Test Report



Report No 2370/7782492 This Report consists of 18 pages

Client **Smart Systems Limited** Arnolds Way

Yatton **BS49 4QN**

Request by client dated 20 December 2011 Authority & date

Items tested 4 off Aluminium windows, Smart Systems Alitherm 600 Internally Glazed

Casement Window Systems

Specification BS 7950:1997 Specification for enhanced security performance of

casement and tilt/turn windows for domestic applications

Results **Pass**

(Senior Technician) Prepared by D Kirsop

D. Marito (Senior Engineer) Authorized by M Manito

Issue Date 08 February 2012

This Test Report is issued subject to the conditions stated in current issue of CPO322 '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.

Conditions of issue

TEST, EXAMINATION AND ASSESSMENT OF FOUR ALUMINIUM WINDOWS, SMART SYSTEMS ALITHERM 600

INTRODUCTION

At the request of the client the Aluminium windows, detailed below and described on pages 4 and 11, were tested and assessed to the requirements of BS 7950:1997 Specification for enhanced security performance of windows for domestic applications incorporating Amendments 14289 and 15666, as indicated on the following pages of this Report. This request was made on Quotation No BSI0000360080 dated 20 December 2011. It is emphasized that assessments have not been made against the other Clauses of the Specification.

TEST SAMPLE

2 off projecting side hung next to projecting side hung windows (Sample 1)

2 off projecting top hung windows (Sample 2)

(Equipment Record No 10132932)

Date sample received: 2 February 2012

SUMMARY OF RESULTS

1.	Manipulation	The test samples met the requirements of the Specification in respect of Clause 7 Annex A.4.
2.	Glazing removal	The test samples met the requirements of the Specification in respect of Clause 7 Annex A.5.
3.	Mechanical loading	The test samples met the requirements of the Specification in respect of Clause 7 Annex A.6.
4.	Manual check test	The test samples met the requirements of the Specification, in respect of Clause 7 Annex A.7.

CLAUSE 4 SAMPLE SELECTION

The samples submitted for tests were selected by the Client.

CLAUSE 5.2 ASSESSMENT

The assessment of the test samples followed the sequence detailed in Scheme document PCP519.

CLAUSE 6 TEST APPARATUS AND SAMPLE MOUNTING

The test apparatus used for the manual and mechanical tests is shown in Appendix A of this Report. This apparatus meets the requirements of the Specification. Each test sample was submitted for test mounted in a 50×100 mm timber subframe in accordance with the manufacturer's installation requirements.

DESCRIPTION OF SAMPLE (Sample 1)

Sample type - Projecting side hung next to projecting side hung

Material - Aluminium

Construction - Cleated

Friction stays: 16" Securistyle Defender side hung stays

Locking: a six point lock (six mushroom bolts) Trojan

reverse espagnolette system operated by a

key locking handle 4 of run up blocks

2 of pairs of Vector Excluder hinge

protectors

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

Glazing system - Internal beads and gaskets

Sample dimensions - For information only (nominal sizes)

Overall size

Length: 1455mm Height: 1275mm

Sash sizes

Length: 690mm Height: 1195mm

EXAMINATION AND TEST

Sample type - Projecting side hung next to projecting side hung

Date of test – 6 February 2012

Laboratory temperature – 19.1 °C

CLAUSE 7 PERFORMANCE REQUIREMENTS

ASSESSMENT

Annex A.4 Manipulation test

The sample was mounted vertically in the test rig as described in Annex A.2. The test was carried out in accordance with the given objective of this Annex using the implements described in Annex A.3.

The key for the lockable hardware was fully removable. No entry could be effected within 3 minutes.

Pass

Annex A.5 Glazing removal test

Annex A.5.1 Manual test

The sample was mounted vertically in the test rig as described in Annex A.2. The sample was assessed using a selection of tools as described in Annex A.3.

No entry could be effected within 3 minutes

Pass

Annex A.5.2 Mechanical test

The sample was mounted vertically in the test rig as described in Annex A.2. A perpendicular to plane load of 2.0kN was applied to each corner of the glazing in turn as specified in Annex A.5.2.

