

# Storage, Installation and Finishing of P-Core Exterior Doors



**NZ FIRE DOORS**

89 GAVIN ST, PENROSE  
PO BOX 12709, AUCKLAND 5  
PH 09 5798895 FAX 09 5792933

## INTRODUCING P-Core

P-Core has been designed using the latest technology to produce a tri-layered solid timber core in order to provide an extremely robust and stable base onto which quality exterior grade plywood faces are applied.

P-Core door blanks have been tested and approved for use in the manufacture of interior and exterior fire doors.



## FSC CERTIFICATION

P-Core door blanks are FSC COC Certified.

The mark of responsible forestry

## STRUCTURAL OPENINGS

The following types of structural opening are approved for P-Core doors:

Cast dense concrete

Masonry

Lightweight aerated concrete

Steel stud partition

Dense concrete blocks or brickwork

Lightweight concrete

Timber stud partition

## P-Core FINISHES

P-Core door blanks are manufactured with a plywood finish which is constructed using WBP grade adhesive and is therefore suitable for external applications.

**P-core Doors are supplied with a factory applied pre-primer / sealer. Two faces are factory sealed for interior doors; all six sides are factory sealed for exterior doors. At least one of the finishing coats should be applied to exterior doors and frames as soon after delivery or installation as possible, taking particular care to coat the bottom of the door. If any deterioration of the factory applied primer or base coat is detected it should be re-coated before further finishing coats are applied.**

## Pre-Installation Handling & Storage

If storing finished doors, doorsets and door kits, they should be protected from rain and sun, preferably in a ventilated building.

Fire doors for internal installation should also be protected from exposure to excessive moisture and splashing by corrosive or staining materials.

Store horizontally on 3 or more equally spaced bearers, away from floor or ground.

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## **Protect glazed doors**

Use spacers between stored doors to prevent glazing beads from damage.

## **Unlaquered doors**

Should have a coat of seal applied as soon as possible.

## **Laminate faced doors**

Refer to manufacturer's guide on care and maintenance.

## **Protect facings**

Door assembly timber components that are to receive a clear finish, or veneered surfaces, should not be exposed to strong lights, daylight or uneven light during storage as this can cause differential fading.

## **Cleaning veneered doors**

Clean veneered doors and panels by wiping with a damp cloth. Do not use abrasive or chemical cleaners. If necessary, use a mild detergent solution.

## **P-Core DOOR SITE FIXING INSTRUCTIONS**

Refer to NZFD's Approved Hardware document for compatible fire rated door hardware.

### **Exterior Applications**

When installing in an exterior location the door frame should be set back from the outer face of the wall, be protected by a canopy or the head of the frame should be provided with a projecting head drip. Particular attention should be given to the protection provided for an outward opening external door.

The installation of a weather bar at the threshold is considered good practice for exterior doors.

Mortise locks - Ensure the mortise is accurately machined and a snug fit for the lock is maintained. The mortise should be properly sealed before fitting the lock.

If cutting or drilling is required on an exterior door or frame you must coat the newly exposed timber with a suitable preservative and re-coat with primer or stain.

If installing letter plates, these should be of the sleeved type to ensure against water ingress into the door core. In fire doors letter plates must be of an approved fire resisting design.

### **Finishing:**

At least one of the finishing coats should be applied to exterior doors and frames as soon after delivery or installation as possible. If any deterioration of the factory applied primer or base coat is detected it should be re-coated before further finishing coats are applied. Finishing of exterior doors and frames should be carried out in dry weather using good exterior quality materials in accordance with the manufacturer's instructions.

The finish for exterior doors should be exterior quality paint or 'high build' stain. 'Low build' stains are not suitable for external applications. Please note that if dark coloured paint or stain finishes are used on exterior doors this may result in high surface temperatures on the door and can increase the risk of distortion if the door is located on a north or north-west elevation of the building. Resene "Cool Colour" paints should be considered in such situations. The full finishing system must be applied to external doors and all doors that will be subjected to moisture take up. The bottom edge must be coated before installation.

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***NZ Fire Doors may refuse responsibility for any defect or failure that may consequently occur which is attributed to non-compliance either wholly or in part with the advice given in this information sheet.***

## **MECHANICAL AND DURABILITY**

P-Core was tested to PAS 24 and BS 6375: Part 1 with the results as shown below.

<b>Summary of Test Procedure</b>			<b>Result</b>
<b>Air permeability</b>	BS EN 1026:2000	BS EN 12207:2000	600Pa (class4)
Water tightness	BS EN 1027:2000	BS EN 12208:2000	50Pa (class 2A)
Wind resistance	BS EN 12211:2000	BS EN 12210:2000	1200Pa (class A5)
Exposure category		BS 6375: Part 1:2009	1200
PAS 24: 2012 – Clauses A.3, B.4.3, B.4.4.2, B.4.4.4, B.4.5, B.4.6, B.4.7, B.4.8 and B.4.9			Pass