

CERTIFICATE OF COMPLIANCE

Certificate Number 20121115-R3791
Report Reference R3791
Issue Date 2012 November 15

Issued to: Ceco Door Products, Div. of ASSA ABLOY Door Goup, LLC
9159 Telecom Drive
Milan, TN 38358


This is to certify that representative samples of Steel Stiffened Doors – Swinging-type Fire Doors
Models Trio and Trio-E

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 Asemblies
UL 1784 – Air Leakage Tests of Door Assemblies
NFPA 252, CAN4-S104, ANSI/NFPA 80 – Fire Doors and Other Opening Protectives

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

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

The UL Classification Mark includes: UL in a circle: with the word “CLASSIFIED”  (as shown); a control number (may be alphanumeric) assigned by UL; a statement to indicate the extent of UL’s evaluation of the product; and the product category name (product identity) as indicated in the appropriate UL Directory.

Look for the UL Classification Mark on the product.

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Single Doors

3, 1-1/2, 1, 3/4, and 1/3 Hr. Ratings: 18 ga. (0.042 in.)(1.0mm) and 16 ga. (0.053in.)(1.3mm) for single swing (4’-0” x 8’-0” maximum). Single swing 450° F (232.22°C) temperature rise at 30 minutes (4’-0” x 8’-0” maximum).

Doors may be used with single point latches or fire exit hardware.

Temperature rise doors do not comply with CAN4-S104.

William R. Carney, Director, North American Certification Programs
UL LLC

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Standard Swing Pairs

3, 1-1/2, 1, 3/4, and 1/3 Hr. Rating: 18 ga. (0.042 in.)(1.0mm) and 16 ga. (0.053 in.)(1.3mm) standard swing pairs (8'-0" x 8'-0" maximum). Standard swing pairs 450° F (232.22° C) temperature rise at 30 minutes (8'-0" x 8'-0" maximum).

The use of an astragal on pairs of Trio doors is optional. The use of an astragal on 3 Hr. pairs of Trio-E doors is required. The use of an astragal on 3 Hr. temperature rise doors is required.

Doors may be used with single point latches, bolts, or fire exit hardware.

Temperature rise doors do not comply with CAN4-S104.

Glazed areas are permitted as follows:

3 Hr. and all 450° temp. rise ratings: 100 in² any UL Classified glazing per door.

1-1/2, 1, 3/4, 1/3 Hr. ratings: any UL Classified glazing, maximum size is in accordance with the Listing of the glazing material being installed. Multiple lites allowed per door.

Louvers are permitted as follows:

1-1/2 and 3/4 Hr. ratings: any UL Classified fire door louver, maximum louver area not to exceed 576 sq. in., maximum louver size 24" in width and 24" in height, one louver allowed per door, louver not allowed in temperature rise door.

William R. Carney, Director, North American Certification Programs

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CERTIFICATE OF COMPLIANCE

Certificate Number 20151124-R3791
Report Reference File R3791
Issue Date 2015-November-24

Issued to: Ceco Door Products, Div. of ASSA ABLOY Door Group, LLC
9159 Telecom Drive
Milan, TN 38358

This is to certify that representative samples of Steel Stiffened Doors – Swinging-type Fire Doors
Models Medallion and Armorshield

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."
ANSI/UL 1784, "Air Leakage Tests of Door Assemblies,"
ANSI/NFPA 80, NFPA 252.
CAN/ULC-S104, "Standard Method for Fire Tests of Door Assemblies."
ANSI/UL 752, "Bullet-Resisting Equipment."

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, Director North American Certification Program

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Report Reference File R3791
Issue Date 2015-November-24

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Single Doors, Standard Swing Pairs and Double Egress Pairs of Doors

3, 1-1/2, 1, 3/4, and 1/3 Hr. Ratings: 18 ga. (0.042 in.)(1.0 mm) and 16 ga. (0.053 in.)(1.3 mm) for single swing (4'-0" x 10'-0" maximum), standard pairs (except vertical rod on each leaf) and Double Egress pairs (8'-0" x 10'-0" maximum), pairs with vertical rods swinging same direction (8'-0" x 9'-0" maximum). The use of an astragal on pairs of doors is optional, except on standard pairs with vertical rods swinging same direction an astragal with overlapping strip is not allowed.

