



A Z U M A
Design



WORLD RECOGNISED
ACCREDITATION

NATA Accredited Laboratory No: 15147

AS5039 TEST REPORT
SECURITY WINDOW GRILLE

AZT Number: AZT0069.09

Manufactured By: Barrier Home Security and Blinds

Tested By: Nathan Olsen Date: 20th May 2009

Certified By: Nathan Olsen Date: 20th May 2009

Witnessed By: Robert Irwin Date: 20th May 2009

Details of Test Window

Sample Identification: Secureview Hinged Open Out Window

Size: 900mm x 1500mm Class A,B,C or D: B

Mounting method used (ie rebate, face fixed...): Rebate / enclosed

Gap between Window and Mounting Frame Lock Side (mm): -

Hinge Side (mm): -

Type of Material Used in Mounting Frame: Pine

Constructional Description of Test Window: Secure View Open Out Window made from stainless steel

mesh fixed using a co-extruded PVC wedge with polymer adhesive the entire perimeter of the screen.

Note: Please see drawings at end of report for further detail.



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Details of Window Infill

Manufactured By: Harwood Group Pty Ltd (Meshtek)

Type: III

Dynamic Impact Test

Check weight of Impact bag: 43.330 kilograms

Drop Height of Impact bag for 100 J blow: (using formula $\frac{10204}{w} = h$)

w = weight of bag in kilograms
h = drop height in millimeters

Observations

Standard: 10mm

Impact 1: 20mm

Impact 2: 20mm

Impact 3: 22mm

Impact 4: 22mm

Impact 5: 22mm

Result: Passed

Remarks: Nil



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Lock/Hinge and/or fixing Lever Test

LOCATION	PASS	FAIL	FORCE (N)	REMARKS
200mm from TOP LH				
200mm from BOTTOM LH				
200mm from TOP RH				
200mm from BOTTOM RH				

Remarks: Could not fit jimmy apparatus for any fixing or locking point, therefore no test could be performed resulting in a PASS...



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Pull Tests

LOCATION/FORCES	A 150mm max.	B 450mm max.	C 100 x 100mm max.	D	E	PASS	FAIL
CENTRE PULL TEST 1.5 kN							
LOCKING POINT PULL TEST 1.5 kN							
TOP PULL TEST 1.5 kN							
BOTTOM ANGLED PULL TEST 1.5 kN							

A – Max. size of any gap between Edge of Security Window Grille and Frame after removal of force (static).

B – Max. size of gap at full Deflectional Load (dynamic).

C – The size of any gap occurring as a result of the test.

D – Whether any part of the infill broke away completely from the remainder of the Security Window Grille framing as a result of the test.

E – Whether the Window Grille remained in a fixed position.

Remarks: Could not fit pull test apparatus, therefore no test could be performed resulting in a PASS.



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SECURITY WINDOW GRILLE

Knife shear test

Remarks: Sample has been previously tested through Azuma Design and is still valid- see report reference # AZT0050.

CONCLUSION

<u>Test</u>	<u>Result</u>
Dynamic Impact test:	PASSED
Lock and Hinge lever test:	PASSED (Did not attempt)
Pull test:	PASSED (Did not attempt)
Knife shear test:	PASSED (Previously tested)

SIGNATORY NAME: Nathan Olsen

SIGNATURE: *Nathan Olsen*

DATE: 20th May 2009

DARLEY ALUMINIUM TRADING PTY LTD PURCHASER SECTION APPROVAL PURCHASER SIGNATURE _____ DATE _____

SECT.NO.

