

RADIANT ENTERPRISE

A L W A Y S I M P R O V I N G

A SOLUTION FOR EVERY OPENING

RADIANT
ENTERPRISE NSW PTY LTD

ABOUT US

We are an Australian owned, family run company that has been in operation since November 1998.

We are in the business of manufacturing quality metal door frames, timber doors, fire rated doors, metal clad doors, acoustic doors and lead lined doors.

WHY WORK WITH US?

- ✓ Year of founding - 1998, 20 years in operation,
- ✓ Projects completed - 500+ (Major Projects)
- ✓ We support Australian companies
- ✓ Customized solutions



FRAMES

We manufacture frames to suit brick and block walls, timber and metal stud walls, concrete panel walls and non standard custom walls.



DOORS

We manufacture timber solid core doors, lightweight engineered doors, fire rated doors, lead lined doors, acoustic doors and metal clad doors.



HARDWARE

We supply architectural hardware and we also offer door and hardware installation services for fire rated and non-rated door sets.

**ALWAYS
IMPROVING.....**

Contents

Welcome to Radiant	Page 2
Product Selection – Selecting the right door	Page 3
Hollow Core Door	Page 5
Lightweight Solid Core Door	Page 6
Poly Core Door	Page 7
Solid Core Door	Page 8
Acoustic Door	Page 9
Fire Rated Door	Page 10
Metal Frame – Block	Page 11
Metal Frame – Stud	Page 12
Metal Frame – Concrete	Page 13
Fire Rated Frame – Block	Page 14
Fire Rated Frame – Stud	Page 15
Fire Rated Frame – Concrete	Page 16
Hardware Services	Page 17

Selecting the right door

Selecting the right door

Door selection is based on three main categories; Use, Requirements and Location (URL).

Use of a door, by this we mean the amount of use the door will receive. High traffic areas will require a door that can withstand frequent use; these doors are also typically subjected to a lot more abuse and therefore require a heavy-duty construction. While moderate to low use doors do not generally require heavy duty construction. Use as mentioned above is classed as High, Moderate or Low depending on the number of times the door is used per day.

Requirements of the door, by this we mean what the door has to achieve. For example some doors are required to be fire rated while others may be acoustic rated. Other doors may need to be pivot or require a light weight design. There are many requirements for door construction which is determined by the use and location.

Location of the door, this primarily means what conditions the door will be expected to operate in. For example, is the door is internal or external or is it in a high wet area or a full sun position. The environments doors are to be located will greatly affect the type of door selected.

Door Levels,

Level 1 – Light commercial / residential

Level 2 – Heavy commercial / residential

Level 3 – Extra heavy commercial / residential

Level 4 – Secure commercial



Selecting the right door

Building Type and Opening Location	Use Level	Door Level				Door Thickness (MM)	Special Requirements	Recommended Door Type			
		1	2	3	4			Hollow Core Door	Poly Core Door	Solid Core Door	Fire-rated Door
OFFICE BUILDINGS											
Entry Doors	High			*	40/45	Vision			*	*	
Individual Office	Low	*			35/40	Privacy/Acoustic	*		*		
Toilet Entry	High		*	*	35/40	Vision	*		*		
Stair wells	Moderate		*		35/45	Fire rating (FR)				*	
Storerooms	Moderate		*	*	40/45	Metal clad/FR			*	*	
Electrical cupboards	Moderate			*	35/40	Metal clad/FR			*	*	
SCHOOLS, UNIVERSITIES, LIBRARIES											
Entry and Exit	High			*	40/45	Vision			*	*	
Classrooms	Moderate		*		35/40	Acoustic/Vision	*		*		
Toilet Entry	High		*	*	35/40	Vision	*		*		
Canteens	High		*	*	35/40	Vision			*		
Stair wells	Moderate		*		35/45	Fire rating (FR)				*	
Secure store	Low			*	45	Metal clad/FR			*	*	
HOSPITAL, NURSING HOMES											
Entry and Exit	High			*	40/45	Vision			*	*	
Patient Rooms	Moderate		*		35/40	Privacy/Acoustic	*		*		
Stair wells	Moderate		*		35/45	FR				*	
Operating Rooms	High		*		35/40	Privacy/Acoustic	*		*		
Examination Rooms	High		*		35/40	Privacy/Acoustic	*		*		
Kitchens	Moderate		*		35/40	Vision			*		
Canteens	High		*		35/40	Vision			*		
APARTMENTS, HOUSES											
Building Entry	High			*	40/45	Vision			*	*	
Apartment Entry	High			*	35/45	FR				*	
Bedrooms	Low	*			35		*	*	*		
Bathrooms	Low	*			35	Privacy	*	*	*		
Cupboards	Low	*			35		*	*	*		
Stair wells	High		*		35/45	FR				*	
Electrical cupboards	Moderate			*	35/40	Metal clad/FR			*	*	

