



**TECFIRE**

safety is invisible



**FIRE RATING: 60/90/120 MIN**

**STEEFLIRE** **STB80**  
STEEL & STAINLESS STEEL SYSTEMS

## BUTT JOINT

Combining elegance with strength, the Steelfire STB80 Butt Joint system offers a lighter and more refined approach. Designed to minimize intermediate profiles, it maximizes the glazed surface area. This innovative system opens up a multitude of possibilities in design and architecture, creating luminous spaces with enhanced transparency while maintaining impeccable fire safety standards.



**FIRE RESISTIVE**  
Compartmentalize smoke and flames and block heat transfer

**intertek**  
ASTM E119 & UL 263

**Applus<sup>+</sup>**



### KEY FEATURES:

- Fire rating of 60, 90, & 120 minutes with required hose stream test.
- Glass edge to glass edge connection
- For interior application
- Possibility of creating 90 to 120 degree angles for glass corner joints
- Great acoustic insulation
- With a glass edge-to-edge gap of 4 to 6mm, the space is filled using structural silicone sealant in neutral, gray or black color options
- Maximized glazing area from floor to ceiling
- Available in multiple configurations
- Compatible with any STB80 door system
- Frames can be supplied in either high-performance powder coat finishes or stainless steel with polished or brushed finishes
- Featuring exceptional transparency, the glass ensures a maximum light transmittance ranging from 75% to 82%.

FIRE RATING	MAXIMUM WIDTH	MAXIMUM HEIGHT	FIRE RATED GLASS THK.	MAXIMUM GLASS SIZE	MAXIMUM GLASS AREA
60 mins	Unlimited	3000mm (118-1/8")	27 to 30mm (1-1/16" to 1-3/16")	2890mm W x 2890mm H (113-3/4" W x 113-3/4" H)	4.09m <sup>2</sup> (44ft <sup>2</sup> )
90 mins	Unlimited	3000mm (118-1/8")	37.5 to 40mm (1-1/2" to 1-5/8")	2890mm W x 2890mm H (113-3/4" W x 113-3/4" H)	4.09m <sup>2</sup> (44ft <sup>2</sup> )
120 mins	Unlimited	3000mm (118-1/8")	54mm (2-1/8")	2890mm W x 2890mm H (113-3/4" W x 113-3/4" H)	4.09m <sup>2</sup> (44ft <sup>2</sup> )

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. Glass pane sizes cannot go beyond the maximum glass area (i.e., glass height can go up to 2890mm (113-3/4" H) but the total glass area cannot be more than 4.09m<sup>2</sup> (44ft<sup>2</sup>)

[www.tecfire.com](http://www.tecfire.com)

**TECFIRE USA INC.**

**1-833-TECFIRE**



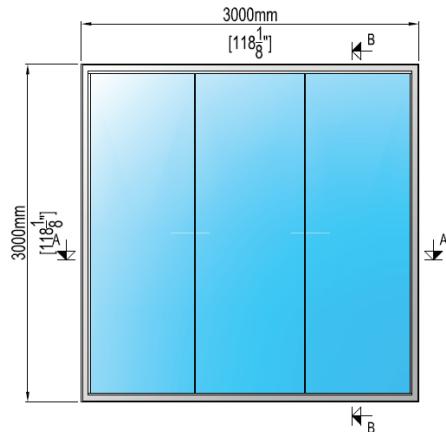
**TECFIRE**

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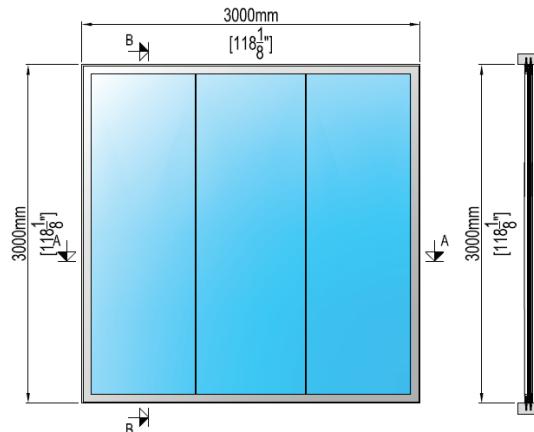
**STEEFLIRE** **STB80**  
STEEL & STAINLESS STEEL SYSTEMS SERIES

