Test Report



Report No

2370/7690133/1 of 2

This Report consists of 8 pages

Client

Maco Door & Window Hardware Castle Road Sittingbourne Kent ME10 3LY

Authority & date

Request by Client dated 25 May 2011

Items tested

3 off PVC-U windows, Internally Glazed Casement Window Systems

Specification

BS EN 14351 : 2006 Windows and doors – Product standard, performance characteristics Part1:Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics BS EN 14609 : 2004 Windows – Determination of the resistance to static torsion

INSERT.

CLAUSÉ 4.8 IDAD BEARING CAPACINY OF SAFESY DEVICES

Results

Pass

Prepared by

D Kirsop

D (---

(Senior Technician)

Authorized by

M Manito

M. Mato

(Senior Engineer)

Issue Date

13 July 2011

Conditions of issue



This Test Report is issued subject to the conditions stated in current issue of CP0322 'General conditions relating to acceptance of testing'. The results contained herein apply only to the particular sample's tested and to the specific tests carried out, as detailed in this Test Report. The issuing of this Test Report does not indicate any measure of Approval, Certification, Supervision, Control or Surveillance by BSI of any product. No extract, abridgement or abstraction from a Test Report may be published or used to advertise a product without the written consent of the Managing Director, BSI, who reserves the absolute right to agree or reject all or any of the details of any items or publicity for which consent may be sought.

TEST AND EXAMINATION OF THREE PVC-U WINDOWS SUBMITTED FOR ASSESSMENT

INTRODUCTION

At the request of Maco Door & Window Hardware, the PVC-U windows detailed on page 4, were tested and assessed to the requirements of BS EN 14609: 2004 Windows – Determination of resistance to static torsion, as indicated on the following pages of this Report. This request was made by BSI Quotation referenced BSI0000306982 dated 25 May 2011. It is emphasized that assessments have not been made against the other Clauses of the Specification.

TEST SAMPLES

1 off projecting side hung next to projecting side hung window (sample1)

1 off projecting top hung window (sample 2)

1 off Tilt/turn window (sample 3)

(Equipment Record No 10124638)

Date samples received: 10 June 2011

Date of test: 17 June 2011

Laboratory temperature: 18.5 °C

Laboratory Humidity: 53.5%

Atmospheric pressure: 101.1

•

DESCRIPTION OF SAMPLE (Sample 1)

Sample type - Projecting side hung next to projecting side hung

Material - PVC-U

Construction - Mitred, welded and grooved joints

Friction stays: 12" side hung stays

Locking: an six point locking (six mushroom bolts)

Maco R.A.I.L espagnolette system operated

by a key lockable handle

1 off Restrictor

Glass -

Double glazed, 4-20-4mm toughened glass sealed unit

Glazing system -

Internal beads and gaskets

Sample dimensions -

For information only (nominal sizes)

Overall size

Length: 1400mm Height: 1500mm

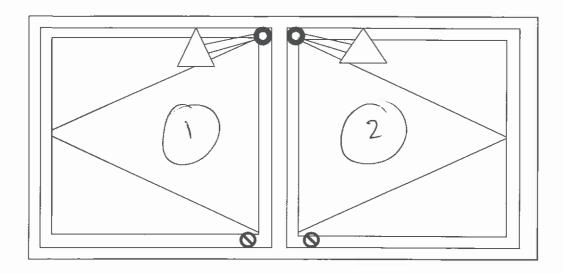
Sash size (each sash)

Length: 650mm Height: 1420mm

SASH 1 - MACO ANTO LATER RESIRICTOR

SASH 2 - MALO LAMINAIED, 8213 RESTRICTOR

SUMMARY OF RESULTS (Sample 1)



- The test specimen was opened and closed 5 times before test then opened to engage restrictor ready for the 350N force to be applied.
- A second load of 500N was put onto the restrictor at the clients' request
- The same test sequence was performed on the second opening light
- Position of eyebolt attachment
- Position of restrictors
- Direction of loads labelled by arrows
- Window had no permanent damage after test.

Pass

DESCRIPTION OF SAMPLE (Sample 2)

Sample type -Projecting top hung

Material -PVC-U

Construction -Mitred, welded and grooved joints

Fittings -Friction stays: 12" top hung stays

> Locking: an six point locking (six mushroom bolts)

Maco R.A.I.L espagnolette system operated

by a key lockable handle

1 off restrictor

Glass -

Double glazed, 4-20-4mm toughened glass sealed unit

Glazing system -

Internal beads and gaskets

Sample dimensions -

For information only (nominal sizes)

Overall size

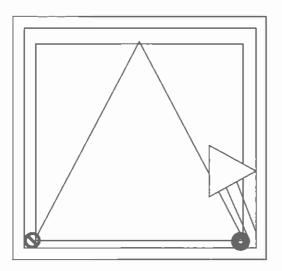
Length: 1000mm Height: 970mm

Sash size

Length: 935mm Height: 905mm

1st liest RH - MACO AUTOLATEM RESTRICTOR 2nd lest LH - MACO LAMINATED 8213 RESTRICTOR

SUMMARY OF RESULTS (Sample 2)



- The test specimen was opened and closed 5 times before test, then opened to engage restrictors ready for the 350N force to be applied.
- A second load of 500N was put onto the restrictor at the clients' request
- Position of eyebolt attachment •
- Position of restrictor **O**
- Direction of load labelled by arrow
- Window had no permanent damage after test.

Pass

DESCRIPTION OF SAMPLE (Sample 3)

Sample type - Tilt/turn

Material - PVC-U

Construction - Mitred, welded and grooved joints

Fittings - Locking: an eight point locking (eight mushroom bolts)

Maco tilt/turn gearing operated by a key

lockable handle

IXMALO MULTI-VENT RESTRICTOR

Glass - Double glazed, 4-20-4mm toughened glass sealed unit

Glazing system - Internal beads and gaskets

Sample dimensions - For information only (nominal sizes)

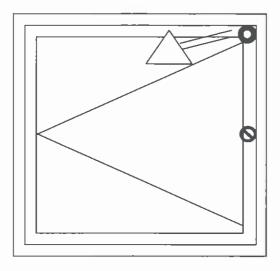
Overall size

Length: 1000mm Height: 1800mm

Sash size

Length: 925mm Height: 1725mm

SUMMARY OF RESULTS (Sample 3)



- The test specimen was opened and closed 5 times before test then opened to engage restrictor ready for the 350N force to be applied.
- A second load of 500N was put onto the restrictor at the clients' request
- Position of eyebolt attachment
- Position of restrictor **O**
- Directions of load labelled by arrow
- Window had no permanent damage after test.

Pass

END OF REPORT