Selecting the right door

Hollow Core Doors

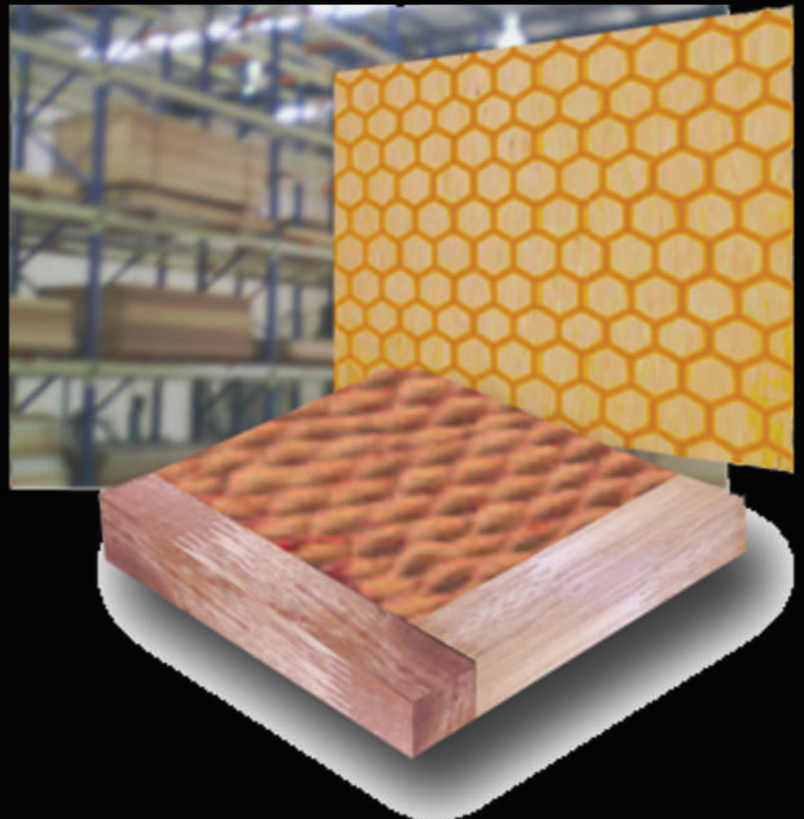
All non-rated doors manufactured by Radiant conform to Australian Standard AS2688

Features

35mm or 40mm general purpose flush design this is a low use door type, designed for light residential use.
Cellular core provides the door with structural strength and provides exceptional flatness
Full coat internal contact adhesive forms a permanent bond for facings
Internal edge rails to all four sides means no visible joins on the door faces
Redicoat facing provide a smooth surface for final finishes i.e. paint
Redicoat facing are primed

Optional features

Panel designs to face
Ply or timber veneer facings
Metal cladding for a light weight strong door



Selecting the right door

Engineered Lightweight Solid Core Door

This innovative style of door brings a whole new light to lightweight doors. With its unique tubular core it significantly reduces the weight of the door whilst maintaining the strength and reliability that you would expect out of a solid core door.

Features

- The tubular core reduces the weight of a standard solid core door by 60%
- With the exceptional construction of the core, even with 25 mm diameter holes extruded throughout it maintains such astounding density that it can withstand pressure of up to 20 kg/cm² without deformation.
- Because the core encompasses such a low area it has a very low swelling factor, thus reducing the affects of moisture and humidity.
- Even with such a high density because of the extruded holes the door is relatively flexible, giving it more resistance against slamming and blunt force.
- It can also be used in an acoustic environment, with the 35mm door reaching a 26 Db Rating and 28 Db for a 40mm door.
- Ply facing are standard on 2, 3, and 4 hour doors

What makes this core is so special? Radiant's extruded particle board is manufactured by a special extrusion process, the first continuous production method for wood based materials. This process differs fundamentally from other production methods, which results with these remarkable advantages



Selecting the right door

Poly Core Doors

All non-rated doors manufactured by Radiant conform to Australian Standard AS2688

Features

35mm or 40mm general purpose flush design this is a low to moderate use door type, designed for light to heavy commercial / residential use.

