

# TS 008:2022



**Test of: LP08-44-BSS-C Letter plate and cowl**

**Enhanced security and general requirements for letter plate assemblies and slide through boxes**

A Report To:  
Royde and Tucker Ltd  
Bilton Road, Hitchen. SG4 0SB

Document Reference:  
WIL 541380

**Date:** 23/04/2024

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**Issue No.:** 1

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## TEST CONCLUSIONS

Samples of:  
Manufacturer Royde and Tucker Ltd  
Product Letter plate and cowl  
Model LP08-44-BSS-C Letter plate and cowl

have been tested in accordance with: TS008:2022.  
By Element Materials Technology, a UKAS accredited Testing Laboratory (No. 0621)

At Unit 3 Wednesbury One, Black Country New Road, Wednesbury, WS10 7NZ.  
Results and comments as detailed below:

Clause No.	Description	Compliance
<b>4</b>	<b>Classification</b>	<b>Yes</b>
4.1	Product Type	<b>A</b>
4.2	Aperture type and location	<b>1</b>
4.3	Enhanced security level	<b>2</b>
4.4	Option to lock the letter plate to prevent delivery of mail	<b>N</b>
4.5	Corrosion	<b>4</b>
4.6	Water penetration	<b>N</b>
4.7	Fire resistance	<b>0</b>
4.8	Arson attack	<b>0</b>
<b>5.4</b>	<b>Strength test</b>	<b>Yes</b>
<b>5.5</b>	<b>Durability</b>	<b>Yes</b>
<b>7.3</b>	<b>Enhanced security</b>	<b>Yes</b>
7.3.4	Test A	<b>Yes</b>
7.3.5	Test B: Manipulation	<b>Yes</b>
7.3.6	Test C: Fishing	<b>Yes</b>
<b>9</b>	<b>Marking &amp; labelling</b>	<b>Yes</b>
<b>10</b>	<b>Installation instructions and fixing details</b>	<b>Yes</b>

No inferences can be made regarding performance against other requirements of this standard

Clauses 7.6, 7.7 and 7.8 are outside the Laboratory scope of UKAS accreditation.

Tests marked " N/A" are not applicable to the sample under test.  
Tests marked "N/T" were not applied to the sample under test

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## AUTHORISATION

Tests performed by:  
Chris Bryan, Door and Window Laboratory Manager

  
Signed

Date 22<sup>nd</sup> April 2024

For and on behalf of Element Materials Technology

Report issued by: Chris Bryan, Door and Window Laboratory Manager

  
Signed

Date 22<sup>nd</sup> April 2024

For and on behalf of Element Materials Technology

Report authorised by: Steve Wilkes, Deputy Business Unit Head

  
Signed

Date 22<sup>nd</sup> April 2024

For and on behalf of Element Materials Technology

Report issued: 23 April 2024



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### NOTE.

Testing carried out to TS008:2022 is covered by the Laboratory UKAS accreditation schedule. However clauses 7.6, 7.7 and 7.8 are not covered and deemed outside the scope of UKAS accreditation.

Tests marked "Not UKAS Accredited" are not covered by the Laboratory UKAS accreditation schedule.

Tests marked NT were not tested  
Tests marked NA are not applicable to the product on test.

The laboratory has tested the product supplied by the client as sampled in accordance with their own requirements

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## TEST DETAILS

### CLIENT DETAILS

Company name Royde & Tucker Ltd  
Address Bilton Road,  
Hitchin.  
SG4 0SB

Contact Simon Freeth

### ORDER DETAILS

Order number 61086  
Dated 15/01/2024

### SAMPLE DETAILS

Product Letter plate and cowl  
Model LP08-44-BSS-C  
Manufacturer As per client details  
Markings None  
Date of Manufacture December 2023  
Other information None

### TEST DETAILS

Test specification TS008:2022  
Full test No  
Test to clauses All clauses other than 7.6, 7.7 and 7.8

