

## Test Report

**Sponsor:**  
Sentry Panel Products Ltd  
Muirhouses  
Bo'ness  
Edinburgh  
EH51 9SS

**CONFIDENTIAL**

**Report:** BMT/MTP/F13304/01/Rev2

Report on testing of a doorset to BS 6375 Part 1, PAS 24, BS 6375 Part 2 and BS 6375 Part 3

**Issue date:** August 2014



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## BM TRADA – the new name for Chiltern International Fire Ltd

From July 1st 2013, Chiltern International Fire Ltd commenced trading under the name of its parent company BM TRADA and at the same time adopted a brand new visual identity.

Historically, the group has delivered its services through a number of individual companies: BM TRADA Certification Ltd, TRADA Technology Ltd, Chiltern International Fire Ltd (including Chiltern Dynamics) and a network of international offices. Both BM TRADA Group and these individual companies will now trade under the same name - BM TRADA - and adopt the new visual identity.

To coincide with this change, our Technical Reports, Test Reports, Products Assessments, company stationery and marketing collateral have been re-designed to carry the new branding and visual identity.

The validity of all documents previously issued by the individual companies including certificates, test reports and product assessments is unaffected by this change and a letter to this effect will be available to download from our website [www.bmtradagroup.com](http://www.bmtradagroup.com).

### About BM TRADA.

With origins dating back to 1934, we have a deep history and services which are highly valued by our customers. We offer independent certification, testing, inspection, training and technical services around the world. In all these areas we continue to use industry-leading experts in their chosen fields to develop and deliver services – an ethos that has been at the heart of our approach since we began.

A recent review of our businesses and customers revealed that the individual identities sometimes make communications confusing, and that in an already complex business area, clarity and simplicity in communications is rare, but valued. It also revealed that a single identity and combined offer would help us strengthen our appeal.

With this in mind, we brought the companies together under the name BM TRADA and took the opportunity to create a fresh new visual identity.

We have modernised our image and combined our strengths. However, our values, our people and the integrity of our services remain the same. I hope you will welcome these changes and the improvements they will bring.



Jon Osborn  
Chief Operating Officer

# BM TRADA

## Results of Test: BMT/MTP/F13304/01/A/Rev2

### Sentry Panel Products Ltd

Muirhouses  
Bo'ness  
Edinburgh  
EH51 9SS

This document confirms that performance testing was conducted from 3 March 2014 to 25 March 2014. Testing was conducted to the following standards:

- BS 6375 Part 1: 2009 Performance of windows and doors – Part 1: Classification for weathertightness and guidance on selection and specification
- PAS 24: 2012 Enhanced security performance requirements for doorsets and windows in the UK

The following results were achieved:

Product tested	44mm ProTech (Plyface) single leaf doorset (Inward Opening)		
Summary of testing procedure			Result
	Test Standard	Classification Standard	
Air permeability	BS EN 1026: 2000	BS EN 12207: 2000	600Pa (Class 4)
Watertightness	BS EN 1027: 2000	BS EN 12208: 2000	50Pa (Class 2A)
Wind resistance	BS EN 12211: 2000	BS EN 12210: 2000	1200Pa (Class B3)
Exposure category		BS 6375: Part 1: 2009	800X
PAS 24: 2012 – Clauses A.3, B.4.3, B.4.4.2, B.4.4.3, B.4.4.4, B.4.5, B.4.6, B.4.7, B.4.8 and B.4.9			Pass

Air leakage at 50pa was 1.1m<sup>3</sup>/h positive pressure and 1.5m<sup>3</sup>/h negative pressure. The perimeter length of opening light was 6.1m


#### Passed PAS 24: 2012 for the requirements of both key removable and thumbturn locks

The results relate only to the specimens tested, as detailed in the technical specification

Revision 1 – Amendment to cyclic classification on page 4.

Revision 2 – Amendment to company name and address on pages 1-7.

  
James Bacchus - Technical Officer

  
Vincent Kerrigan - Technical Manager  
Issue date: 18 August 2014

#### BM TRADA

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# BM TRADA

## Results of Test: BMT/MTP/F13304/01/B/Rev2

### Sentry Panel Products Ltd

Muirhouses

Bo'ness

Edinburgh

EH51 9SS

This document confirms that performance testing was conducted from 3 March 2014 to 16 June 2014. Testing was conducted to the following standards:

- BS 6375 Part 2: 2009 Performance of windows and doors – Part 2 Classification for operation and strength characteristics and guidance on selection and specification
- BS 6375 Part 3: 2009 Performance of windows and doors – Part 3 Classification for additional performance characteristics and guidance on selection and specification

The following results were achieved:

