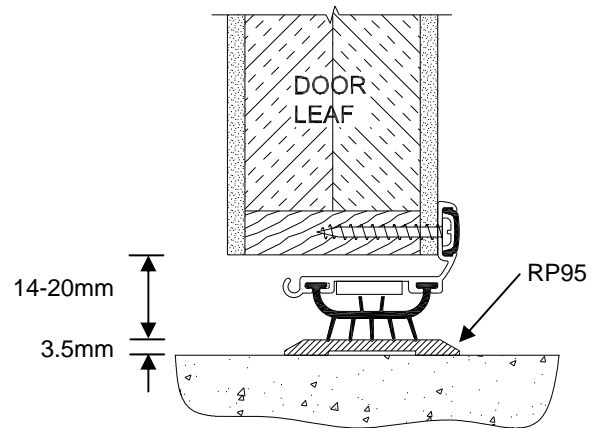
Raven RP114:

Raven RP114 should just clear the floor during door opening and closing. To avoid the seal fouling on uneven or sloping surfaces the finned gasket portion should engage an approved Raven threshold plate

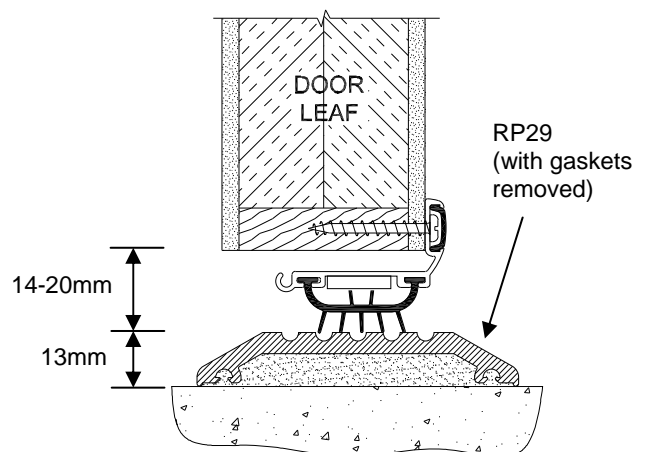
- **Location:** Bottom of Fire and smoke doors.
- **Min/Max Gap:** 14mm to 20mm (without Raven threshold plate)
- **Seal Sizes:** Available 820mm, 915mm, 1220mm.
- **Standard Finish:** Anodised Satin Clear or Bronze.
- **Fixing method:** Simply cut seal to length. Zinc plated cross recess head ST screws of the appropriate size are supplied.
- **Seal Material:** Intumescent infill, S.E. flexible PVC cover strip and finned gasket.
- **Used in conjunction with** approved Raven door frame seals and threshold plates.



Raven RP114 installed on a 48mm fire door



Raven RP114 installed on a 48mm fire door with additional Raven RP95 threshold seal



Raven RP114 installed on a 48mm fire door with additional Raven RP29 threshold seal

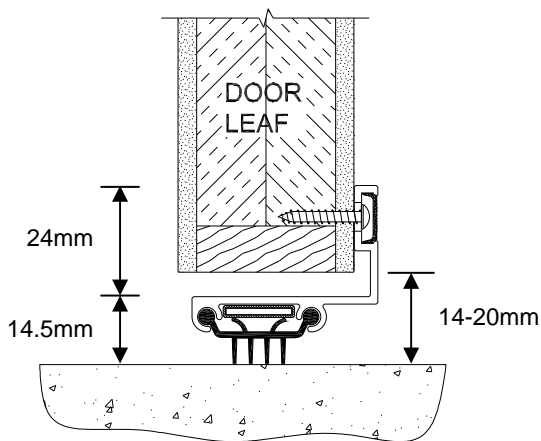
Continued...

Rectification of bottom gaps con't.

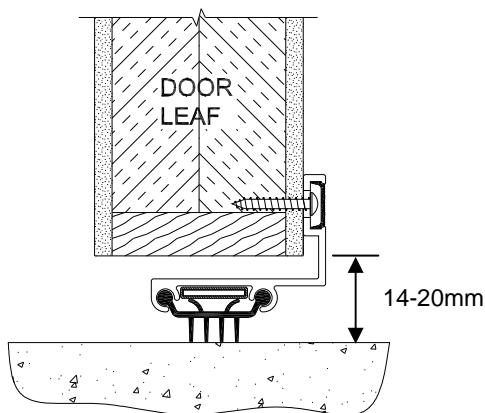
Lorient FDBU20:

Lorient FDBU20 can be used to upgrade existing internal fire doors where door bottom gaps exceed the allowable 10mm as per AS/NZS1905.1. It is constructed from anodised aluminium profile, and incorporates a flame retardant smoke, draught and light excluding gasket, and integral high performance intumescent fire seal.

- **Location:** Bottom of Fire and smoke doors.
- **Min/Max Gap:** 14mm to 20mm
- **Seal Sizes:** 820mm, 915mm, 1220mm.
- **Standard Finish:** Anodised aluminium.
- **Fixing method:** cut seal to length and attached with screws
- **Used in conjunction with** approved Lorient door frame seals and threshold plates.



Lorient FDBU20 installed on a 38mm fire door



Lorient FDBU20 installed on a 48mm fire door

MODEL NUMBERS

Raven Seals

Seal	Product Code	Finish	Length (mm)
RP114	OEM114C820	Clear Anodised	820
	OEM114B820	Bronze Anodised	820
	OEM114C915	Clear Anodised	915
	OEM114B915	Bronze Anodised	915
	OEM114C1220	Clear Anodised	1220
	OEM114B1220	Bronze Anodised	1220

Lorient Seals

Seal	Product Code	Door thickness	Std Colour	Length (mm)
FDBU20	FDBU20-820-CA	35-48	Silver	820
	FDBU20-920-CA	35-48	Silver	920
	FDBU20-1220-CA	35-48	Silver	1220
HP4002	HP4002-1000	35-48	White, Grey*	1000
	HP4002-2100	35-48	White, Grey*	2100
	HP4002-2400	35-48	White, Grey*	2400
	HP4002-3000	35-48	White, Grey8	3000

Notes:

HP4002 may be painted over
Other colours available on special order

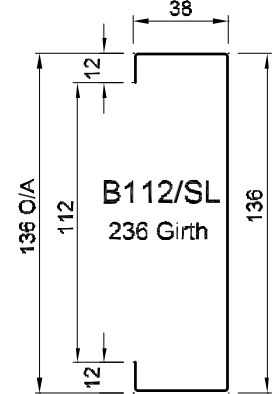
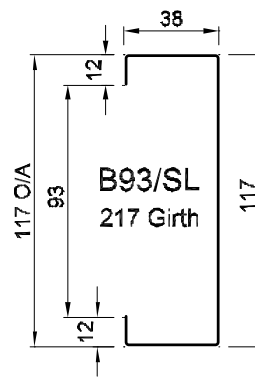
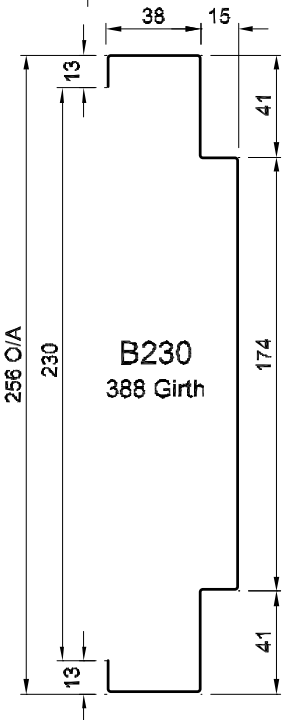
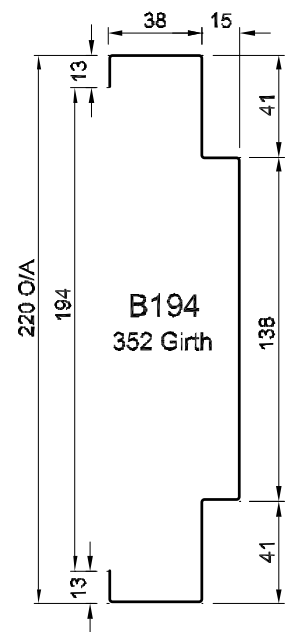
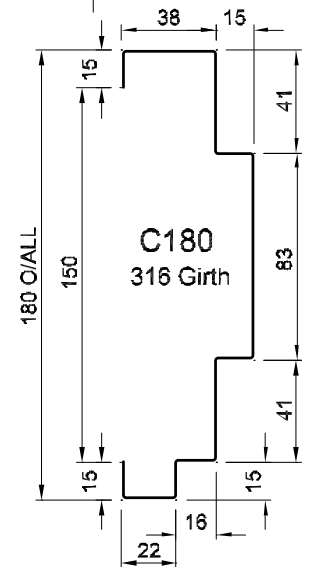
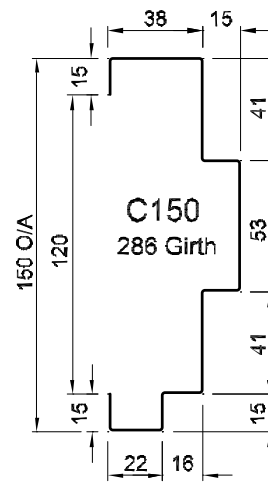
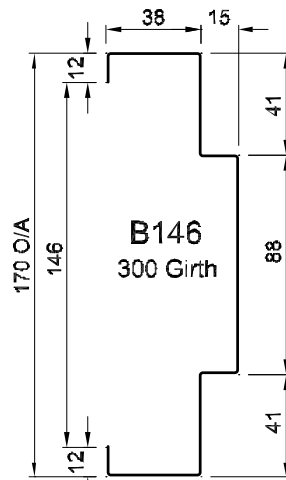
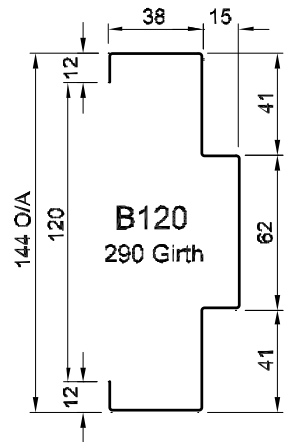
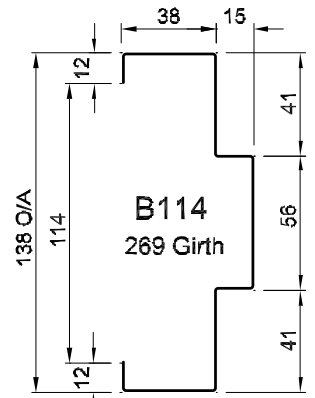
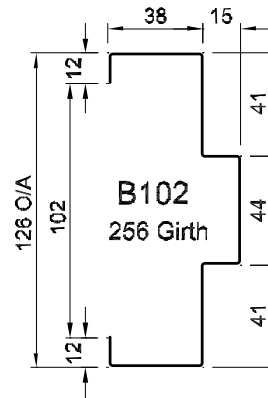
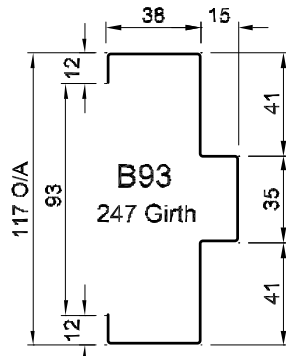
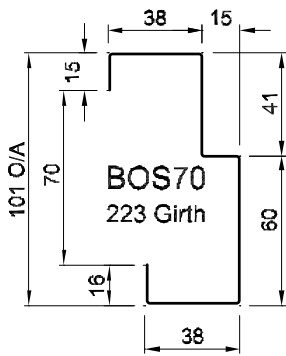
FRAME PROFILES

Non Fire Rated Frames

TECH SHEET: FRAME-01

Issue: 23-10-07

Pressed Metal door frames for non fire rated doors



Frames are typically 1.1 to 1.3 mm Zincanneal

HOW TO SPECIFY

"Door frame to be a Pyropanel B102* Prime painted pressed metal door frame. Builder to confirm door frame applicability".

* denotes example—delete, change or specify as required

Note: Custom frame profiles available on request.



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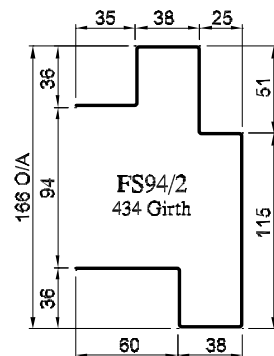
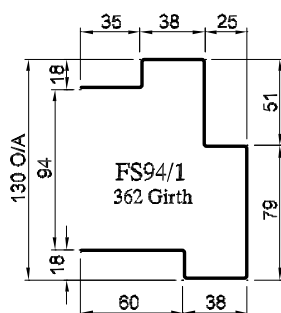
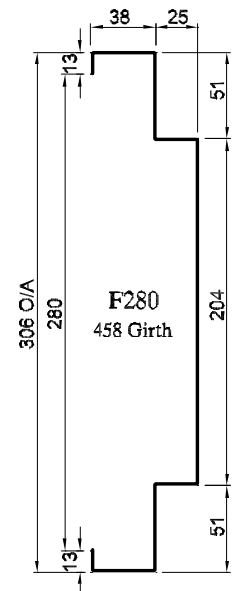
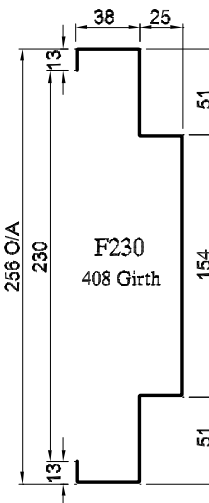
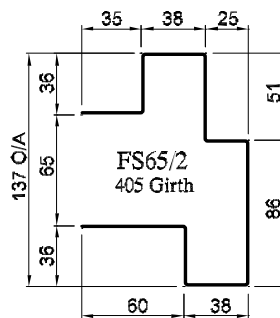
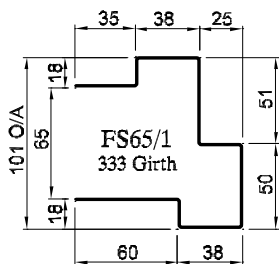
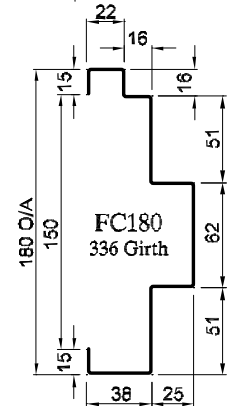
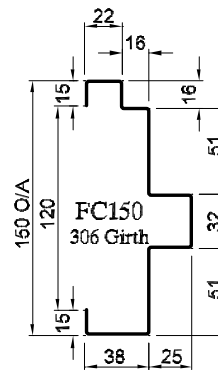
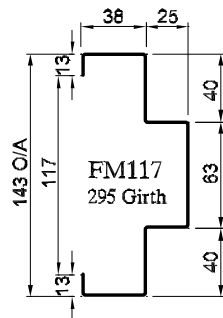
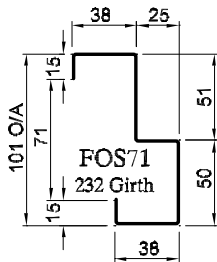
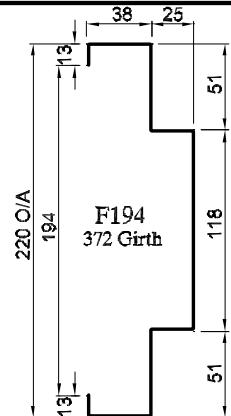
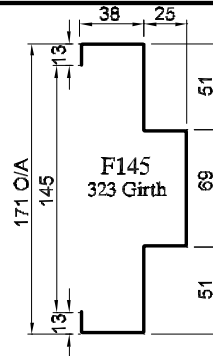
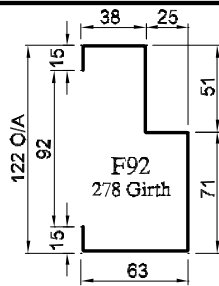
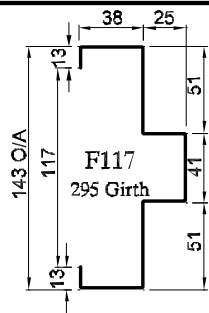
FRAME PROFILES

Fire Rated Frames

TECH SHEET: FRAME-02

Issue: 23-10-07

Pressed Metal door frames for fire rated doorsets



Note: When installed with appropriate door leaf, frames are fire rated up to 4 hours in masonry walls, and 2 hours in dry wall. Custom frame profiles available on request. Frames are typically 1.2-1.6 zincanneal unless otherwise requested.

