

Test report

Test report relating to a building product according to BSI Standard PAS 24:2016, enhanced security performance requirements for door sets and windows in the UK.

Report number	89211536-40
Date	11th April 2017
Author(s)	P. Fradley
Client	Lacuna A/S Industrives 2 5550 Langeskov Denmark
Project number	89211536-40
Project name	ERCT 0139-1 PAS24:2016 Type Test
Number of pages	12

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1 Introduction

1.1 Purpose

The tests have been performed in order to establish whether or not the building product meets the applicable requirements of BSI Standard PAS24.

For this test report, the test results from ERCT “89211536-40 ERCT 0139-1 PAS24-2016 Lacuna Type Test report” [2], dated 11th April 2017, have been used.

1.2 Description of the samples

General

Name of the manufacturer	Lacuna A/S
Address of the manufacturer	Industrives 2 5550 Langeskov Denmark
Production plant of the samples	As above
Line ID where the samples are made	No information supplied
Production date	2 nd March 2017
The product was marked as	Lacuna A/S Bi-folding door
Dimensions of the sample(s)	1795mm x 2018mm

Specific

Product description	Timber 3-pane Bi-folding door
Type(s) of construction	Mahogany dowels (10mm x 100mm) & glued
Profile references	Outer frame (90 x 116mm) Sash (72 x 78mm) Threshold (36 x 116mm).
Origin of materials/type(s) of material	Denmark, Heat treated beech timber and mahogany threshold, aluminium head section on track.
Surface treatment of materials	Painted white

Types of windows	Family Leader name (representative test specimen - most unfavourable)	Maximum sold size (width x height)
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Types of doors	Family Leader name (representative test specimen - most unfavourable)	Maximum sold size (width x height)
Bi-Folding door	Lacuna Primetime Bi-fold	6000mm x 280mm

2 Test results

Test results after performing all applicable tests according to BSI standard PAS24 [1].

The ambient temperature at the time of the test was 18.7°C.

To claim conformity to this PAS, doorsets and windows shall be classified according to their intended use for all relevant characteristics in accordance with BS 6375 (all parts) and shall meet the relevant requirements of the relevant material specific standard such as BS 7412, BS 4873, BS 6510, BS 8529 and BS 644.

To claim conformity to this PAS, doorsets shall meet the requirements of **4.2, 4.3, 4.4** and Annex A of this PAS and either Annex B or BS EN 1627, RC3. (For further notes, see clause **4.1.2** of this PAS)

2.1 Summary doorsets

Requirement/test	Annex/paragraph	Result
Security hardware and cylinder test	Annex A	pass
Letter plate test	4.3	not applicable
Manual check test	Annex B.4.6.	pass
Additional mechanical loading test	Annex B.4.7.	not applicable
Mechanical test on infill	Annex B.4.4.3	pass
Manipulation test	Annex B.4.3	pass
Manual cutting test	Annex B.4.4.4	pass
Mechanical loading test a)	Annex B.4.5	pass
Mechanical loading test b)	Annex B.4.5	pass
Manual test on infill	Annex B.4.4.2	pass
Soft body impact test	Annex B.4.8	pass
Hard body impact test – door leaf	Annex B.4.9.2.2	pass
Hard body impact test – Infill medium	Annex B.4.9.2.3	not applicable

To claim conformity to this PAS, windows shall meet the requirements of **4.2, 4.3** and **4.4** AND either Annex C or BS EN 1627, RC2N.

2.2 Summary windows N/A

2.3 Detailed test results

Requirement/test	Detailed requirement	Inspected/measured	Result
Security hardware and cylinder test	Attempt to gain entry	No entry gained	pass
Manual check test	Explore weaknesses and vulnerabilities	No entry gained	pass
Mechanical test on infill	Apply a specified sequence of loads on infill medium	No entry gained	pass
Manipulation test a)	Attempt to gain entry	No entry gained	pass
Manual cutting test	Attempt to gain entry	No entry gained	pass
Mechanical loading test	Apply a specified sequence of loads	No entry gained	pass
Manipulation test b)	Attempt to gain access to fixings after mechanical loading has been conducted	No entry gained	pass
Manual test on infill	Attempt to gain entry	No entry gained	pass
Soft body impact test	Apply a specified sequence of loads on infill & profile	No entry gained	pass
Hard body impact test – door leaf	Apply a specified sequence of loads on profile	No entry gained	pass

2.4 Classification

Requirement	Classification
Doorsets meeting the requirements of Annex B using the entry definition in 3.9	D

NOTE 1: For doorsets and windows conforming to BS EN 1627 similar classifications apply. See reference clause 4.4.3 of this PAS.

NOTE 2 : It should be noted that the annexes within this PAS and BS EN 1627 only form part of the route to conformity and the classifications specified in 4.4 of this PAS is only based on part of the route.

Test data

Date of test	10 th April 2017
Test equipment	T 27 Security test rig ref PAS 24 testing
Test Report	ERCT 0139-1 Lacuna PAS 24 10 04 17.xlsx

3 Conclusion

The tested product **Lacuna Primetime Bi-fold** as described under 1.2, Description of the samples, meets the applicable requirements of BSI standard PAS24 [1].

The test results exclusively relate to the specific range of tested objects and the conditions under which the tests were conducted.