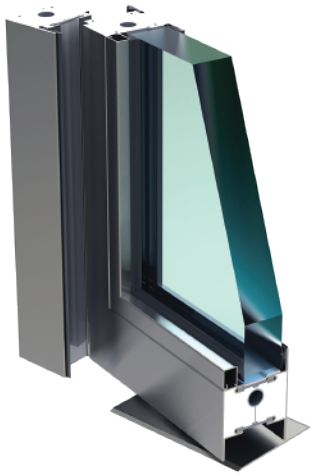
TECFIRE
safety is invisible

STEELFIRE STB80 SERIES
STEEL & STAINLESS STEEL SYSTEMS

FIRE RESISTIVE SYSTEMS
TEMPERATURE RISE RESTRICTION RATING (T)



FIRE RATING: 60/90 MIN

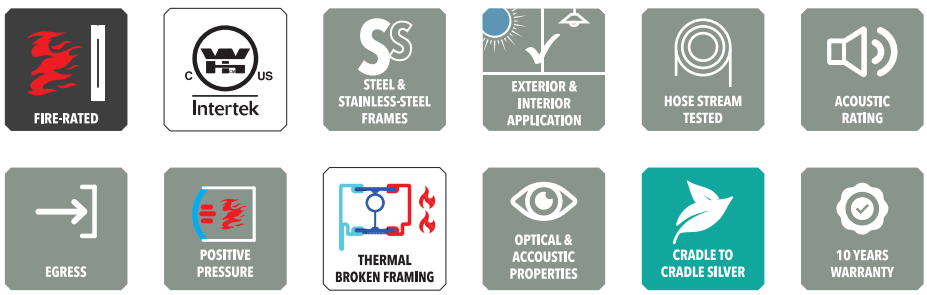
PIVOT DOOR

Steelfire STB80 Pivot Door assembly is the new generation and modern alternative to the traditional hinged system.



FIRE RESISTIVE
Compartmentalize smoke and flames and block heat transfer

intertek Applus®
UL 10C, UL 10B, NFPA 252, ANSI 297.1 & CPSC 16 CFR 1201 (Cat. I or II)



KEY FEATURES:

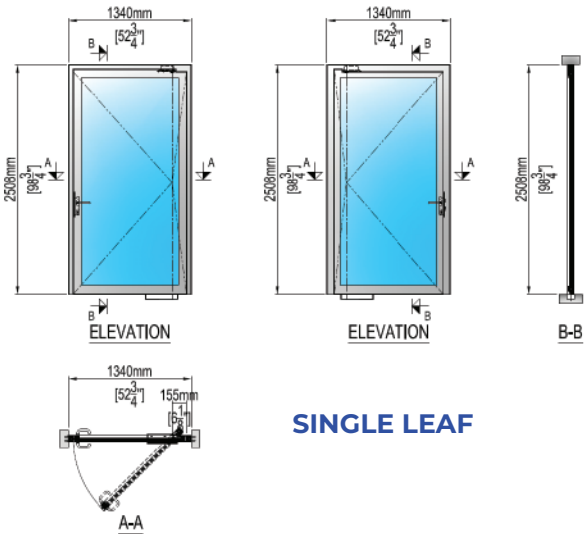
- #1 largest (12 feet tall) glazed fire-rated door system in the industry
- Unrivalled aesthetic look (no visible hinges and surface mounted door closers)
- Narrow steel profiles
- Thermal break system
- Interior and exterior application
- Single acting swing door
- Door hardware to fit functional requirement (check with Tecfire for compatibility) Great durability due to its top-to-end cold rolled steel profiles
- Meets the 450°F (250°C) temperature rise criteria of the unexposed side of the door measured at 30 minutes during the fire test
- Frames can be supplied in either high-performance powder coat finishes or stainless steel with polished or brushed finishes

Pivot Door Type	Fire Rating	Maximum Door Width	Maximum Door Height	Fire Rated Glass Thickness	Maximum Glass Size
Single Leaf	60 mins	1340mm (52-3/4")	2508mm (98-3/4")	30 to 31mm (1-1/8" to 1-3/8")	1110mm x 2308mm (43-3/4" x 90-7/8")
Single Leaf	90 mins	1215mm (47-7/8")	3505mm (138")	48mm (1-7/8")	1070mm x 3342mm (42-1/8" x 131-5/8")
Double Leaf	60 mins	2570mm (101-1/8")	2508mm (98-3/4")	30 to 31mm (1-1/8" to 1-3/8")	1110mm x 2308mm (43-3/4" x 90-7/8")
Double Leaf	90 mins	2500mm (98-3/8")	3505mm (138")	48mm (1-7/8")	1070mm x 3342mm (42-1/8" x 131-5/8")