HOW TO SPECIFY

"Door frame to be a Pyropanel F117 Prime painted pressed metal door frame. Builder to confirm door frame applicability".*

* denotes example—delete, change or specify as required



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FRAME PROFILES

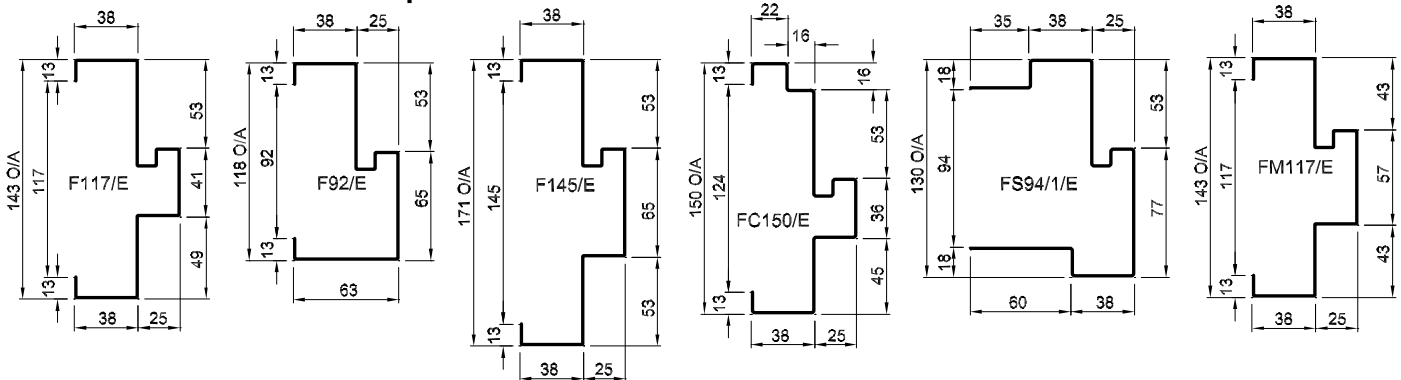
Euroseal® Fire Rated Frames

TECH SHEET: FRAME-03

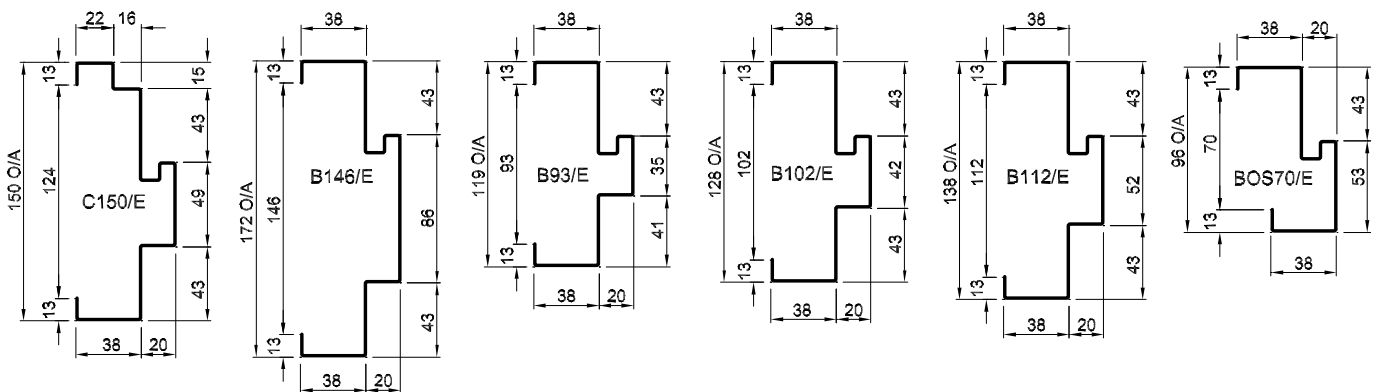
Issue: 06-09-11

Fire rated Pressed Metal door frames designed for use with Euroseal smoke seal

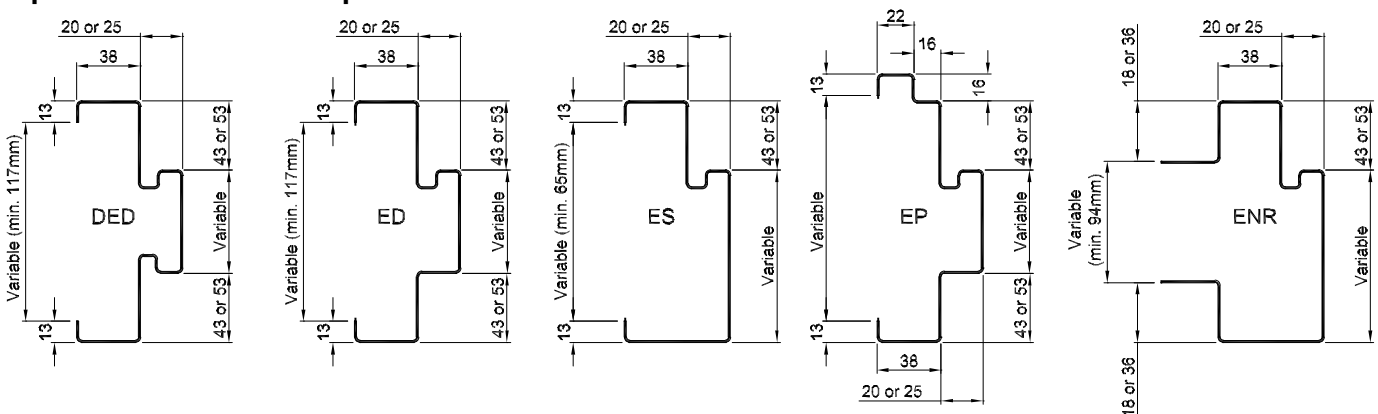
Fire Rated Euroseal frame profiles



Non-Fire Rated Euroseal frame profiles



Special Euroseal frame profiles



Note: When installed with appropriate door leaf, frames are fire rated up to 4 hours in masonry walls, and 2 hours in dry wall. Custom frame profiles available on request. Frames are typically 1.2-1.6 zincanneal unless otherwise requested.

HOW TO SPECIFY

"Door frame to be a Pyropanel F117/E* Euroseal Prime painted pressed metal door frame. Builder to confirm door frame applicability".

* denotes example—delete, change or specify as required



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FRAME PROFILES

1 hr Timber Fire Rated Frames

TECH SHEET: FRAME-04

Issue: 04-10-2011

1 hr Timber Fire Rated Door Frames with integrated intumescent hot smoke seal

DESCRIPTION

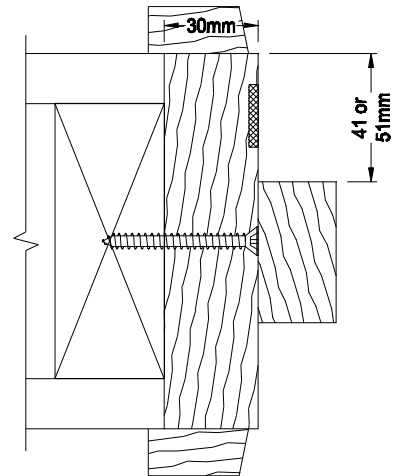
1 hr Timber Fire Door Frames suitable for use with all Pyropanel Fire Door leaves for applications requiring up to 1 hour of Fire Resistance. Frames come with a pre installed paintable intumescent hot smoke seal.

APPLICATIONS

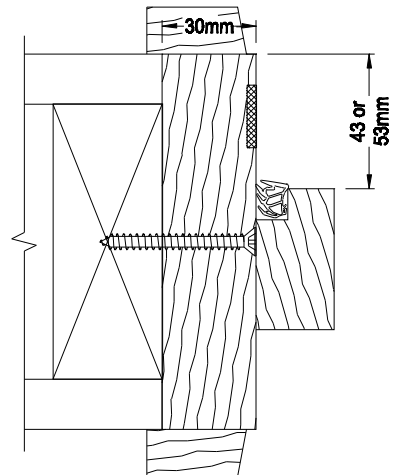
Ideal for most applications that require a one hour certified fire door set with a one hour timber fire rated door frame, especially in residential complexes as unit entry doors, hospitals, schools, public buildings, etc., and applications that may experience high levels of airborne salt water.

FEATURES

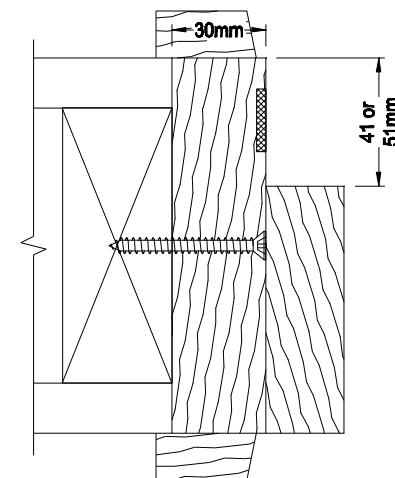
- Suitable for Pyropanel fire doors up to -/60/30 FRL
- Refer tech sheet FRAME-07 for timber door frames suitable for ratings up to -/120/30
- Jamb dimensions - Standard 140mm x 30mm, Min 85 x 30mm (larger dimensions available on request).
- Integrated intumescent hot smoke seal.
- Removable door stop covers predrilled frame fixing holes.
- Optional Euroseal[®] rebated door stop.
- Manufactured from high quality hardwood.
- No patching of fixing holes - save time and mess on site.
- Can be supplied with optional pre-hung fire door.
- Hardwood architraves required.



Typical frame profile - note hidden frame fixings



Euroseal frame profile - note hidden frame fixings



Alternative frame profile (Single rebate)

HOW TO SPECIFY

"Door frame to be a Pyropanel 1 hr Timber Fire Rated Door Frame, fully certified and approved for use with Pyropanel Fire Rated doors up to 1 hr FRL, with integrated hot smoke seal and optional Euroseal rebate* ".

* denotes example - delete, change or specify as required



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FRAME PROFILES

MDF Fire Rated Frames

TECH SHEET: FRAME-05

Issue: 17-03-10

MDF Fire Rated Door Frames with integrated intumescent hot smoke seal

DESCRIPTION

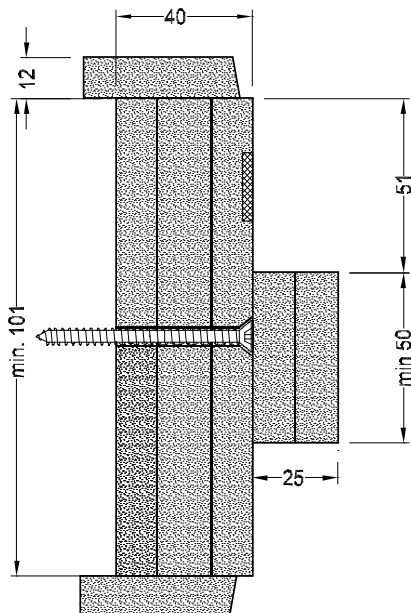
MDF Fire Door Frames suitable for use with all Pyropanel 48mm Fire Door leaves for applications requiring up to 1 hour of Fire Resistance. Frames come with a pre installed paintable intumescent hot smoke seal.

APPLICATIONS

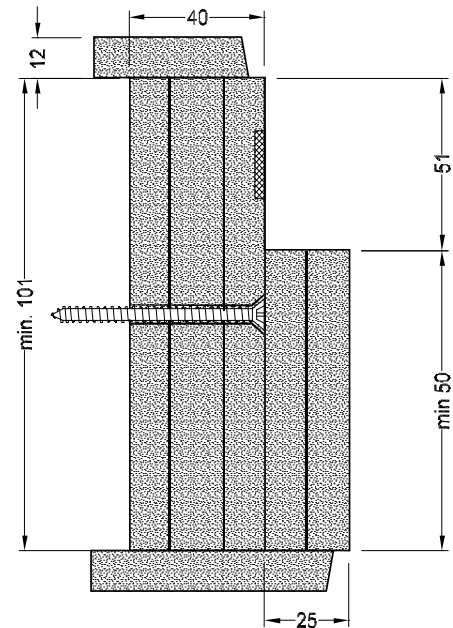
Ideal for most applications that require a certified fire door set with a MDF rated door frame, especially in residential complexes as unit entry doors, hospitals, schools, public buildings, etc., and applications that may experience high levels of airborne salt water.

FEATURES

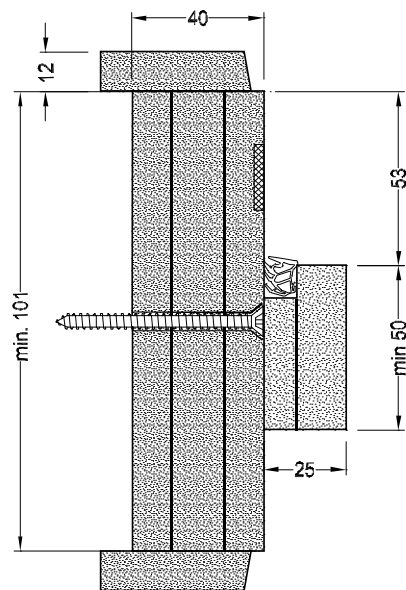
- Jamb dimensions - Min 101 mm x 40mm
- Door stop - 50 mm wide x 25mm deep (minimum) (custom sizes available)
- Integrated intumescent hot smoke seal
- Optional Euroseal ® rebated door stop
- Manufactured from Laminated MDF
- Removeable door stop covers predrilled frame fixing holes
- No patching of fixing holes - save time and mess on site
- Can be supplied with optional pre-hung fire door.



Typical frame profile - note hidden frame fixings



Alternative frame profile - single rebate and hidden fixings



Euroseal frame profile - note hidden frame fixings

HOW TO SPECIFY

"Door frame to be a Pyropanel MDF Fire Rated Door Frame, fully certified and approved for use with Pyropanel 48mm Fire Rated doors up to 1hr FRL, with integrated hot smoke seal and optional Euroseal rebate*".

* denotes example - delete, change or specify as required

FRAME PROFILES

Upgrading non fire rated door frames

TECH SHEET: FRAME-06

Issue: 03-08-2010

Allowable methods for upgrading non-fire rated steel door frames to suit Pyropanel fire doors

DESCRIPTION

Allowable methods for upgrading non fire rated steel door frames to suit Pyropanel fire rated doorsets.

