

TG-FR™ 30/6 Technical Data Sheet

Product Name	TG-FR™ 30/6		
Testing Authority	CAMBRIDGE FIRE RESEARCH LTD		
Test / Report Summary	Report # CFR1510151 in accordance with EN 1364-1:2015		
Fire Resistance Integrity (E) Level	E30	Protection from Flames & Hot Gases for 30min	
Fire Resistant Radiation (E _w) Level	E _w 15	Radiant Heat Transfer ≤ 15 kW/m ² for 24min	
Installation Location	Internal and External		
Thickness	6mm +/- 0.2mm		
Weight	15 Kg/m ²		
Acoustic Rating	32 Rw (dB)		
Available in IGU's	Yes, TG-FR™ 30/6 / 8mm – 16mm Spacer / ≥4mm any glass type		
Available in Lamination Constructs	Yes, TG-FR™ 30/6 / 0.76mm – 1.52mm PVB/TG-WR / ≥4mm any glass ty		
Available in Shapes	Yes		
Multi Directional for Fire Resistance	Yes		
Quality Management System	ISO 9001 2008	(Update to 2015 being considered)	
EN 12150-1:2000 Fire Resistant Glass	Pass, Certificate # 0086-CPR-650359		
EN 12600 Impact Rating	1(C)1		
EN 356 Manual Attack Rating	Not Applicable		
LPS 1270 Intruder Resistance Rating	Not Applicable		
EN 1063 Bullet Attack Rating	Not Applicable		
ISO 16933:2007 Blast Resistance Rating	Not Applicable		
Angled Glazing	Vertical / Horizontal	(Vertical includes +/- 10° from Vertical)	
Application	Framed Timber Screens	(Windows, Partitions, Viewing Panels, etc.)	
Timber Screens (*Including IGU's)	Max Vertical Size (mm)	Max Horizontal Size (mm)	Max Area (m ²)
	1340 x 2389	*1911 x 1675	3.201

*These values are determined by calculations based on mathematical and/or physical and/or thermodynamic equations and are not being tested or supported by an independent authority. As such it must be taken as a general description of the product and ToughGlaze (UK) Ltd hereby disclaims all liability arising from any inaccuracy in or omission from this publication and all consequences of relying on it.

Component Specifications

2) Frame	Description	Softwood perimeter frame with mortice and tenon joints affixed using 2No. \varnothing 4.8mm x 80mm steel countersunk woodscrews set at 50mm centres
	Section Size (width x depth)	40mm x 80mm
	Minimum Density (Kg/m ³)	450
3) Glazing Beads	Description	Softwood glazing beads incorporating a 20° splay angle affixed to the frame using \varnothing 2mm x 50mm long steel pins set at 150mm centres all at a skew angle of 45° relative to the glass
	Overall Size (height x width)	20mm x 25mm
	Minimum Density (Kg/m ³)	450
4) Intumescent	Product Type	Sealmaster Intumescent Foam Glazing Tape.
	Description	Foam tape impregnated with intumescent and with a self-adhesive tape on the rear surface
	Overall (width x thickness)	20mm x 5mm (uncompressed), 3mm fitted
5) Capping	Description	Gaps between frame and associated construction packed with Unifrax Insulfrax S blanket and capped with Firewise intumescent and acoustic acrylic sealant

*The customer/end user is/are fully responsible to make certain that the fire resistant glass and frame(s) are fully compatible and according to the application and glazing requirements.

