



Mattson Joinery - Mattador™ -/30/30 & -/60/60 Fire Door System – NZ Version

Understanding fire resistance ratings:

Fire protection is an important aspect of building design. Fire barriers prevent fire spread within the building, minimising the risk to life safety. Minimising the fire spread is usually addressed by providing fire rated systems that have been tested to, and meet specific standards called up by the relevant building code.

In New Zealand and Australia fire - resistant systems are required to be tested in accordance with AS1530.4: *Methods for fire tests on building materials, components and structures – Fire – resistance test of elements of construction*. They achieve a fire resistance rating (or level) based on the test result. The rating is stated in minutes in the form of **60/60/60 FRR**.

The **first** number relates to the structural '**stability**' of the tested building element (called structural adequacy in AS1530.4 and stability in the New Zealand Building Code compliance document for fire safety). This is for load bearing elements like load bearing walls, floors, columns and beams.

The **second** number relates to the '**integrity**' of the tested element, and its ability to provide fire separation and prevent flames and hot gases passing through the element.

The **third** number relates to the ability of the tested element to maintain the temperature on the non fire side of the separating to below specific criteria, and is known as '**insulation**.'

The fire resistance ratings may be a mix of numbers. Where specific criteria are not relevant a '-' will be shown. For example, a structural element which is only required to support the building but not provide any fire separation could have a fire resistance rating of 60/-/. A fire door which is not required to support any load but is required to provide separation and achieve at least 30 minutes insulation could have a rating of -/30/30

Mattador™ Overview

This overview sets out the Fire Resistance Tests and Fire Assessments / Approvals of B Mattson Ltd – Mattson Joinery **Mattador™** fire tests conducted at BRANZ Building Research Association New Zealand.

Mattador™ fire doors have been tested to AS/NZS 1905.1; 1997 / NZS4520:2010 Standards ; Fire Resistant Door-sets. Tests were conducted to AS 1530.4-1997 Methods for fire tests on building materials, components and structures. BRANZ have subsequently extended the Mattson Joinery fire door approvals and have issued the following documents.

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|-----------|---------------------------------------|
| • FAR3096 | Issued 12 th December 2007 |
| • FAR3116 | Issued 22 nd January 2008 |

FAR3096, & FAR 3116 extends the Fire Resistance of B Mattson Ltd Door-sets to the following International Fire Resistance Test Standards;

- AS 1530.4 : 2005
- BS 476 : Part 22 : 1987
- SS 332 :2000
- MS 1073 : Part 3 : 1996
- ISO 3008 : 2007
- EN 1634 – 1 : 2000

Mattador™ Firedoors that are currently manufactured by Mattson Joinery in New Zealand.

Mattador™ Fire Door leaves are made from Triboard™, a **FSC Certified** reconstituted engineered wood product manufactured from renewable plantation softwoods grown in New Zealand;

55mm Triboard™ (-/60/60) (60 minute) - clashed both vertical edges with 6mm hardwood timber.
45mm Triboard™ (-/30/30) (30 minute) - clashed both vertical edges with softwood timber,
45mm Triboard™ is also used to manufacture (-/45/45) (45 minute) to a maximum leaf size of 1980mm x 810mm. Larger leaf sizes can be offered using 55mm Triboard™

Mattador™ clashless door leaves, (edge filled and primed) are available upon request.

Mattador™ Fire Door systems are prehung into approved timber frames and machined for either an architrave finish or grooved for plaster-board. **Mattador™** Fire Door leaves up to (-/60/60 minute) are also available prehung in approved steel frames.

A copy of the Mattson Joinery Mattador™ Architectural Specification is available upon request..

Door Specifications

The following sets out the limitations of the **Mattador™** approved Fire Door system.

-/30/30 (30 Minute) Doors

Singles - Maximum leaf height 2.700mm, Maximum area 2.67m².

Pairs - Maximum leaf height 2.500mm, Maximum area 2.54m² per leaf.

Double Action, Singles / Pairs - Maximum leaf height 2.700mm, Maximum area 2.68m² per leaf.

-/30/- (30 Minute) Vision Panels

Georgian Wire – Maximum clear opening height 850mm, Maximum area 0.44m².

Pyran S™ / Firelite™ / Robax™ Maximum clear opening height 1.060mm, Maximum area 0.55m²

-/30/30 (30 Minute) Vision Panels

(Pyrobel™, Pyroguard™ & Pyranova™ are insulated glass). Pyrobel™, Pyroguard™ and Pyranova™ is available with UV (Ultra Violet) protection, **if exposed to the sunlight**.

Pyrobel™ / Pyroguard™ / Pyranova™ Maximum clear opening height 1.060mm, Maximum area 0.55m²..

-/30/30 (30 Minute) Side and Over Panels.

Side Panels and Over Panels to the same size as for door leaves listed above.

-/30/30 (30 Minute) Grille

Grille -- to 350mm x 350mm intumescent with press plate cover.

Pyranova™ -/30/30 (30 Minute) Insulated Timber Framed Fire Windows, Side Lights and Over Lights.