Product tested	44mm ProTech (Plyface) single leaf doorset (Inward Opening)		
Summary of testing procedure			Result
	Test Standard	Classification Standard	
Resistance to vertical load test	EN 947: 1999	BS EN 1192: 1999	Class 2
Resistance to static torsion test	EN 948: 1999	BS EN 1192: 1999	Class 2
Resistance to soft and heavy body impact test	BS EN 949: 1999	BS EN 1192: 1999	Class 2
Resistance to hard body impact test	BS EN 950: 1999	BS EN 1192: 1999	Class 2
Resistance to repeated opening and closing	BS EN 1191: 2000	BS EN 12400: 2002	Class 4 (50,000 cycles)
Operating forces	BS EN 12046-2: 2000	BS EN 12217: 2003	Class 1
BS 6375 Part 3: 2009 annex C Closure against obstruction			Pass
BS 6375 Part 3: 2009 annex A Basic security test			Pass

The results relate only to the specimens tested, as detailed in the technical specification

James Bacchus - Technical Officer

Vincent Kerrigan - Technical Manager  
Issue date: 18 August 2014

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# Technical specification

**Report: BMT/MTP/F13304/01/Rev2**

**Test For: Sentry Panel Products, Muirhouses, Bo'ness, Edinburgh, EH51 9SS.**

Performance testing to BS 6375 Part 1: 2009, PAS 24: 2012, BS 6375 Part 2: 2009 and BS 6375 Part 3: 2009 was conducted on your doorsets from 3 March 2014 to 16 June 2014. The technical specification is detailed below. The specimens were delivered to BM TRADA laboratory on 28 February 2014.

## Description of construction

The specimens were identical and identified as 44mm ProTech (Plyface) single leaf doorset (Inward Opening). The overall frame dimensions were 980mm wide x 2215mm high x 90mm deep and leaf dimensions were 915mm wide x 2135mm high x 44mm thick. The specimens was locked with a removable key.

### Door leaf

		Material/type	Dimensions (mm)	Density (kg/m <sup>3</sup> )
Stiles		None	-	-
Rails	Top	Mixed Pine (Elliotis/Radiata)*	15	450-500*
	Bottom	None	-	-
Core		Mixed Pine (Elliotis/Radiata)*	36 thick	450-500*
Lippings		Sapele*	10 thick	640*
Facings		Poplar 3 ply hardwood*	4 thick	450*
Adhesive	Facing	WBP Melamine *	-	-
	Core	WBP Melamine *	-	-
	Lipping	PVA*	-	-
Finish		Hardwood Veneer*	0.5 thick	550*

\* As stated by client, not checked by laboratory

### Door frame

	Material/type	Dimensions (mm)	Density (kg/m <sup>3</sup> )
Head & jambs	European Redwood *	90 x 32	510*
Stops	European Redwood *	44 x15	510*
Rebate	Single type	45 x 15	-
Threshold	Exitex Macclex 15/2 Weatherbar* screwed to Tulipwood* 90 x 32	62 x 15	-
Joints	Mortise & tenon	-	-
Adhesive	None	-	-

\* As stated by client, not checked by laboratory

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## Hardware

		Make/type	Size (mm)	Fixing details (dimensions in mm)
Hinges		Halspan H30 steel hinges (Ref. HIN-BSS-103/4)*	100 x 30	4No. 5 x 32 screws into frame 4No. 5 x 50 screws into leaf
Locking mechanism		Winkhaus (Ref. AV2-F 2070/45 92/8)*	20 wide	10No. 3 x 50 screws
Keeps	Upper & lower	Winkhaus (Ref. AV2 F24- 908WR/END MV1 FX4)*	175 x 38	4No. 3.5 x 25 screws
	Centre	Winkhaus (Ref. F24-908W R12 U RS)*	234 x 40	2No. 3.5 x 25 screws and 1No. 3.5 x 50 screw
Cylinder		Winkhaus (Ref. XR651)*	65 length	1No. M5 x 65 machine screws
Handle		Winkhaus Palladio quick fit lever 44 mm*	10 lever length	2No. M5 x 55 machine screws

\* As stated by client, not checked by laboratory

## Perimeter sealing details

	Make/type	Size (mm)	Location
Leaf Edges	None	-	-
Frame reveal	Halspan triple fin (Ref. SLS- TRI-100 series)*	6 blade length	On rebate upstand
Threshold	Exitex Macclex*	13 blade length	On rebate upstand
Seal continuity	Uninterrupted by hardware	-	-

\* As stated by client, not checked by laboratory

**BM TRADA provides independent certification, testing, inspection, training and technical services around the world.** We help customers large and small to prove their business and product credentials and to improve performance and compliance. With an international presence across many industry sectors, we offer a special focus and long history of technical excellence in supply chain certification, product certification and testing, and technical services to the timber, building, fire and furniture industries.



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