

# WINTECH

BUILDING ENVELOPE TESTING

## Test Report



2223

**Report No: R13372**

Some info obscured for  
commercial reasons

### Project

– Face Fix – cable restrictor

**Project Ref: 13372**

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Testing Conducted by: Wintech Engineering Limited  
Halesfield 2  
Telford  
Shropshire  
TF7 4QH

Test carried out at: Above address

Test carried out for:

Standards Specified: BS EN 14351-1:2006(as amended by in house document TP7)

Project No: 13372

Date of Testing 8<sup>th</sup> June 2013


Product Tested: – Face Fix – cable restrictor

Tests Performed: As listed in Section 5 – Test Procedures

Testing Conducted by: A Price Wintech Engineering Ltd

Report Compiled by: D Price 

Technical Approval:  
(Authorising Signatory)

M Wass   
Technical Director

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## 1. INTRODUCTION

This report describes testing conducted at the test laboratory of Wintech Engineering Ltd on a window

Testing was conducted on 8<sup>th</sup> June 2013 in order to determine compliance with the standards shown below.

BS EN 14351-1:2006      Windows and doors – Product standard, performance characteristics  
– Clause 4.8 as per in house procedure TP7

Wintech Engineering Ltd is accredited by the United Kingdom Accreditation Service as UKAS Testing Laboratory No. 2223 for this type of testing.

The restrictors were supplied fitted to a window , and mounted to the test rig or frame by Wintech Engineering Ltd.

## 2. DESCRIPTION OF TEST SAMPLE

**Name of product:** – Face Fix – cable restrictor

**Manufactured by:**

**Window Size:** 600 mm wide x 1000 mm high x 50 mm deep

**Window Material Type:** Aluminium

**Hardware Fixings:** Self-drilling stainless steel screws

See Appendix A for test sample drawing

### 3. TEST ARRANGEMENT

#### 3.1 TEST RIG

The window frames were mounted in 100 x 75 mm timber sub-frames in accordance with manufacturer's installation requirements. They were secured into the test rig which has been constructed to meet the requirements of the test specification.

Figure 1

Picture of Test Rig



#### 3.2 INSTRUMENTATION

3.2.1 A calibrated stop watch was used to measure/record time.

3.2.2 A digital data logger capable of measuring temperature with an accuracy of  $\pm 1^{\circ}\text{C}$  was used for temperature and RH with an accuracy of  $\pm 5\%$ .

3.2.3 Calibrated s-beam load cells were used with an accuracy of  $\pm 5\%$

All measurement devices, instruments and other relevant equipment were calibrated and traceable to National Standards.

### 4. TEST PROCEDURES

#### 4.1 Load-bearing capacity of safety devices

The window was operated so that the safety device to be tested was fully engaged. A load of **350 N** was then applied in the most unfavourable position and direction and was held for a period of **60 secs** as required by BS EN 14351-1:2006 and in house document TP7.

## 5. TEST RESULTS

### 5.1 Load-bearing capacity of safety devices

Following each test using the method in section 4, no damage was evident and the window continued to function correctly.

Table 1

Restrictor Type	Test Type	Result (350 N)
Face Fix Restrictor	BS EN 14351:2006 Clause 4.8	Pass

