





Model: FRD

R25577

Door Leaf : 45 mm.thk. Insulation : Rockwool



Model: FRX

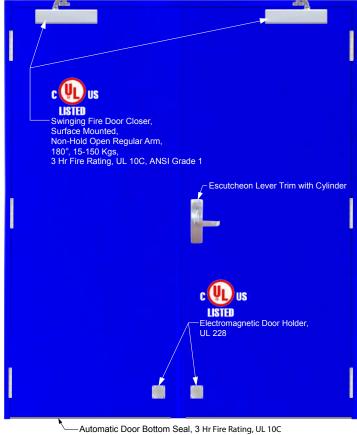
Door Leaf : 50 mm.thk. Insulation : Ceramic Fiber



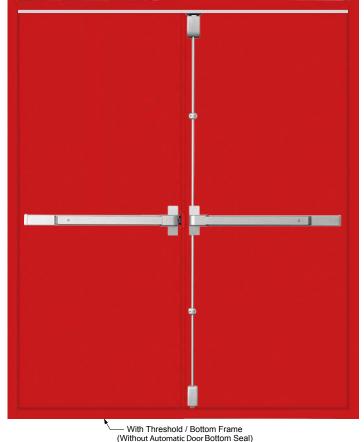








(Without Threshold / Bottom Frame)



# Styles and Colors (FRD & FRX)



















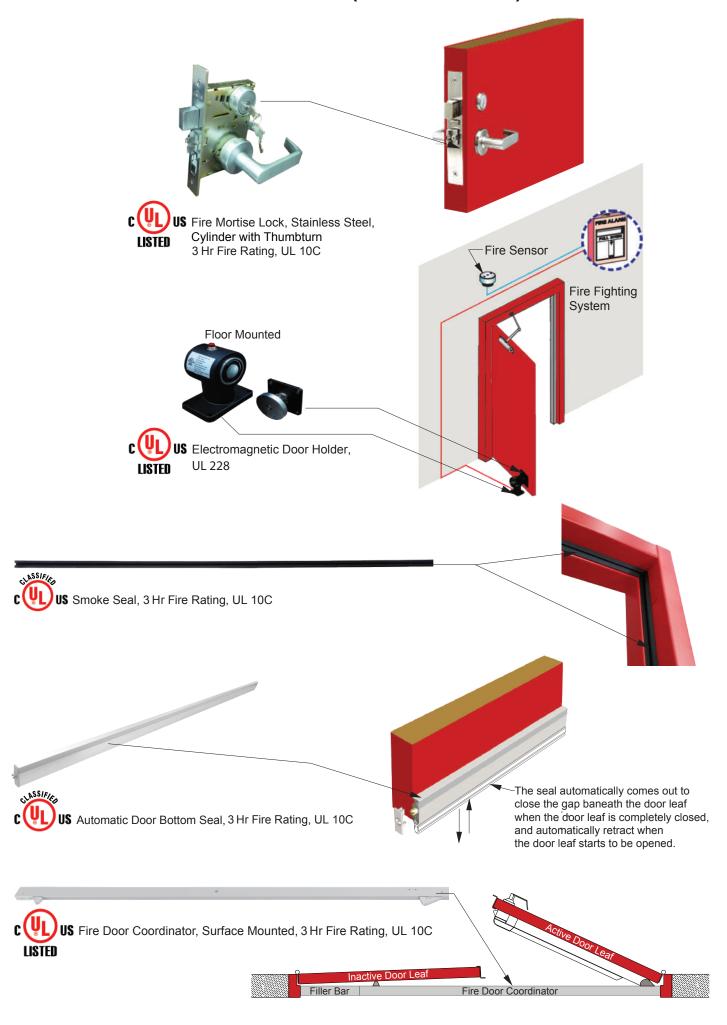
# **Door Hardware (for FRD & FRX)** Fire Exit Device, Rim Type, 3 Hr Fire Rating, UL 10C Fire Rated Mortise Exit Device, 3Hr Fire Rating, UL 10C LISTED Concealed Vertical Rod Vertical Rod US BB Hinge, SS304 Escutcheon Lever Trim with Cylinder 3 Hr Fire Rating, UL 10C LISTED Fire Exit Device, Vertical Rod Type, 3 Hr Fire Rating, UL 10C LISTED Fire Rated Concealed Vertical Rod Exit Device, 3Hr Fire Rating, UL 10C LISTED Vertical Rod

