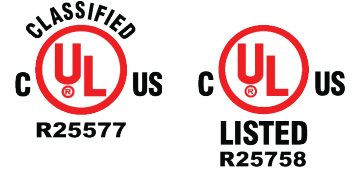


Fire Steel Doors

3 Hr Fire Rating
ANSI/UL 10C & CAN/ULC-S104



Model : FRD
Door Leaf : 45 mm.thk.
Insulation : Ceramic Fiber

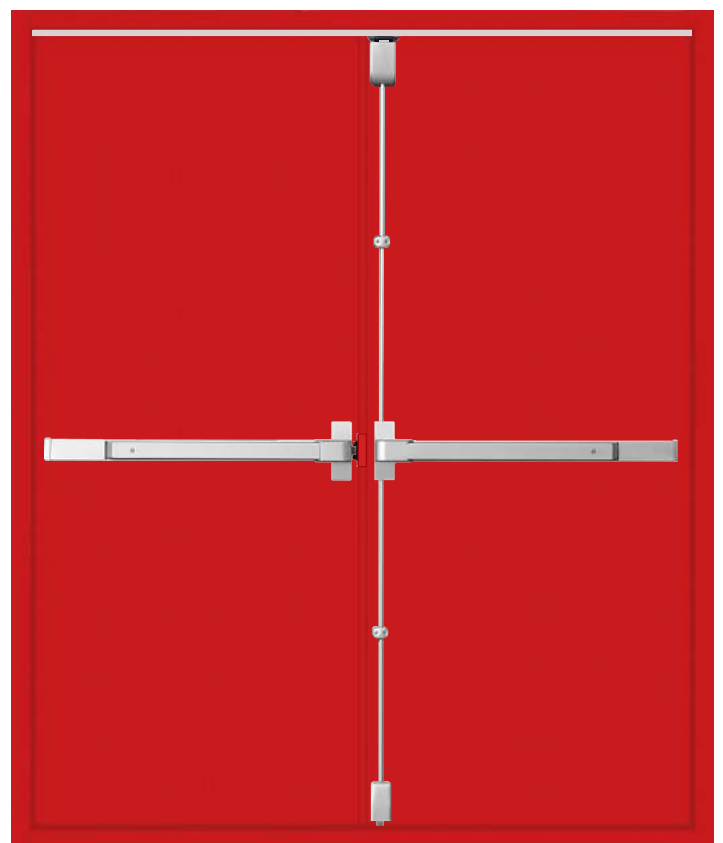
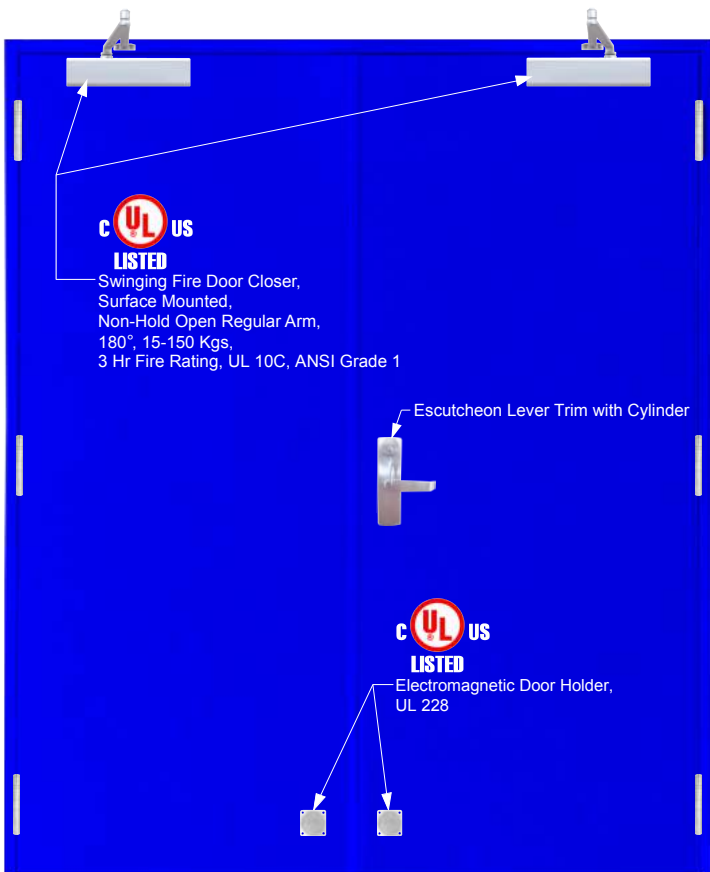
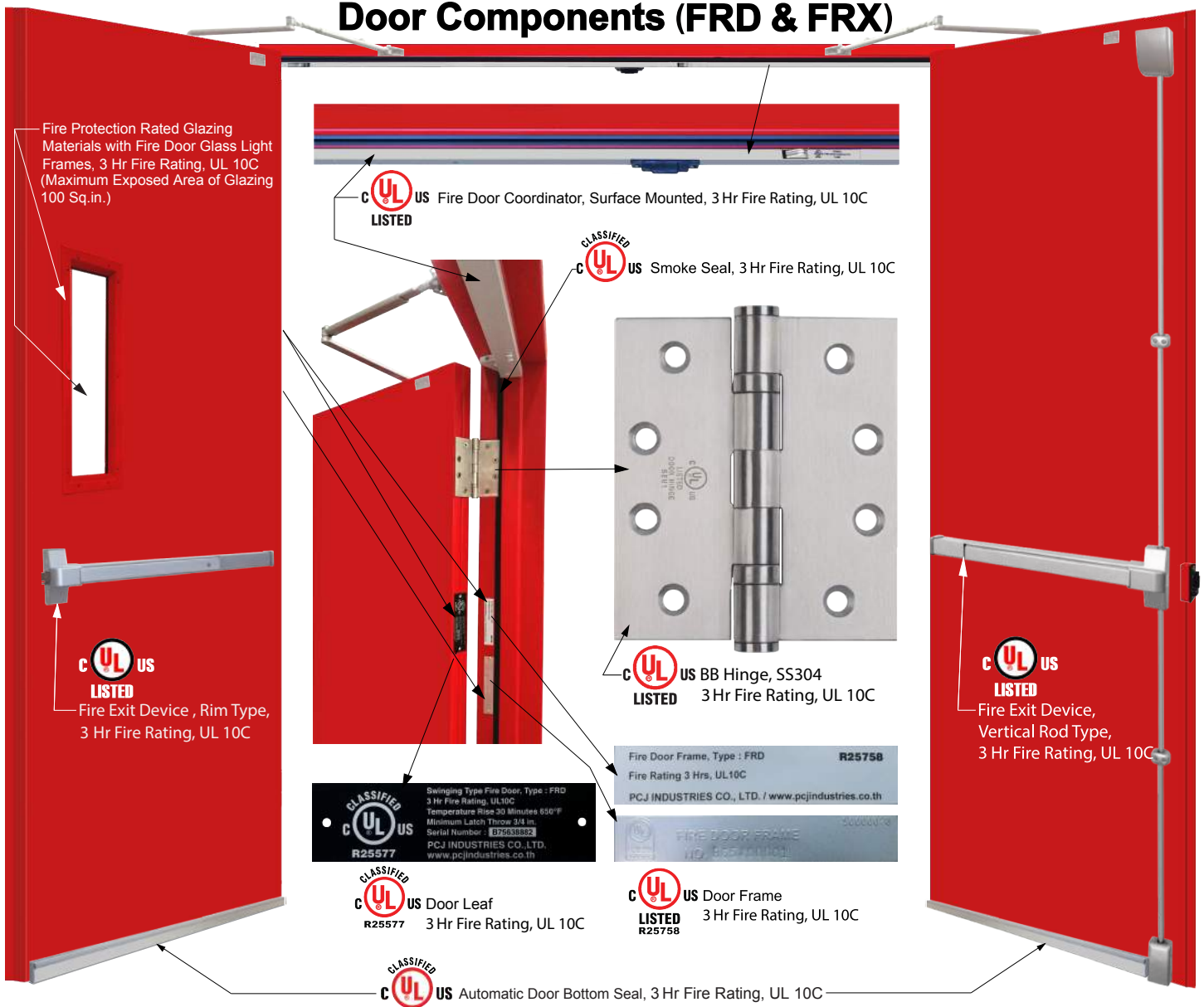


