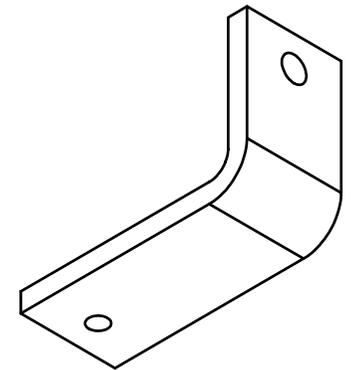
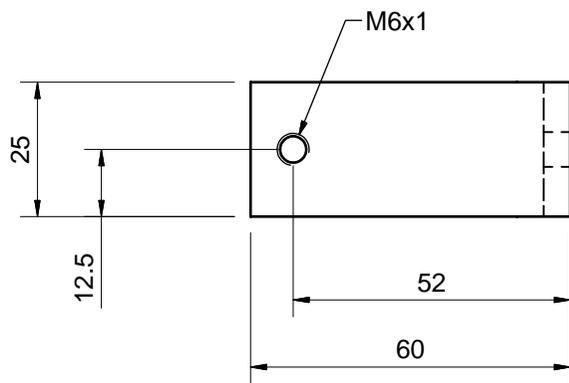
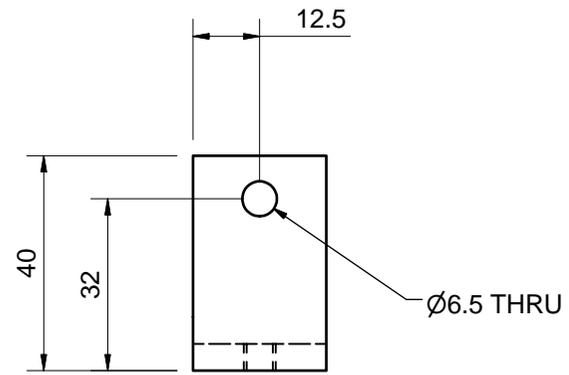


9	4	BS 4168 - M6 x 16	Hexagon Socket Head Cap Screw
8	4	BS 4464 - M6 Form A	Spring Washer
7	2	GLAS-6-001 r2	Support bracket
6	1	GLAS-6-6-000 r2	Upper top cover assy
5.2	1	GLAS-6-5-000a r2	Upper cover bottom assy
5.1	1	GLAS-6-5-000 r2	Upper cover weldment assy
4	1	GLAS-6-4-000 r1	Upper cover 1 assy
3	1	GLAS-6-3-000 r2	Upper access panel assy
2	1	GLAS-6-2-000 r2	Transfer tube access panel assy
1.2	1	GLAS-6-1-000a r2	Umbilical cover plate assy
1.1	1	GLAS-6-1-000 r2	Lower cover weldment assy
ITEM	QTY	PART NUMBER	DESCRIPTION

<small> ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED GENERAL TOL: ±0.1 ANGULAR TOL: ±0.05 SURFACE FINISH: (see drawing) 3.2 FINISH: ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED THIS DRAWING IS THE PROPERTY OF ISAAC NEWTON GROUP OF TELESCOPES. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED ON THE DRAWING. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF ISAAC NEWTON GROUP OF TELESCOPES. </small>	<small> Material Drawn by Date Revision Part Number </small>	<small> jolley 19/09/2005 2 Main Cover Assembly Isaac Newton Group of Telescopes Apartado de Correos, 321 Santa Cruz de La Palma +34 922 425 400 </small>	<small> Sheet 1 / 1 </small>
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Third Angle