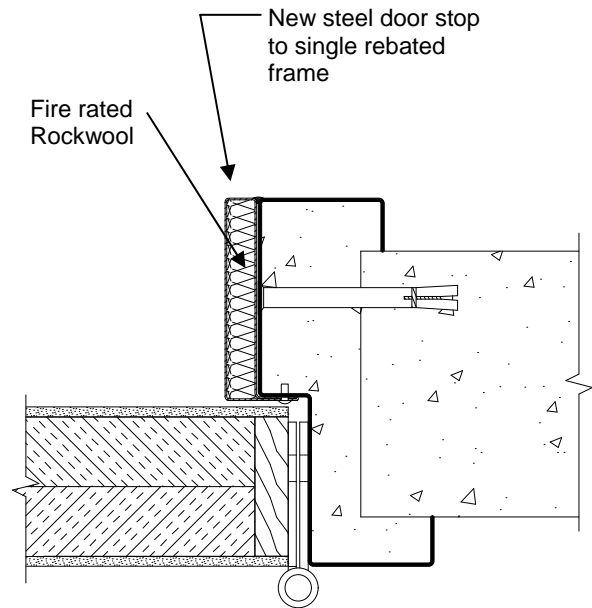
APPLICATIONS

Ideal for most applications that require a certified fire doorset but which have a non rated door frame with a door stop less than 25mm.

ALLOWABLE METHOD

Door stops

- Existing door frame thickness must be at least 1.1mm.
- Form up steel channel to increase door stop to at least 25mm thick.
- Pack new door stop with fire rated rockwool.
- Mechanically fix new door stop by using either steel rivets or steel countersunk screws at 300mm centres, or by welding.



Single rebated frame

FRAME PROFILES

2 hr Timber Fire Rated Frames

TECH SHEET: FRAME-07

Issue: 09-06-2010

**2 hr Timber Fire Rated Door Frames
with integrated intumescent hot
smoke seal**

DESCRIPTION

2hr Timber Fire Door Frames suitable for use with Pyropanel Fire Door leaves for applications requiring up to 2 hour of Fire Resistance. Frames come with a pre installed paintable intumescent hot smoke seal and an integrated Lorient HP1612BW medium/hot smoke seal.

APPLICATIONS

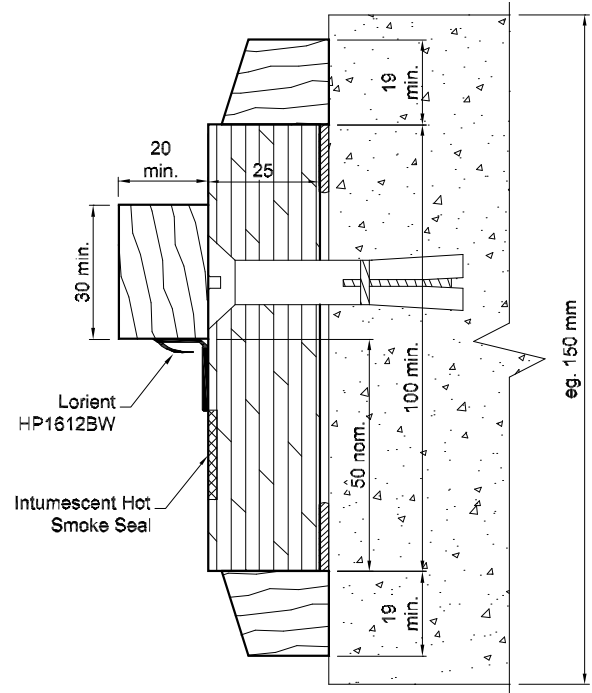
Ideal for most applications that require a two hour certified fire door requiring a two hour timber fire rated door frame, especially in residential complexes, fire escapes, hospitals, schools, public buildings, etc., and applications that may experience high levels of airborne salt water.

FEATURES

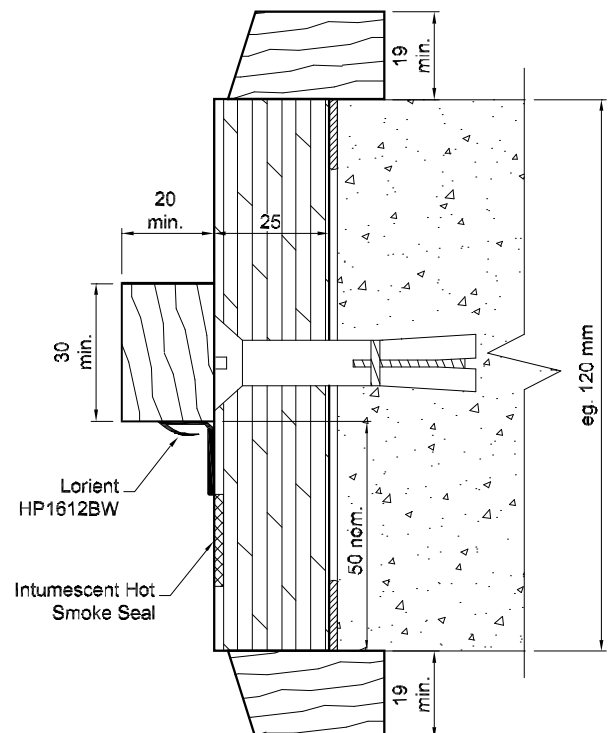
- Suitable for Pyropanel fire doors up to -/120/30 FRL.
- Max Door Size = 2100 x 920mm
- Frame Stile dimensions - Min 100 x 25mm - Wider frames available to suit project specific wall thickness.
- Solid hardwood door stop - Typically 38mm wide X 20mm deep (minimum size is 30mm x 20mm, custom sizes available).
- Integrated intumescent hot smoke seal.
- Solid hardwood timber architraves of thickness not less than 19mm must be installed over edge of frame (typically not included as part of frame package).
- Frame fixing covered by door stops.
- No patching of fixing holes - save time and mess on site.
- Manufactured from high quality Pyropanel Fire Rated Laminated timber.
- Suitable for masonry (including hollow block) walls.
- Can be supplied with optional pre-hung fire door (on request)
- Refer tech sheet FRAME-04 for timber door frames suitable for ratings up to -/60/30.

HOW TO SPECIFY

"Door frame to be a Pyropanel 2 hr Fire Rated Timber Door Frame, fully certified and approved for use with Pyropanel Fire Rated doors up to 2hr FRL, with integrated hot smoke seal and integrated Lorient HP1612BW medium/hot smoke seal".



Typical frame profile for thicker walls - note concealed frame fixings and architrave arrangement.



Typical frame profile for thinner walls - note concealed frame fixings and architrave arrangement.



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Passive Products System Guide



PASSIVE PRODUCTS SYSTEM GUIDE

Issue: 19-07-10

Introduction

Pyropanel Developments have developed a range of passive fire protection products that are designed to seal penetrations and maintain the fire rating of the building element. Fully certified to Australian Standards as well as many international standards, these products provide cost effective solutions that are readily available and easy to install, and are available in a variety of fire resistance levels.

Applications

Commercial and high rise residential buildings, schools, offices, factories, or wherever protection needs to be provided for penetrations passing through fire rated floors and walls.

Range

Product	Description	Tech sheet
Fire collars and wraps		
Cast in fire collar	Cast-in type fire collars for concrete slabs (up to 100mm)	PAS-01
Retrofit fire collar (multi-fit)	Retrofit fire collars for walls and floors (up to 100mm)	PAS-02
Retrofit fire collar (single-fit)	Retrofit fire collars for walls and floors (up to 150mm)	PAS-03
Pyrorap fire collar	Flexible fire wrap for walls and floors (up to 100mm)	PAS-04
Titan fire collar	Cast in single fit fire collar for concrete slabs (up to 150mm)	PAS-05
GV fire collar	Cast in or retrofit collars for slabs, masonry and plaster walls (up to 150mm)	PAS-06
Intumex L for Armaflex	Wraps of Intumex L designed to seal foam insulated metal pipes	PAS-07
Sealants, Putty and Mortar		
Multiflex fire rated sealant	Fire rated acrylic sealant for walls, floors, and smaller penetrations	PAS-08
M4 fire rated mortar	Fire rated mortar for larger penetrations in walls and floors	PAS-09
Fire Pillows and other systems		
P4 fire pillows	Rockwool fire pillow for walls and floors	PAS-11
PS fire pillows	Expanding fire pillow for walls and floors	PAS-12
Fire snake	Rockwool fire snake for long penetrations in walls and floors	PAS-13
Fire rated switch box	Intumescent addition to steel switch boxes to maintain fire resistance of wall	PAS-14



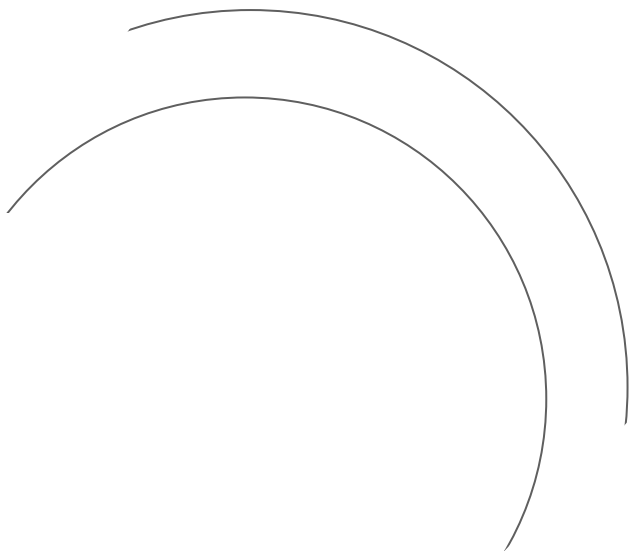
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Availability

All Pyropanel products are available throughout Australia and various other countries through a network of licensed manufacturers and distributors. For a current contact list, please contact Pyropanel Developments or visit our website at www.pyropanel.com.au.

[Pyropanel > Fire Doors > Smoke Doors > Life Safety Doors > Fire Rated Glazing > Passive Products > Special Purpose Doors](#)



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FIRE COLLARS

Cast In Fire Collar

TECH SHEET: PAS-01

Issue: 23-10-07

Cast in fire collar suitable for sealing most types of plastic pipes passing through concrete slabs

Page 1 of 2

DESCRIPTION

A cast in, high impact plastic fire collar housing an intumescent material which is activated in the event of fire, crushing the plastic pipe and sealing against the passage of flame and hot gases. The intumescent material is unaffected by water, atmospheric influences and industrial environments, and is also resistant to dilute acids, alkalis, paints and conventional construction materials such as gypsum, lime, cement and adhesives.

APPLICATIONS

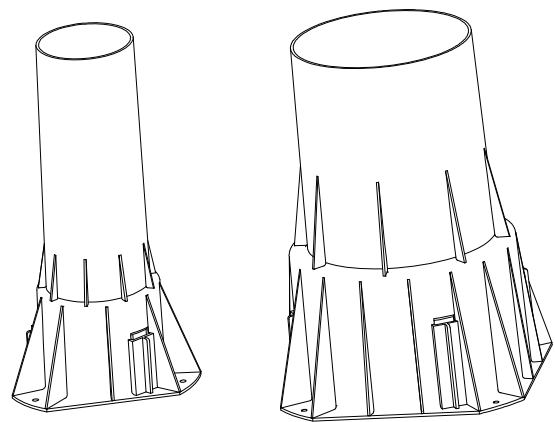
Suitable for use in fire rating plastic pipes passing through floors in high residential construction, flats, townhouses, apartments, civil projects, health care and aged care facilities, offices, etc.

FEATURES

- Fully certified to Australian Standards AS1530.4 and AS4072.1
- 250mm height of collars covers wide range of floor slab thicknesses
- Integral moisture, grout and smoke seal
- 2 collar sizes service pipe sizes from 32-100mm (nom)
- Base of collar has ability to accommodate pipe fittings
- Reinforced fixing holes
- Quick and easy to install
- A cost effective fire stopping solution
- 10 year warranty on intumescent material
- Australian made

INSTRUCTIONS

- Screw or nail fire collar to formwork
- Pour slab around collar (do not allow concrete to enter fire collar)
- Remove formwork
- Cut collar off at top of slab if desired
- Insert plastic pipe
- Back fill around pipe with concrete or mortar if desired (not required for fire rating)



CI32-50

CI65-100

HOW TO SPECIFY

Eg, "Fire Collars to be Pyropanel 'CI' Cast In fire collars , incorporating integrated smoke seal, and installed as per manufacturers instructions"

* denotes example - delete or change or specify as required

MODELS AVAILABLE

Model	To suit nominal pipe (mm)	Actual PVC pipe O.D (mm)	Collar opening	Collar height	Collar width	Fire resistance level (normal application)	Fire resistance level (floor waste application)
CI32-50	32-50	36-56	60	250	114	uPVC HDPE, PP, PE -/240/180	No insulation on floor wastes (-/120/-) (PVC)
CI65-100	65-100	69-110	114	250	210	uPVC only -/240/120	No insulation on floor wastes (-/120/-)* (PVC)
CI32-50S	32-50	36-56	60	250	114	uPVC, HDPE, PP, PE -/240/240	Full insulation on floor wastes (-/120/120) (PVC)
CI65-100S	65-100	69-110	114	250	210	uPVC, HDPE, PP, PE -/240/240	Full insulation on floor wastes (-/120/120) (PVC)
SMCI 32-50	32-50	36-56	60	250	114	(nil fire resistance, smoke only)	(nil fire resistance, smoke only)
SMCI 65-100	65-100	69-110	114	250	210	(nil fire resistance, smoke only)	(nil fire resistance, smoke only)

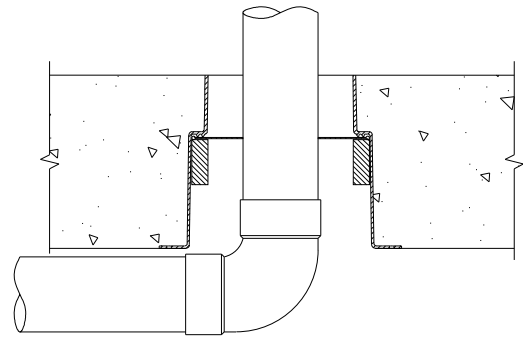
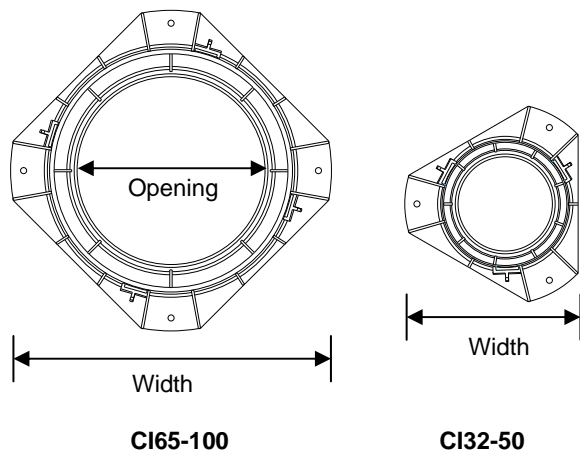
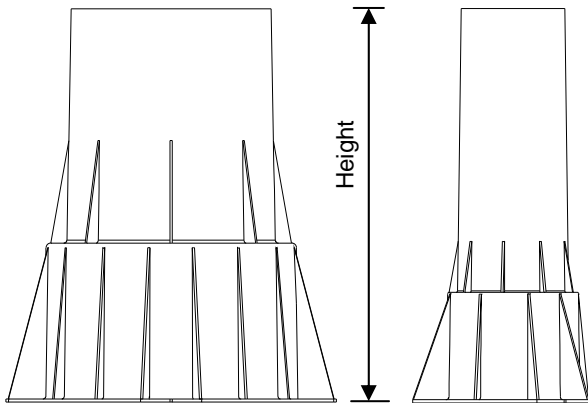
*Note: Achieves -/120/120 with tile covered floor waste