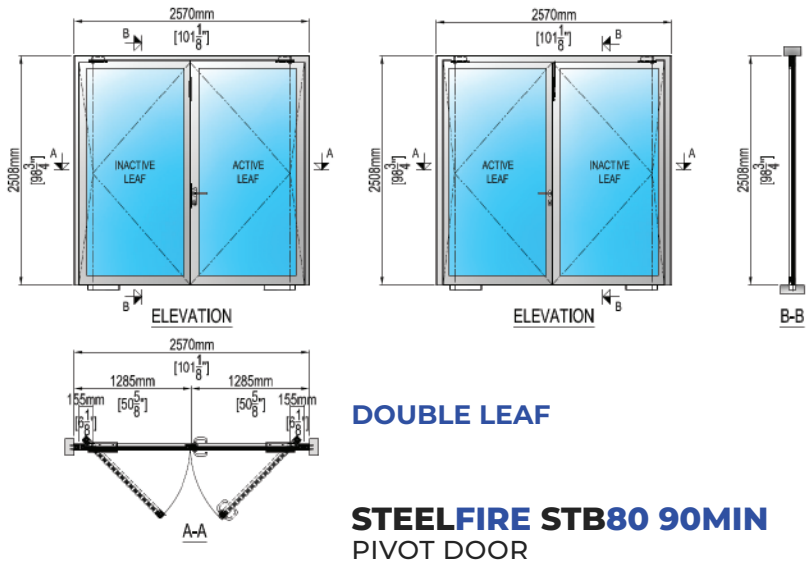
Note: Individual Lite sizes cannot exceed the maximum glass sizes shown above. Glasses shown are single glazed. DGU glass thickness varies as it is dependent on the air space and outer pane requirements.

DISCLAIMER: The information provided herein in for general references only and is subject to change without notice. Please visit www.tecfires.com for the most up to date information