No evidence of bead failure No entry could be effected

Pass

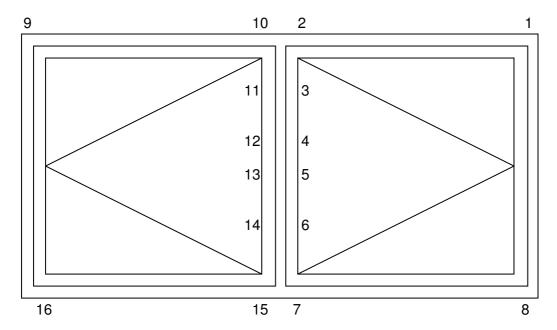
CLAUSE 7 PERFORMANCE REQUIREMENTS

Annex A.6 Mechanical loading test

The sample was mounted vertically in the test rig as described in Annex A.2.

The test was carried out in accordance with the procedures detailed in Annex A.6 and Figure 1 using the test apparatus detailed in Appendix A of this test report.

Diagram of points of application of loads



Annex A.6.2 Loading procedure

Point of application of load (right hand light)

First sequence

1 - Hinge protector/Friction stay (right head)

Standard loading case used: 5/1

Load applied in plane: 1.0kN in direction to disengage hinge protector Load applied perpendicular to plane: 3.0kN applied for 10 seconds

Load applied in plane: 1.0kN towards opposite stay

ASSESSMENT

Annex A.6.2 Loading procedure

Point of application of load

2 - Corner (mullion head)

Standard loading case used: 3

Load applied in plane: 1.0kN along edge in direction to disengage nearest locking point

Load applied perpendicular to plane: 3.0kN applied for 10 seconds

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

Load applied perpendicular to plane: 3.0kN applied for 10 seconds

3 - Mushroom bolt/Mushroom bolt (upper mullion)

Standard loading case used: 4

Load applied in plane: 1.0kN along edge in direction to disengage bolt Load applied perpendicular to plane: 3.0kN applied for 10 seconds

Load applied in plane: 1.0kN along edge in direction to disengage bolt Load applied perpendicular to plane: 3.0kN applied for 10 seconds

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

1.0kN at the mullion to oppose the above load

Load applied perpendicular to plane: 3.0kN applied for 10 seconds

4 - Mushroom bolt (centre mullion)

Standard loading case used: 4

Load applied in plane: 1.0kN along edge in direction to disengage bolt Load applied perpendicular to plane: 3.0kN applied for 10 seconds

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

1.0kN at the mullion to oppose the above load

Load applied perpendicular to plane: 3.0kN applied for 10 seconds

5 - Mushroom bolt (centre mullion)

Standard loading case used: 4

Load applied in plane: 1.0kN along edge in direction to disengage bolt Load applied perpendicular to plane: 3.0kN applied for 10 seconds

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

1.0kN at the mullion to oppose the above load

ASSESSMENT

Annex A.6.2 Loading procedure

Point of application of load

6 - Mushroom bolt/Mushroom bolt (lower mullion)

Standard loading case used: 4

Load applied in plane: 1.0kN along edge in direction to disengage bolt Load applied perpendicular to plane: 3.0kN applied for 10 seconds

Load applied in plane: 1.0kN along edge in direction to disengage bolt Load applied perpendicular to plane: 3.0kN applied for 10 seconds

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

1.0kN at the mullion to oppose the above load

Load applied perpendicular to plane: 3.0kN applied for 10 seconds

7 - Corner (mullion sill)

Standard loading case used: 3

Load applied in plane: 1.0kN along edge in direction to disengage nearest locking point

Load applied perpendicular to plane: 3.0kN applied for 10 seconds

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

Load applied perpendicular to plane: 3.0kN applied for 10 seconds

8 - Hinge protector/Friction stay (right sill)

Standard loading case used: 5/1

Load applied in plane: 1.0kN in direction to disengage hinge protector Load applied perpendicular to plane: 3.0kN applied for 10 seconds

Load applied in plane: 1.0kN towards opposite stay

Load applied perpendicular to plane: 3.0kN applied for 10 seconds

No entry effected Pass

Point of application of load (left hand light)

9 - Hinge protector/Friction stay (left head)

Standard loading case used: 5/1

Load applied in plane: 1.0kN in direction to disengage hinge protector Load applied perpendicular to plane: 3.0kN applied for 10 seconds