**These results are valid only for the conditions under which the test was conducted.**

Photograph No. 1

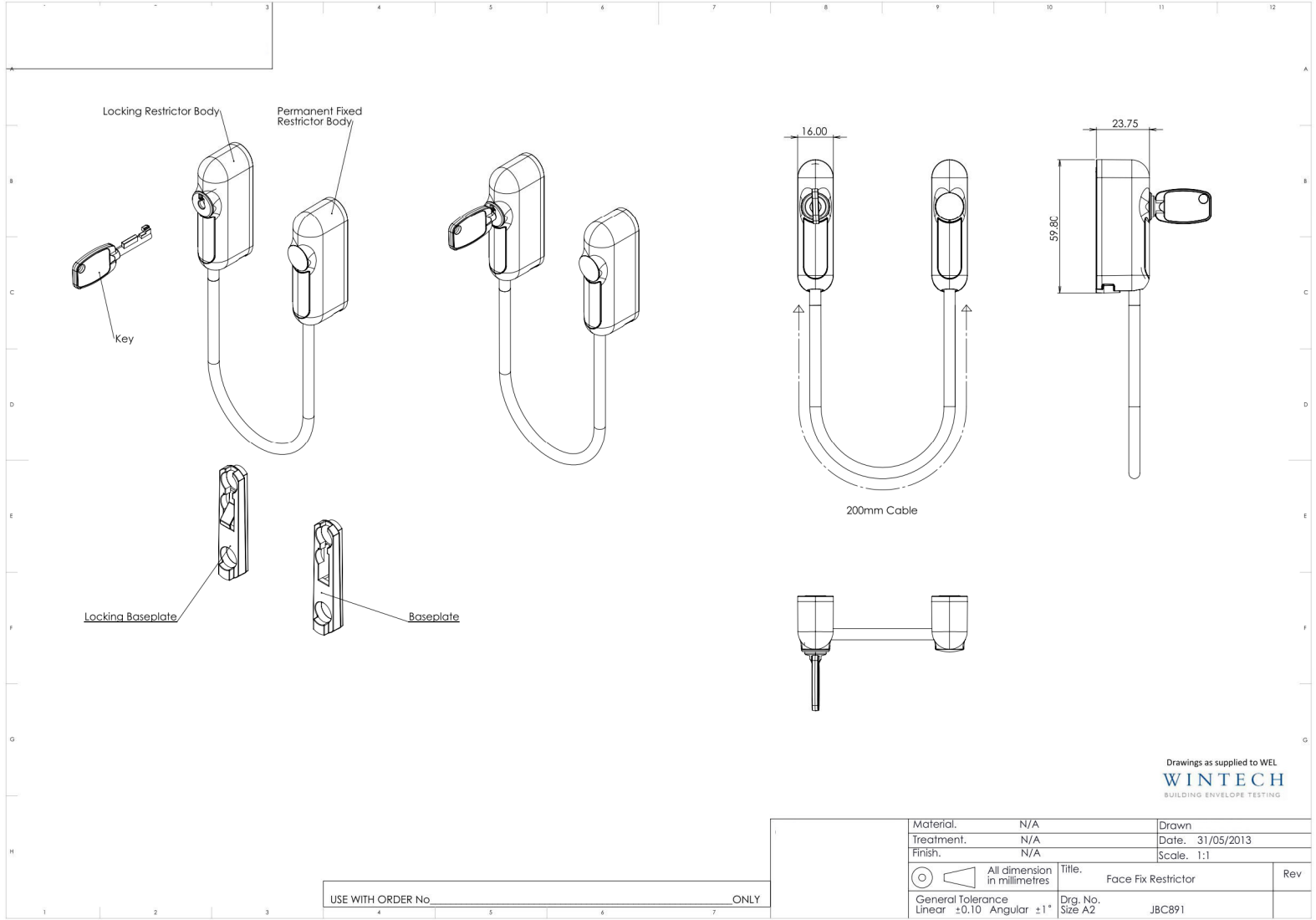


## **APPENDIX A**

**1 off drawing on 1 un-numbered page**



**Drawing Number**

JBC891



Drawings as supplied to WEL  
**WINTech**  
BUILDING ENVELOPE TESTING

USE WITH ORDER No. \_\_\_\_\_ ONLY

Material.	N/A	Drawn	
Treatment.	N/A	Date.	31/05/2013
Finish.	N/A	Scale.	1:1
  All dimension in millimetres	Title.		Rev
General Tolerance		Face Fix Restrictor	
Linear $\pm 0.10$ Angular $\pm 1^\circ$		Drg. No.	
		Size A2	
		JBC891	



**+++++ End of Report +++++**