REV. 0

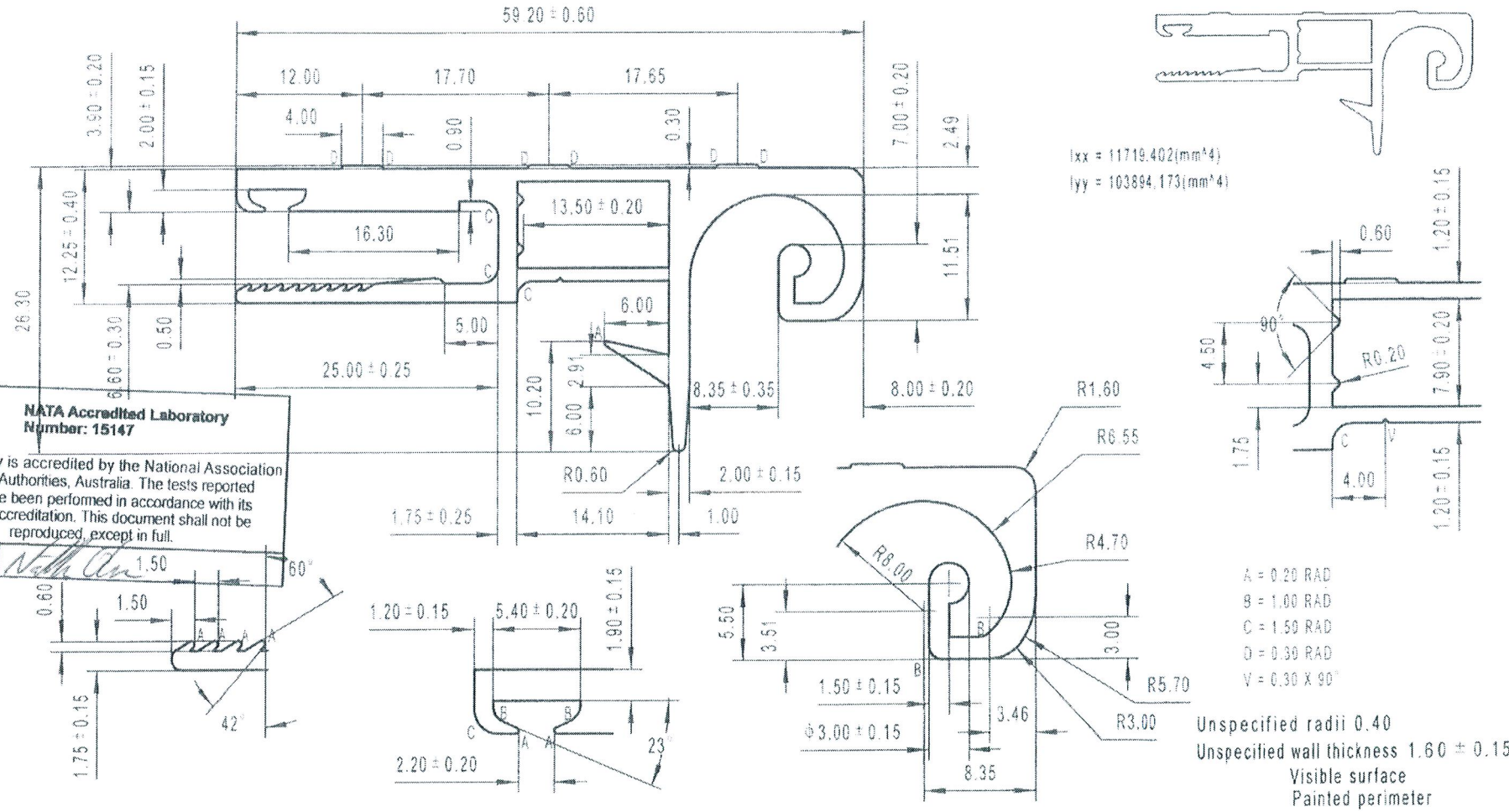
EXCLUSIVE SHAPES

The purchaser whose name appears on this drawing warrants to Darley Aluminium Trading that the extruded shape shown on this drawing, and any products made from it do not infringe any patent, registered design, copyright or confidential information belonging to a third party. The purchaser shall indemnify Darley Aluminium Trading against all damages, losses and expenses arising out of any breach of this warranty.