Load applied in plane: 1.0kN towards opposite stay

ASSESSMENT

Annex A.6.2 Loading procedure

Point of application of load

10 - Corner (mullion head)

Standard loading case used: 3

Load applied in plane: 1.0kN along edge in direction to disengage nearest locking point

Load applied perpendicular to plane: 3.0kN applied for 10 seconds

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

Load applied perpendicular to plane: 3.0kN applied for 10 seconds

11 - Mushroom bolt/Mushroom bolt (upper mullion)

Standard loading case used: 4

Load applied in plane: 1.0kN along edge in direction to disengage bolt Load applied perpendicular to plane: 3.0kN applied for 10 seconds

Load applied in plane: 1.0kN along edge in direction to disengage bolt Load applied perpendicular to plane: 3.0kN applied for 10 seconds

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

1.0kN at the mullion to oppose the above load

Load applied perpendicular to plane: 3.0kN applied for 10 seconds

12 - Mushroom bolt (centre mullion)

Standard loading case used: 4

Load applied in plane: 1.0kN along edge in direction to disengage bolt Load applied perpendicular to plane: 3.0kN applied for 10 seconds

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

1.0kN at the mullion to oppose the above load

Load applied perpendicular to plane: 3.0kN applied for 10 seconds

13 - Mushroom bolt (centre mullion)

Standard loading case used: 4

Load applied in plane: 1.0kN along edge in direction to disengage bolt Load applied perpendicular to plane: 3.0kN applied for 10 seconds

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

1.0kN at the mullion to oppose the above load

ASSESSMENT

Annex A.6.2 Loading procedure

Point of application of load

14 - Mushroom bolt/Mushroom bolt (lower mullion)

Standard loading case used: 4

Load applied in plane: 1.0kN along edge in direction to disengage bolt Load applied perpendicular to plane: 3.0kN applied for 10 seconds

Load applied in plane: 1.0kN along edge in direction to disengage bolt Load applied perpendicular to plane: 3.0kN applied for 10 seconds

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

1.0kN at the mullion to oppose the above load

Load applied perpendicular to plane: 3.0kN applied for 10 seconds

15 - Corner (mullion sill)

Standard loading case used: 3

Load applied in plane: 1.0kN along edge in direction to disengage nearest locking point

Load applied perpendicular to plane: 3.0kN applied for 10 seconds

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

Load applied perpendicular to plane: 3.0kN applied for 10 seconds

16 - Hinge protector/Friction stay (left sill)

Standard loading case used: 5/1

Load applied in plane: 1.0kN in direction to disengage hinge protector Load applied perpendicular to plane: 3.0kN applied for 10 seconds

Load applied in plane: 1.0kN towards opposite stay

Load applied perpendicular to plane: 3.0kN applied for 10 seconds

No entry effected Pass

Annex A.7 Manual check test

The sample was mounted vertically in the test rig as described in Annex A.2.

The test was carried out using the tools described in Annex A.7.2 in accordance with the procedures detailed in Annex A.7.3.

No alternative method of entry could be effected

Pass

Annex A.8 Additional mechanical loading test

Not applicable as an alternative method of entry was not identified under Annex A.7.

DESCRIPTION OF SAMPLE (Sample 2)

Sample type - Projecting top hung

Material - Aluminium

Construction - Cleated

Friction stays: 16" Securistyle Defender side hung stays

Locking: a six point lock (six mushroom bolts) Trojan

reverse espagnolette system operated by a

key locking handle 4 of run up blocks

2 of pairs of Vector Excluder hinge

protectors

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: 1455mm Height: 1270mm

Sash sizes

Length: 1400mm Height: 1200mm

EXAMINATION AND TEST

Sample type - Projecting top hung

Date of test - 6 February 2012

Laboratory temperature – 19.1 °C

CLAUSE 7 PERFORMANCE REQUIREMENTS

ASSESSMENT

Annex A.4 Manipulation test

The sample was mounted vertically in the test rig as described in Annex A.2. The test was carried out in accordance with the given objective of this Annex using the implements described in Annex A.3.

The key for the lockable hardware was fully removable. No entry could be effected within 3 minutes.