Swinging Fire Door Close Surface Mounted, Non-Hold Open Regular 180°, 15-150 Kgs,

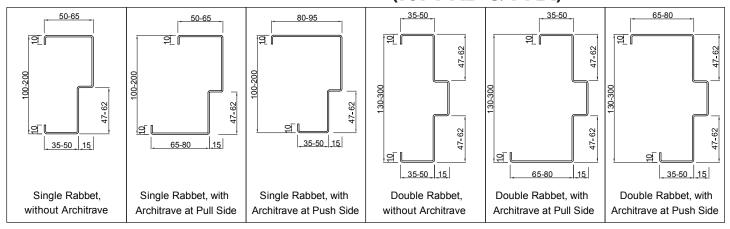
3 Hr Fire Rating, UL 10C, ANSI Grade 1

Concealed Vertical Rod

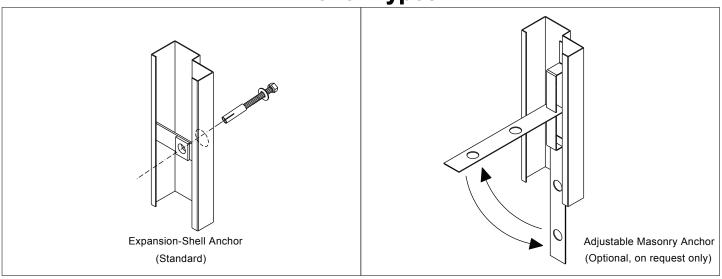
# **Door Hardware (for FRD & FRX)**



### **Door Frame Profiles (for FRD & FRX)**



## **Anchor Types**



# **How to Order XXX-X XX X-XX-XX**



FRD = Fire Steel Door, 3 Hr Fire Rating, ANSI/UL 10C & CAN ULC-S104

FRX = Fire Steel Door (Extra type), 3 Hr Fire Rating, ANSI/UL 10C & CAN ULC-S104

#### Door Type :-

**S** = Single Door

**D** = Double Door

#### Door Style :-

**00** = Flush

FG = Flush with Fire Rated Glass & Frames, 3 Hr Fire Rating, UL 10C

**EB** = Embossed

#### Finish:-

P = Powder

W = Wood Grain

#### Size: -

**Width x Height** = Outer Width of door frame x Outer Height of door frame (Height from finished floor level to top of the door frame)

# Opening Direction (Top View): Single Door CW Double Door CW Inactive Door Leaf Active Door Leaf

CW = Door Leaf (Active Door Leaf in case of Double Door) is opened to ClockWise direction

CCW = Door Leaf (Active Door Leaf in case of Double Door) is opened to CounterClockWise direction

**Example : FRD-DFGP-1500x2100-CCW** = Fire Steel Door, 3 Hr Fire Rating, ANSI/UL 10C & CAN ULC-S104, Double Door, Flush Style with Fire Rated Glass & Frames, 3 Hr Fire Rating, UL 10C, Powder Finish, Outer Width 1500 mm x Outer Height 2100 mm, Active Door Leaf is opened to CounterClockWise direction.

#### Certificates Model: FRD

#### CERTIFICATE OF COMPLIANCE

20150210-R25577 Certificate Number R25577-20150129 2015-FEBRUARY-10 Report Reference Issue Date

> PCJ INDUSTRIES CO LTD Issued to:

> > 199/24-25 VIBHAVADEERANGSIT RD

PAYATHAI 10400 THAILAND

This is to certify that SWINGING TYPE FIRE DOORS, POSITIVE PRESSURE representative samples of

TESTED; SWINGING TYPE FIRE DOORS

Model FRD, swinging-type fire door assembly of the hollow metal type with Max 100 sq in. glazing material, 3 Hr rating.