Model : FRX
Door Leaf : 50 mm.thk.
Insulation : Ceramic Fiber



ISO 9001:2008 Certified
Certificate No. FM 509124

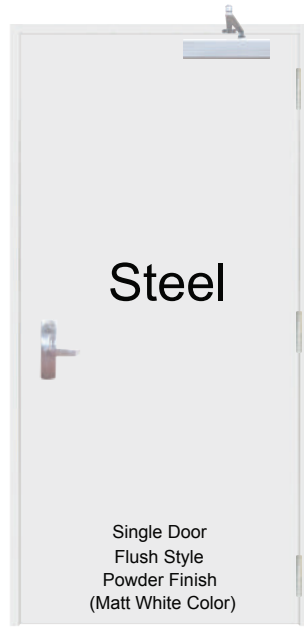
Door Components (FRD & FRX)



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



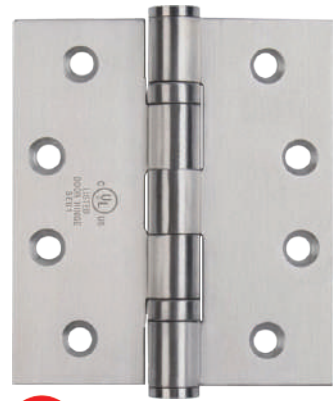
Fire Rated Mortise Exit Device, 3Hr Fire Rating, UL 10C