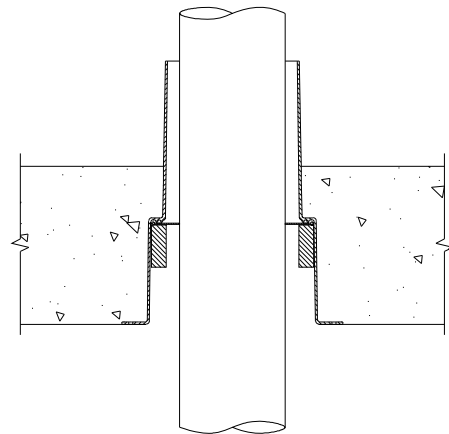
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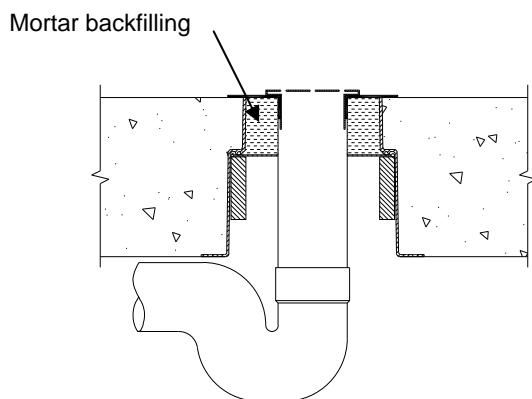
BUILDING IN DETAILS



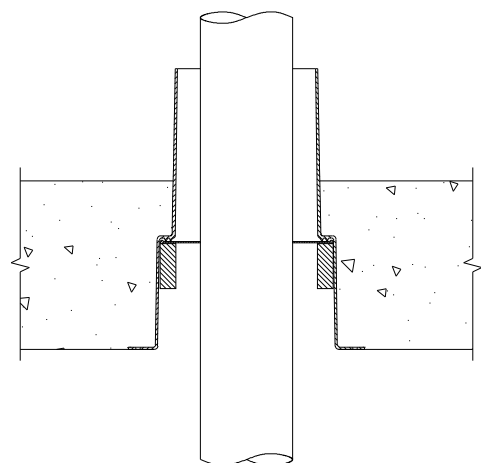
Example of 65mm pipe with elbow through CI65-100 collar with top of collar cut level with slab



Example of 100mm pipe through CI65-100 collar



Typical floor waste application (CI65-100S)



Example of 80mm pipe through CI65-100 collar

FIRE COLLARS

Retrofit Fire Collar (Multi-fit)

TECH SHEET: PAS-02

Issue: 15-09-06

Retrofit fire collar suitable for sealing most types of plastic pipes passing through concrete slabs and walls

Page 1 of 2

DESCRIPTION

A bolt on, steel cased retro-fit fire collar housing an intumescent material which is activated in the event of fire, crushing the plastic pipe and sealing against the passage of flame and hot gases. The intumescent material is unaffected by water, atmospheric influences and industrial environments, and is also resistant to dilute acids, alkalis, paints and conventional construction materials such as gypsum, lime, cement and adhesives.

APPLICATIONS

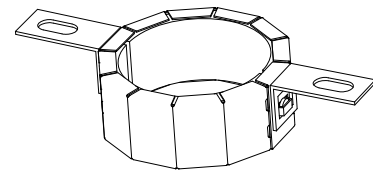
Suitable for use in fire rating plastic pipes passing through floors in high residential construction, flats, townhouses, apartments, civil projects, health care and aged care facilities, offices, etc.

FEATURES

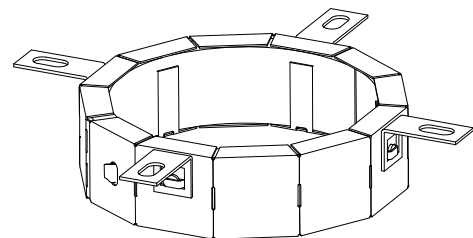
- Fully certified to Australian Standards AS1530.4 and AS4072.1
- 2 collar sizes service pipe sizes from 32-100mm (nom)
- Low height of collar ensures maximum clearance for pipe fittings
- Removable attachment clips
- Quick and easy to install - no adjustment necessary
- A cost effective fire stopping solution
- Single fit collars available for a wider range of pipe types.
- Approved for installation on underside of masonry slabs, and attached to either side of masonry walls
- 10 year warranty on intumescent material
- Australian made

INSTRUCTIONS

- Core hole desired penetration size, ensuring to keep core hole to a minimum.
- Seal gaps (up to 10mm) between pipe and slab / wall with Pyropanel Multiflex fire rated acrylic sealant to create a smoke seal if desired
- Seal gaps larger than 10mm (if core hole is over sized) with Pyropanel M4 fire rated mortar or concrete.
- Clip collar around pipe - no adjustment of collar size is necessary - collar is approved as is!
- Attach collar to underside of slab or to either side of wall using steel fixings (Dynabolts, steel, knock-ins).
- Seal any gap between collar and underside of slab or wall with Pyropanel Multiflex fire rated acrylic sealant (do not seal between pipe and inside of collar).



RF32-50



RF65-100

HOW TO SPECIFY

Eg, "Fire Collars to be Pyropanel 'RF Multi' Retro-fit fire collars , installed as per manufacturers instructions"

MODELS AVAILABLE

Model	To suit nominal pipe (mm)	Actual PVC pipe O.D (mm)	Collar opening	Collar height	Collar width	Floor application	Wall Application (masonry only)
RF32-50	32-50	36-56	64	32	114	uPVC: -/240/240 HDPE, PP: -/180/180	uPVC: -/180/180 PE, PP: -/240/240
RF65-100	65-100	69-110	126	43	174	uPVC: -/180/180 HDPE, PP: -/240/240	uPVC: -/60/60

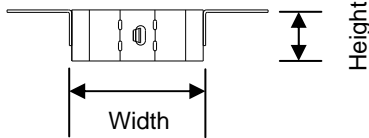
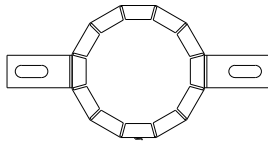


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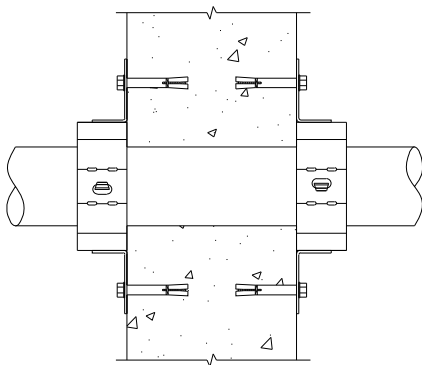
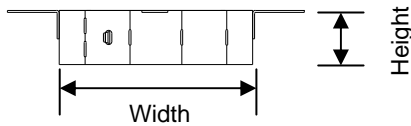
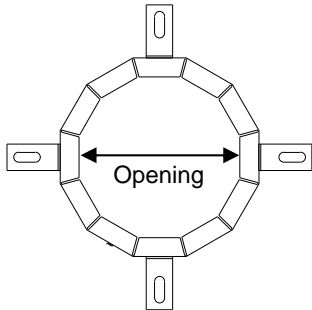
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BUILDING IN DETAILS

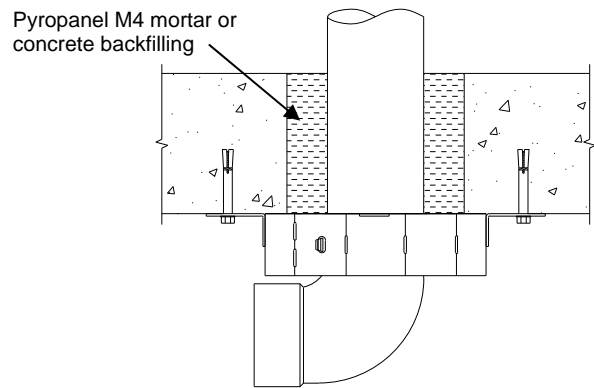
RF32-50



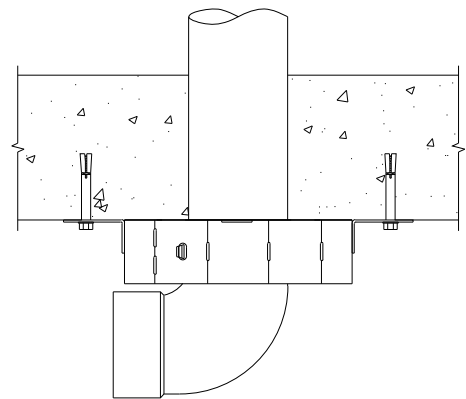
RF65-100



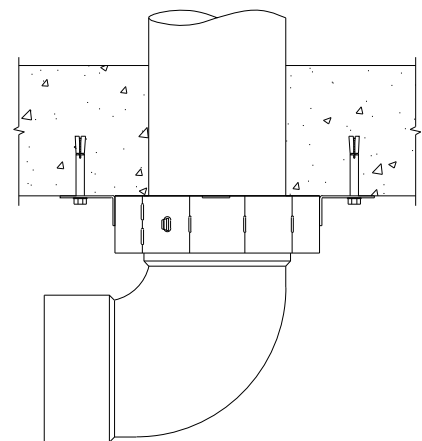
Typical wall application showing a RF32-50 fitted to both sides of a masonry wall



Typical floor application showing a RF65-100 fitted to underside of slab, with 65mm pipe and backfilled where penetration was cut too large (oversized core hole)



Typical floor application showing a RF65-100 fitted to underside of slab, with 65mm pipe and elbow.



Typical floor application showing a RF65-100 fitted to underside of slab, with 100mm pipe.

FIRE COLLARS

Retrofit Fire Collar (Single-fit)

TECH SHEET: PAS-03

Issue: 09-09-2011

Retrofit fire collar suitable for sealing most types of plastic pipes passing through concrete slabs and walls

Page 1 of 3

DESCRIPTION

A bolt on, steel cased retro-fit fire collar housing an intumescent material which is activated in the event of fire, crushing the plastic pipe and sealing against the passage of flame and hot gases. The intumescent material is unaffected by water, atmospheric influences and industrial environments, and is also resistant to dilute acids, alkalis, paints and conventional construction materials such as gypsum, lime, cement and adhesives.

APPLICATIONS

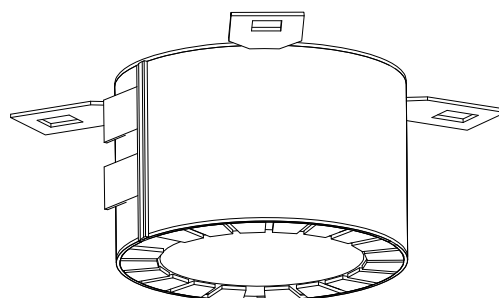
Suitable for use in fire rating plastic pipes passing through floors in high residential construction, flats, townhouses, apartments, civil projects, health care and aged care facilities, offices, etc.

FEATURES

- Fully certified to Australian Standards AS1530.4 and AS4072.1
- 7 collar sizes service pipe sizes from 32 to 150mm (nom)
- Low height of collar ensures maximum clearance for pipe fittings
- Quick and easy to install - no adjustment necessary
- A cost effective fire stopping solution
- Multi fit collars also available (see Tech PAS-02).
- Approved for installation on underside of masonry slabs, or attached to either side of masonry walls, and approved for floor wastes where insulation is not required (surface mounted or inverted).
- 10 year warranty on intumescent material
- Australian made

INSTRUCTIONS

- Clip collar around pipe
- Attach collar to underside of slab or to either side of wall using steel fixings (Dynabolts, steel, knock-ins).
- Seal any gap between collar and underside of slab or wall with Pyropanel Multiflex fire rated acrylic sealant (no not seal between pipe and inside of collar).



HOW TO SPECIFY

Eg, "Fire Collars to be Pyropanel 'RF' Retro-fit (single-fit) fire collars , installed as per manufacturers instructions"

MODELS AVAILABLE

Model	To suit nominal pipe (mm)	Actual PVC pipe O.D (mm)	Collar opening	Collar height	Collar width	Floor application	Wall Application
RF40	40	43.1	45	50	68	uPVC: -/240/240 PP, PE, HDPE, ABS: -/180/180	PVC, PP, PD, HDPE, ABS: -/120/60
RF50	50	56	58	50	85	uPVC: -/180/180 (-/180/120 floor waste) PP, PD, HDPE, ABS: -/240/240	PVC, PP, PD, HDPE, ABS: -/120/60
RF65	65	69.1	70	50	100	uPVC: -/180/180 PP, PD, HDPE, ABS: -/240/240	PVC, PP, PD, HDPE, ABS: -/120/60
RF80	80	82.7	85	55	115	uPVC: -/180/180 (-/180/120 floor waste) PP, PD, HDPE, ABS: -/240/240	PVC, PP, PD, HDPE, ABS: -/120/60
RF100	100	110.4	112	60	150	uPVC: -/180/180 (-/120/- floor waste) PP, PD, HDPE, ABS: -/240/240	PVC, PP, PD, HDPE, ABS: -/120/60
RF125	125	129	130	53	180	PP: -/120/120	Not suitable
RF150	150	160	165	60	205	uPVC: -/240/240 PP, PE, HDPE, ABS: -/120/120	PVC: -/120/60



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RF225 & RF300 Collars



INSTRUCTIONS

- Clip collar around pipe
- 6 fixing tabs on the collar. Attach collar to underside of slab or to either side of wall using steel fixings (Dynabolts, steel, knock-ins).
- Seal any gap between collar and underside of slab or wall with Pyropanel Multiflex fire rated acrylic sealant (no not seal between pipe and inside of collar).

