

Test Report

Sponsor:

Hansen Group Ltd
Greengate Industrial Park
Greenside Way
Middleton
Manchester
M24 1SW

CONFIDENTIAL

Report: BMT/MTP/F14173/01

Report on testing of a doorset to BS EN 1191

Issue date: October 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.

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

Results of Test: BMT/MTP/F14173/01

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Middleton
Manchester
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This document confirms that performance testing was conducted from 18 July 2014 to 28 July 2014. Testing was conducted to the following standards:

- BS EN 1191: 2000 Windows and doors resistance to repeated opening and closing.

The following results were achieved:

Product tested	TR1420 Hansen Millennium G40 Doorset (Outward Opening)		
Summary of testing procedure			Result
	Test Standard	Classification Standard	
Resistance to repeated opening and closing	BS EN 1191: 2000	BS EN 12400: 2002	Class 4 (50,000 Operations)

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



James Bacchus - Technical Officer

Vincent Kerrigan - Technical Manager
Issue date: 10th October 2014

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Technical specification

Report: BMT/MTP/F14173/01

Test For: Hansen Group Ltd, Greengate Industrial Park, Greenside Way, Middleton, Manchester, M24 1SW

Performance testing to BS EN 1191: 2000 was conducted on your doorset from 18 July 2014 to 28 July 2014. The technical specification is detailed below. The specimen was delivered to BM TRADA laboratory on 17 July 2014.

Description of construction

The specimen was identified as TR1420 Hansen Millennium G40 Doorset (Outward Opening). The overall frame dimensions were 1100mm wide x 2270mm high x 98mm deep and leaf dimensions were 1090mm wide x 2260mm high x 98mm thick. The specimen was locked with a removable key.

Door leaf

		Material/type	Dimensions (mm)
Stiles	Lock	Hansen profile System 42*	98 x 97
	Hinge	Hansen profile System 42*	98 x 52
Rails	Top	Hansen profile System 42*	98 x 56
	Bottom	Hansen profile System 42*	98 x 50
Rebate		Single type	96 x 22
Joints		Mitred and glued with 2No. 4.5 x 30 screws and 2No. Sapa (Ref. 187441)* cleats	-

* As stated by client, not checked by laboratory

Door frame

	Material/type	Dimensions (mm)
Head & jambs	Hansen profile System 42* aluminium profile with thermal break	98 x 35
Rebate	Single type	95 x 22
Threshold	Hansen profile System 42* aluminium profile with thermal break	118 x 20
Joints	Mitred and glued with 4No. 4.5 x 30 screws and 2No. Sapa (Ref. 190521)* cleats	-

* As stated by client, not checked by laboratory

Hardware

		Make/type	Size (mm)	Fixing details (dimensions in mm)
Hinges		4No. Lem Beslag A/S (Ref. 429423)* 3 point aluminium hinge	130 x 65	6No. M5 x 16 machine screws & 2No. 5 x 30 screws into frame 4No. M5 x 16 machine screws into leaf
Locking mechanism		Winkhaus (Ref. 60080/WH4999724)* 5 point lock	2080 x 24	13No. 4.3 x 30 screws
Keeps	Upper	2No. Winkhaus (Ref. 60081/WH2513352)*	260 x 24	4No. M4 x 20 machine screw
	Lower	2No. Winkhaus (Ref. 60081/WH2513352)*	260 x 24	4No. M4 x 20 machine screw
	Centre	Winkhaus (Ref. 60082/WH5007451)*	340 x 24	5No. M4 x 20 machine screws
Cylinder		ASSA ABLOY (Ref. RUKO)*	113 length	1No. M5 x 60 machine screw
Handle		Futura (Ref. 21131)*	125 lever length	2No. M5 x 20 machine screws

* As stated by client, not checked by laboratory

Perimeter sealing details

	Make/type	Size (mm)	Location
Leaf Edges	Hansen Profile System 42*	7 wide	On rebate upstand
	Hansen Profile System 42*	7 wide	Around perimeter of internal face of leaf
Frame reveal	None	-	-
Threshold	None	-	-
Seal continuity	Interrupted by hardware	-	-

* As stated by client, not checked by laboratory

Glazing for door leaf

	Make/type/size (mm)	Location (dimensions in mm)
Glass type & configuration	4 glass, 15 spacer, 4 glass, 15 spacer. 4 glass	-
Overall size	958 wide x 2182 high	-
Sight size	930 wide x 2140 high	-
Packers	2No. Mila (Ref. 94401)* 100 x 52 x 2 plastic packers	100 from all corners and at centres of stiles only
Gaskets	Hansen Profile System 42* 7mm TPE	Between glazing and beading
	Hansen Profile System 42* 3M tape GHB G23F	Between glazing and rebate upstand
Bead	Hansen Profile System 42* aluminium profile 19 x 18	Externally beaded
Bead Fixing	Push fitted into profile	-
Sealants	DOW CORNING 895*	Silicone backfill

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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