PCJ®

Classic Steel®

# Fire Steel Doors

**3 Hr Fire Rating**

**ANSI/UL 10C & CAN/ULC-S104**

CLASSIFIED C UL US R25577

C UL US LISTED R25758

**Model : FRD**
**Door Leaf : 45 mm.thk.**
**Insulation : Rockwool**

**Model : FRX**
**Door Leaf : 50 mm.thk.**
**Insulation : Ceramic Fiber**

**Rockwool**
40 mm.thk.

**Ceramic Fiber**
50 mm.thk.
Better thermal insulation and soundproof than Rockwool

ANAB ACCREDITED BSI

ISO 9001:2008 Certified
Certificate No. FM 509124

# Door Components (FRD & FRX)

Automatic Door Bottom Seal, 3 Hr Fire Rating, UL 10C
(Without Threshold / Bottom Frame)

With Threshold / Bottom Frame
(Without Automatic Door Bottom Seal)

# 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

Escutcheon Lever Trim with Cylinder

BB Hinge, SS304
3 Hr Fire Rating, UL 10C

Fire Exit Device, Vertical Rod Type, 3 Hr Fire Rating, UL 10C

Fire Rated Concealed Vertical Rod Exit Device, 3Hr Fire Rating, UL 10C

Swinging Fire Door Close
Surface Mounted,
Non-Hold Open Regular
180°, 15-150 Kgs,
3 Hr Fire Rating, UL 10C, ANSI Grade 1

# Door Hardware (for FRD & FRX)

C UL US LISTED Fire Mortise Lock, Stainless Steel, Cylinder with Thumbturn
3 Hr Fire Rating, UL 10C

Floor Mounted

C UL US LISTED Electromagnetic Door Holder, UL 228

CLASSIFIED C UL US Smoke Seal, 3 Hr Fire Rating, UL 10C

CLASSIFIED C UL US Automatic Door Bottom Seal, 3 Hr Fire Rating, UL 10C

The seal automatically comes out to close the gap baneath the door leaf when the door leaf is completely closed, and automatically retract when the door leaf starts to be opened.

C UL US LISTED Fire Door Coordinator, Surface Mounted, 3 Hr Fire Rating, UL 10C

# Door Frame Profiles (for FRD & FRX)

| Single Rabbet, without Architrave | Single Rabbet, with Architrave at Pull Side | Single Rabbet, with Architrave at Push Side | Double Rabbet, without Architrave | Double Rabbet, with Architrave at Pull Side | Double Rabbet, with Architrave at Push Side |
|---|---|---|---|---|---|

# Anchor Types

Expansion-Shell Anchor
(Standard)

Adjustable Masonry Anchor
(Optional, on request only)

# How to Order

**XXX-X XX X-XX-XX**

**Door Model :-**

**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) :-**

**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

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

**Issued to:** PCJ INDUSTRIES CO LTD
199/24-25 VIBHAVADEERANGSIT RD
SAMSENNAI
PAYATHAI 10400 THAILAND

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

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

Bruce Mahrenholz, Assistant Chief Engineer, Global Inspection and Field Services
UL LLC

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# Certificates Model : FRX

## CERTIFICATE OF COMPLIANCE

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

**Issued to:** 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.

**Standard(s) for Safety:** ANSI/UL 10C, Positive Pressure Fire Tests of Door Assemblies
ANSI/UL 10B, Fire Tests of Door Assemblies
CAN/ULC-S104, Standard Method for Fire Tests of Door Assemblies

**Additional Information:** See the UL Online Certifications Directory at https://iq.ulprospector.com 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.

Bruce Mahrenholz, Director North American Certification Program
UL LLC

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## CERTIFICATE OF COMPLIANCE

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

**Issued to:** PCJ INDUSTRIES CO LTD
199/24-25 VIBHAVADEERANGSIT RD
SAMSENNAI
PAYATHAI 10400 THAILAND

**This is to certify that representative samples of** FIRE DOOR AND WINDOW FRAMES

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.

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

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### Fire Door and Fire Window Frames

See General Information for Fire Door and Fire Window Frames

**PCJ INDUSTRIES CO LTD** R25758
199/24-25 VIBHAVADEERANGSIT RD
SAMSENNAI
PAYATHAI, BANGKOK 10400 THAILAND

**Door Frames for use as a component in fire door assemblies that meet the requirements of UL 10C, (positive pressure):**

Three-sided or four-sided steel frame with transoms (welded, single swing; knockdown, pairs). These frames are also suitable for use in smoke door applications when used with Classified Swinging Type Fire Doors, Positive Pressure Tested (GSZN) bearing the "S" mark on the Classification Marking and Category H Smoke and Draft Control Gasketing. See Gasketing Materials for Fire Doors, Positive Pressure Tested (GVYI) for listings of Category H smoke and draft control gaskets.

Three-sided or four-sided steel frames without transom bars (single swing, pairs).

Steel frames with lights. Requires Glazing Materials Classified as components in fire door assemblies complying with UL 10C. See Glazing Materials (KCMZ) for a list of glazing materials. These frames are also suitable for use in smoke door applications when used with Classified Swinging Type Fire Doors, Positive Pressure Tested (GSZN) bearing the "S" mark on the Classification Marking and Category H Smoke and Draft Control Gasketing. See Gasketing Materials for Fire Doors, Positive Pressure Tested (GVYI) for listings of Category H smoke and draft control gaskets. These frames are also suitable for use in smoke door applications when used with Classified Swinging Type Fire Doors, Positive Pressure Tested (GSZN) bearing the "S" mark on the Classification Marking and Category H Smoke and Draft Control Gasketing. See Gasketing Materials for Fire Doors, Positive Pressure Tested (GVYI) for listings of Category H smoke and draft control gaskets.

**Door Frames for use as a component in fire door assemblies that meet the requirements of UL10B (neutral pressure):**

Three or four-sided sided frames with transom bars (single swing, welded; knockdown, pairs).

Three-sided or four-sided steel frames without transom bars (single swing, pairs).

Frames with lights. Requires Glazing Materials Classified as components in fire door assemblies complying with UL 10B and/or UL 10C. See Glazing Materials (KCMZ) for a list of glazing materials.

Transom panel frames with transom bars. For use with Listed transom panels.

Trademark and/or Tradename: PCJ®, Classic Steel®

Last Updated on 2015-02-12

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We, **PCJ INDUSTRIES CO.,LTD.**, was established in 1998, specialize in production of Fire Steel Doors, Combination Fire and Smoke Dampers, Fire Damper, Non-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.

CLASSIFIED c UL us R25577 | c UL us LISTED R25758 | c UL us LISTED R25758 | CLASSIFIED c UL us R26041 | CLASSIFIED c UL us R????? | BSI British Standards BS 476 : Part 20 : 1987 BS 476 : Part 22 : 1987 | AS Australian Standards AS 1277 | AS Australian Standards AS 1217.2-1985 | ADC 1062 : GRD-84 | Thai Industrial Standards TIS 1288-2538 TIS 1220-2541 | ANAB BSI ISO 9001:2008 Certified Certificate No. FM 509124

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.

**Our products have been distributed to many countries worldwide :-**

**and will be distributed to a lot more countries in the future.**


พีซีเจ อุตสาหกรรม บจก.
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