Pass

Annex A.5 Glazing removal test

Annex A.5.1 Manual test

The sample was mounted vertically in the test rig as described in Annex A.2. The sample was assessed using a selection of tools as described in Annex A.3.

No entry could be effected within 3 minutes

Pass

Annex A.5.2 Mechanical test

The sample was mounted vertically in the test rig as described in Annex A.2. A perpendicular to plane load of 2.0kN was applied to each corner of the glazing in turn as specified in Annex A.5.2.

No evidence of bead failure No entry could be effected

Pass

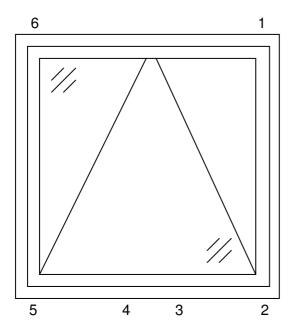
CLAUSE 7 PERFORMANCE REQUIREMENTS

Annex A.6 Mechanical loading test

The sample was mounted vertically in the test rig as described in Annex A.2.

The test was carried out in accordance with the procedures detailed in Annex A.6 and Figure 1 using the test apparatus detailed in Appendix A of this test report.

Diagram of points of application of loads



Annex A.6.2 Loading procedure

Point of application of load

First sequence

1 - Hinge protector/Friction stay (right head)

Standard loading case used: 5/1

Load applied in plane: 1.0kN in direction to disengage hinge protector Load applied perpendicular to plane: 3.0kN applied for 10 seconds

Load applied in plane: 1.0kN towards opposite stay

ASSESSMENT

Annex A.6.2 Loading procedure

Point of application of load

2 - Corner/Mushroom bolt/Mushroom bolt (right sill)

Standard loading case used: 4

Load applied in plane: 1.0kN along edge in direction to disengage bolt Load applied perpendicular to plane: 3.0kN applied for 10 seconds

Load applied in plane: 1.0kN along edge in direction to disengage bolt Load applied perpendicular to plane: 3.0kN applied for 10 seconds

Loads applied in plane: 1.0kN at right angles to edge and towards opposite edge Load applied perpendicular to plane: 3.0kN applied for 10 seconds

3 - Mushroom bolt (centre sill)

Standard loading case used: 4

Load applied in plane: 1.0kN along edge in direction to disengage bolt Load applied perpendicular to plane: 3.0kN applied for 10 seconds

Loads applied in plane: 1.0kN at right angles to edge and towards opposite edge Load applied perpendicular to plane: 3.0kN applied for 10 seconds

4 - Mushroom bolt (centre sill)

Standard loading case used: 4

Load applied in plane: 1.0kN along edge in direction to disengage bolt Load applied perpendicular to plane: 3.0kN applied for 10 seconds

Loads applied in plane: 1.0kN at right angles to edge and towards opposite edge Load applied perpendicular to plane: 3.0kN applied for 10 seconds

5 - Corner/Mushroom bolt/Mushroom bolt (left sill)

Standard loading case used: 4

Load applied in plane: 1.0kN along edge in direction to disengage bolt Load applied perpendicular to plane: 3.0kN applied for 10 seconds

Load applied in plane: 1.0kN along edge in direction to disengage bolt Load applied perpendicular to plane: 3.0kN applied for 10 seconds

Loads applied in plane: 1.0kN at right angles to edge and towards opposite edge Load applied perpendicular to plane: 3.0kN applied for 10 seconds

ASSESSMENT

Annex A.6.2 Loading procedure

Point of application of load

6 - Hinge protector/Friction stay (left head)

Standard loading case used: 5/1

Load applied in plane: 1.0kN in direction to disengage hinge protector Load applied perpendicular to plane: 3.0kN applied for 10 seconds

Load applied in plane: 1.0kN towards opposite stay

Load applied perpendicular to plane: 3.0kN applied for 10 seconds

No entry effected Pass

Annex A.7 Manual check test

The sample was mounted vertically in the test rig as described in Annex A.2.

The test was carried out using the tools described in Annex A.7.2 in accordance with the procedures detailed in Annex A.7.3.