HOW TO SPECIFY

Eg, "Fire Collars to be Pyropanel 'RF' Retro-fit (Single-fit) fire collars, installed as per manufacturers instructions"

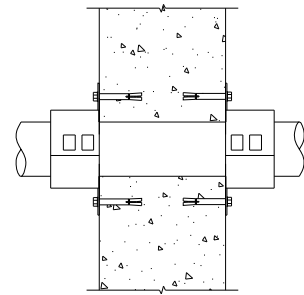
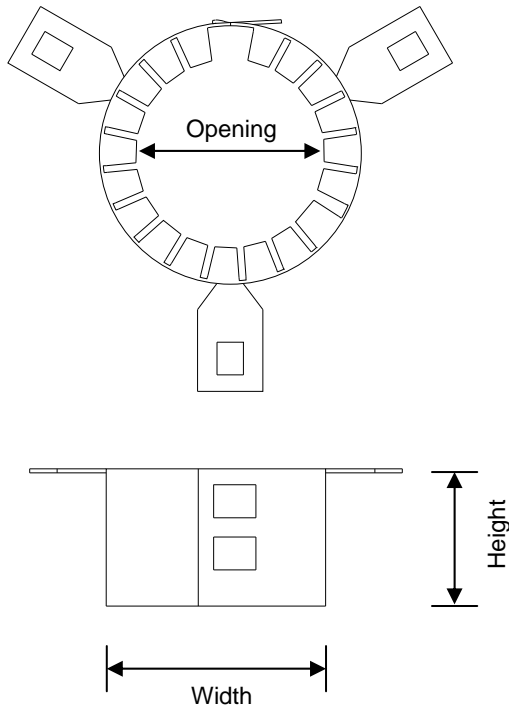
FEATURES

- Fully certified to Australian Standards AS1530.4
- 2 collar sizes, service pipe sizes 225 and 300mm (nom)
- Low height of collar ensures maximum clearance for pipe fittings
- Quick and easy to install - no adjustment necessary
- A cost effective fire stopping solution
- Approved for installation on underside of masonry slabs, or attached to either side of masonry walls, and approvals as shown in table below.
- 10 year warranty on intumescent material

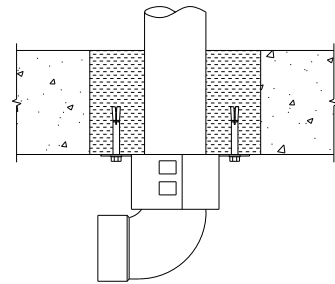
MODELS AVAILABLE

Model	To suit nominal pipe (mm)	Actual PVC pipe O.D (mm)	Collar opening	Collar height	Collar width	Pipe Wall Thickness	Floor application	Wall Application
RF225	225	250	255	65	305	7.2mm	uPVC: -/120/120	PVC: -/120/120
RF300	300	315	320	70	380	uPVC: 7.7mm PP: 15mm	uPVC: -/90/90 PP: -/120/120	PVC: -/180/180 PP: -/180/180

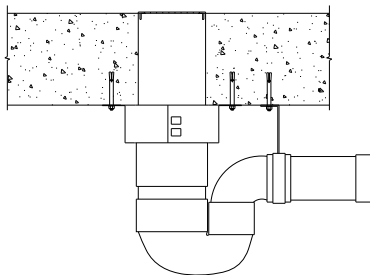
BUILDING IN DETAILS



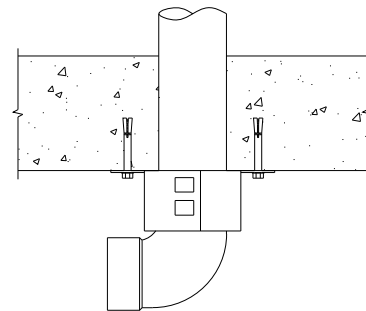
Typical wall application showing two retrofit collars fitted to both sides of a masonry wall.



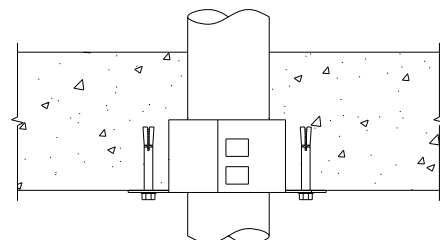
Typical floor application showing a retrofit collar fitted to underside of slab. Note backfilling of oversized hole if required.



Typical floor waste application showing surface mounted installation under slab (-/180/120)



Typical floor application showing a retrofit collar fitted to underside of slab, with pipe and elbow.



Alternative cast-in installation - Contact Pyropanel for confirmation of fire rating.

FIRE COLLARS

Pyrorap Fire Collar

TECH SHEET: PAS-04

Issue: 27-03-07

Intumescent wrap suitable for sealing most types of plastic pipes passing through concrete slabs and walls

Page 1 of 2

DESCRIPTION

A flexible intumescent wrap contained in a plastic bag which is designed to intumesce under fire conditions and crush the plastic pipe thus sealing against the passage of flame and hot gases for up to 4 hours. It is designed for core hole or block out applications

APPLICATIONS

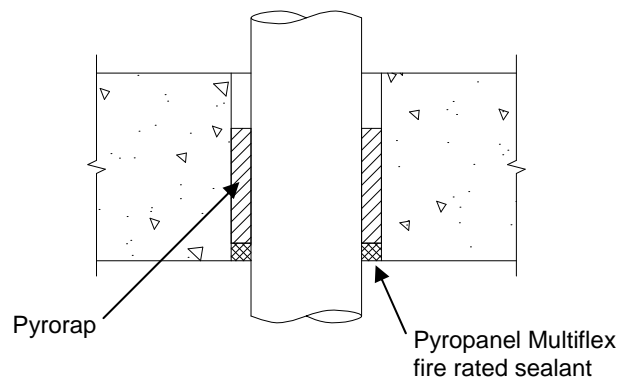
Especially designed for core hole, block out and retrofit applications, it is a cost effective and labour saving alternative especially suitable for use in fire rating plastic pipes passing through floors in high residential construction, flats, townhouses, apartments, civil projects, health care and aged care facilities, offices, etc.

FEATURES

- Fully certified to Australian Standards AS1530.4 and AS4072.1
- 8 wrap sizes service pipe sizes from 20-100mm (nom)
- Pyroraps are recessed into wall or slab ensuring maximum clearance for pipe fittings
- Quick and easy to install - no adjustment necessary
- A cost effective fire stopping solution
- Approved for installation within underside of masonry slabs, or within masonry and Hebel walls
- 10 year warranty on intumescent material
- Australian made

INSTRUCTIONS

- Wrap Pyrorap around pipe and tape together with duct tape if desired
- Push Pyrorap into gap between slab or wall and pipe, ensuring that it is located a maximum of 10mm from face of slab or wall (see overleaf for more details on wall applications)
- Seal any gap between wrap and underside of slab or wall with a small amount of Pyropanel Multiflex fire rated acrylic sealant to create a smoke seal (not required for fire rating, but recommended as it helps keep Pyrorap in place)



HOW TO SPECIFY

Eg, "Fire Collars to be Pyropanel "Pyrorap" fire collars , installed as per manufacturers instructions"

MODELS AVAILABLE

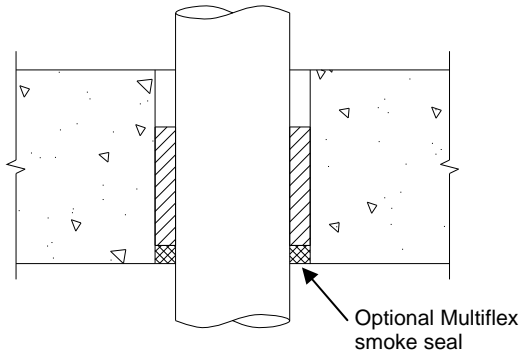
Model	To suit nominal pipe (mm)	Actual PVC pipe O.D (mm)	Core hole size (nom)	Collar height	Floor application	Wall Application
CLPY20	20	26.6	35	70	uPVC: -/240/240	uPVC, PP, HDPE, PE: -/120/120
CLPY25	25	33.4	45	70	uPVC: -/240/240	uPVC, PP, HDPE, PE: -/120/120
CLPY32	32	42.1	52	70	uPVC, PP, PE, HDPE, ABS, PB: -/240/240	uPVC, PP, HDPE, PE: -/120/120
CLPY40	40	43.1	67	70	uPVC, PP, PE, HDPE: -/240/240	uPVC, PP, HDPE, PE: -/120/120
CLPY50	50	56	75	70	uPVC, PP, PE, HDPE: -/240/240	uPVC, PP, HDPE, PE: -/120/120
CLPY65	65	69.1	92	70	uPVC, PP, PE, HDPE: -/240/240	uPVC, PP, HDPE, PE: -/120/120
CLPY80	80	82.7	102	70	uPVC, PP, PE, HDPE: -/240/240	uPVC, PP, HDPE, PE: -/120/120
CLPY100	100	110.4	132	70	uPVC, PP, PE, HDPE: -/240/240	uPVC, PP, HDPE, PE: -/120/120



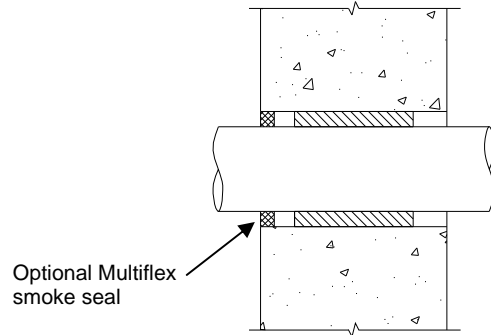
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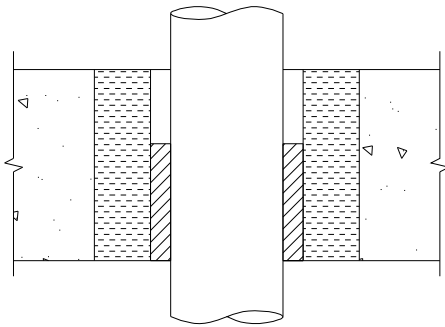
BUILDING IN DETAILS



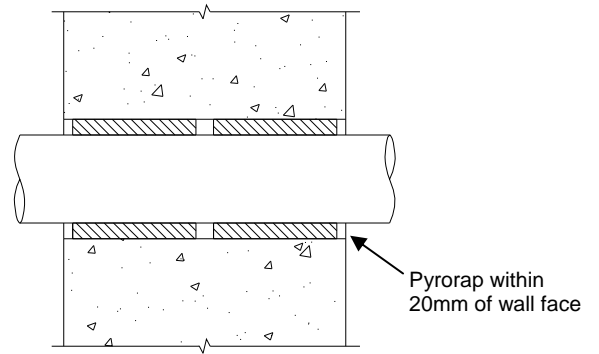
Example of typical floor installation including optional (recommended) Pyropanel Multiflex smoke seal



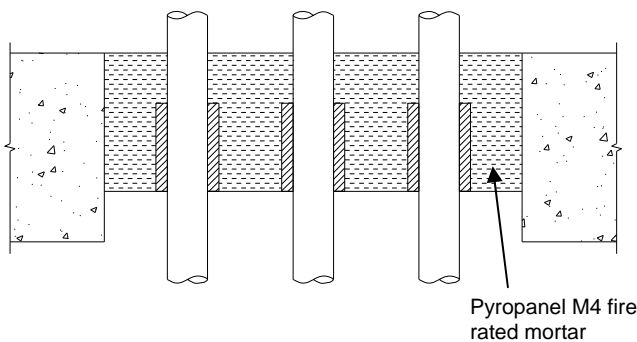
Typical wall application. For wall thicknesses from 70mm to 110mm, a single Pyrorap can be used, with optional smoke sealing with Pyropanel Multiflex fire rated acrylic sealant.



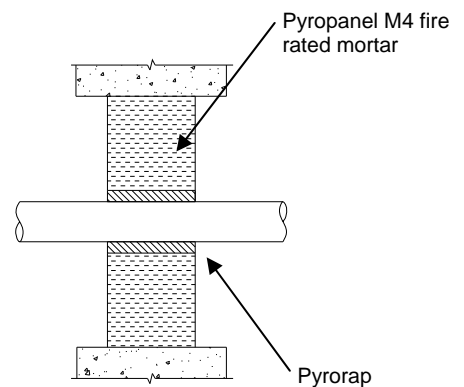
Example of floor installation through oversized core hole with Pyropanel M4 fire rated mortar in-fill panel.



For wall thicknesses greater than 110mm, two Pyroraps must be used on each side of the wall and placed within 20mm from each face (recommended is 10mm).



Example of floor installation through Pyropanel M4 fire rated mortar in-fill panel.



Example of wall installation through Pyropanel M4 fire rated mortar in-fill panel.

FIRE COLLARS

Titan Fire Collar

TECH SHEET: PAS-05

Issue: 23-10-07

Cast in fire collar suitable for sealing most types of plastic pipes passing through concrete slabs

Page 1 of 2

DESCRIPTION

A cast-in steel fire collar containing an intumescent material designed to crush the plastic pipe under fire conditions thus sealing against the passage of flame and hot gases for up to 4 hours.

APPLICATIONS

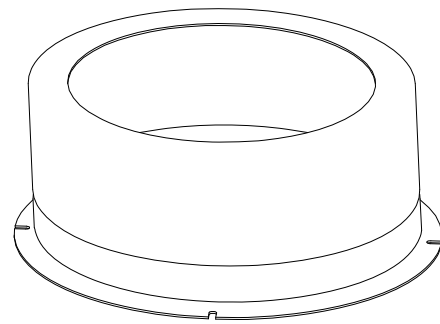
Especially designed for casting into concrete slabs, it provides a quick and cost effective solution for fire rating of plastic pipes, in high residential construction, flats, townhouses, apartments, civil projects, health care and aged care facilities, offices, etc.

FEATURES

- Fully certified to Australian Standards AS1530.4 and AS4072.1 for up to 4 hours of fire rating
- 10 sizes service pipe sizes from 20-150mm (nom)
- Designed and approved for most brands of PP, HDPE, uPVC, PE, ABS.
- Quick and easy to install - no adjustment necessary
- A cost effective fire stopping solution
- Tight fitting around pipe, which helps keep the pipe vertical during concrete pour
- Built in slurry seal.
- 10 year warranty on intumescent material
- Australian made

INSTRUCTIONS

- Push pipe through Titan fire collar
- Locate and attach Titan fire collar to formwork by nailing or screwing through the slots provided on the collar
- Twist pipe downwards to ensure pipe is resting on formwork prior to concrete pour
- Pour concrete and remove formwork
- Attach elbow or additional pipe



HOW TO SPECIFY

Eg, "Fire Collars to be Pyropanel "Titan" fire collars , installed as per manufacturers instructions"

MODELS AVAILABLE

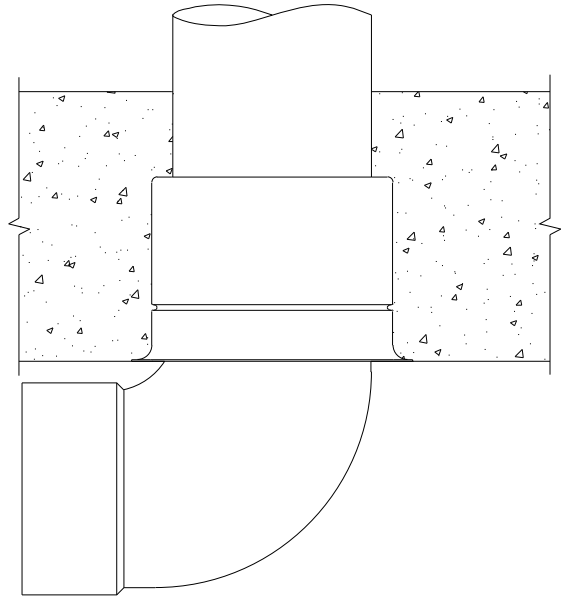
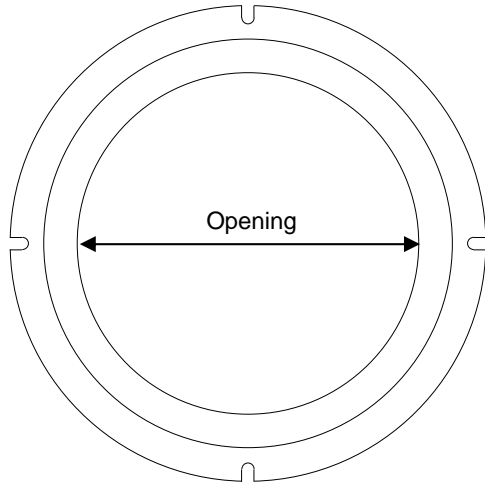
Model	Collar Name	To suit nominal pipe (mm)	Actual PVC pipe O.D (mm)	Collar opening	Collar width inc. flange	Collar height	Floor application
CLS040	Titan 40	40	43.1	45	84	90	uPVC, PP, PE, HDPE: -/240/240
CLS050	Titan 50	50	56	58	98	90	uPVC, PP, PE, HDPE: -/240/240
CLS065	Titan 65	65	69.1	71	116	90	uPVC, PP, PE, HDPE: -/240/240
CLS080	Titan 80	80	82.7	85	142	130	uPVC, PP, PE, HDPE: -/240/240
CLS100	Titan 100	100	110.4	112	171	105	uPVC, PP, PE, HDPE: -/240/240
CLS125	Titan 125	125	125	127	187	72	uPVC, PP, PE, HDPE: -/240/240
CLS150	Titan 150	150	160	163	240	120	uPVC, PP, PE, HDPE: -/240/240



