bsi.

Test Report 3693775.

FrameXpress Limited



Introduction.

This report has been prepared by Errol Creary and relates to the activity detailed below:

Job/Registration Details		Client Details
Job number: Job type: Start Date: Test type: Sample ID: Registration: Scheme: Protocol: Scheme Mgr:	3693775 Testing Samples Submitted 01/06/2022 Audit retest 10203350 KM 505192 BS 7412 / PAS 24 PP 519 Lorraine Balch	FrameXpress Limited Unit A1 - A5 Haybrook Industrial Estate Halesfield 9 Telford TF7 4QW United Kingdom

The report has been approved for issue by David Vinyard – Senior Test Engineer

Approved For Issue	
Digerel	Issue Date: 10 June 2022

Objectives.

Retest for product certification

Product Scope.

Profile 22 PVC-U window

Report Summary.

The sample was received on 18 May 2022 and the testing was started on 9 June 2022.

The sample submitted complied with the requirements of the test work conducted.

This report refers to the failure highlighted in BSI Service Management Order 3375198.





PAS 24:2016 Audit.

Product Description.

1 off projecting side hung next to fixed window

(Sample ID No: 10203350)

Date Sample Received: 18 May 2022

Test Results.

1.	Manipulation Test A	Previously assessed
2.	Infill Removal (Mechanical)	Previously assessed
3.	Mechanical Loading	The test sample met the requirements of the Specification in respect of Clause 4.5
4.	Manipulation Test B	The test sample met the requirements of the Specification in respect of Clause 4.3
5.	Infill Removal (Manual)	The test sample met the requirements of the Specification in respect of Clause 4.4

Clause 2 Sample Selection.

The sample submitted for tests was selected by the Client on behalf of BSI.

Assessment.

The assessment of the test sample followed the sequence detailed in Scheme Document PP519.

Clause 3 Test Apparatus and Sample Mounting.

The test apparatus used for the manual and mechanical tests is shown in figure 2 of this report. This apparatus meets the requirements of the Specification.

The test sample was submitted for test mounted in a 50×100 mm timber subframe in accordance with the manufacturer's installation requirements. The test sample was manufactured by the client.

The results within this test report are valid only for the conditions under which the testing was carried out, and only for the specified products.





Description of Sample. (Security)

Sample type - Projecting side hung next to fixed window

Material - PVC-U

Construction - Mitred, welded and grooved

Fittings - 300mm Cotswold side hung stays

A six-point locking Yale espagnolette system (four mushroom bolts and two shoot

bolts) operated by a key locking handle

2 off pairs of hinge protectors

1 off run up blocks

1 off pair of cavity closing wedges

Classification W

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

Glazing System - Internal beads and gaskets

Weathersealing - Double-sealed plastic weather strip

Sample Dimensions - For information only (nominal sizes)

Overall Size - Length: 1200mm Height: 1200mm Sash Size - Length: 560mm Height: 1140mm





Description of Sample.

Created By: mark Last Saved By: jim Printed By: jim

Customer Details FRAMEXPRESS LTD

Job No: J2228323 Batch No: 1232 Ref: BSI Sample

Date Printed: 28 April 2022 11:20 Date Job Required: 15 March 2022 Required Week: 10

Load Code: 2211W2 Window No: 1 of 1 Location: Window 1

System
Group
Outer Frame
Casement Sash
Transom/Mullion
Reinforcement
Main Handles
Main Hinges
Main Lock
Profile 22 - OPTIMA
White - Sculp Casement
(02) 60mm Outer White
(30) 75mm T Sash - White
Std T/M White
Std Window Rein
Inline - WHITE
Std + Egress Easy SH
Yale Shootbolt

Main Lock Yale Shootbolt
Drainage CONCEALED
Finish1 White
Finish2 Sculpture

Bead 28mm Sculpture Bead White Bead 28mm Sculptured Bead White

Gasket Pre Gasketed

Glass Type 4 Clear Tgh/20/4 Ecopane Tgh Black Warm Edge Argon

Reinforcement: Std Window Rein

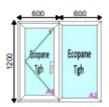
Frame Weight: 38.14kg

Sash Extras:

CONTRACT REVIEW [....] HANGING [....]
CUTTING [....] BEAD [....]
ROUTING [....] FINAL INSPECTION [....]
WELDING [....] RE-WORK [....]
SASH PREP [....]