STEELFIRE STB80 60MIN
PIVOT DOOR

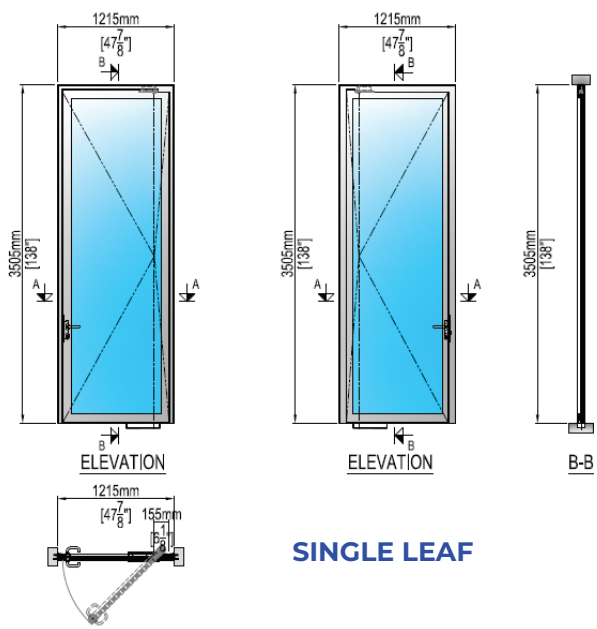


SINGLE LEAF

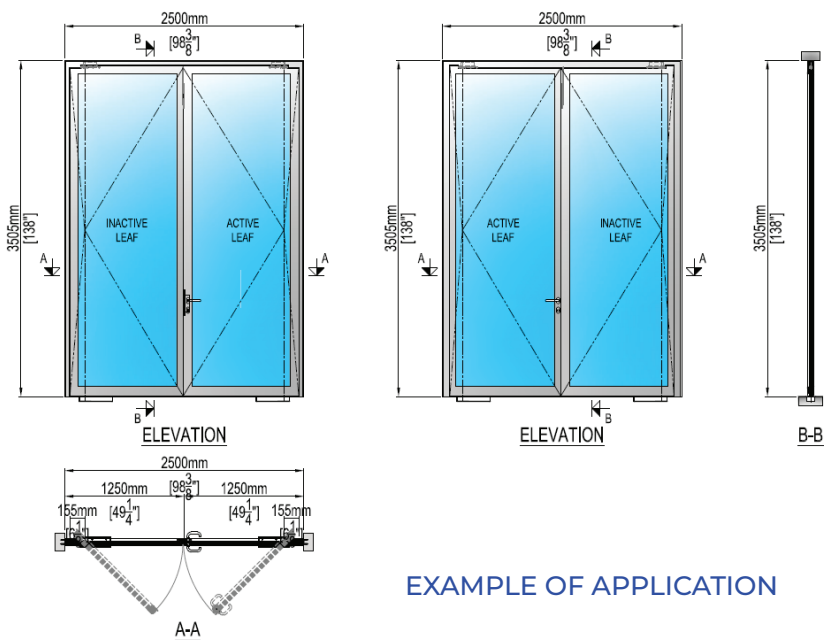


DOUBLE LEAF

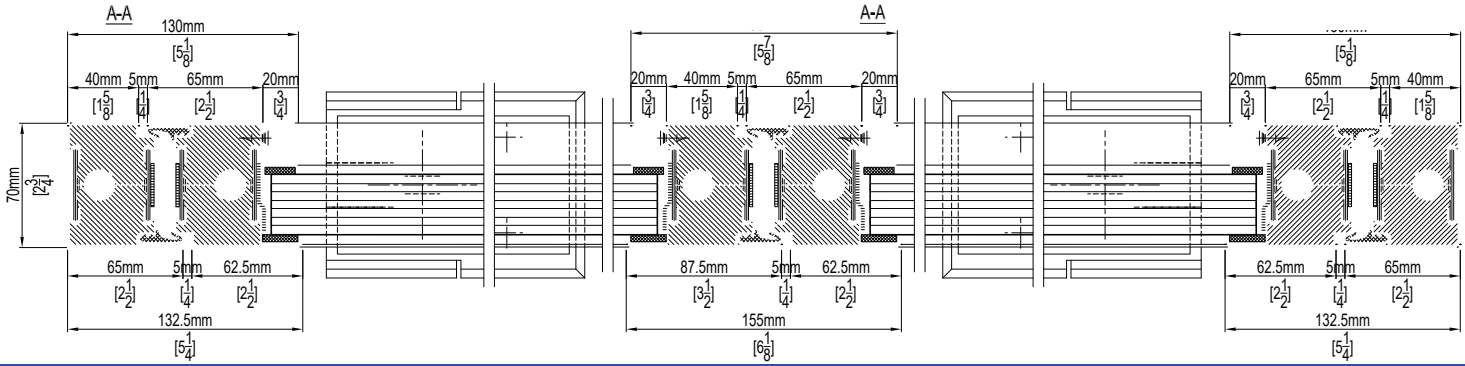
STEELFIRE STB80 90MIN
PIVOT DOOR



SINGLE LEAF



EXAMPLE OF APPLICATION



DISCLAIMER: The information provided herein in for general references only and is subject to change without notice. Please visit www.tecfires.com for the most up to date information







FIRE RESISTANCE TEST

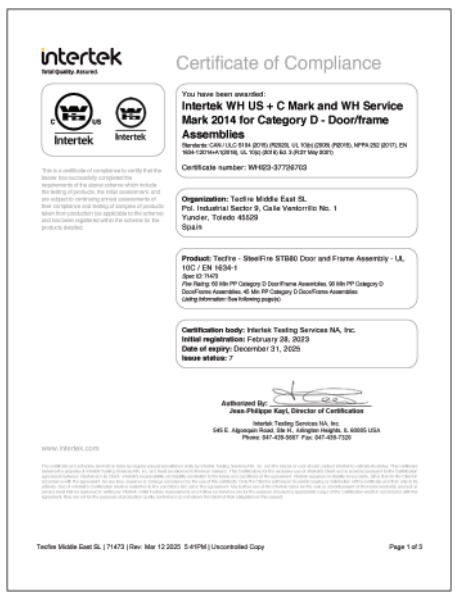


HOSE STREAM TEST

Intertek WH US + C Mark for Category D - Door/frame Assemblies

Standards: CAN / ULC S104:2015 (R2020) UL 10(c) (2016), UL 10(b) (R2015), NFPA 252 (2017)

CERTIFICATE OF COMPLIANCE



intertek
Total Quality. Assured.