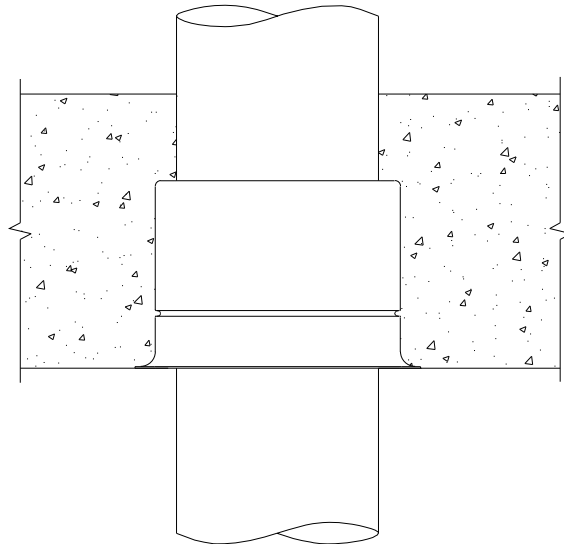
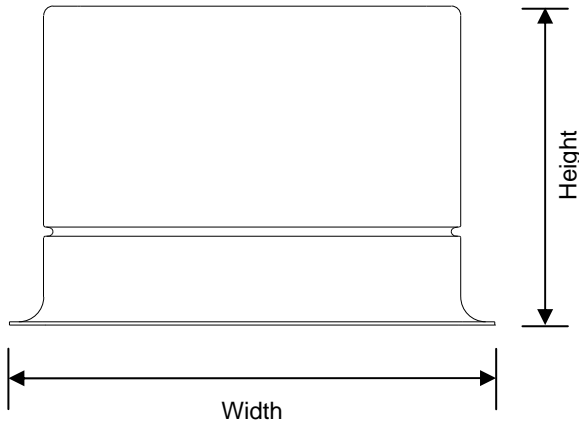
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BUILDING IN DETAILS



Typical installation showing elbow socket recessed into Titan fire collar



Typical installation showing pipe passing straight through Titan fire collar

FIRE COLLARS

GV Fire Collar

TECH SHEET: PAS-06

Issue: 19-07-2010

Plastic fire collar suitable for sealing most types of plastic pipes passing through walls and floors

Page 1 of 2

DESCRIPTION

A two part plastic fire collar containing an intumescent material designed to crush the plastic pipe under fire conditions thus sealing against the passage of flame and hot gases for up to 4 hours. Suitable for most plastics in floors, and masonry and lightweight walls. Also approved for floor waste applications (50mm & 80mm only).

APPLICATIONS

Especially designed for masonry walls and plaster walls this collar provides a quick and cost effective solution for fire rating of plastic pipes in high-rise residential construction, flats, townhouses, apartments, civil projects, health care and aged care facilities, offices, etc.

FEATURES

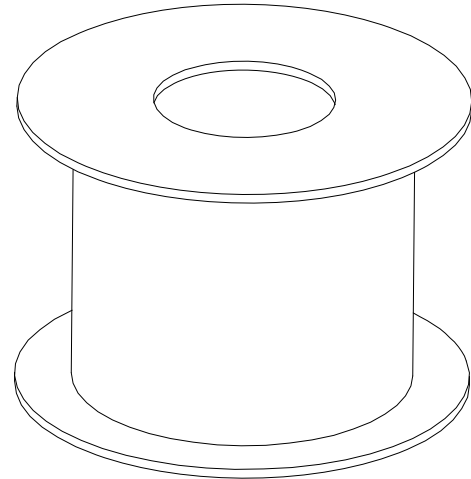
- Fully certified to Australian Standards AS1530.4 and AS4072.1 for up to 4 hours of fire rating
- 6 sizes service pipe sizes from 40-150mm (nom)
- Designed and approved for most brands of PP, HDPE, uPVC, PE, ABS.
- Also approved for floor waste applications (50mm & 80mm only)
- A cost effective fire stopping solution
- Adjustable pipe length from 90mm to 155mm to suit various wall thicknesses
- Tight fitting around pipe, which helps keep the pipe vertical during concrete pour, while also reducing smoke transfer.
- Built in slurry / smoke seal.
- 10 year warranty on intumescent material
- Australian made

MODELS AVAILABLE

Model	Collar Name	To suit nominal pipe (mm)	Actual PVC pipe O.D (mm)	Collar opening	Collar width inc. flange	Collar height	Floor application
CLGV040	GV 40	40	43.1	45	124	83	uPVC, PP, PE, HDPE: -/240/240
CLGV050	GV 50	50	56	60	142	91	uPVC, PP, PE, HDPE: -/240/240 uPVC Floor waste: -/180/180
CLGV065	GV 65	65	69.1	70	154	81	uPVC, PP, PE, HDPE: -/240/240
CLGV080	GV 80	80	82.7	85	175	83	uPVC, PP, PE, HDPE: -/240/240 uPVC Floor waste: -/240/240
CLGV100	GV 100	100	110.4	115	203	88	uPVC, PP, PE, HDPE: -/240/240
CLGV150	GV 150	150	160	165	220	103	uPVC, PP, PE, HDPE: -/240/240

INSTRUCTIONS

- Install as per instructions on following page
- **Note:** GV collar can be cut in half for retrofit applications.



GV Fire Collar

HOW TO SPECIFY

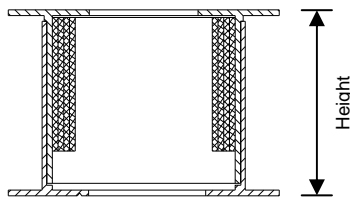
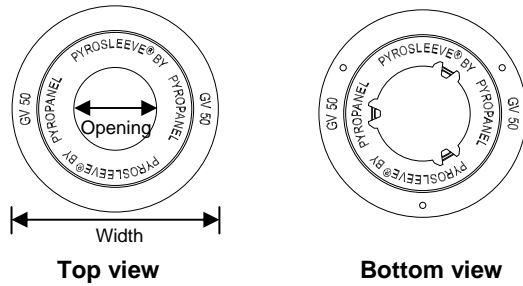
Eg, "Fire Collars to be Pyropanel "GV" fire collars , installed as per manufacturers instructions"



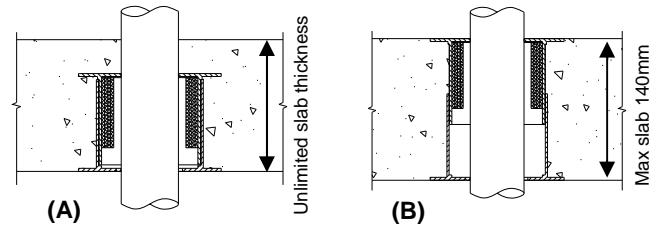
Pyropanel Developments Pty Ltd
 122-124 Beresford Rd, Lilydale, VIC, 3140
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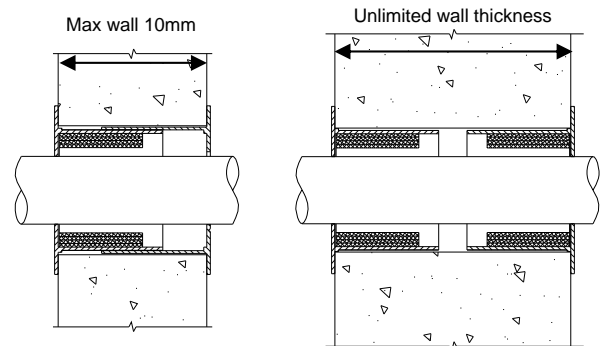
BUILDING IN DETAILS



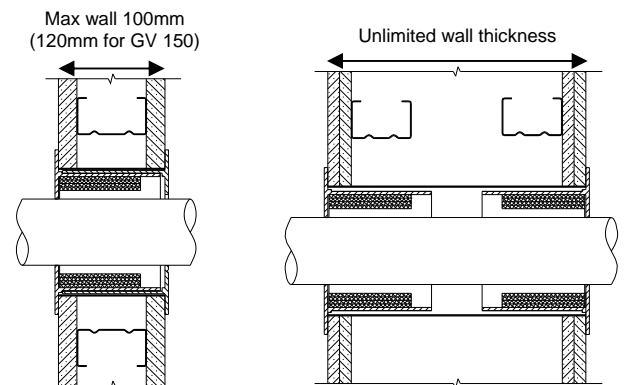
Section view of GV fire collar



Typical masonry floor application. For slab thicknesses less than 140mm, collar can be adjusted so that top of collar is level with top of slab (B). For thicknesses greater than 140mm, collar must be fully embedded in slab (A).



Typical masonry wall application. For wall thicknesses from 90mm to 150mm, a single GV can be used. For wall thicknesses greater than 150mm, a collar must be used on each side of the wall (trim collar length to suit if required).



Typical plaster wall application. A steel tube must be inserted to within 5 mm of each face of the wall. For wall thicknesses from 90mm to 100, a single GV can be used. For wall thicknesses greater than 100mm (120mm for GV150), a collar must be used on each side of the wall (trim collar length to suit if required). Where double studs are not connected or braced, collars must be located within 300mm of top, bottom, or edge of wall.

INSTRUCTIONS

Masonry Floor

- Fix collar to formwork and adjust height.
- Insert pipework, ensuring that the pipework enters the base of the collar.
- Pour concrete and remove formwork.
- Remove pipe locator tabs and insert elbow or additional pipe in to base of collar.

Masonry wall

- Create penetration hole.
- Insert single collar for walls up to 150mm, or two collars for walls greater than 150mm.
- Back fill with Pyropanel M4 mortar if penetration is oversized.
- Seal collar to wall using Pyropanel Multiflex fire rated sealant and steel masonry anchors.
- Remove pipe locator tabs and insert elbow or pipe.

Plaster wall

- Create penetration hole.
- Insert steel tube through wall ensuring that it finishes within 5mm of each face.
- Insert single collar for walls up to 100mm, or two collars for walls greater than 100mm (120mm for GV150).
- Seal collar to wall using Pyropanel Multiflex fire rated sealant and steel plasterboard anchors.

COLLARS & WRAPS

Intumex L for Armaflex coated metal pipes

TECH SHEET: PAS-07

Issue: 19-07-2010

Intumescent fire resistant strips that are specially approved for use with foam insulation around metal pipes

Page 1 of 2

DESCRIPTION

Pyropanel Intumex L is an intumescent material that has been specifically tested and approved for many uses, including sealing metal pipes that are insulated with flexible foam insulation (eg, Armaflex®) passing through masonry walls and floors. Tested to AS 1530.4 and AS 4072.1.

APPLICATIONS

Penetrations through concrete and brick walls and floors containing flexible foam insulated steel pipes for hot, cold and air-conditioning supply.

FEATURES

- Fully certified to Australian Standards AS1530.4 and AS4072.1 for up to 2 hours of fire rating
- Intumescent effect (expands up to 7 times), slowly replacing the foam insulation and creating a solid and compact expansion char
- Use in Drywall requires a steel metal tube (see attached instructions)
- The addition of a radiation guard will increase insulation value

TEST RESULTS

Wall / floor type	Nominal pipe diameter (mm)	Thickness of insulation (mm)	Layers of Intumex L	Rating
Masonry or concrete wall, or concrete floor	15 or 20	9	1	-/90/60
Masonry or concrete wall, or concrete floor	15 or 20	13	1	-/90/90
Masonry or concrete wall, or concrete floor	25	13	1	-/120/117
Masonry or concrete wall, or concrete floor	25	19	2	-/120/117
Concrete floor	50	19	2	-/180/41
Concrete floor	75	19	2	-/90/31
Masonry or concrete wall, or concrete floor	100	25	3	-/120/58
Drywall*	15 or 20	9	1	-/90/60
Drywall*	15 or 20	13	1	-/90/90
Drywall	50	19	2	-/60/44

* Requires extra layer of plasterboard at site of penetration extending 100mm from the pipe (3 layers total)

Note: Rating is tested rating, and is dependant on fire rating of surrounding substrate - check with Pyropanel for latest test approvals if in doubt.

INSTRUCTIONS

1. Apply required layers of Intumex L to pipe as indicated in attached drawings
2. Insert into wall or floor and seal penetration with Pyropanel Multiflex
3. If using multiple pipes through a large boxed-out opening, install Intumex L around pipes and backfill around all pipes with Pyropanel M4 Fire rated mortar.