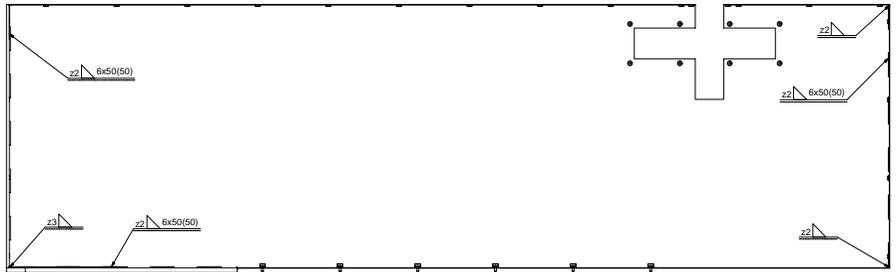
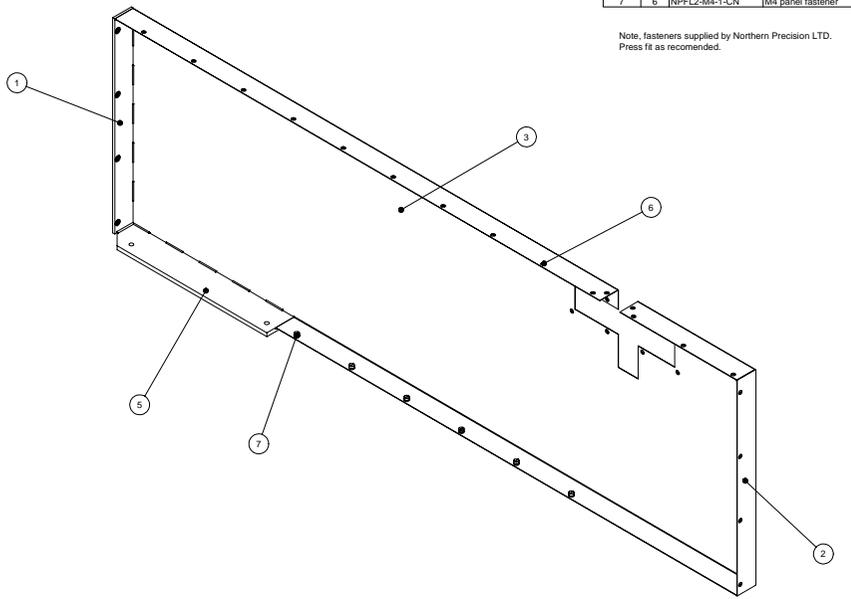
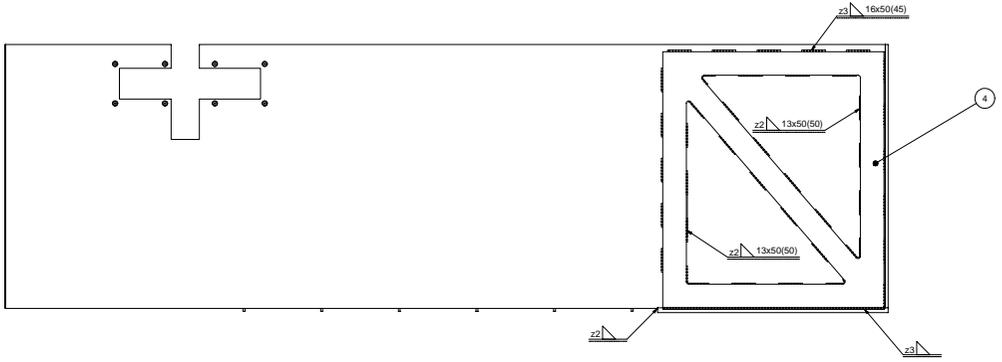


<small>UNLESS OTHERWISE STATED</small> All dimensions in mm General Tol: ± 0.1 Angular Tol: ± 0.25 Surface Finish (microns): 3.2 REMOVE ALL SHARP EDGES <small>This document remains the property of the Isaac Newton Group of Telescopes and may not be copied, reproduced or displayed in whole or part without the express consent of the Isaac Newton Group of Telescopes</small>	Material	Drawn by	Date	Revision	Support Bracket		
	Mild Steel	jolley	20/09/2005	2			
	070M20	Isaac Newton Group of Telescopes Apartado de Correos, 321 Santa Cruz de La Palma +34 922 425 400			Part Number	GLAS-6-001 r2	A3
Finish	White paint						