Certificate of Compliance

You have been awarded:
Intertek WH US + C Mark and WH Service Mark 2014 for Category D - Door/frame Assemblies
Standards: CAN / ULC S104 (2010) (R2020), UL 10(c) (2016) (R2016), NFPA 252 (2017), EN 1634-1:2014+A1:2018, UL 10(b) (2015) & S. 3 (R31 May 2021)

Certificate number: WH823-37726703

Organization: Tecfire Middle East SL
Pol. Industrial Sector 9, Calle Ventorrillo No. 1
Yuncler, Toledo 45529
Spain

Product: Tecfire - SteelFire STB80 Door and Frame Assembly - UL 10C / EN 1634-1
Spec ID: 71473
Fire Rating: 60 Min PP Category D Door/Frame Assemblies, 90 Min PP Category D Door/Frame Assemblies, 45 Min PP Category D Door/Frame Assemblies
Listing Information: See following page(s)

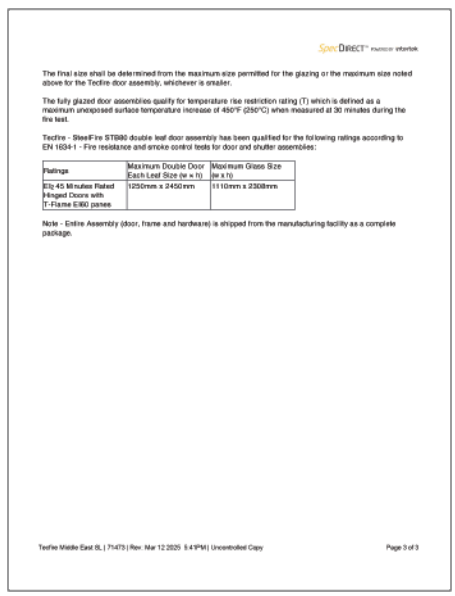
Certification body: Intertek Testing Services NA, Inc.
Initial registration: February 28, 2023
Date of expiry: December 31, 2025
Issue status: 7

Authorized By:
Jean-Philippe Kayl, Director of Certification
Intertek Testing Services NA, Inc.
545 E. Algonquin Road, Ste H., Arlington Heights, IL 60005 USA
Phone: 847-439-9987 Fax: 847-439-7526

www.intertek.com

Tecfire Middle East SL | 71473 | Rev: Mar 12 2025 5:41PM | Uncontrolled Copy

Page 1 of 3



SpecDIRECT™ POWERED BY intertek

The final size shall be determined from the maximum size permitted for the glazing or the maximum size noted above for the Tecfire door assembly, whichever is smaller.

The fully glazed door assemblies qualify for temperature rise restriction rating (T) which is defined as a maximum unexposed surface temperature increase of 450°F (250°C) when measured at 30 minutes during the fire test.

Tecfire - SteelFire STB80 double leaf door assembly has been qualified for the following ratings according to EN 1634-1 - Fire resistance and smoke control tests for door and shutter assemblies:

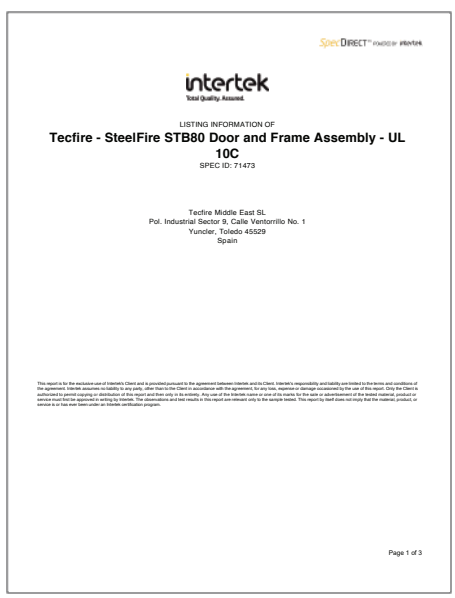
Ratings	Maximum Double Door Each Leaf Size (w x h)	Maximum Glass Size (w x h)
Elij 45 Minutes Rated Hinged Doors with T-Frame E360 panes	1250mm x 2450 mm	1110mm x 2308mm

Note - Entire Assembly (door, frame and hardware) is shipped from the manufacturing facility as a complete package.