General Customer Files
 Technical Departments
 Territory: **UK**

Monday, 16 January 2017

Subject: **TG-FR™ 30/6, 6mm thick Acoustic Performance and Data**

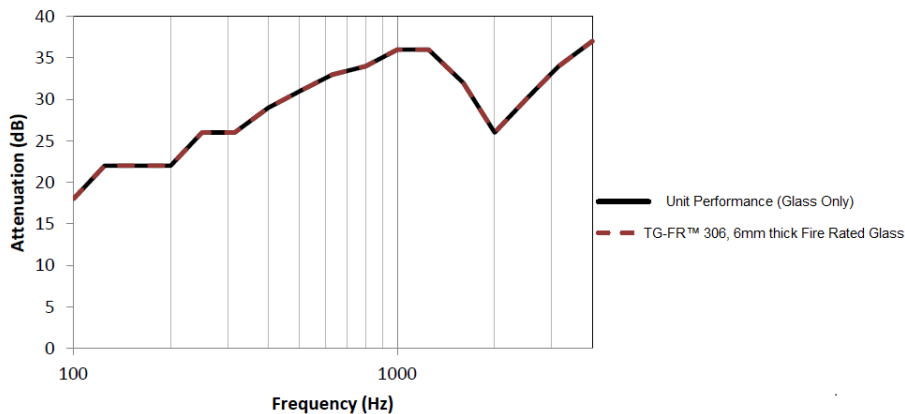
Dear Customer,

The below mentioned acoustic performance data is determined by calculations based on factors extracted from certified data. Due to inherent variations in acoustic performance when testing in accordance with EN ISO 140-3, some variation in the calculated performance can also be expected. As such the weighted performance R_w and adaptation terms, C and C_{tr} , should typically be considered to be accurate within ± 2 dB. However wider deviations can occur.

TG-FR™ 306, 6mm thick Fire Rated Glass

Sound Reduction Indices – dB

Octave Centre Frequency Performance						Glass / Unit Performance			
Frequency - Hertz						$R_w(C:C_{tr})$	R_w (dB)	$R_w + C$	$R_w + C_{tr}$
125	250	500	1000	2000	4000				
22	26	31	36	26	37	32(-2;-7)	32	30	29



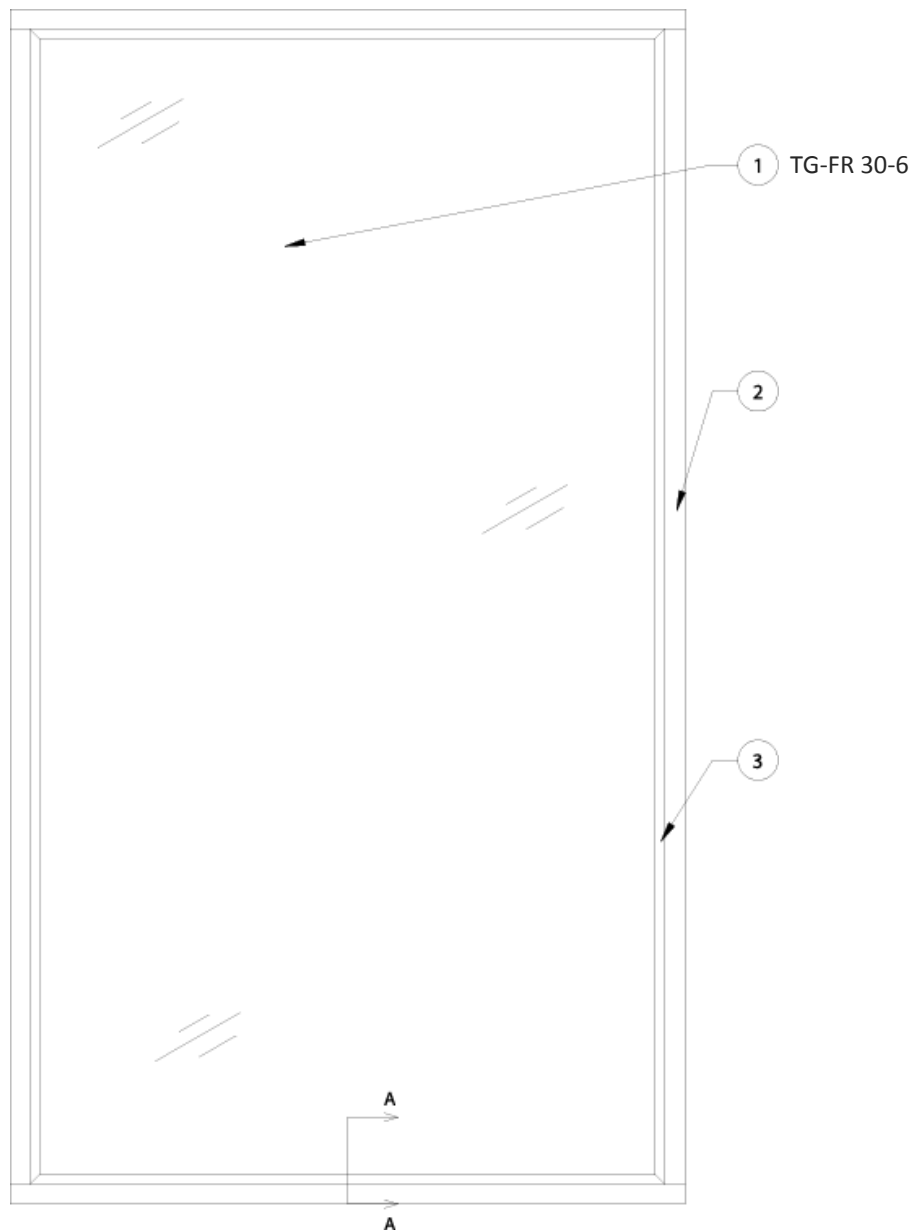
Disclaimer: the information contained in this publication is a general description of the product and ToughGlaze (UK) Ltd hereby disclaims all liability arising from any inaccuracy in or omissions from this publication and all the consequences of relying on it.