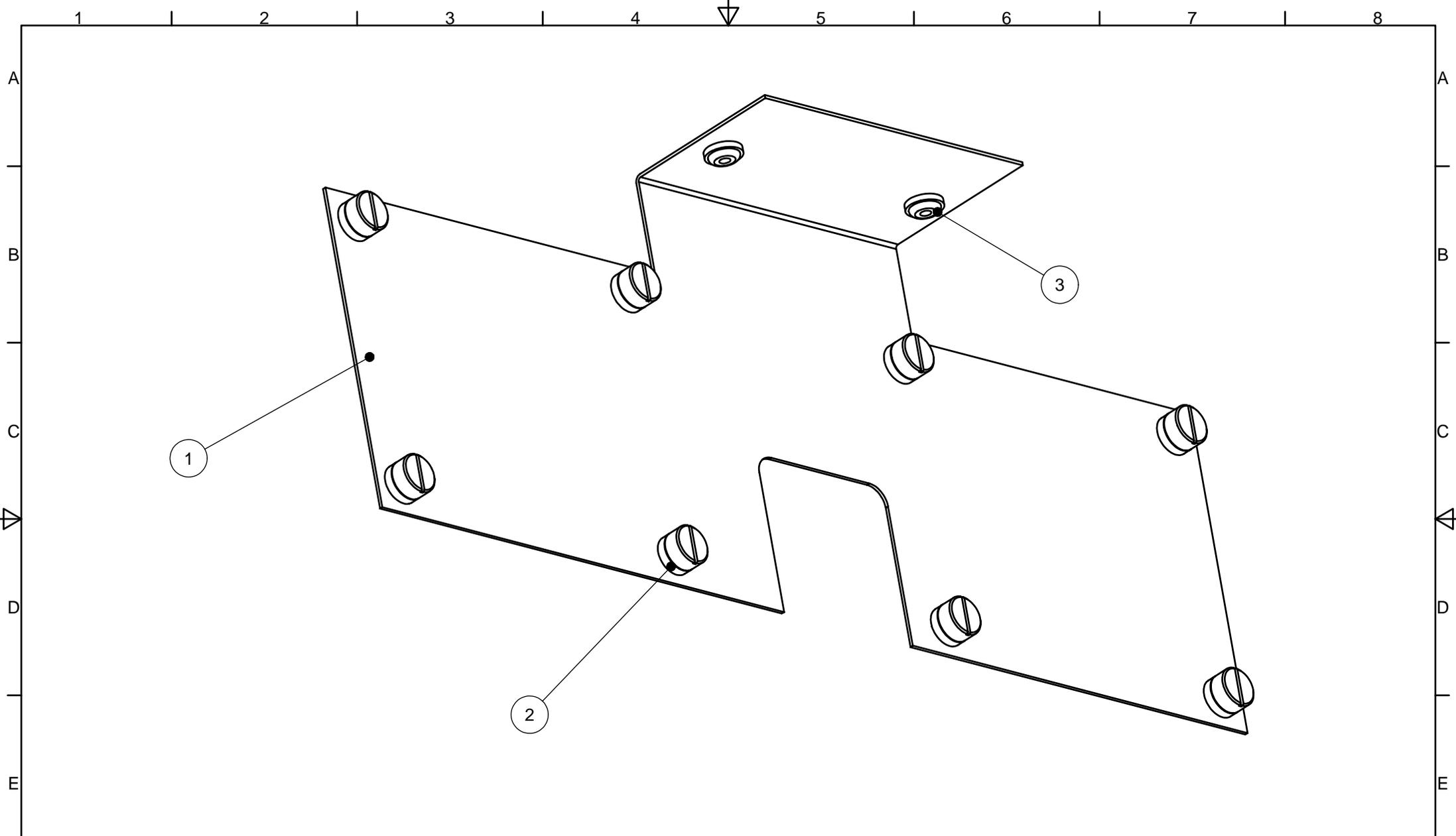
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	GLAS-1-002 r2	Thick end plate assy
2	1	GLAS-1-004 r2	Thin end plate assy
3	1	GLAS-1-005 r2	Main sheet
4	1	GLAS-1-007 r2	Stiffener
5	1	GLAS-1-006 r2	Flange
6	23	NAS-M4-1	M4 Floating clinch nut
7	6	NPFL2-M4-1-CN	M4 panel fastener

Note: fasteners supplied by Northern Precision LTD.
Press fit as recommended.