Sample received 30/01/2024  
Test started 30/01/2024  
Test completed 21/02/2024

Special Test requirements None

Other reports to be used in conjunction with this report None

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## TEST PROCEDURE

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Introduction	<p>This test report should be read in conjunction with the Standard TS008:2022 enhanced security and general requirements for letter plate assemblies and slide through boxes.</p> <p>The specimens were judged on their ability to comply with the performance criteria as required in TS008:2022.</p>
Instruction To Test	<p>Initial requirement was for a performance of bolt through fixings.</p>
Test Specimen Construction	<p>A description of the test construction is given in the Schedule of Components. The description is based on a detailed survey of the specimens and information supplied by the sponsor of the test.</p>
Installation	<p>The sample was supplied mounted within a Timber Test Block as per the requirements of TS008:2022.</p> <p>Mr Simon Freeth, a representative of Royde &amp; Tucker Ltd witnessed the test.</p>
Sampling	<p>The samples were not independently witnessed or selected and were provided direct from the test sponsor.</p>
Test Climate	<p>The sample was conditioned in the laboratory in the range 15-30 °C and 25-75% humidity.</p> <p>The temperature and humidity in the lab was maintained in the range 17.4-20.6°C and 38.7-60.8% humidity for the duration of the test.</p>

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## INITIAL OBSERVATIONS

**Sample prior to testing**



**Sample prior to testing**



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**Sample prior to testing**





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## TEST SPECIMEN

**Figure 1- General Elevation of Test Specimen (External Face)**

No drawings supplied by client

Do not scale. All dimensions are in mm

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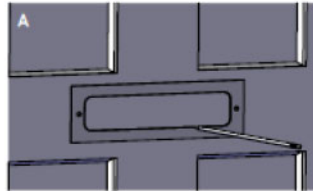
**Figure 2- Installation instructions**



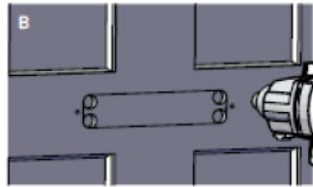
**ROYDE AND TUCKER - LP08 LETTERPLATE**

FOR DOORS MADE OF WOOD, COMPOSITE OR METAL - 43MM THICK  
 TS008 SECURITY TESTED LETTER PLATE - SEE INSIDE INTUMESCENT INFIL  
 FOR FULL TS008 CLASSIFICATION INFORMATION

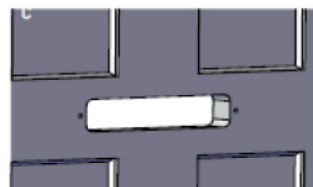
**DOOR MODIFICATION INSTRUCTIONS**



Tape the supplied template to the door ensuring it is properly aligned. (See Image A) Mark sleeve outline (270x60mm) and the fixing holes (Ø 8mm) This should normally be at an ergonomic height between 700mm to 1700mm from the floor and centrally positioned.



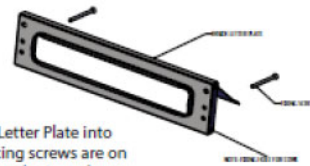
Drill out the corners of the slot using a 1" drill bit. ( see Image B) For the mounting holes use an 8mm drill bit the holes are 292mm apart.



Cut between the corner holes with a saw or router to open up the aperture as seen in image C.

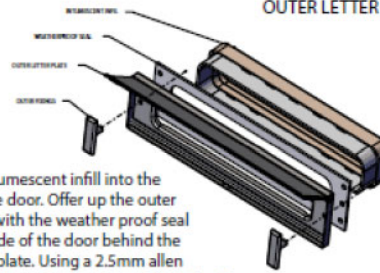
**LETTER PLATE ASSEMBLY INSTRUCTIONS**

**INNER LETTER PLATE**

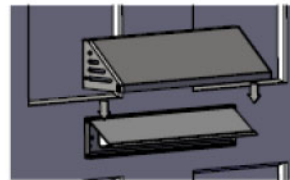


Assemble the Inner Letter Plate into position ensuring fixing screws are on the inside of the door. The inner letter plate has an additional screw hole on the side for fixing the cowl, make sure to place this on the inside of the door.

**OUTER LETTER PLATE**



Push the intumescent infill into the cutout in the door. Offer up the outer letter plate with the weather proof seal on the outside of the door behind the outer letter plate. Using a 2.5mm allen key tighten the screws on the inside of the door.



To fit the Security Cowl leave the inner screws loose, and then slide the cowl into place behind the inner letter plate. Once sitting in the correct position you can tighten the screws and put the side fixing screws in place.

Where a letter plate assembly or slide through box is fitted into a fire rated door or panel, it is essential that its fire rating is the same or higher than the surround into which it is fitted. When considering the scope of a letter plate with fire performance for inclusion in a fire doorset, the scope shall be limited to what is proven by test, including the generic fire resisting door type/thickness used, the height direction tested and shall remain specific to the test standard adopted.

