



CONFIDENTIAL

Report: Chilt/P09017/01

**Certificate report on the testing of an
access panel to EN 1634-3:2004
corrigendum 1**

Issue date: June 2009



committed to excellence

**Prepared for:
Fire Proofing Services Ltd
Evolution House
Aston Road
Nuneaton
CV11 5EL**

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Certificate of Test: Chilt/P09017/01

This certificate is awarded to:

Fire Proofing Services Ltd
Evolution House
Aston Road
Nuneaton
CV11 5EL

This document confirms that performance testing was conducted on 5 February 2009. Testing was conducted to the following standard:-


- BS EN 1634-3:2004 Corrigendum 1 Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware. Smoke control test for door and shutter assemblies tested under ambient temperature conditions

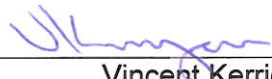
The following results were achieved

Product tested	AC40ACT access panel		
BS EN 1634-3:2004	Pressure (Pa)	Leakage (m ³ /h)	Leakage (m ³ /m h)
Results under positive chamber pressure (access panel opening into test rig)	10	0.0	0.0
	25	0.0	0.0
	50	0.1	0.03
BS EN 1634-3:2004	Pressure (Pa)	Leakage (m ³ /h)	Leakage (m ³ /m h)
Results under negative chamber pressure (access panel opening into test rig)	10	0.0	0.00
	25	0.1	0.03
	50	0.2	0.06

From Approved document B Fire safety, Doors should have a leakage rate not exceeding 3m³/m/hour (head and jamb only) when tested at 25Pa

The results relate only to the specimens tested, as detailed in technical specification document number Chilt/P09017/tec1


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Technical specification

No: Chilt/P09017/tec1

Test For: Fire Proofing Services Ltd, Evolution House, Aston Road, Nuneaton, CV11 5EL

Performance testing to EN 1634-3:2004 Corrigendum 1 was conducted on your access panel on 5 February 2009 and the technical specification is detailed below. The specimen was delivered to Chiltern Dynamics laboratory on 3 February 2009.

Description of construction

The specimen was identified as AC40ACT access panel. The overall frame dimensions were 950mm wide x 950mm high x 68mm deep. The door leaf dimensions were 896mm wide x 896mm high x 62mm thick. The specimen was closed with a DC24v, 500 Newton electronic actuator.

Frame (See Figure 1 for details)

	Material/type	Dimensions (mm)	Density (kg/m ³)
Head & jambs	Zintec steel profile 1.2mm thick	88 x 76	-
Rebate	Double type lock edge	64 x 50 24 x 62	-
	Double type hinge edge	64 x 50 14 x 62	-
Actuator bracket	Steel L section full height of hinge edge welded to stile	75 x 50 x 6	-
Cover plate	Welded around the perimeter	1.2 thick	-
Joints	Mitred at corners	-	-

* As stated by client, not checked by laboratory

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Door leaf (See Figure 1 for details)

		Material/type	Dimensions (mm)	Density (kg/m ³)
Core		Sheet of Lafarge Mega-Deco board fitted inside inner facing tray	12.5 thick	11*
		Mineral wool material (supplier product reference) with 1.2mm thick centre layer synthetic rubber E-Cousti membrane	48 overall thickness with 1.2 thick membrane layer	3*
Facings	Outer	0.9mm thick Zintec steel folded and welded into a tray	896 x 896	-
	Inner	0.9mm thick Zintec steel folded and welded into a tray	850 x 896 x 14 tray	-
Rebate		Closing edge single type	24 x 24	-
		Hinge edge single type	20 x 38	-
Stiles and rails		Pre formed top hat shaped stiffeners welded within panel	100 x 48 x 0.9	-
		Additional stile behind closing edge stile top hat shaped stiffener welded within panel (not shown on client drawing)	100 x 48 x 0.9	-
Lock edge filler profile (B.L.H on Figure 1)		0.9mm thick Zintec steel L section	60 x 24	-
Fixings		Inner facing panel was fixed 13No. self tapping screws at corners and 240 from corners along rails and 140 from corners on stiles with additional fixing mid of hinge stile	3.4 diameter x 24 long	-

* As stated by client, not checked by laboratory

Hardware

	Make/type	Size (mm)	Fixing details (dimensions in mm)
Hinges	Gold and Wassell piano hinge (Ref. 1628s)	34 x 1 x 850 blade size	Welded to access panel leaf and 3No M6 bolts with nuts and washers through frame
Locking mechanism	Industrial Devices Ltd DC 24v Actuator 500 Newton (Ref. IDM3, 24 DC, 500N)	450 x 40 x 100	2No M5 x 44 bolts through leaf into additional lock stile 4No M8 x 35 bolts a

Perimeter sealing details

	Make/type	Size (mm)	Location
Casement edges	None fitted	-	-
Frame reveal	2No Lorient white elastomeric comp. seal 'P' profile (Ref. AS1020/100007E4)	10 wide	Double width of seals on outer rebate upstand of frame
	Foam seal Gilbert Curry 6mm polyester air seal (Ref. LSP90)	8 wide	Inner rebate upstand of frame
Seal continuity	Seals uninterrupted by hardware	-	-

Figure 1 Cross section of access panel