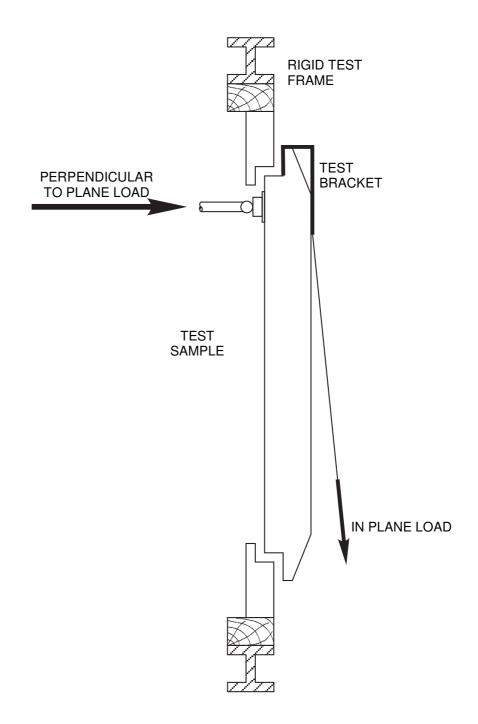
No alternative method of entry could be effected

Pass

Annex A.8 Additional mechanical loading test

Not applicable as an alternative method of entry was not identified under Annex A.7.

APPENDIX A

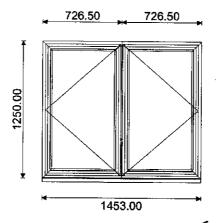


APPENDIX B

11 62

Casemen

ETC317: Outer Frame ETC424: Vent ETC335: Mullion ETC157: Cill NONE: Head Extension