MODELS AVAILABLE

Product code	Product	Details
INTUMEX L	Intumex L intumescent	35mm wide strips x 3mm thick (nominal)

HOW TO SPECIFY

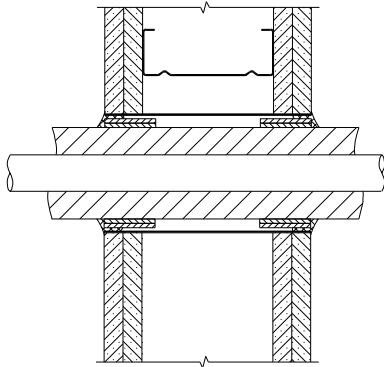
Eg, "Seal penetration using Pyropanel "Intumex L fire rated intumescent, and Pyropanel Multiflex fire rated acrylic sealant, installed as per manufacturers instructions"



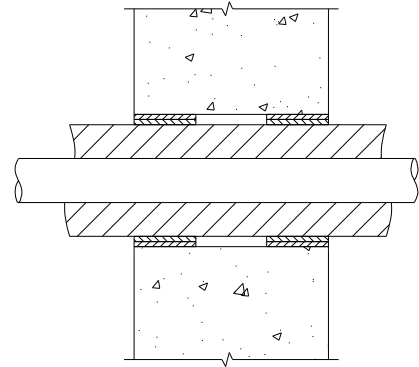
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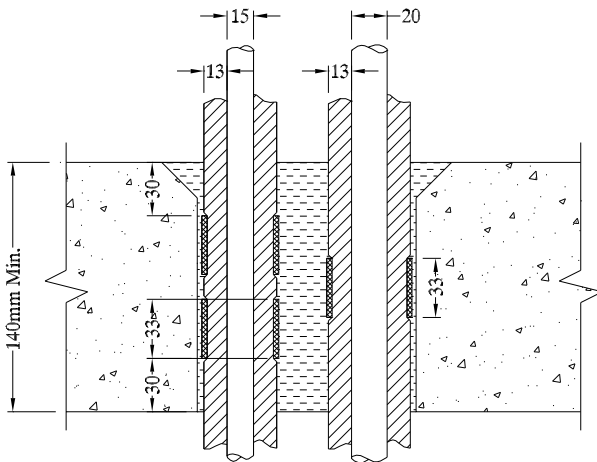
BUILDING IN DETAILS



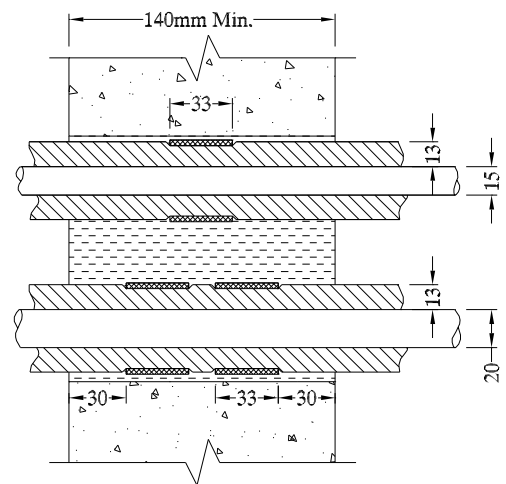
Plaster wall section
Two wraps located within 10mm of each face



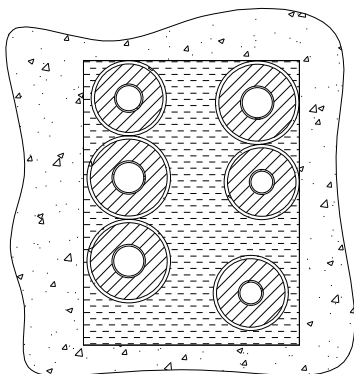
Masonry wall section
One wrap located centrally, or two wraps located within 30mm of each face



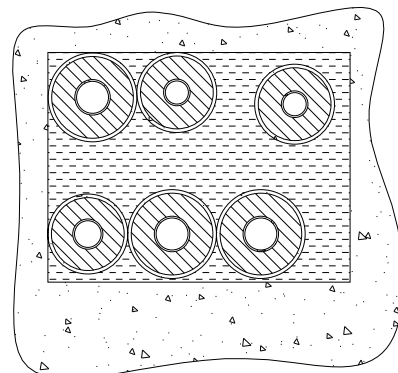
Masonry floor section with oversized penetration
One wrap located centrally, or two wraps located within 30mm of each face, and backfilled with M4 fire rated mortar



Masonry wall section with oversized penetration
One wrap located centrally, or two wraps located within 30mm of each face, and backfilled with M4 fire rated mortar



Masonry floor plan with oversized penetration
One wrap located centrally, or two wraps located within 30mm of each face, and backfilled with M4 fire rated mortar



Masonry wall section with oversized penetration
One wrap located centrally, or two wraps located within 30mm of each face, and backfilled with M4 fire rated mortar

SEALANTS & PUTTY

Multiflex fire rated acrylic sealant

TECH SHEET: PAS-08

Issue: 15-09-06

Flexible, acrylic fire rated sealant suitable for reducing smoke and fire spread

Page 1 of 2

DESCRIPTION

A one part general purpose fire resistant sealant for construction joints and the sealing of service penetrations in plasterboard, concrete floors and masonry wall constructions. When cured, Multiflex provides an elastic flexible seal which will permit 30% compression, 20% extension, and shear movement equal to 20% of the gap width.

APPLICATIONS

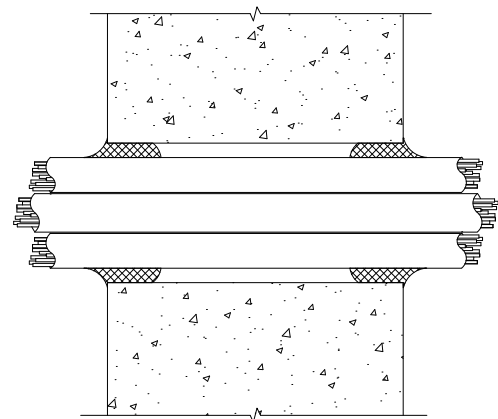
Especially designed for masonry walls and plaster walls this collar provides a quick and cost effective solution for fire rating of plastic pipes in high-rise residential construction, flats, townhouses, apartments, civil projects, health care and aged care facilities, offices, etc.

FEATURES

- Fully certified to Australian Standards AS1530.4 and AS4072.1 for up to 4 hours of fire rating
- Up to 56 STC rating (depending on element)
- No harmful components
- No harmful fumes when exposed to heat. Contains an adhesion enhancer to assist in bonding to difficult surfaces.
- Prevents the passage of hot gases
- Water resistant 7 days after applications (not suitable for continuous wetting, submersion or external use)
- Easy to clean up with water after use and prior to curing
- Paintable after 24hours at 20°C
- White or grey colour cartridges
- Six month shelf life from date of purchase
- Australian made

INSTRUCTIONS

- Only apply to dust free surfaces
- Do not apply if temperature is below 9° Celsius
- Ensure depth of sealant is at least 50% of the width of the penetration. Maximum width of seal = 30mm
- See over page for examples of applications



Typical example of Pyropanel Multiflex sealing electrical cables through a masonry wall

HOW TO SPECIFY

Eg, "Fire rated sealant to be Pyropanel "Multiflex" fire rated flexible acrylic sealant , installed as per manufacturers instructions"

MODELS AVAILABLE

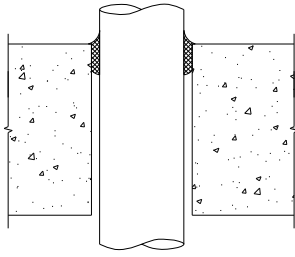
Product code	Product	Details
PSMUTLIC	Multiflex cartridge - white	310ml
PSMULTICG	Multiflex cartridge - grey	310ml
PSMULTIS	Multiflex sausage - grey	600ml
PSMULTIT	Multiflex pail - grey	10L
PSBULK	Bulk Loading gun	Suits 600ml sausage or pail
PSBULKFO	Follower plate	For loading from 10L pails



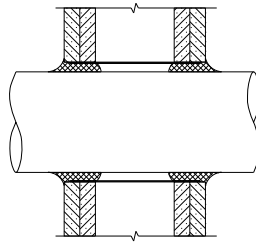
Pyropanel Developments Pty Ltd
 122-124 Beresford Rd, Lilydale, VIC, 3140
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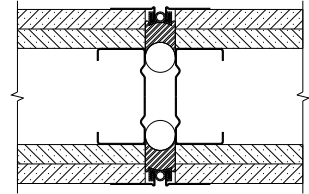
BUILDING IN DETAILS



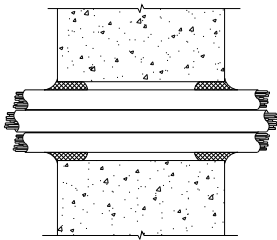
Metal pipe penetration through masonry or concrete floor - up to 2 hours fire resistance (max pipe diameter 200mm nom.)



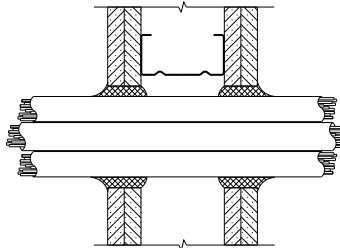
Metal pipe penetration through lightweight plaster wall with steel sleeve - up to 2 hours fire resistance (max 200mm nom.)



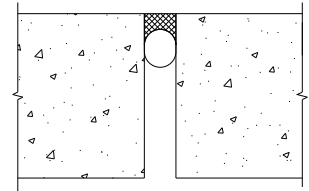
Plaster control joint - up to 2 hours fire resistance



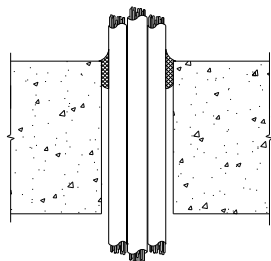
Cable penetration through concrete or masonry wall - up to 4 hours fire resistance



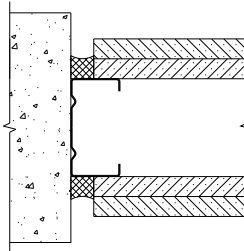
Cable penetration through lightweight plaster wall - up to 2 hours fire resistance



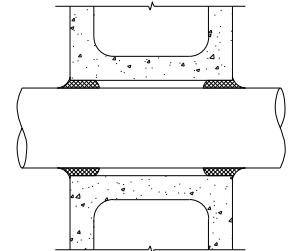
Masonry control joint - up to 4 hours fire resistance



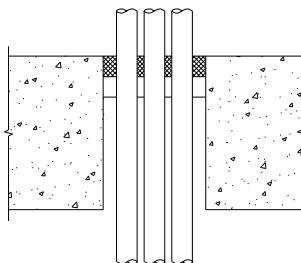
Cable penetration through masonry or concrete floor - up to 4 hours fire resistance



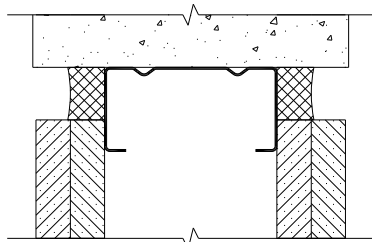
Masonry wall intersection - up to 2 hours fire resistance



Metal pipe penetration through lightweight hollow brick - up to 4 hours fire resistance (max 80mm), or 2 hours (max 200mm nom.)



Metal pipe penetration through masonry or concrete floor - up to 4 hours fire resistance



Deflection head - up to 2 hours fire resistance

MORTAR

M4 Fire Rated Mortar

TECH SHEET: PAS-09

Issue: 15-01-08

Lightweight expanding fire rated mortar

DESCRIPTION

A water-based, lightweight, high insulation expanding mortar which provides a fire barrier for up to four hours for openings with building service penetrations. It contains no toxic or smoke producing materials and is water resistant after curing.

APPLICATIONS

Especially designed to reinstate concrete floor and masonry wall openings around building services such as electrical cables, metal or copper pipes, cable trays, and plastic pipes when used with Pyropanel Pyroraps.

FEATURES

- Fully certified to Australian Standards AS1530.4 and AS4072.1 for up to 4 hours of fire rating at 100mm thick, or 2 hours rating when 75mm thick.
- 20kg bags
- Suitable for floors and walls
- Especially suitable for use with Pyropanel Pyroraps
- Water resistant after drying
- Maximum size in floor or wall = 0.6m² with max dimension 1200mm in any direction (up to 90 mins FRL), or 500mm x any length @ 75mm thickness -/120/120.
- Maximum size in floor or wall = 0.4m² with max dimension 800mm in any direction (up to 4hrs FRL)
- Australian made
- 12 months shelf life

APPROXIMATE YIELD

- 1 x 20kg = 0.25m² @ 75mm thick (-/120/120hrs)
- 1 x 20kg = 0.20m² @ 100mm thick (-/240/240hrs)

STORAGE

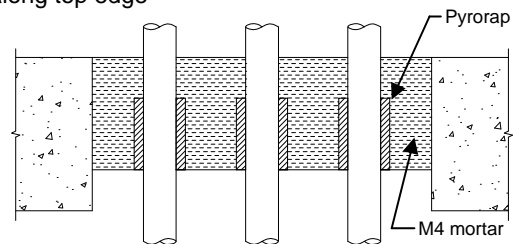
- Store in a dry place

HANDLING

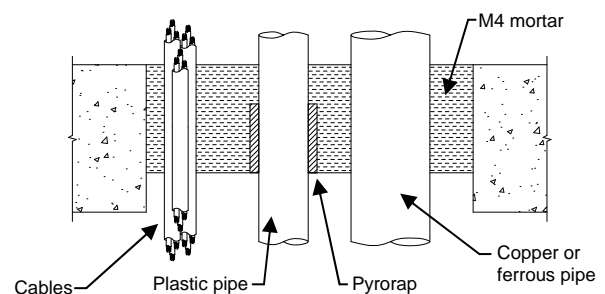
- Keep out of reach of children and animals.
- Do not store in any food container, and avoid contact with food.
- Flush eyes with clean water - if irritation persists, seek medical attention.
- If swallowed, rinse mouth with water. Consult a doctor immediately if large quantity has been swallowed.

INSTRUCTIONS

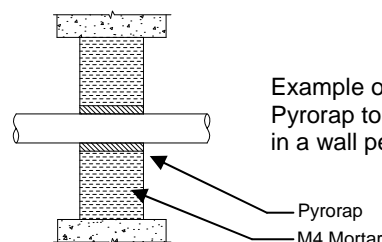
- Mix contents of bag with 15 litres of water (nominal) - mix only with water
- Provide form work under opening and trowel in mortar
- Leave formwork in place for at least 24 hours
- Note: in large floor penetrations, key in mortar to slab along top edge



Example of M4 mortar used with Pyroraps to seal plastic pipes in a floor penetration



Example of M4 mortar sealing electrical cables, copper and ferrous pipes, and used with Pyroraps to seal plastic pipes



Example of M4 mortar and Pyrorap to seal plastic pipe in a wall penetration

MODELS AVAILABLE

Product code	Product	Details
PMM420	M4 Mortar	20kg bag

HOW TO SPECIFY

Eg, "Fire rated sealant to be Pyropanel "M4 Mortar" fire rated expanding lightweight mortar, installed as per manufacturers instructions"



Pyropanel Developments Pty Ltd
122-124 Beresford Rd, Lilydale, VIC, 3140
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FIRE PILLOWS

P4 Fire Pillows

TECH SHEET: PAS-11

Issue: 15-09-06

Fire rated pillows containing non-combustible rockwool in a woven fabric cover

Page 1 of 2

DESCRIPTION

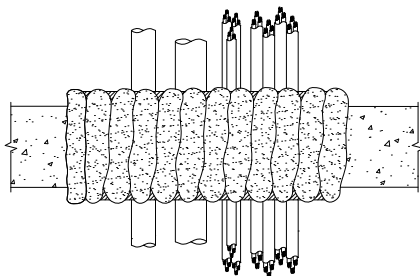
Fire rated pillows containing non-combustible rockwool in a woven fabric cover suitable for sealing larger penetrations and expansion joints for up to 3 hours of fire resistance.

APPLICATIONS

Expansion joints, penetrations through concrete and brick walls and floors containing electrical cables and cable trays and metal pipes. Should be used in conjunction with Pyropanel Multiflex and Pyropanel Intumex F for maximum fire resistance.