Polystyrene core provides the door with structural strength and provides exceptional flatness

Full coat internal contact adhesive forms a permanent bond for facings

Internal edge rails to all four sides means no visible joins on the door faces

MDF facing provide a smooth surface for final finishes i.e. paint

Optional features

Ply or timber veneer facings

Metal cladding for a light weight strong door



Selecting the right door

Solid Core Doors

All non-rated doors manufactured by Radiant conform to Australian Standard AS2688

Features

35mm, 40mm or 44mm general purpose flush design this is a moderate to high use door type, designed for heavy commercial / residential use.

High Moisture Resistance (HMR) core provides the door with structural strength and provides exceptional flatness

Full coat internal contact adhesive forms a permanent bond for facings

Internal edge rails to all four sides means no visible joins on the door faces

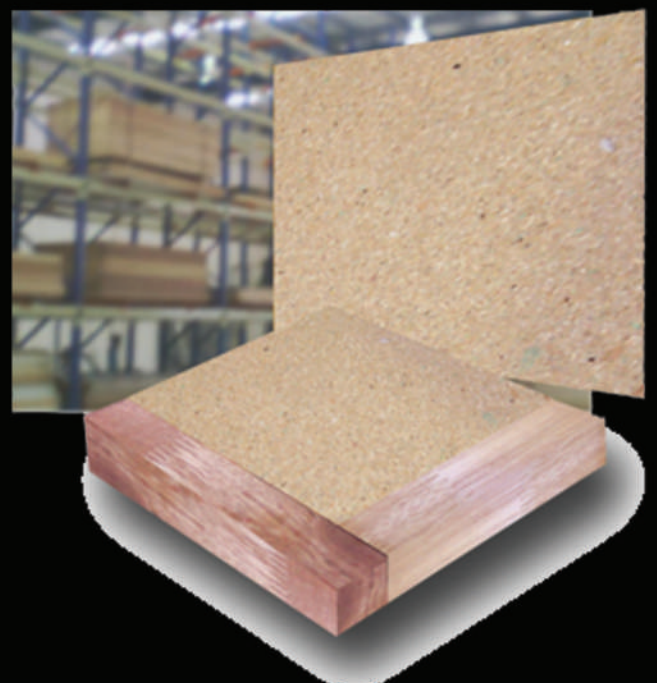
MDF facing provide a smooth surface for final finishes i.e. paint

Optional features

Ply or timber veneer facings

Metal cladding for a light weight strong door

External edge strips to the vertical sides



Selecting the right door

Acoustic Doors

Our acoustic doors are influenced by the design of the door itself, its manufacturing process helps the materials absorb the sound and only transmit a fraction of the original volume through the door.

Features

- The entire door is weight reduced as the materials used are less dense than normal materials inhibiting the transfer of vibrations through the door
- Its special core is manufacturing to be flexible and therefore creating an unstable setting and distorting and muffling any noise that comes in contact with the door
- With the doors thickness precision and high impact resistance it achieves the best surface quality and optimum acoustic values
- The sandwich design with a minimum number of fixings between layers also promotes sound insulation properties as the medium for vibrations is disturbed.

Why choose Acoustic?

The advantages you get from these doors can't be matched with any standard door. Noise can affect any and every satiation, noise is an unwanted nuisance that affects work, study and leisure.

These doors can be used to keep a concentrated workplace just that, whether it is a board room a conference hall or the office itself.

It is perfect for classrooms, Hospitals and hotel rooms and even has its uses in the home.

Basically where wouldn't you want an acoustic door?



Selecting the right door

Fire rated Doors

All fire rated doors manufactured by Radiant conform to Australian Standard AS1905 part 1

Features

35mm or 45mm general purpose flush design this is a moderate to high use door type, designed for heavy commercial / residential use.