SHAPE DIMENSIONS

This drawing has been checked for correct dimensions, tolerances and any other special requirements by the purchaser. Alterations made after tooling manufacture is commenced will be at the purchaser's account. A.C.N. 076 364 657

HAR047



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Checked by: *Nath An*

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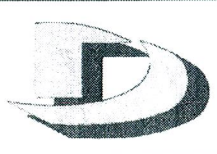
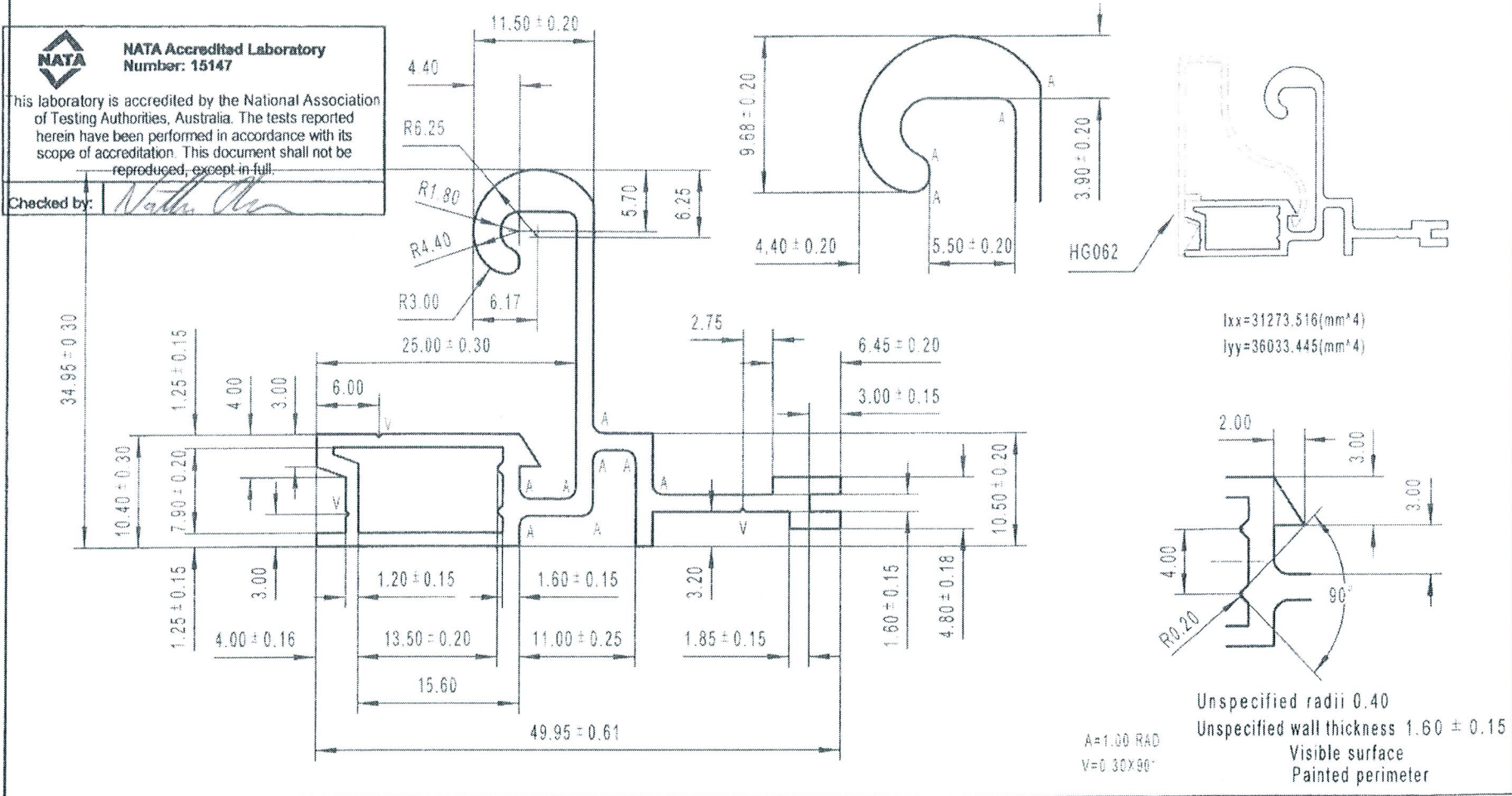
	DARLEY ALUMINIUM		AREA	350	sq mm	CUSTOMER : Harwood Group			
	EXTRUDERS, DISTRIBUTORS & WHOLESALEERS OF COMMERCIAL & DOMESTIC ALUMINIUM SECTIONS		WEIGHT	0.945	kg/m	APPLICATION : **			
	Tel:(02) 9756 4433 Fax:(02) 9756 0035		ANOD PERIMETER	288	mm	DRAWN	CHECKED	DATE	SCALE
			PAINTED PERIMETER	**	mm	Candy		2006-6-30	2:1
			ALLOY / TEMPER	6063/T5	mm				