Maximum clear opening size 3610mm H x 2330mm W or 2900mm H x 2900mm W. Maximum area 8.41m².

Pyrobel™ -/30/30 (30 Minute) Insulated Timber Framed Fire Windows, Side Lights and Over Lights.

Maximum clear opening size 2900mm H x 1600mm W or 1900mm H x 1920mm W. Maximum area 4.64m².

Pyranova™ DGUs (Double glazed Units) Insulated -/30/30 Timber Fire Windows, Side Lights and Over Lights

Maximum clear opening size 3150mm H x 1510mm W or 2182mm H x 2182mm W. Maximum area 4.76m².

-/30/- (30 Minute) Timber Framed Fire Windows For Periods of 30 Minutes Integrity.

Georgian Wire -- Maximum clear opening height 1.035 mm. Maximum area 0.56m². (Multiple units allowed with common mullion or transom).

Pyran S™ -- Maximum clear opening size 3150mm H x 1510mm W or 2520mm H x 2520mm W. Maximum area 6.35m².

Pyran S™ DGUs (Double glazed Units) -/30/- Timber Framed Fire Windows For Periods of 30 Minutes Integrity, Side Lights and Over Lights.

Maximum clear opening size 2262mm H x 1260mm W or 1688mm H x 1688mm W. Maximum area 2.85m².

Pyran S™ -/30/- Timber Framed Fire Door Leaves For Periods of 30 Minutes Integrity.

Maximum clear Glazed size 1940mm H x 722mm W or 1750mm H x 700mm W. Maximum area 1.40m²

-/60/60 (60 Minute) Doors

Singles - Maximum leaf height 2.700mm, Maximum area 2.67m².

Pairs - Maximum leaf height 2.500mm, Maximum area 2.67m² per leaf.

-/60/60 (60 Minute) Vision Panels

Georgian Wire / Firelite™ / Robax™ – Maximum clear opening height 850mm, Maximum area 0.065m²

Pyrobel™ / Pyranova™ / Maximum clear opening height 962mm, Maximum area 0.50m² .

(Pyrobel™, Pyroguard™ & Pyranova™ are laminated insulated glass) Pyrobel™ , Pyroguard™ and Pyranova™ is available with UV (Ultra Violet) protection, **if exposed to the sunlight**.

-/60/60 (60 Minute) Side and Over Panels.

Side Panels and Over Panels to the same size as for door leaves listed above

Pyranova™ -/60/60 (60 Minute) Insulated Timber Framed Fire Windows, Side Lights and Over Lights.

Maximum clear opening size 3067mm H x 1500mm W or 2145mm H x 2145mm W. Maximum area 4.60m².

Pyrobel™ -/60/60 (60 Minute) Insulated Timber Framed Fire Windows, Side Lights and Over Lights.

Maximum clear opening size 2874mm H x 1658mm W or 2000mm H x 2283mm W. Maximum area 4.76m².

-/60/- (60 Minute) non insulated Timber Framed Fire Windows, Side Lights and Over Lights.

Pyran S™ -- Maximum clear opening size 3150mm H x 1510mm W or 2520mm H x 2520mm W. Maximum area 6.35m²

Pyran S™ DGUs (Double glazed Units) -/60/- Timber Framed Fire Windows For Periods of 60 Minutes Integrity, Side Lights and Over Lights.

Maximum clear opening size 2020mm H x 1010mm W or 1428mm H x 1428mm W. Maximum area 2.04m².

Summary

When installed correctly Mattador Fire doors comply with NZ Building Code C3. These products could be subject to a warning or ban under section 26 of the Building Act 2004

Mattador™ fire door approvals allow a maximum 2.5 mm gap between the door leaf and the door frame / jamb (Sides and Head). A 10mm maximum gap between the underside of the door leaf and the top of the finished flooring is permitted.

Refer to the **Mattador™** Approved **Fire Rated Hardware List** (FRHL) for a selection of approved closers, latches and misc hardware. The installation of non approved hardware will void the rating of the door system. Mattson Joinery will not be responsible for non compliant door systems.

Fire tags are issued for each specific **Mattador™** door set on receipt of the signed and completed Hardware **Declaration List** (HDL) All Mattson Joinery Fire Door Systems require the appropriate tags to be affixed to the door leaf and door frame.

No modifications / alterations are to be made to the **Mattador™** door system after installation of the tags. (Eg; penetrations for pet doors etc)

Mattador™ fire doors are available in paint quality (PQ) or timber veneer (TV) surface finish or galvanized steel surface finishes. Sheltered exterior or Porch Grade exterior (PGE) grade doors are also available. CNC surface Vee Grooving (VG) options also available upon request.

Sheltered exterior or Porch Grade exterior doors **MUST** be protected from the direct elements and should be coated (both faces) in light reflective colours. Dark colours are **NOT** recommended. Failure to comply with these requirements will **VOID** the manufacturer's warranty.

Doors must be kept dry and primed as soon as possible. Doors should be stacked vertically on even ground using same size bearers.

The above information is current at time of printing. Mattson Joinery reserves the right to update this information as required.



B Mattson Ltd – August 2019

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