Fire rated core provides the door with structural strength and provides exceptional flatness. These cores are rated at 1, 2, 3, or 4 hours

Full coat internal contact adhesive forms a permanent bond for facings

Internal edge rails to all four sides to conform with the Australian standards means no visible joins on the door faces

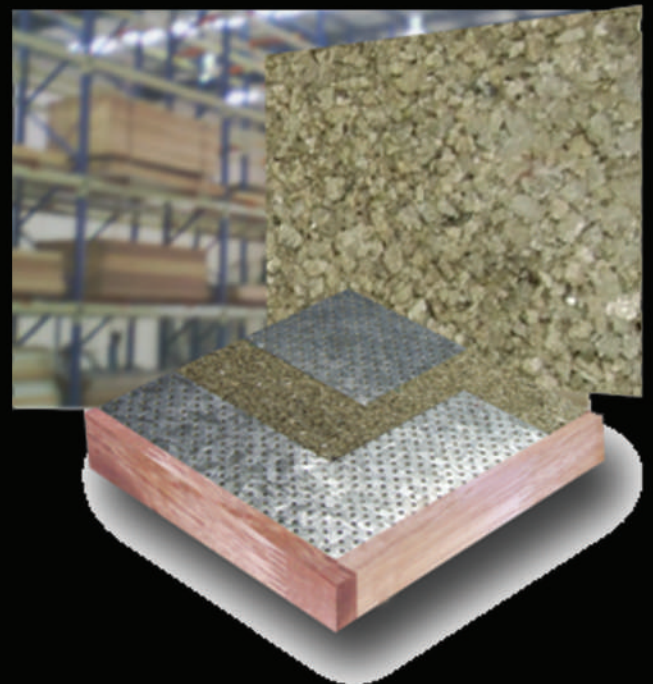
MDF facing provide a smooth surface for final finishes i.e. paint, however this facing type is only allowed on 1 hour doors

Ply facing are standard on 2, 3, and 4 hour doors

Optional features

Timber veneer facings

Metal cladding for a light weight strong door



Selecting the right frame

Metal Frames - Block

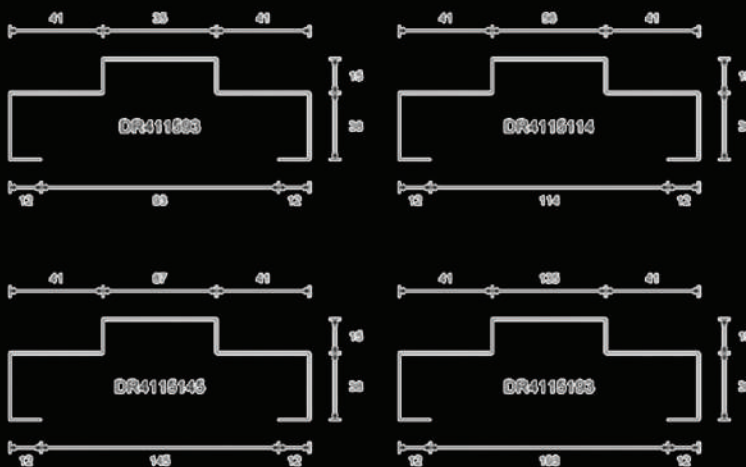
All non rated metal frames are manufactured to Australian Standards. These frames are suitable for standard brick and block sizes, commonly used for internal and external applications. Frames are installed with wire ties, supplied with the frame.

Features

- Rebates to suit 35mm solid core doors.
- Throat sizes available, 93mm, 114mm, 145mm, and 193mm
- 1.1mm Zinc Anneal
- Welded, dressed and primed
- 2 off 100 x 75 x 2.5mm zinc plated loose pin hinges welded to the frame.
- 1 off standard universal striker which suits most locks

Optional Features

- Increased material gauge
- Galvanised steel, or stainless steel
- Spot welded assembly
- Additional hinges
- Back plates for screw fixed hinges
- Rebates to suit 40mm and 45mm doors



Selecting the right frame

Metal Frames – Stud

All non rated metal frames are manufactured to Australian Standards. These frames are suitable for standard stud configurations, commonly used for apartment applications. Frames are installed with stud clips or C section