FEATURES

- Fully certified to Australian Standards AS1530.4 and AS4072.1 for up to 3 hours of fire rating depending on the construction element they are installed in
- Light weight and very easy to use
- 3 sizes available
- Not suitable for external use
- Maximum penetration size for floors and walls:
 - 400mm on shortest side x any length
 - 400-500mm on shortest side, max area 0.75m²
 - 500-600mm on shortest side, max area 0.75m², with additional row of Pyropanel PS expanding fire pillows along both longest sides
- Use with Pyropanel Multiflex fire rated acrylic sealant and Pyropanel Intumex F fire rated putty for maximum fire resistance
- **Note:** for uninsulated metal penetrations, an insulation shield may be required to maintain insulation level due to heat transfer via the penetrating element.
- *For dust free applications, refer PAS-12 Pyropanel intumescent fire pillows*
- *For long spans, refer to PAS-13 Pyropanel fire snake*



Example of P4 fire pillows sealing electrical cables and copper or ferrous pipes, in a floor penetration

INSTRUCTIONS

1. Firmly pack pillows into penetration opening, ensuring the pillows are compressed to approximately 30mm thick.
2. Ensure that the pillow is orientated so that there is at least 200mm between fire and non fire sides
3. Pack material tight against pipes, cables and cable tray, ensuring all gaps and voids are filled
4. Fill all gaps between pillows and between pillows and penetrations and surrounding substrate to a depth of 50mm with Pyropanel Multiflex

RATING

Application	Rating
Concrete and masonry walls and floor	Up to -/180/180

Note: Rating is maximum rating, and is dependant on fire rating of surrounding substrate - check with Pyropanel for latest test approvals if in doubt

MODELS AVAILABLE

Product code	Product	Size	Compressed thickness
PLTP41	P4-1 Fire pillow	200 x 100	30mm
PLTP42	P4-2 Fire pillow	200 x 200	30mm
PLTP43	P4-3 Fire pillow	200 x 300	30mm

HOW TO SPECIFY

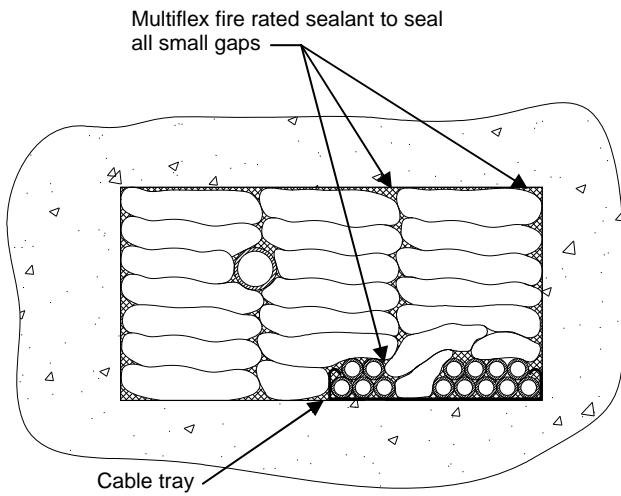
Eg, "Seal penetration using Pyropanel "P4 Fire Pillows", Pyropanel Multiflex fire rated acrylic sealant, and Pyropanel Intumex F as required, and installed as per manufacturers instructions"



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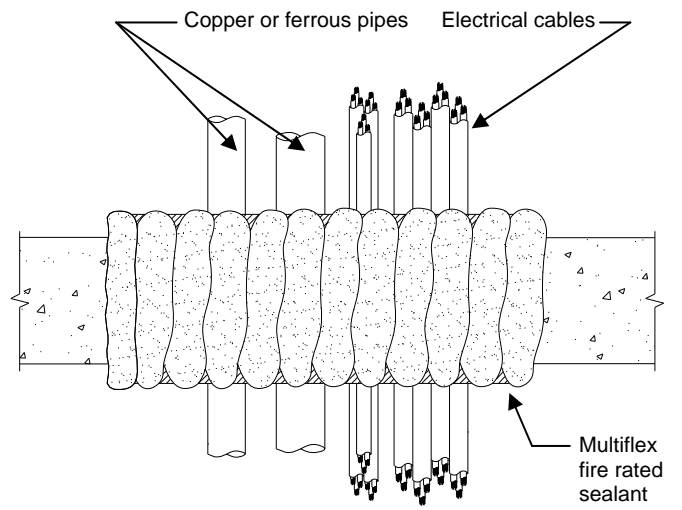
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BUILDING IN DETAILS



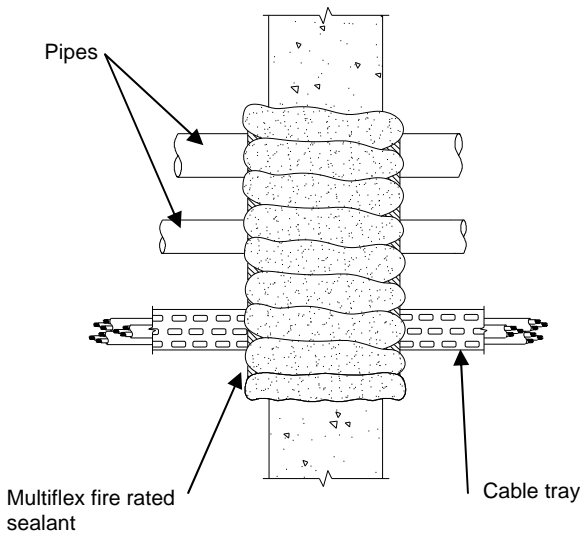
Typical elevation view of wall

Example of P4 fire pillows sealing electrical cables in a cable tray, and copper or ferrous pipes, in a wall penetration



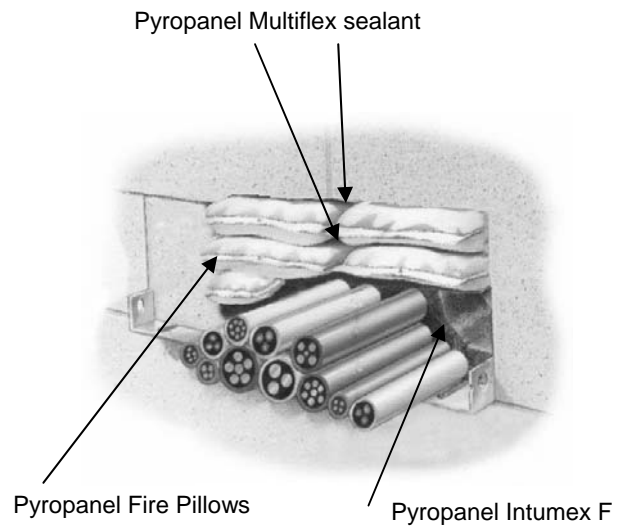
Typical section view of floor

Example of P4 fire pillows sealing electrical cables and copper or ferrous pipes, in a floor penetration



Typical section view of wall

Example of P4 fire pillows sealing electrical cables and copper or ferrous pipes, in a wall penetration



Example of P4 fire pillows sealing electrical cables and copper or ferrous pipes, in a wall penetration with Pyropanel Multiflex fire rated acrylic sealant and Pyropanel Intumex F

FIRE PILLOWS

PS Expanding Fire Pillows

TECH SHEET: PAS-12

Issue: 23-10-07

Expanding fire rated pillows containing intumescent material in a dust free cover

DESCRIPTION

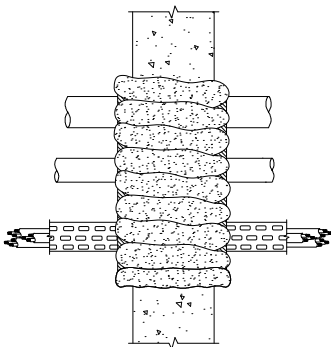
Expanding fire rated pillows containing expanding intumescent material in a dust free cover in suitable for sealing larger penetrations and expansion joints for up to 3 hours of fire resistance.

APPLICATIONS

Expansion joints, penetrations through concrete and brick walls and floors containing electrical cables and cable trays and metal pipes. Pyropanel PS expanding fire pillows are especially useful for computer rooms, power stations, and applications that require cables and pipes to pass through walls and floors without the reduction of the fire rating, and with a requirement of a dust free fire barrier.

FEATURES

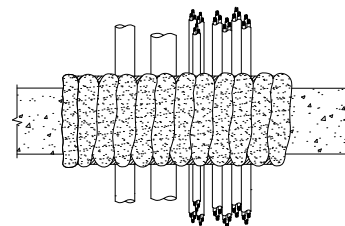
- Fully certified to Australian Standards AS1530.4 and AS4072.1 for up to 4 hours of fire rating depending on the construction element they are installed in
- Light weight and very easy to use
- Dust free polyurethane bag
- 2 sizes available
- Not suitable for external use
- Maximum penetration size for floors is: 0.75m² when used in conjunction with Pyropanel P4 fire pillows (*contact Pyropanel for more approval information*)
- Maximum penetration size for walls is: 0.5m²
- Use with Pyropanel Multiflex fire rated acrylic sealant and Pyropanel Intumex F fire rated putty for maximum fire resistance
- For long spans, refer to PAS-13 Pyropanel fire snake



Example of expanding fire pillows sealing electrical cables in a cable tray, and copper or ferrous pipes, in a wall penetration (elevation).

INSTRUCTIONS

1. Loosely pack pillows into penetration opening.
2. Ensure that the pillow is orientated so that there is at least 100mm between fire and non fire sides.
3. Pack material against cables and cable tray, ensuring all gaps and voids are filled.
4. Fill all gaps between pillows and between pillows and surrounding substrate to a depth of 50mm with Pyropanel Multiflex.



Example of expanding fire pillows sealing electrical cables and copper or ferrous pipes, in a floor penetration

RATING

Application	Rating
Concrete and masonry walls and floor	Up to -/180/180

Note: Rating is maximum rating, and is dependant on fire rating of surrounding substrate - check with Pyropanel for latest test approvals if in doubt

MODELS AVAILABLE

Product code	Product	Size	Compressed thickness
PLPS300	PS300 expanding fire pillow	340 x 125	30mm
PLPS750	PS750 expanding fire pillow	340 x 220	30mm

HOW TO SPECIFY

Eg, "Seal penetration using Pyropanel "PS Fire Pillows", Pyropanel Multiflex fire rated acrylic sealant, and Pyropanel Intumex F as required, and installed as per manufacturers instructions"



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JOINT SEALING SYSTEM

Pyropanel Fire Snake

TECH SHEET: PAS-13

Issue: 19-07-2010

For sealing long penetrations in fire rated walls and floors

DESCRIPTION

Fire rated Pyropanel rock wool encapsulated in a flexible polyethylene casing.

APPLICATIONS

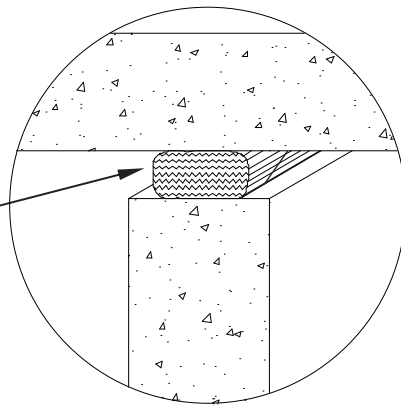
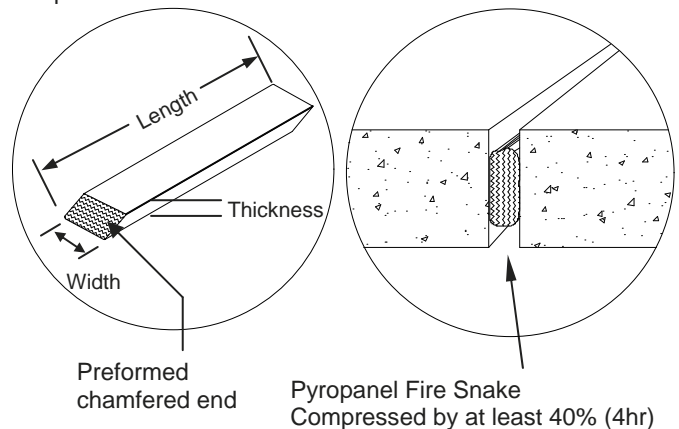
Ideal for sealing large penetrations in floors and walls, especially between the top of fire walls and underside of slabs, ceilings and roofs.

FEATURES

- Tested and certified to Australian Standards for 2 hour applications between top of fire rated walls and the underside of slabs, roofs and ceilings in horizontal applications with 10% compression.
- Tested and certified to Australian Standards for 4 hrs in horizontal floor applications with 40% compression.
- Available in a variety of thickness to fire rate gaps from 10mm to 67mm.
- Standard length is 1500mm (900mm on request)
- Custom lengths are available on request (up to max 1500mm long).
- Very cost effective and easy to install.

INSTALLATION

- Insert Pyropanel Fire Snake into penetration, ensuring a tight fit against all surfaces.
- Pyropanel Fire snake must be compressed by at least 10% for horizontal applications (e.g. above wall) to achieve 2hr fire protection, and by at least 40% in vertical applications (e.g. floor gap) to achieve 4hrs protection.
- When sealing long penetrations, Fire Snakes may be overlapped using pre-formed chamfered ends, or placed tightly beside each other and overlapped by at least 50mm to maintain the fire protection barrier.
- Seal any small penetrations with Pyropanel Multiflex fire resistant sealant - ensure that all gaps are thoroughly protected.



Pyropanel Fire Snake Compressed by at least 10% (2hr)

MODELS AVAILABLE

Model	Thickness (mm)	Width (mm)	Gap range - Walls (min 10% compression, 2hr rating) mm	Gap range - Floors (min 40% compression, 4hr rating) mm
PSFS25-60	25	60	10-22	10-15
PSFS38-60	38	60	15-34	15-22
PSFS50-75	50	75	25-45	25-30
PSFS75-100	75	100	35-67	N/A

(Standard length = 1500mm)

HOW TO SPECIFY

"Penetration to be sealed with "Pyropanel Fire Snake" and installed to manufacturers specification. Seal any small penetrations with Pyropanel Multiflex fire sealant."

FIRE RATED SWITCH BOX

Fire Rated Switch Box

TECH SHEET: PAS-14

Issue: 15-09-06

Intumescent insert to upgrade conventional steel switch boxes to fire rated switch boxes

DESCRIPTION

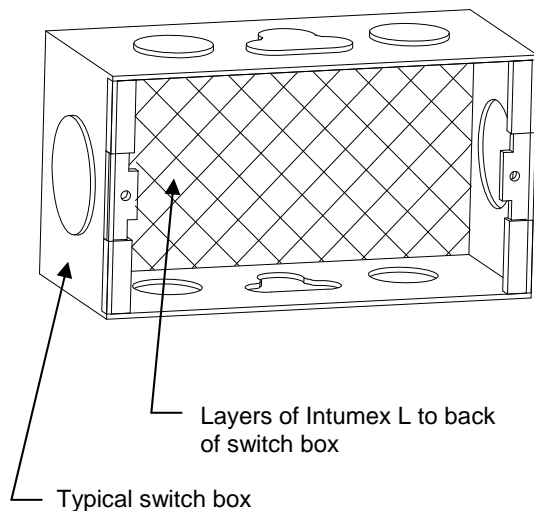
Strips of 3mm thick Intumex L which are added to the back of conventional steel switch and power boxes to create a fire rated barrier which prevents the spread of fire and smoke.

APPLICATIONS

Used for fire rating of conventional power and switch boxes to maintain the rating of fire rated plaster board walls.

FEATURES

- Fully certified to Australian Standards AS1530.4 and AS4072.1 for up to 2hours of fire rating depending on the construction element they are installed in
- Simple to install
- Cost effective



INSTRUCTIONS

1. Cut the required amount of Intumex L and insert against the back wall of the steel power / switch box. **Note: Minimum Intumex L amount is 25% of depth of switch box, and covering entire back of switch box.**
2. Ensure switch box is firmly attached to the wall
3. Seal any gaps between switch box and wall using Pyropanel Multiflex sealant

USAGE

Switch box size	Amount of 3mm Intumex L	Rating
93mm x 52mm x 42mm deep	90mm x 50mm x minimum 10.5mm thick (min 4 layers of 3mm)	Up to -/120/120

Note: Rating is maximum rating, and is dependant on fire rating of surrounding substrate - check with Pyropanel for latest test approvals if in doubt

HOW TO SPECIFY

Eg, "Switch and power boxes to contain Pyropanel Intumex L as per manufacturers instructions"