INNER FRAME

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 SHAPE DIMENSIONS
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SECT.NO. HRA048
 REV. 0

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AREA	248	sq mm
WEIGHT	0.670	kg/m
ANOD PERIMETER	243	mm
PAINTED PERIMETER	000	mm
ALLOY / TEMPER	6063/T5	mm

CUSTOMER	HARWOOD GROUP		
APPLICATION	**		
DRAWN	YEN	CHECKED	DATE
			2006-6-29
		SCALE	1:1

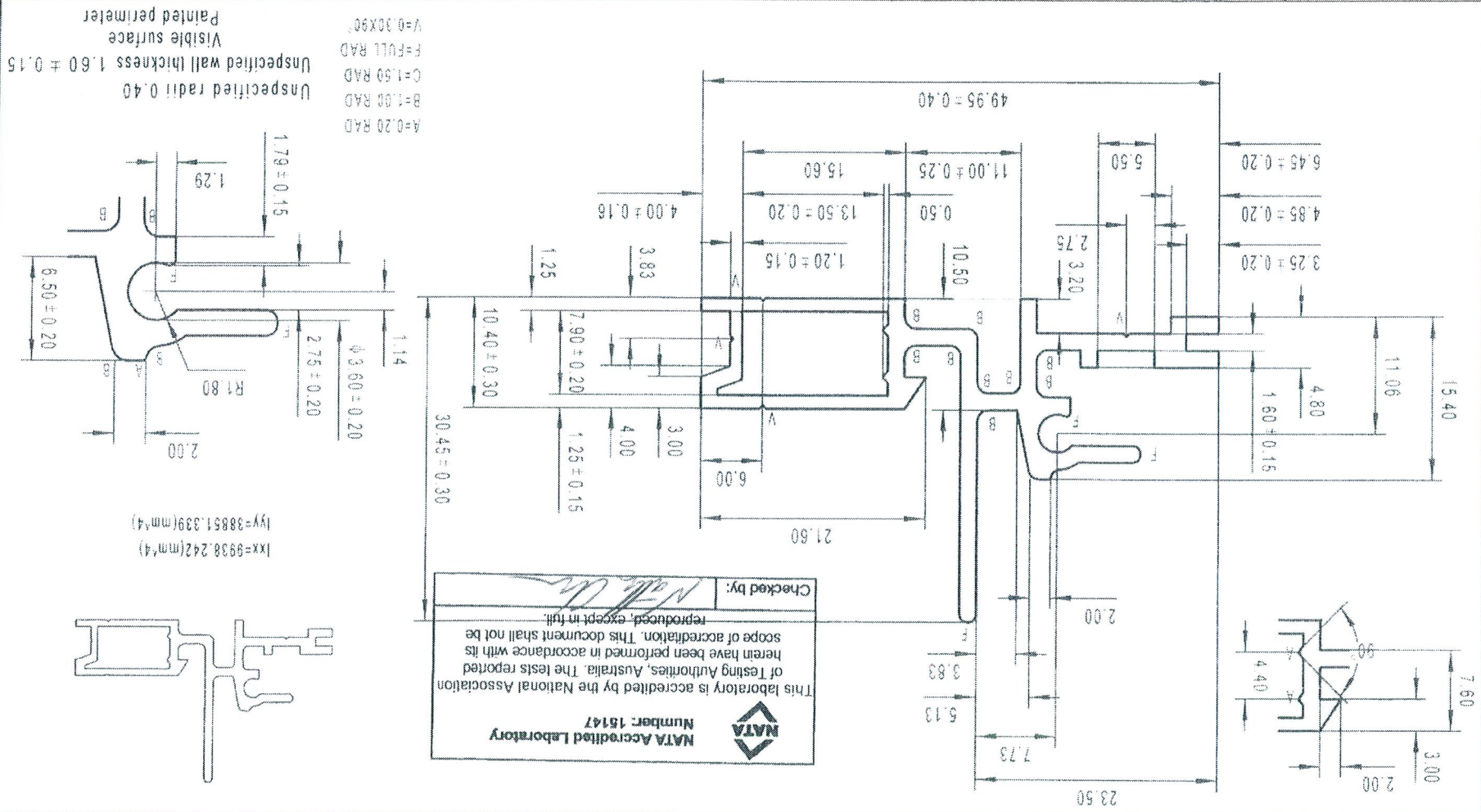
OUTER HINGE FRAME

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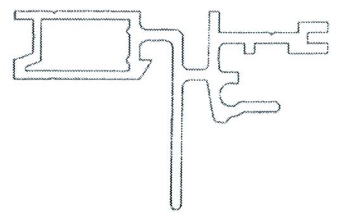