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

ANSI/UL 10B - Fire Tests of Door Assemblies Standard(s) for Safety:

ANSI/UL 10C - Positive Pressure Fire Tests Of Door

CAN/ULC-S104 - Standard Method for Fire Tests of Door Assemblies

> See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product

Additional Information:

Barreles

#### Certificates Model: FRX

#### CERTIFICATE OF COMPLIANCE

20190418-R25577 Certificate Number Report Reference R25577-20190412 2019-April-18 Issue Date

PCJ INDUSTRIES CO LTD

199/24-25 VIBHAVADEERANGSIT RD SAMSENNAI PAYATHAI 10400 THAILAND

This certificate confirms that representative samples of

SWINGING TYPE FIRE DOORS, POSITIVE PRESSURE **TESTED** 

FRX, swinging-type fire door assembly of the hollow metal typewith Max. 100 sq in. glazing material, intended to provide protection for openings in Max. 3 hour locations.

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

ANSI/UL 10C, Positive Pressure Fire Tests of Door Standard(s) for Safety:

ANSI/UL 10B Fire Tests of Door Assemblies

CAN/ULC-S104, Standard Method for Fire Tests of Door

See the UL Online Certifications Directory at

 $\underline{\text{https://iq.ulprospector.com}} \ \ \text{for additional information}.$ 

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product

Additional Information

Bamelle



#### CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference R25758-20150129 2015-JANUARY-29 Issue Date

> PCJ INDUSTRIES CO LTD Issued to:

199/24-25 VIBHAVADEERANGSIT RD

SAMSENNAL

PAYATHAI 10400 THAILAND

FIRE DOOR AND WINDOW FRAMES This is to certify that

The single-unit type, pressed-steel frames for masonry

walls at least 2 inches (50.8 mm) thickness.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

ANSI/UL 10B - Fire Tests of Door Assemblies Standard(s) for Safety: ANSI/UL10C - Positive Pressure Fire Tests Of Door

CAN/ULC-S104 - Standard Method for Fire Tests of Door

Assemblies

Additional Information: See the UL Online Certifications Directory at

www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.



Figure 1. The airborne sound transmission-loss (TL) and the STC rating of the test sample. Transmission Loss (TL) and STC rating Fire Steel Door model FRX Measured Data Reference Contour Submitted by PCJ INDUSTRIES CO., LTD STC = 31 50 0 0 0 0 (dB) 0 0 0 20 10 125 160 200 250 315 400 500 630 800 1k 1,25k 1,6k 2k 2,5k 3,15k 4k One-third octave band center frequency (Hz) TL measurement report of FRX fire steel door set.













We, PCJ INDUSTRIES CO.,LTD., was established in 1998, specialize in production of Fire Steel Doors, Combination Fire and Smoke Dampers, Fire Dampers, Duct Silencers, Acoustic Louvers, and Air Outlets.

Most of our products have been certified by several orgainzations for standardization, i.e.: Underwriters Laboratories, British Standards Institution, Standards Australia, Air Diffusion Council, Thai Industrial Standards Institute. Moreover, our company has been certified by International Organization for Standardization, ISO 9001: 2008 as well.

















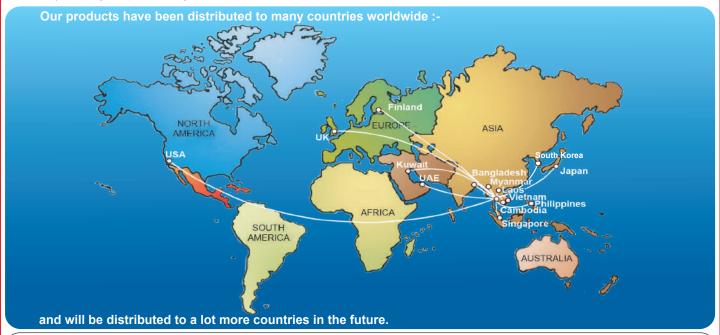






We have our own factory established on our own land, area 40,000 sq.m.(approx.), in Kaengkhoi, Saraburi, Thailand.

Our Policy has always been, and will continue to be, the production and On Time-Every Time Schedule Delivery of Quality, Reliability and Competitively Priced Products. We have invested in instruments, machines, and we have experienced engineer teams take full time to research and develop our product lines continuously, including new product designs to meet worldwide market demands.







Fax: +66 2 2780451, +66 2 6160071 Email: sales@pcjindustries.co.th Website: www.pcjindustries.co.th