Concealed Vertical Rod

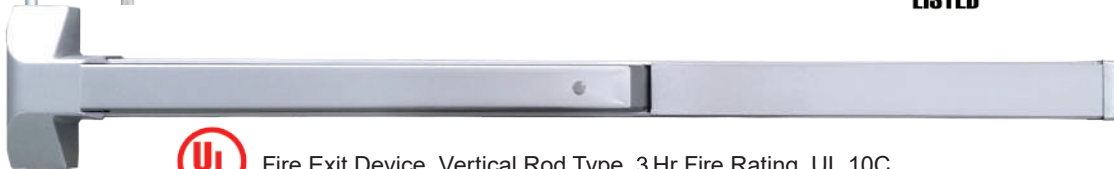
Vertical Rod



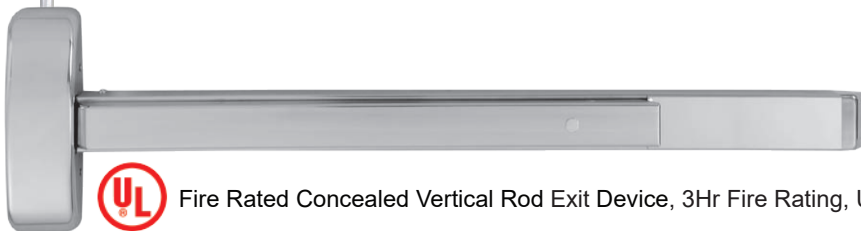
Escutcheon Lever Trim with Cylinder



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

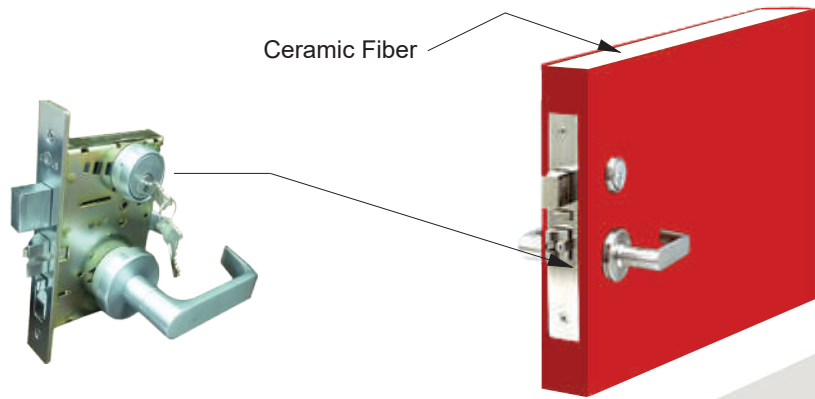
Vertical Rod

Concealed Vertical Rod

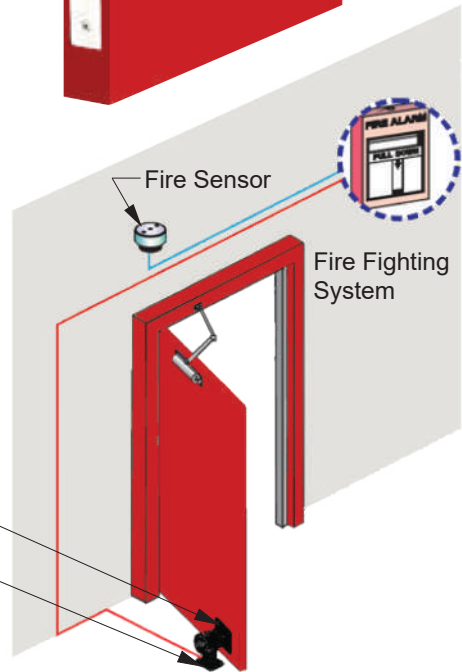


Swinging Fire Door Closer
Surface Mounted,
Non-Hold Open Regular
180°, 15-150 Kgs,
3 Hr Fire Rating, UL 10C, ANSI Grade 1