P/Code Short Code Position Description Qty Len1 Len2 Cut/ [A1] T/Outer [A2] T/Outer QS02 QS02-WH (02) 60mm Sculpture Outer White 605w QS02 QS02-WH (02) 60mm Sculpture Outer White 605w QS02 QS02-WH (02) 60mm Sculpture Outer White [A1] B/Outer 605w [A2] B/Outer [A1] L/Outer 605w QS02 QS02-WH (02) 60mm Sculpture Outer White QS02 QS02-WH (02) 60mm Sculpture Outer White 1205h QS02 QS02-WH (02) 60mm Sculpture Outer White [A2] R/Outer 1205h QS30 QS30 (30) 75mm T Sculpture Sash White (30) 75mm T Sculpture Sash White OS30-WH Multiple 571w QS30-WH Multiple 1144h [A1] Z/Mullion Multiple QS11-WH (11) 66mm Z Sculpture T/M White QS11 1217h 1151h QX30/0.50 QX30/1.00 AEQR10S/3 QS50 QX30 RCM Cut @ 500mm QX30 RCM Cut @ 1000mm ANG Steel Reinf Shape 31x12 421w 994h Multiple Multiple ^0] R/TM 28mm Sculptured Bead White Multiple 6240mm [A1] Misc [A1] Misc ScrewPack Misc Screw Pack 7520.776 70mm Corner Protector ***** GLASS UNITS *****
OPTIMA Clip Fit Bridge Packer
Total MK3 Inline 35 WHITE [A1] Misc [A1] Misc XGU 7722.11 MK3IL-35/WHA [A1] Handle SP312EZC SG035 Cotswold Egress E/Clean SH 12" GT Stay Guard (Frame) [A1] Hinge [A1] Hinge S EASY 12C

Works Details



Basic Frame Size: 1200w x 1200h

1 - 1200w x 1200h Viewed Outside Style No: 16 'A' Rated





Description of Sample. Continued

Printout: Works Details - Customer: FRAMEXPRESS LTD - Job No: J2228323 - Location: Window 1

D/Code		Short Code Resition Oty Size	Description	
S	S	Sculpture	Finish 1	[
W	WH	White	Finish 1	[
YWK648		Yale Combi Corner Keep OPTIMA RH	[A1] Lock 1	[
YWK448	l-19	Yale Combi Corner Keep OPTIMA LH	[A1] Lock 1	[
YWK248	l-19	Yale Mushroom Keep OPTIMA	[A1] Lock 2	[
YWR4-0		Yale Shootbolt Ext Rod 4 (970-1120)	[A1] Lock 2	[
YSGE72	2-19	Yale Gearbox 22 BS 7.7 Cam (Ext)	[A1] Lock 1	[
SS02		GT Sash Seal Wedge White (Frame)	[A1] Hinge 1	[
SS01		GT Sash Seal Spring (Sash)	[A1] Hinge 1	[
QM01		Riser Block White	[A1] Hinge 2	[
SG035		GT Stay Guard (Sash)	[A1] Hinge 2	[

 P/Code
 Short Code
 Position
 Qty
 Size
 Description

 T4C/20/T4ECOBWEArgon T4C/20/T4ECOBWEArgon
 Pane:A1(S)
 1
 448x 1021
 4 Clear Tgh/20/4 Ecopane Tgh Black Warm Edge Aur Edg



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Test Results.

Performance Requirements

Assessment

Clause 4.3 Manipulation Test A

Previously assessed

Clause 4.4 Infill Medium Removal Test

Clause 4.4.2 Manual Test

The sample was mounted vertically in the test rig as described in Clause 3.

The sample was assessed using the tools specified in A.2.1 Group A and A.2.2 Group B.

A craft knife was used to cut holes in the outside of the profile and a 6mm chisel was used to attempt to remove the internal beads.

No entry gained within the time allowed.

Pass

Date of test – 9 June 2022 Test engineer(s) – E Creary and D Vinyard Laboratory temperature – 20.7°C

Clause 4.4.3 Mechanical Test

Previously assessed

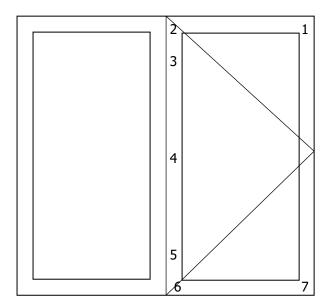


Clause 4.5 Mechanical Loading Test

The sample was mounted vertically in the test rig as described in Clause 3.

The test was carried out in accordance with the procedures detailed in Clause 4.5.2 using the apparatus detailed in Clause 3.

Diagram of load points



C.4.5.2 Loading Procedure

First Sequence

Point of application of load

1 - Hinge / Hinge Protector (right head)

Standard loading case used: 1 / 8

Load applied in plane: 1.0kN along the edge in the direction to disengage the hinge protector

Load applied perpendicular to plane: 3.0kN applied for ten seconds

Load applied in plane: 1.0kN towards the opposite stay

Load applied perpendicular to plane: 3.0kN applied for ten seconds





C.4.5.2 Loading Procedure (Continued)

First Sequence (Continued)

Point of application of load

2 - Corner / Shoot Bolt (mullion head)

Standard loading case used: 5 / 6

Load applied in plane: 1.0kN along the edge in the direction to disengage the bolt

Load applied perpendicular to plane: 3.0kN applied for ten seconds

Loads applied in plane: 1.0kN at right angles to the edge and towards the opposite edge