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ANOD PERIMETER	246	mm
PAINTED PERIMETER	000	mm
ALLOY / TEMPER	6063/T5	mm
DRAWN	YEN	CHECKED
DATE	2006-7-25	SCALE
CUSTOMER	HARWOOD GROUP	
APPLICATION	**	



Checked by: *[Signature]*
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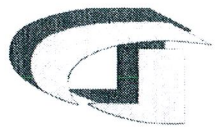
lx=9938.242(m⁴)
 yy=38851.339(m⁴)



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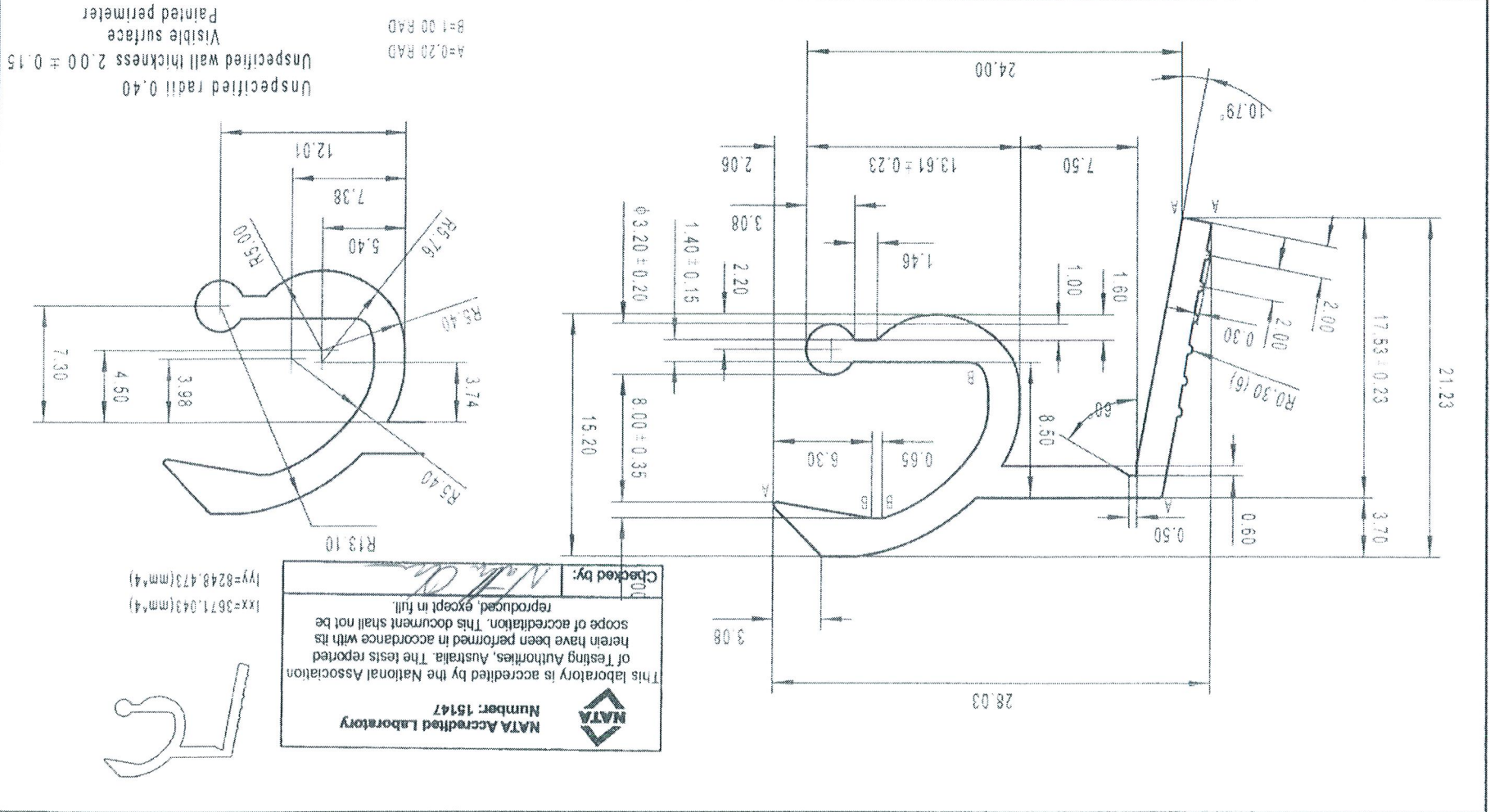
SECT NO. HAR049
 REV. 3