QUALITY CONTROL
Approved Cut Fabricated Checked Glazed

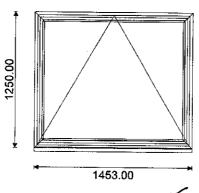
1,453 mm x 1,275 mm

ETC157
ETC162 Bead - 24mm (ALI47) Square
ETC317 Square Outerframe for Standard Stays
ETC317 Square Outerframe for Standard Stays
ETC335 Wide Transom/Mullion for STD Stays 0.0T 0.0T 1 2 EC 1,185 mm [] ETC424 Internally Beaded Square Vent Frame 45.0T 45.0T 4 8 EC 1,197 mm [] ETC424 Internally Beaded Square Vent Frame 45.0T 45.0T 4 8 EC 1,197 mm [] ETC424 Internally Beaded Square Vent Frame 45.0T 45.0T 4 8 EC 1,197 mm [] Glazing 28MM 28mm Glazing 2 4 593 mm x1,098 [] Components 2
ETC335 Wide Transom/Mullion for STD Stays 0.0T 0.0T 1 2 EE 1,185 mm 1 1 1 1 1 1 1 1 1
ETC424 Internally Beaded Square Vent Frame
ETC424 Internally Beaded Square Vent Frame
Starting
Components Oty Total Unit ACET012 CornerCleat (Crimping cleat) 4 8 Each [] ACET044 Chevron S/S (for 55) 8 16 Each [] ACET045 Chevron S/S (for 47) 8 16 Each [] ACET062 Screws (for Cills) No.10 x 2 CskSS STap 6 12 Each [] ACET064 Screws (for Handles) No. 8 X5/8 Csk Hd. 24 48 Each [] ACET066 Screws No. 7 x 1.5 Csk head S/S 6 12 Each [] ACET069 Screws (for ACET081) 4 8 Each [] ACET070 8X 1/2 "Pozi Flange S.S. Self Tapping 24 48 Each [] ACET074 ComerCleat (Crimping for 47 Internal) 8 16 Each [] ACET125 Anti Twist Clip 2 4 Each [] ACET157WP Cill end cap 1 2 Each [] ACET165WPL Espag Handle Left - White 1 2 Each [] ACET165WPR Espag Handle Right - White
ACET012 CornerCleat (Crimping cleat) ACET044 Chevron S/S (for 55) ACET045 Chevron S/S (for 47) ACET045 Chevron S/S (for 47) ACET062 Screws (for Cills) No.10 x 2 CskSS STap ACET064 Screws (for Handles) No. 8 X5/8 Csk Hd. ACET066 Screws No. 7 x 1.5 Csk head S/S ACET069 Screws (for ACET081) ACET070 8X 1/2 "Pozi Flange S.S. Self Tapping ACET074 ComerCleat (Crimping for 47 Internal) ACET125 Anti Twist Clip ACET125 Anti Twist Clip ACET157WP Cill end cap ACET165WPL Espag Handle Left - White ACET165WPR Espag Handle Right - White ACET165WPR Espag Handle Right - White
ACET044 Chevron S/S (for 55) ACET045 Chevron S/S (for 47) ACET062 Screws (for Cills) No.10 x 2 CskSS STap ACET064 Screws (for Handles) No. 8 X5/8 Csk Hd. ACET066 Screws (for Handles) No. 8 X5/8 Csk Hd. ACET066 Screws (for ACET081) ACET069 Screws (for ACET081) ACET070 8X 1/2 " Pozi Flange S.S. Self Tapping ACET074 CornerCleat (Crimping for 47 Internal) ACET125 Anti Twist Clip ACET125 Anti Twist Clip Cill end cap ACET157WP Cill end cap ACET165WPL Espag Handle Left - White ACET165WPR Espag Handle Right - White
ACET045 Chevron S/S (for 47) ACET062 Screws (for Cills) No.10 x 2 CskSS STap ACET064 Screws (for Handles) No. 8 X5/8 Csk Hd. ACET066 Screws No. 7 x 1.5 Csk head S/S ACET069 Screws (for ACET081) ACET070 8X 1/2 " Pozi Flange S.S. Self Tapping ACET074 ComerCleat (Crimping for 47 Internal) ACET125 Anti Twist Clip ACET125 Anti Twist Clip ACET157WP Cill end cap ACET165WPL Espag Handle Left - White ACET165WPR Espag Handle Right - White ACET165WPR Espag Handle Right - White
ACET062 Screws (for Cills) No.10 x 2 CskSS STap ACET064 Screws (for Handles) No. 8 X5/8 Csk Hd. ACET066 Screws No. 7 x 1.5 Csk head S/S ACET069 Screws (for ACET081) ACET070 8X 1/2 " Pozi Flange S.S. Self Tapping ACET074 ComerCleat (Crimping for 47 Internal) ACET125 Anti Twist Clip ACET157WP Cill end cap ACET157WP Cill end cap ACET165WPL Espag Handle Left - White ACET165WPR Espag Handle Right - White ACET165WPR Espag Handle Right - White
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ACET066 Screws No. 7 x 1.5 Csk head S/S 6 12 Each [] ACET069 Screws (for ACET081) 4 8 Each [] ACET070 8X 1/2 " Pozi Flange S.S. Self Tapping 24 48 Each [] ACET074 ComerCleat (Crimping for 47 Internal) 8 16 Each [] ACET125 Anti Twist Clip 2 4 Each [] ACET157WP Cill end cap 1 2 Each [] ACET165WPL Espag Handle Left - White 1 2 Each [] ACET165WPR Espag Handle Right - White 1 2 Each []
ACET069 Screws (for ACET081) ACET070 8X 1/2 " Pozi Flange S.S. Self Tapping ACET074 ComerCleat (Crimping for 47 Internal) ACET125 Anti Twist Clip ACET157WP Cill end cap ACET165WPL Espag Handle Left - White ACET165WPR Espag Handle Right - White ACET165WPR Espag Handle Right - White
ACET070 8X 1/2 " Pozi Flange S.S. Self Tapping 24 48 Each [] ACET074 ComerCleat (Crimping for 47 Internal) 8 16 Each [] ACET125 Anti Twist Clip 2 4 Each [] ACET157WP Cill end cap 1 2 Each [] ACET165WPL Espag Handle Left - White 1 2 Each [] ACET165WPR Espag Handle Right - White 1 2 Each []
ACET1074 ComerCleat (Crimping for 47 Internal) ACET125 Anti Twist Clip ACET157WP Cill end cap ACET157WP Espag Handle Left - White ACET165WPL Espag Handle Right - White ACET165WPR Espag Handle Right - White ACET165WPR Espag Handle Right - White
ACET125 Anti Twist Clip 2 4 Each [] ACET157WP Cill end cap 1 2 Each [] ACET165WPL Espag Handle Left - White 1 2 Each [] ACET165WPR Espag Handle Right - White 1 2 Each []
ACET157WP Cill end cap
ACET165WPL Espag Handle Left - White 1 2 Each [] ACET165WPR Espag Handle Right - White 1 2 Each []
ACET165WPR Espag Handle Right - White 1 2 Each []
Allihour A7. Dun on block for the 45.
ACET180 Alitherm 47 - Run up block for direct fix to 4 8 Each
ACET304L Espag' 1 2 Each
ACET304R Espag' 1 2 Each 1 1
ACET310 Cleat for ETC310 316 317 4 8 Each []
ACET335 PVC Transom Locator Block for ETC335 2 4 Each
ACET380 Run Up Block 2 4 Each []
ACET394 Keep Packer 4 8 Each []
ACINDSSH16 16" SH. Standard Hinge
ACVG31 Gasket - E Gasket 3mm 7 14 Each 7 1
ACVG34 Gasket - Wedge Gasket 5mm 7 14 Each
ACVL032 Gasket - Small Flipper 15 30 Each
ACW20024 Stainless Steel Chevron 8 16 Each []
HINGE PROTE(Hinge Protectors (Pr) 4 8 Each []