Load applied perpendicular to plane: 3.0kN applied for ten second

3 - Mushroom Bolt (upper mullion)

Standard loading case used: 7

Load applied in plane: 1.0kN along the edge in the direction to disengage the bolt

Load applied perpendicular to plane: 3.0kN applied for ten seconds

Loads applied in plane: 1.0kN at right angles to the edge and towards the opposite edge

1.0kN at the mullion to oppose the above load

Load applied perpendicular to plane: 3.0kN applied for ten seconds

4 - Mushroom Bolt / Mushroom Bolt (centre mullion)

Standard loading case used: 7 / 7

Load applied in plane: 1.0kN along the edge in the direction to disengage the bolt

Load applied perpendicular to plane: 3.0kN applied for ten seconds

Load applied in plane: 1.0kN along the edge in the direction to disengage the bolt

Load applied perpendicular to plane: 3.0kN applied for ten seconds

Loads applied in plane: 1.0kN at right angles to the edge and towards the opposite edge

1.0kN at the mullion to oppose the above load

Load applied perpendicular to plane: 3.0kN applied for ten seconds





C.4.5.2 Loading Procedure (Continued)

First Sequence (Continued)

Point of application of load

3 - Mushroom Bolt (lower mullion)

Standard loading case used: 7

Load applied in plane: 1.0kN along the edge in the direction to disengage the bolt

Load applied perpendicular to plane: 3.0kN applied for ten seconds

Loads applied in plane: 1.0kN at right angles to the edge and towards the opposite edge

1.0kN at the mullion to oppose the above load

Load applied perpendicular to plane: 3.0kN applied for ten seconds

6 - Corner / Shoot Bolt (mullion sill)

Standard loading case used: 5 / 6

Load applied in plane: 1.0kN along the edge in the direction to disengage the bolt

Load applied perpendicular to plane: 3.0kN applied for ten seconds

Loads applied in plane: 1.0kN at right angles to the edge and towards the opposite edge

Load applied perpendicular to plane: 3.0kN applied for ten seconds





C.4.5.2 Loading Procedure (Continued)

Assessment

First Sequence (Continued)

Point of application of load

7 - Hinge / Hinge Protector (right sill)

Standard loading case used: 1 / 8

Load applied in plane: 1.0kN along the edge in the direction to disengage the hinge protector Load applied perpendicular to plane: 3.0kN applied for ten seconds

Load applied in plane: 1.0kN towards the opposite stay

Load applied perpendicular to plane: 3.0kN applied for ten seconds

No entry gained Pass

Date of test – 9 June 2022 Test engineer(s) – E Creary and D Vinyard Laboratory temperature –20.7°C

C.4.3 Manipulation Test B

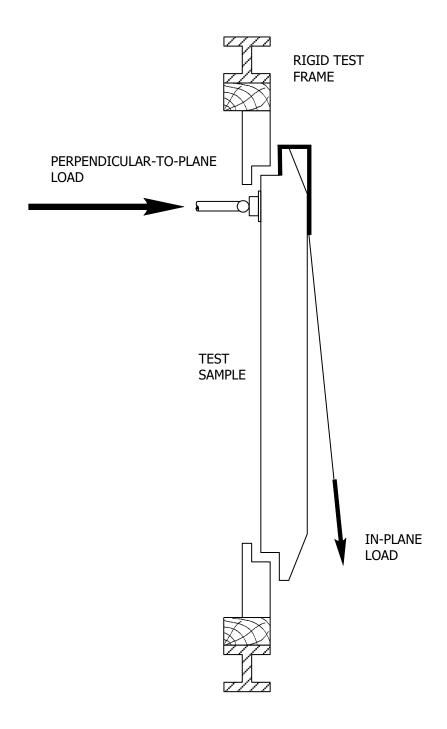
Screws were exposed on both the hinge protectors; they were both removed but was unable to open the window with sufficient force applied

Date of test – 9 June 2022 Test engineer(s) – E Creary and D Vinyard Laboratory temperature – 20.7°C

Pass



Figure 2.





Photograph of Sample.





Test Sample.

Sample Id	ER Number	Description
1	10203350	PVC-U window

Description of Test Sample.

Sample Description	
	1 off projecting side hung next to fixed window

Test Requirements.

PAS24 audit retest

Clause	Requirements
Results table	PAS24 audit retest

Glossary of Terms.

PASS: Complies. Tested by BSI engineers at BSI laboratories.

PASS1: Complies. Witnessed by BSI engineers in manufacturers laboratory.

PASS2: Complies. Tests carried out by third party lab; results accepted by BSI.

PASS*: Report resulted in uncertainty and states that Compliance is more probable than non-compliance.

FAIL: Non compliance – Product does not meet the requirements of this clause.

FAIL*: Report resulted in uncertainty and states that Non-compliance is more probable than compliance.

N/A: Not applicable to design under consideration.

N/T: Not tested due to similarity to previously tested item; reference earlier test report.





Conditions of Issue.

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*** End of Report ***