TS008 compliant letter plates provide resistance against various methods of theft. for optimum protection, the letter plate should be installed in line with the test methods described in TS008

Royde and Tucker Ltd  
 Bilton Road, Hitchin  
 SG4 0SB Tel: 01462 444444

LP08 INSTRUCTION DOCUMENT V002 MARCH 2024

## SCHEDULE OF COMPONENTS

(Refer to Figures 1 to 3)  
(All values are nominal unless stated otherwise)  
(All other details are as stated by the sponsor)

### Variants

None

### Item

### Description

#### 1. Letter Plate

Supplier : Royde & Tucker Ltd  
Description : Letter plate  
Reference : LP08-44-BSS-C  
Overall size : 313 x 76 x 10 mm  
Aperture size : 250 x 40 mm  
Fixings  
i. type : Machine screw/wood screw  
ii. position : Centre of short edge/ bottom of short edge  
iii. size : M4 x 40mm machine screw/11/4" SS wood Screw  
iv. quantity : 2No. each type  
Finishes : Stainless steel

#### 2. Cowl

Supplier : Royde & Tucker Ltd  
Description : Cowl  
Reference : 132-036  
Overall size : 95 x 320 x 90 mm  
Fixings  
i. type : Pan head screw  
ii. position : Bottom of short edge  
iii. size : 8 x M4  
iv. quantity : 2  
Finishes : Stainless steel

## PERFORMANCE CRITERIA & TEST RESULTS

Clause	Requirement	Result	Class
4.1	<b>(1<sup>st</sup> Digit) Product type</b>  A = Without any remotely fitted security hardware B = With remotely fitted security hardware	<b>The sample was not supplied with a remotely fitted security hardware.</b>	<b>A</b>
4.2	<b>(2<sup>nd</sup> Digit) Aperture type</b>  1 = letterplate assemblies 2 = Slide through box	<b>The sample tested was a letter plate assembly.</b>	<b>1</b>
4.3	<b>(3<sup>rd</sup> Digit) Enhanced security level</b>  1 = resistance to thumb-turn manipulation 2 = resistance to thumb-turn manipulation and fishing	<b>The sample met the requirements of resistance to thumb-turn manipulation and fishing on a timber substrate only.</b>	<b>2</b>
4.4	<b>(4<sup>th</sup> Digit) Option to lock the letter plate to prevent delivery of mail</b>  N = No not lockable Y = Yes lockable	<b>The sample did not have a option to lock.</b>	<b>N</b>
4.5	<b>(5<sup>th</sup> Digit) Corrosion</b>  3 = 96 hours 4 = 240 hours 5 = 480 hours	<b>The sample was expose to 240H corrosion and met the requirements.</b>	<b>4</b>
4.6	<b>(6<sup>th</sup> Digit) Resistance to water penetration</b>  N = No performance determined Y = Pass	<b>No performance was determined.</b>	<b>N</b>
4.7	<b>(7<sup>th</sup> Digit) Fire Resistance</b>  0 = No Fire resistance 1 = Yes (Fire testing to either BS476- 22 or EN 1634-1)	<b>No performance was determined.</b>	<b>0</b>
4.8	<b>(8<sup>th</sup> Digit) Arson attack</b>  Grade 0 = No performance determined Grade 1 = Yes	<b>No performance was determined.</b>	<b>0</b>

## Test of Sample Fitted in Timber Test Block

Clause	Requirement	Result	PASS/ FAIL
5.1 Aperture dimensions,	Aperture Size Maximum size 260 x 40mm	250 x 40 mm	<b>PASS</b>
5.2 Gauge mail,	Gauge mail must push through aperture without folding or damaging gauge.	The gauge was able to be inserted	<b>PASS</b>
5.3 Self closing.	WAPT 271 229mm x 324mm x 24mm		
	Flap Must self-close after gauge posted	Yes	<b>PASS</b>
	Gauge mail must push through aperture without folding or damaging gauge.	The gauge was able to be inserted	<b>PASS</b>
	WAPT 272 138mm x 225mm x 20mm		
	Flap Must self-close after gauge posted	Yes	<b>PASS</b>
6.3.5 Test A	5 Envelopes were posted through the letter plate. Attacks were then made to try and retrieve the letters through the letter plate for 1 minute but were unsuccessful.		<b>PASS</b>
6.3.6 Test B: Manipulation Test	Attacks were made to try and remove the external letter plate using the screwdrivers. The external flap was able to be removed. Attacks were then used to try and impact the internal cowl with the screwdrivers to try and remove and then attempt to bend up the central point. Total attacks time was 3 minutes, but entry was not achieved.		<b>PASS</b>
6.3.7 Test C: Fishing Test	Attacks were made to try and remove the external letter plate using the screwdrivers. The external flap was able to be removed. Attacks were then used to try and impact the internal cowl with the screwdrivers to try and remove and then attempt to bend up the central point. Total attacks time was 3 minutes, but entry was not achieved.		<b>PASS</b>

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## Test of Sample Fitted in PVC Test Block

The letter plate was not tested in a PVC substrate.