**STEEFLIRE STB80 60/90/120 MIN**

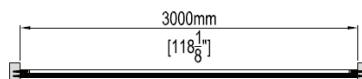
BUTT JOINT



ELEVATION

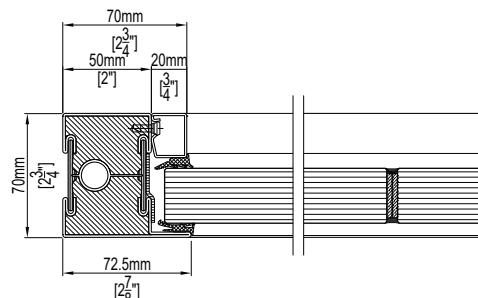


ELEVATION

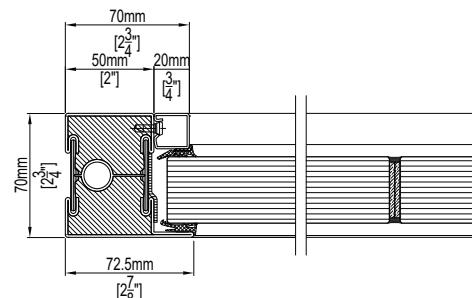


A-A

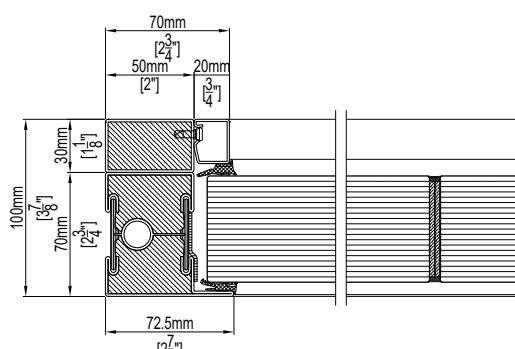
EXAMPLE OF APPLICATION



60 MINUTES



90 MINUTES



120 MINUTES

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## FIRE RESISTANCE TEST



## HOSE STREAM TEST



## Intertek ETL US Mark for Partition

Standards: ASTM E119 (2020), UL 263:2011

### CERTIFICATE OF COMPLIANCE

**Intertek**  
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**Certificate of Compliance**

You have been awarded:  
**Intertek ETL US Mark for Partition**  
Service: ASTM E119 (2020), UL 263:2011

Certificate number: WH03 27726701

**Specification:** Tecfire Middle East SL  
Pte. Industrial Sector 9, Calle Ventorillo No. 1  
Vinyols, 46529  
Spain

**Product:** Tecfire - SteelFire STB80 Fixed Partition Assembly -  
ASTM 119/UL 263  
Size: 1000 x 2000 mm  
Fire Rating: 2 Hour Fire Rating, 1 Hour Fire Rating, 1-1/2 Hour Fire Rating  
Last evaluation: See following pages

**Certification body:** Intertek Testing Services NA, Inc.  
Initial registration: January 17, 2019  
Date of expiry: December 31, 2025  
House status: 7

**Authorized by:**   
Jean-Pierre Key, Director of Certification  
Intertek Testing Services NA, Inc.  
541 E. Algonquin Road, Ste H, Arlington Heights, IL 60005 USA  
Phone: 847-439-0007 | Fax: 847-439-7225

www.intertek.com

The certificate is issued for the above named assemblies. The assemblies are listed in the table below. The certificate covers the elements of standard UL1014, UL 263, and UL 263-1. The following table contains the maximum dimensions of the glazed fixed partition wall assemblies. The maximum dimensions are the maximum dimensions from the design listings above or the glass manufacturer's size limitations, whichever is smaller. Note 1: The glazing panes used in these assemblies must be listed for fire resistance rating according to ASTM E119/UL 263. The maximum glass dimensions in the finished assemblies are the maximum dimensions from the design listings above or the glass manufacturer's size limitations, whichever is smaller. Note 2: Butt-joint glazing details in the design listings are not applicable to T-Frame glazing panes from Tecfire.

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### LISTING INFORMATION

SteelFire STB80 fixed partition framing system fabricated by Tecfire Middle East SL is used for glazed fire-resistance rated non-loadbearing fixed partition applications according to ASTM E119 & UL 263 test standards.

The construction details of the glazed fixed partition wall assemblies are given in the design listings noted below:

Fire Ratings	Rating	Design Listing No.
ASTM E119/UL 263	1 Hour	TFMF-GP 60-01
ASTM E119/UL 263	1-1/2 Hour	TFMF-GP 90-01
ASTM E119/UL 263	2 Hour	TFMF-GP 130-01

Note 1: The glazing panes used in these assemblies must be listed for fire resistance rating according to ASTM E119/UL 263. The maximum glass dimensions in the finished assemblies are the maximum dimensions from the design listings above or the glass manufacturer's size limitations, whichever is smaller.

Note 2: Butt-joint glazing details in the design listings are not applicable to T-Frame glazing panes from Tecfire.

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### LISTING

Report prepared for public access on 3/1/2023 1:43:00 AM

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**LISTING INFORMATION OF**  
**Tecfire - SteelFire STB80 Fixed Partition Assembly - ASTM 119/UL 263**  
SPEC ID: 7021

**Specification:** Tecfire Middle East SL  
Pte. Industrial Sector 9, Calle Ventorillo No. 1  
Vinyols, 46529  
Spain

The manufacturer of the above listed products is Tecfire Middle East SL. The following table contains the maximum dimensions of the glazed fixed partition wall assemblies. The maximum dimensions are the maximum dimensions from the design listings above or the glass manufacturer's size limitations, whichever is smaller. Note 1: The glazing panes used in these assemblies must be listed for fire resistance rating according to ASTM E119/UL 263. The maximum glass dimensions in the finished assemblies are the maximum dimensions from the design listings above or the glass manufacturer's size limitations, whichever is smaller. Note 2: Butt-joint glazing details in the design listings are not applicable to T-Frame glazing panes from Tecfire.

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**LISTING INFORMATION**

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The construction details of the glazed fixed partition wall assemblies are given in the design listings noted below:

**Fire Ratings**

Test Standards	Rating	Design Listing No.
ASTM E119/UL 263	1 Hour	TFMF-GP 60-01
ASTM E119/UL 263	1-1/2 Hour	TFMF-GP 90-01
ASTM E119/UL 263	2 Hour	TFMF-GP 130-01

Note 1: The glazing panes used in these assemblies must be listed for fire resistance rating according to ASTM E119/UL 263. The maximum glass dimensions in the finished assemblies are the maximum dimensions from the design listings above or the glass manufacturer's size limitations, whichever is smaller.

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