LOCK FRAME



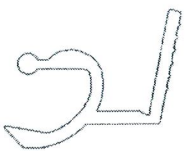
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 Tel: (02) 9756 4433 Fax: (02) 9756 0035

AREA	128	sq mm
WEIGHT	0.346	kg/m
ANOD PERIMETER	129	mm
PAINTED PERIMETER	000	mm
ALLOY / TEMPER	6063/T5	mm
DRAWN	YEN	CHECKED
DATE	2006-6-29	SCALE
CUSTOMER	HARWOOD GROUP	
APPLICATION	**	



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 Checked by: *N.A.C.*

ixx=3671.043(mm⁴)
 iyy=8248.473(mm⁴)



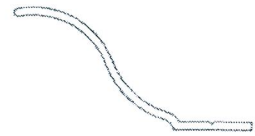
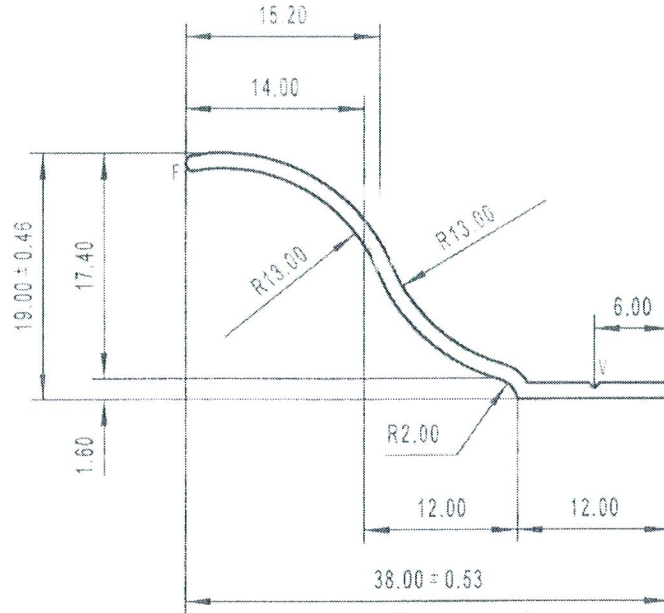
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 HRA050
 REV. 0

OPERATING HANDLE

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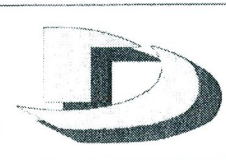
SECT.NO. REV. 0
HAR042

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Ixx = 28799.829(mm⁴)
 Iyy = 13455.904(mm⁴)

F = FULL RAD
 V = 0.40 X 90°
 Unspecified radii 0.40
 Unspecified wall thickness 1.20 ± 0.15
 Visible surface
 Painted perimeter



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AREA	54	sq mm
WEIGHT	0.146	kg/m
ANOD PERIMETER	93	mm
PAINTED PERIMETER	**	mm
ALLOY / TEMPER	6063/T5	mm

CUSTOMER :		Harwood Group	
APPLICATION :		**	
DRAWN	Candy	CHECKED	DATE
			2006-6-29
SCALE		2:1	

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LOCK COVER