Tecfire Middle East SL | 71473 | Rev: Mar 12 2025 5:41PM | Uncontrolled Copy

Page 3 of 3

LISTING



SpecDIRECT™ POWERED BY intertek

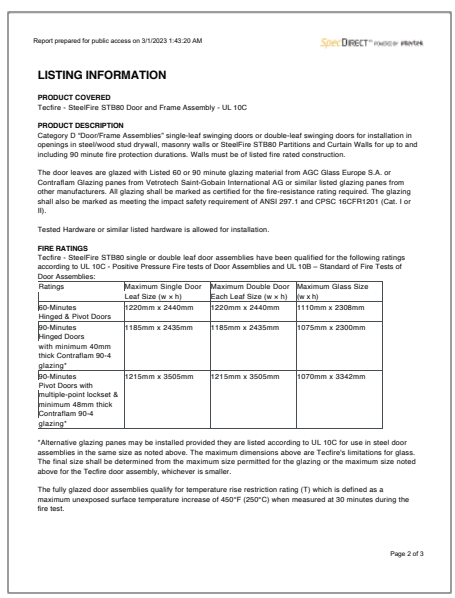
intertek
Total Quality. Assured.

LISTING INFORMATION OF
Tecfire - SteelFire STB80 Door and Frame Assembly - UL 10C
SPEC ID: 71473

Tecfire Middle East SL
Pol. Industrial Sector 9, Calle Ventorrillo No. 1
Yuncler, Toledo 45529
Spain

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

Page 1 of 3



Report prepared for public access on 3/1/2023 1:43:20 AM

SpecDIRECT™ POWERED BY intertek

LISTING INFORMATION

PRODUCT COVERED
Tecfire - SteelFire STB80 Door and Frame Assembly - UL 10C

PRODUCT DESCRIPTION
Category D "Door/Frame Assemblies" single-leaf swinging doors or double-leaf swinging doors for installation in openings in steel/wood stud drywall, masonry walls or SteelFire STB80 Partitions and Curtain Walls for up to and including 90 minute fire protection durations. Walls must be of listed fire rated construction.

The door leaves are glazed with Listed 60 or 90 minute glazing material from AGC Glass Europe S.A. or Contraflam Glazing panes from Vetrotech Saint-Gobain International AG or similar listed glazing panes from other manufacturers. All glazing shall be marked as certified for the fire-resistance rating required. The glazing shall also be marked as meeting the impact safety requirement of ANSI Z97.1 and CPSC 16CFR1201 (Cat. I or II).

Tested Hardware or similar listed hardware is allowed for installation.

FIRE RATINGS
Tecfire - SteelFire STB80 single or double leaf door assemblies have been qualified for the following ratings according to UL 10C - Positive Pressure Fire tests of Door Assemblies and UL 10B – Standard of Fire Tests of Door Assemblies:

Ratings	Maximum Single Door Leaf Size (w x h)	Maximum Double Door Each Leaf Size (w x h)	Maximum Glass Size (w x h)
60-Minutes Hinged & Pivot Doors	1220mm x 2440mm	1220mm x 2440mm	1110mm x 2308mm
90-Minutes Hinged Doors with minimum 40mm thick Contraflam 90-4 glazing*	1185mm x 2435mm	1185mm x 2435mm	1075mm x 2300mm
90-Minutes Pivot Doors with multiple-point lockset & minimum 48mm thick Contraflam 90-4 glazing*	1215mm x 3505mm	1215mm x 3505mm	1070mm x 3342mm

*Alternative glazing panes may be installed provided they are listed according to UL 10C for use in steel door assemblies in the same size as noted above. The maximum dimensions above are Tecfire's limitations for glass. The final size shall be determined from the maximum size permitted for the glazing or the maximum size noted above for the Tecfire door assembly, whichever is smaller.

The fully glazed door assemblies qualify for temperature rise restriction rating (T) which is defined as a maximum unexposed surface temperature increase of 450°F (250°C) when measured at 30 minutes during the fire test.

Page 2 of 3

DISCLAIMER: The information provided herein in for general references only and is subject to change without notice. Please visit www.tecfires.com for the most up to date information