APPENDIX B (CONTINUED)

Casemen

ETC317: Outer Frame
ETC424: Vent
ETC157: Cill



QUALITY CONTROL	
Approved	
e Estrementations statement than 1	
Fabricated	A. M. A. A.
Checked	A 100 A
Glazed	Company of the last
in the state of th	200

1,453 mm x	1,275	mm
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Extrusions		End Pre	End Prep Qt		Total	tal Length		Status	
ETC157	Cill - 150mm SubCill	0.0T	0.0T	1	2	1,453 mm	Ī.	1	
ETC162	Bead - 24mm (ALI47) Square	0.0⊤	0.0T	2		√ 1,075 mm	Ī	1	
ETC162	Bead - 24mm (ALI47) Square	T0.0	0.0T	2	4 :	៊ី 1,308 mm	ſ	ī	
ETC317	Square Outerframe for Standard Stays	45.0T	45.0T	2	4 🚾	<i>⊊</i> ≟_ 1,250 mm	ī	1	
ETC317	Square Outerframe for Standard Stays	45.0T	45.0T	2		1,453 mm	r	1	
ETC424	Internally Beaded Square Vent Frame	45.0T	45.0T	2	4 1		ŗ	1	
ETC424	Internally Beaded Square Vent Frame	45.0T	45.0T	2	4 5		r	1	
Glazing				Qty	Total	Width Height	-		
28MM	28mm Glazing			1	2	1,301 × 1,098	Г	1	
Components		****		Qty	Total	Unit	•		
ACET012	CornerCleat (Crimping cleat)			4	8	Each	ſ	1	
ACET044	Chevron S/S (for 55)			4	8	Each	ī	1	
ACET045	Chevron S/S (for 47)			8	16	Each	Ī	1	
ACET062	Screws (for Cills) No.10 x 2 CskSS STap			6	12	Each	ī	i	
ACET069	Screws (for ACET081)			2	4	Each	i	1	
ACET070	8X 1/2 " Pozi Flange S.S. Self Tapping			12	24	Each	Ī	1	
ACET074	CornerCleat (Crimping for 47 Internal)			4	8	Each	r	í	
ACET157WP	Cill end cap		.*	1	2	Each	ï	1	
ACET165WPR	Espag Handle Right - White			1	2	Each	i	i	
ACET180	Alitherm 47 - Run up block for direct fix to			2	4	Each	ī	1	
ACET305R	Espag'			1	2	Each	1	1	
ACET310	Cleat for ETC310 316 317			4	8	Each	ŗ	1	
ACET380	Run Up Block			2	4	Each	ŗ	i	
ACET394	Keep Packer			4	8	Each	ſ	i	
ACINDS24	24" Standard Hinge			1	2	Each	ſ	í	
ACVG31	Gasket - E Gasket 3mm			5	10	Each	ĺ	j	
ACVG34	Gasket - Wedge Gasket 5mm			5	10	Each	Ī	-	
ACVL032	Gasket - Small Flipper			10	21	Each	ſ		
ACW20024	Stainless Steel Chevron			4	8	Each	ſ	7	
_	E(Hinge Protectors (Pr)			2	4	Each	•	•	