Features

- Rebates to suit 35mm solid core doors.
- Throat sizes available, 86mm, 93mm, and 114mm
- 1.1mm Zinc Anneal
- Welded, dressed and primed
- 2 off 100 x 75 x 2.5mm zinc plated loose pin hinges welded to the frame.
- 1 off standard universal striker which suits most locks

Optional Features

- Increased material gauge
- Galvanised steel, or stainless steel
- Spot welded assembly
- Back plates for screw fixed hinges
- Rebates to suit 40mm and 45mm doors



Selecting the right frame

Metal Frames - Concrete

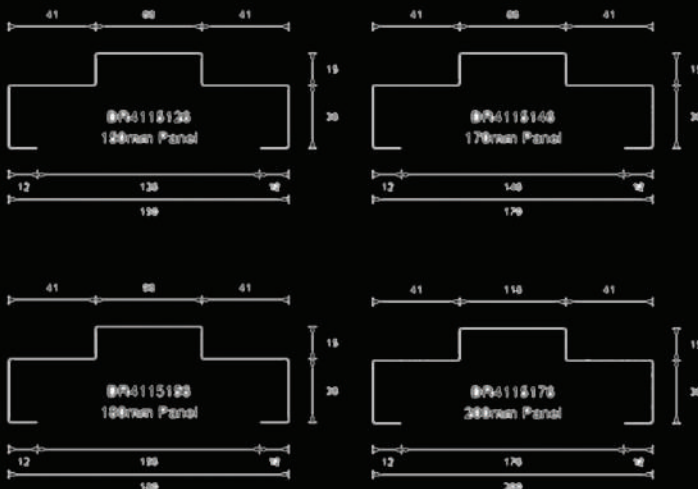
All non rated metal frames are manufactured to Australian Standards. These frames are suitable for all concrete panel thicknesses. Frames are used for precast and tilt up panel applications

Features

- Rebates to suit 35mm solid core doors.
- Panel sizes available, 150mm, 170mm, 180mm and 200mm
- 1.1mm Zinc Anneal
- Welded, dressed and primed
- 2 off back plates for screw fixed hinges
- 1 off standard universal striker which suits most locks

Optional Features

- Increased material gauge
- Galvanised steel
- Spot welded assembly
- Additional hinges
- Rebates to suit 40mm and 45mm doors



Selecting the right frame

Fire Rated Frames – Block

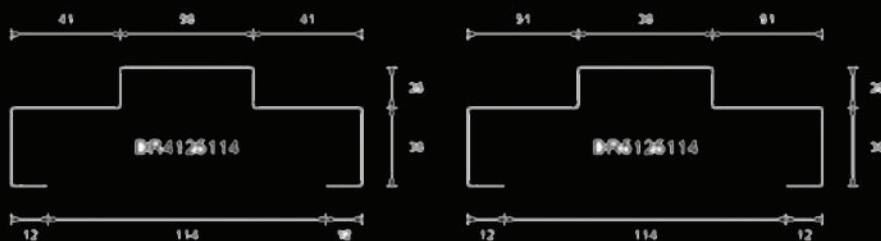
All fire rated metal frames are manufactured to AS1905.1. These frames are suitable for standard brick and block sizes. Frames are installed with wire ties, supplied with the frame.

To suit 35mm fire doors

- Throat sizes available, 93mm, 114mm, 145mm and 193mm
- 1.1mm Zinc Anneal
- Increased metal thickness optional
- Galvanised steel and stainless steel optional
- Welded, dressed and primed
- 2 off 100 x 75 x 2.5mm zinc plated loose pin hinges welded to the frame.
- Additional hinges optional
- Back plates optional
- 1 off standard universal striker which suits most locks

To suit 45mm fire doors

- Throat sizes available, 93mm, 114mm, 145mm and 193mm
- 1.4mm Zinc Anneal
- Increased metal thickness optional
- Galvanised steel and stainless steel optional
- Welded, dressed and primed
- 2 off 100 x 100 x 2.5mm zinc plated loose pin hinges welded to the frame.
- Additional hinges optional
- Back plates optional
- 1 off standard universal striker which suits most locks



Selecting the right frame

Fire Rated Frames – Stud

All fire rated metal frames are manufactured to AS1905.1. These frames are suitable for standard brick and block sizes. Frames are installed with “dogleg” returns

To suit 35mm fire doors

Throat sizes available

64mm + 2 layers each side of 16mm fire rated plasterboard

92mm + 2 layers each side of 16mm fire rated plasterboard

1.1mm Zinc Anneal

Increased metal thickness optional

Galvanised steel and stainless steel optional

Welded, dressed and primed

2 off 100 x 75 x 2.5mm zinc plated loose pin hinges welded to the frame.