## Test of Sample Fitted in Composite Test Block

The letter plate was a bolt through product and did not require testing in a composite test block.

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Clause	Requirement	Result	PASS/ FAIL
4.4 Option to Lock	This shall be confirmed by visual inspection if the delivery of mail is prevented by optional locking devices. N = Not lockable  Y = Yes lockable	Not lockable	N
4.5 Corrosion resistance	The letter box shall be tested in accordance with EN 1670, and achieve the following grade:  3 = 96 hrs 4 = 240 hrs 5 = 480 hrs  Fore post-test should be less than 8N	The sample was exposed to 240H corrosion resistance. After the exposure period the sample continued to operate correctly with a force of 4.2N to operate the internal letter plate and 4.5N on the external cowl	4
4.6 Water penetration	The letter box shall be tested in accordance with EN 13724 clauses 5.6.2 & 6.6.2.  N = No performance determined Y = Pass	No evidence supplied by client.	N
5.4 Strength Test	Sample meets the requirements of EN 13724 clause 6.7.6.2 Fixings with a load of 0.5kN held for 10 seconds  Fore post-test should be less than 8N	Load applied to left fixing  506N  Load applied to Right fixing  492N  3.0N on both the internal and external flap	PASS
	Sample meets the requirements of EN 13724 clause 6.7.6.3 Flap with a load of 0.5kN held for 10 seconds  Fore post-test should be less than 8N	Load applied to left pivot  Internal 507N External 506N Load applied to Right pivot.  Internal 498N External 498N  3.0N on both the internal and external flap	PASS

Clause	Requirement	Result	PASS/ FAIL
5.5 Durability Test	Minimum durability shall be 20,000 cycles.  Fore post-test should be less than 8N	Internal flap  20,000 cycles  External Flap  20,000 cycles  3.1N internal, 3.0N external	<b>PASS</b>
7.7 Fire resistance	Testing shall be in accordance with BS-476-22, EN 1634-1, EN1624-2  0 = No fire resistance  1 = Yes	No evidence supplied by client.	<b>0</b>
7.8 Arson Attack	Grade 0 = No performance determined  Grade 1 = Yes	No evidence supplied by client.	<b>0</b>
9 Marking & labelling	The label should preferably be fitted on the inside face of the letter plate. If it is not possible to locate it in this position, the fitting instructions will detail the location of the label. The tamper evident label shall be fitted at source of manufacture, not despatched separately.	The label was fitted to the internal face of the cowl. The location of the sticker differed from the requirements of TS008, location was stated on the fitting instructions.  The label supplied had the correct information.	<b>Pass</b>
10 Installation instructions & fixing details	Each letter plate assembly shall be supplied with full installation instructions; alternatively, instructions may be provided via a website, provided that a link to the appropriate location is included with the assembly.	Instructions supplied which includes the correct details.	<b>Pass</b>



## CONCLUSIONS

**Evaluation against objective** The letter plate/Slide through box as provided by the client was subjected to testing in accordance with TS008:2022 Enhanced security and general requirements for letter plate assemblies and slide through boxes

The following classification was achieved:

**| A | 1 | 2 | N | 4 | N | 0 | 0 |**

**Observations & comments** The sample is only suitable to be supplied in a timber substrate.

## LIMITATIONS

**Limitations** The results relate only to the behaviour of the specimens of the element of construction under the particular conditions of test. They are not intended to be the sole criteria for assessing the potential performance of the element in use, nor do they reflect the actual behaviour in use.

**Uncertainty of Measurement** The uncertainties of measurements calculated for a confidence level of 95% throughout these tests are within the limits of these tolerances.

- Mass in kilograms or grams (kg or g): +/- 5%
- Length in millimetres (mm): +/- 2%
- Force in kilonewtons of newtons (kN or N): +/-2%
- Torque in newton metres (Nm): +/-5%
- Time in seconds (s): +/-10%
- Temperature in degrees Celsius (°C): +/-2°C

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## REVISION HISTORY

This issue of the report replaces all previous issues that are now withdrawn.

Issue No :	Re - Issue Date :
Revised By:	Approved By:
Reason for Revision:	

**END OF REPORT**

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