14 ga. (0.067 in.)(1.7 mm) for single swing (4'-0" x 9'-0" maximum) and standard pairs (except vertical rod on each leaf) (8'-0" x 9'-0" maximum). The use of an astragal on pairs of doors is optional. Doors may be used with single point latches, bolts, or fire exit hardware. Double Egress doors to be used with vertical rod fire exit hardware.

Above information does not apply to Armorshield doors.

Pairs of Doors with electric strike

3 Hr. Rating: 18 ga. (0.042 in.)(1.0 mm) and 16 ga. (0.053 in.)(1.3 mm) pairs with electric strike (6'-0" x 7'-2" maximum).

1- 1/2, 1, 3/4, and 1/3 Hr. Ratings: 18 ga. (0.042 in.)(1.0 mm) and 16 ga. (0.053 in.)(1.3 mm) pairs with electric strike (8'-0" x 9'-0" maximum).

The use of an astragal on pairs of doors is optional.

Doors may be used with single point latches, bolts, or fire exit hardware.

Above information does not apply to Armorshield doors.

Pairs of Doors with open back strike

1-1/2, 1, 3/4, and 1/3 Hr. Ratings: 18 ga. (0.042 in.)(1.0 mm), 16 ga. (0.053 in.)(1.3 mm) and 14 ga. (0.067 in.)(1.7 mm) for pairs with open back strike (8'-0" x 8'-0" maximum).

The use of an astragal on pairs of doors is optional.

Doors to be used with mortise fire exit hardware on active and vertical rod fire exit hardware on inactive leaf.

Above information does not apply to Armorshield doors.

Dutch Doors

3, 1- 1/2, 1, 3/4, and 1/3 Hr. Ratings: 18 ga. (0.042 in.)(1.0 mm) and 16 ga. (0.053 in.)(1.3 mm) Dutch doors for single swing (4'-0" x 7'-2" maximum). The use of an astragal covering the gap between upper and lower leaf is required. A half Dutch Door Shelf may be used as an option. Single point lock latching horizontally is required in lower leaf. Cylindrical lock latching horizontally or vertically, or self latching flush bolt latching vertically is required in upper leaf.

Above information does not apply to Armorshield doors.



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Oversized Single and Pairs of Doors

1-1/2, 1, 3/4, and 1/3 Hr. Ratings: 18 ga. (0.042 in.)(1.0 mm), 16 ga. (0.053 in.)(1.3 mm) and 14 ga. (0.067 in.)(1.7 mm) for single swing (5'-0" x 12'-0" maximum) and for standard swing pairs (10'-0" x 12'-0" maximum). The use of a 3/4" overlapping astragal is required on active or inactive leaf of pairs. Single and active leaf of pairs must be used with single point mortise locks that have 3/4" minimum latch throw and are approved for use on the size of door. Auxiliary latch (mortised fusible link thermal pin) required in top of active leaf at lock stile that engages into frame head. Top & bottom bolts only are allowed on inactive leaf. UL Classified closer is required.
Above information does not apply to Armorshield doors.

Glazed areas are permitted as follows:

3 Hr. and all 450° temp. rise ratings: 100 in² any UL Classified glazing per door.
1-1/2, 1, 3/4, 1/3 Hr. ratings: any UL Classified glazing, maximum size is in accordance with the Listing of the glazing material being installed. Multiple lites allowed per door.
Above information does not apply to Armorshield doors.

Louvers are permitted as follows:

1-1/2 and 3/4 Hr. ratings: any UL Classified fire door louver, maximum louver area not to exceed 576 sq. in., maximum louver size 24" in width and 24" in height, one louver allowed per door, louver not allowed in temperature rise door.
Above information does not apply to Armorshield doors.

Temperature Rise

Doors are available with a 450 degree F temperature rise rating. Temperature rise doors do not comply with CAN4-S104.
Above information does not apply to Armorshield doors.

ANSI/UL 752 Bullet-Resisting Equipment - Level 3, Model: Armorshield

1-1/2, 1, 3/4 and 1/3 Hr. Ratings: 16 ga. (0.053 in.)(1.3 mm), 14 ga. (0.067 in.)(1.7 mm) and 12 ga. (0.093 in.)(2.3 mm) for single swing (4'-0" x 8'-0" maximum). Doors may be used with mortise single point latches or mortise fire exit hardware. Glass lites and/or louvers are not permitted in these doors. Doors do not comply with a 450 degree F temperature rise rating.



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