Additional hinges optional

Back plates optional

1 off standard universal striker which suits most locks

To suit 45mm fire doors

Throat sizes available

64mm + 2 layers each side of 16mm fire rated plasterboard

92mm + 2 layers each side of 16mm fire rated plasterboard

1.4mm Zinc Anneal

Increased metal thickness optional

Galvanised steel and stainless steel optional

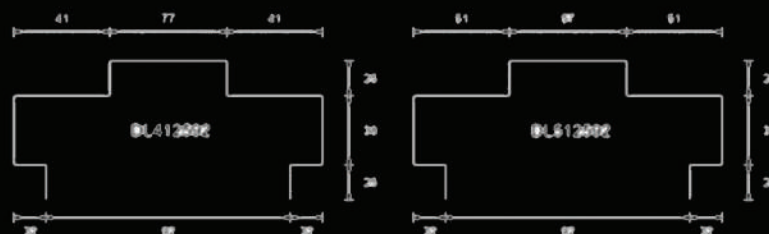
Welded, dressed and primed

2 off 100 x 100 x 2.5mm zinc plated loose pin hinges welded to the frame.

Additional hinges optional

Back plates optional

1 off standard universal striker which suits most locks



Selecting the right frame

Fire Rated Frames - Concrete

All fire rated metal frames are manufactured to AS1905.1. These frames are suitable for all concrete panel thicknesses. Frames are used for precast and tilt up applications.

To suit 35mm fire doors

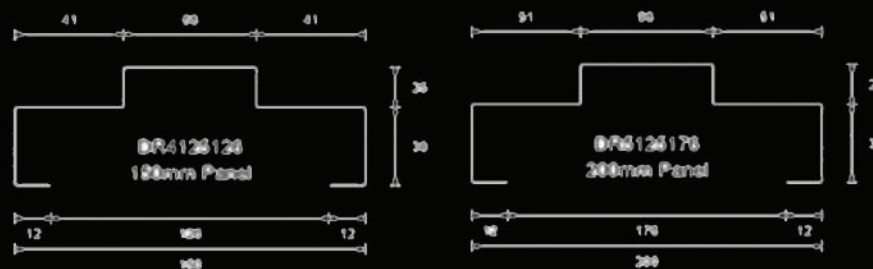
Panel sizes available, 150mm, 170mm, 180mm, and 200mm.

- 1.1mm Zinc Anneal
- Increased metal thickness optional
- Galvanised steel
- Welded, dressed and primed
- 2 off back plates for screw fixed hinges
- Additional hinges optional
- 1 off standard universal striker which suits most locks

To suit 45mm fire doors

Throat sizes available

- 64mm + 2 layers each side of 16mm fire rated plasterboard
- 92mm + 2 layers each side of 16mm fire rated plasterboard
- 1.4mm Zinc Anneal
- Increased metal thickness optional
- Galvanised steel and stainless steel optional
- Welded, dressed and primed
- 2 off back plates for screw fixed hinges
- Additional hinges optional
- 1 off standard universal striker which suits most locks



Hardware services

Hardware services

Radiant offers many hardware products and services for both non-rated and fire-rated applications. Some of the products and services that we provide include:

Architectural hardware scheduling, this involves developing a door by door hardware schedule from documents that have been supplied at the time of tender or the beginning of the project

Supply of a comprehensive range of architectural hardware products and solutions, this includes; cylindrical locks, mortice locks, an extensive range of levers, pull handles / entrance handles, door closers, hinges and many other door hardware items.

Scheduling and supply of final keyed systems both restricted and non-restricted systems.



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Payment Terms

30 Day account to Approved Customers

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Personal Cheque
Credit Card