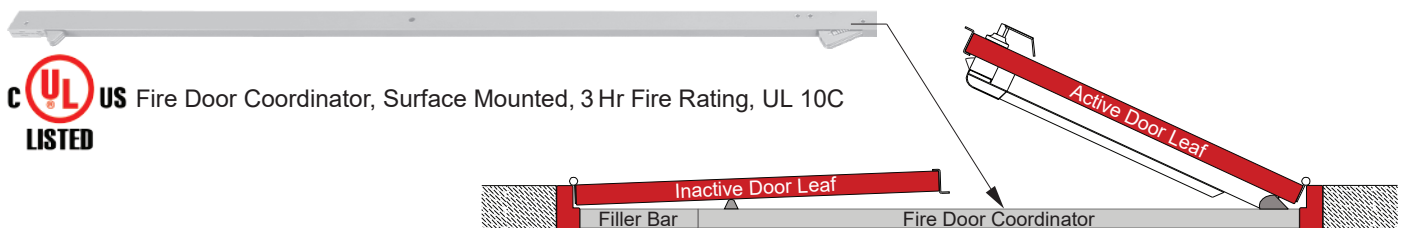
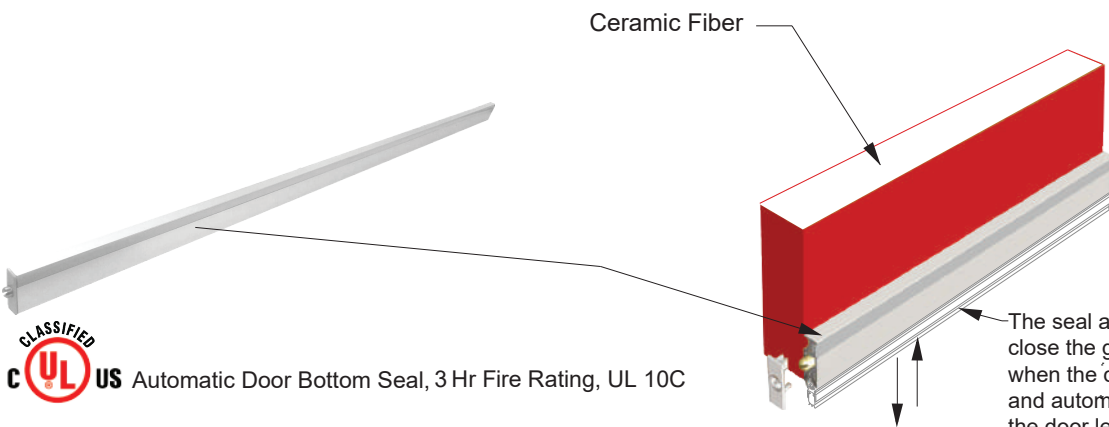
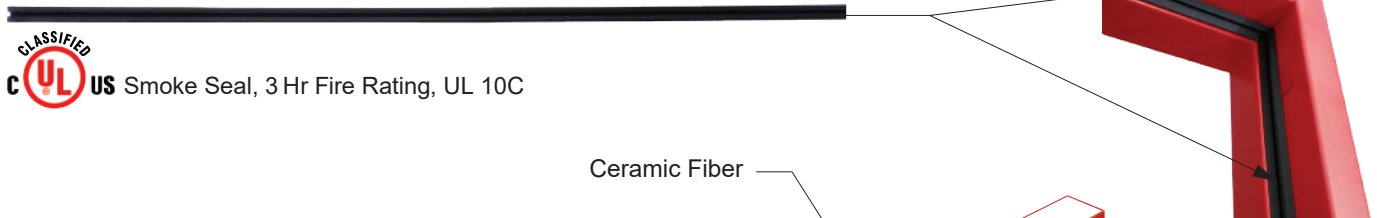
Door Hardware (for FRD & FRX)



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



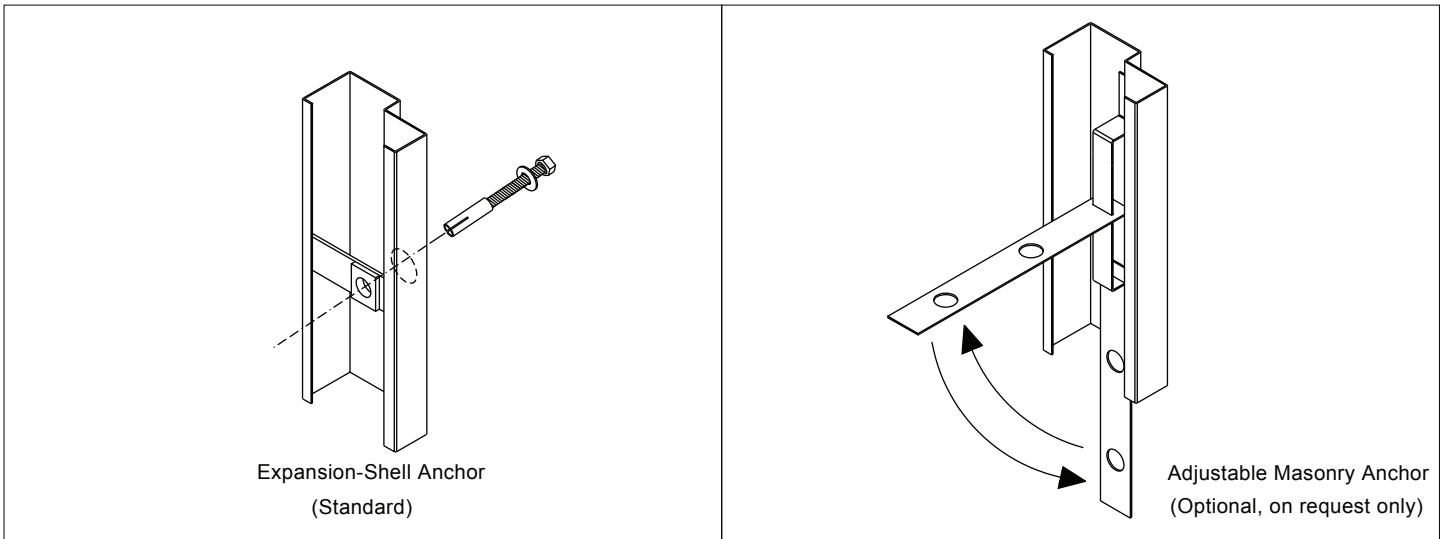
C **UL** **US** **LISTED** Electromagnetic Door Holder, UL 228