TG-FR™ 306 Appendix 1 Figure 1

Elevation viewed from the unexposed side
(See to page 2.)

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Appendix 1 Figure 1 – Elevation viewed from the unexposed side

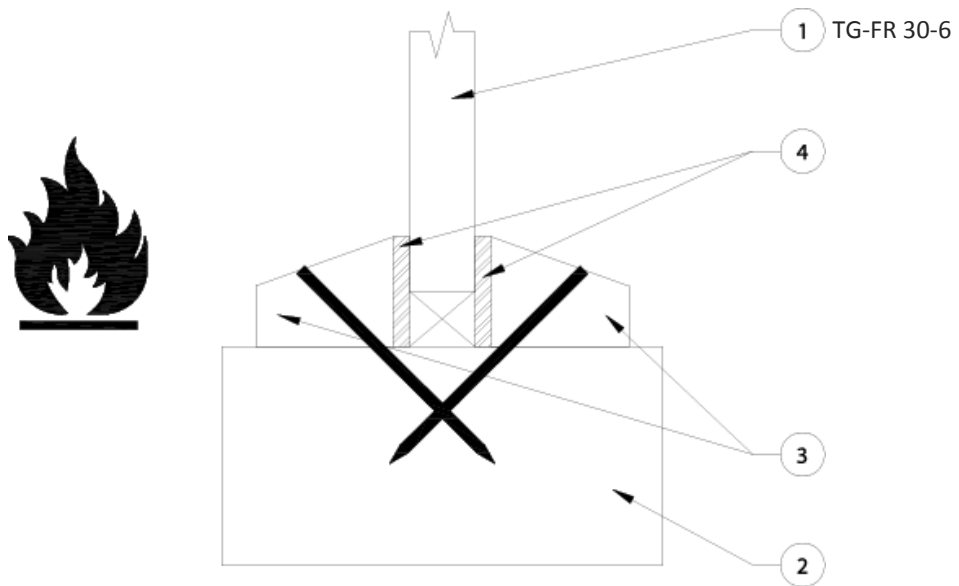


TG-FR™ 306 Appendix 1 Figure 2

Elevation viewed from the unexposed side
(See to page 2.)

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Appendix 1 Figure 2 – Section A – A





C.E. DECLARATION OF CONFORMITY

No 52134

C.E. CONSTRUCTION PRODUCT REGULATION 2011

We hereby certify that the glass as stipulated below complies with the relevant provisions of the E.C. construction product regulation & the requirement of:

BSEN 12150

BSEN 12600

BSEN 12543

The product as detailed has not dangerous substances, however care should be taken when handling non-toughened product.

All product must be glazed in accordance with BS 6262 – 4 2018, failure to comply with these requirements will render all warranties void.



Signed:

Mr. Bhavik Varsani

On behalf of Toughglaze UK Ltd