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



How to Order XXX-X XX X-XX-XX

<p>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</p>	<p>Opening Direction (Top View) :-</p> <p>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</p>
<p>Door Type :- S = Single Door D = Double Door</p>	
<p>Door Style :- 00 = Flush FG = Flush with Fire Rated Glass & Frames, 3 Hr Fire Rating, UL 10C EB = Embossed</p>	
<p>Finish :- P = Powder W = Wood Grain</p>	
<p>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)</p>	

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.

B. Mahlenholz
 Bruce Mahlenholz, Assistant Chief Engineer, Global Inspection and Field Services
 UL LLC
 Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at www.ul.com/contact



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.

B. Mahlenholz
 Bruce Mahlenholz, Director North American Certification Program
 UL LLC
 Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at www.ul.com/contact



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

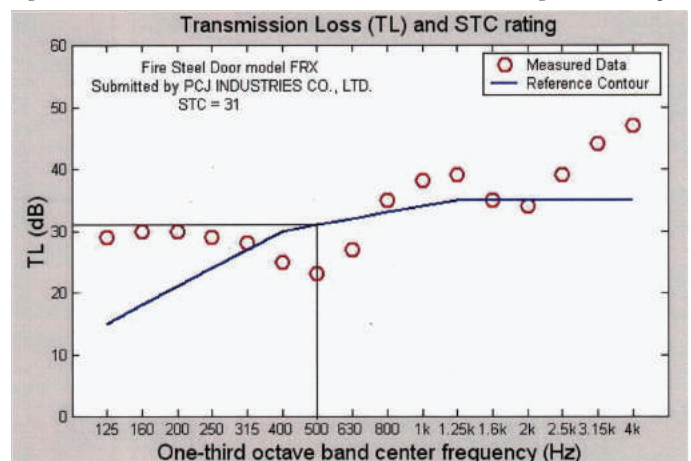
Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

B. Mahlenholz
 Bruce Mahlenholz, Assistant Chief Engineer, Global Inspection and Field Services
 UL LLC
 Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at www.ul.com/contact



Figure 1. The airborne sound transmission-loss (TL) and the STC rating of the test sample.



W. Srisong
 6



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

Most of our products are certified by several organization for standardization, i.e.: Underwriters Laboratories, British Standards Instituion, Standards Australia, Air Diffusion Council, Thai Industrial Standards Institute. Moreover, our company is certified by International Organization for Standardization, ISO 9001:2008 as well.



Our factory is established on our own land, area 40,000 sq.m.(approx), in Kaengkhoi, Saraburi, Thailand. Our policy is always on-time production and delivery with quality, reliability, and competitively priced products. We have been investing in instruments and machines. Besides, we have experienced engineer teams taking full time to continuously research and develop our product lines, including new product designs to meet worldwide market demands.



PCJ INDUSTRIES CO.,LTD.
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