(1:4)



16/09/2005 2 gliby		16/09/2005 2 gliby	
Isaac Newton Group of Telescopes Apartado de Correos, 521 Santa Cruz de La Palma		Lower Cover Assembly Lower Cover	
Part Number GLAS-6-1-000 r2		A0 1 / 1	



Note, Fasteners provided by Northern Precision LTD
Press fit as recommended



3	2	NAS-M4-1	M4 floating clinch nut
2	8	NPFL2-M4-1-CN	M4 Panel fastener
1	1	GLAS-6-1-001 r2	Umbilical cover plate
ITEM	QTY	PART NUMBER	DESCRIPTION

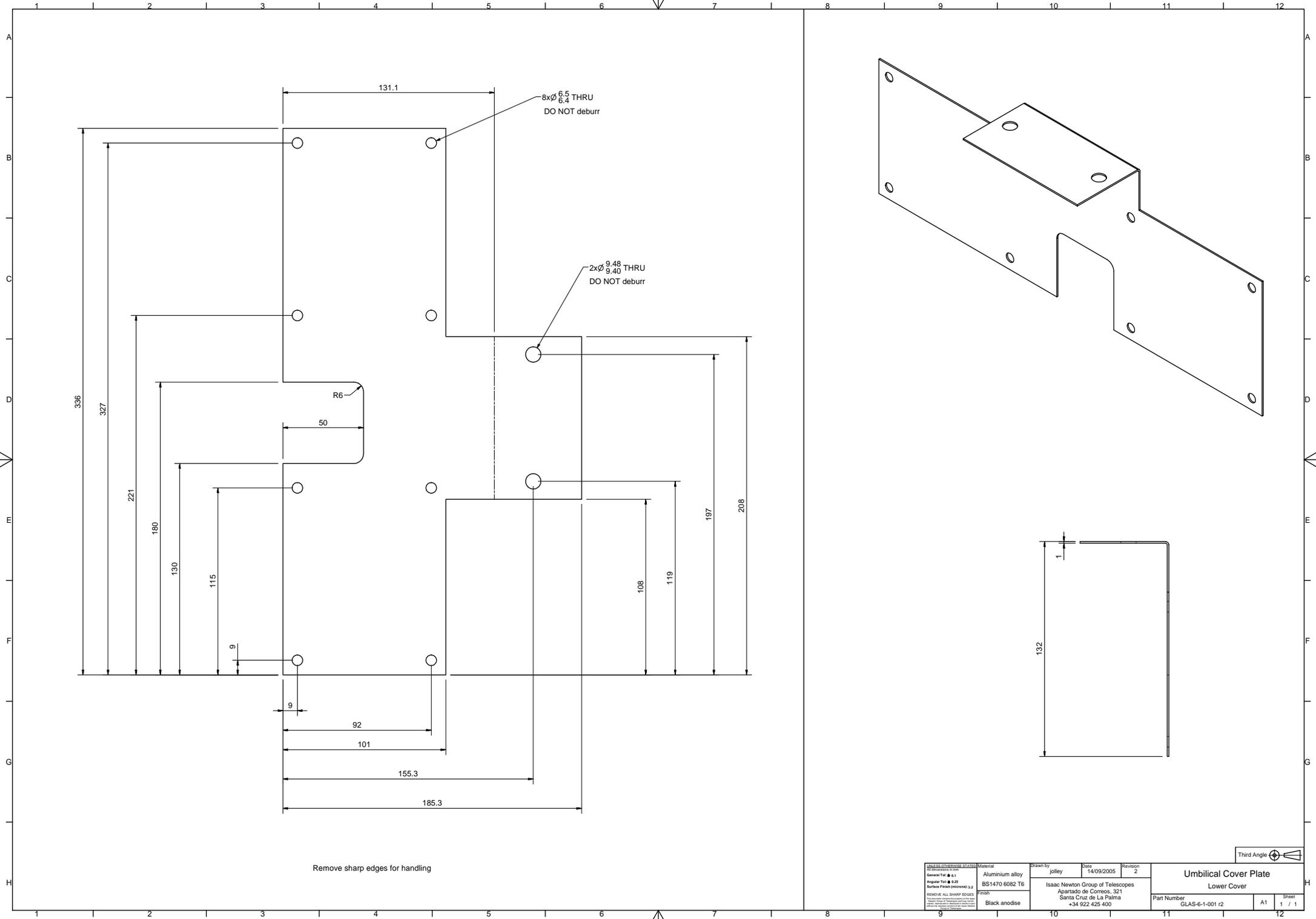
UNLESS OTHERWISE STATED
All dimensions in mm
General Tol: ± 0.1
Angular Tol: ± 0.25
Surface Finish (microns): 3.2
REMOVE ALL SHARP EDGES
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Material

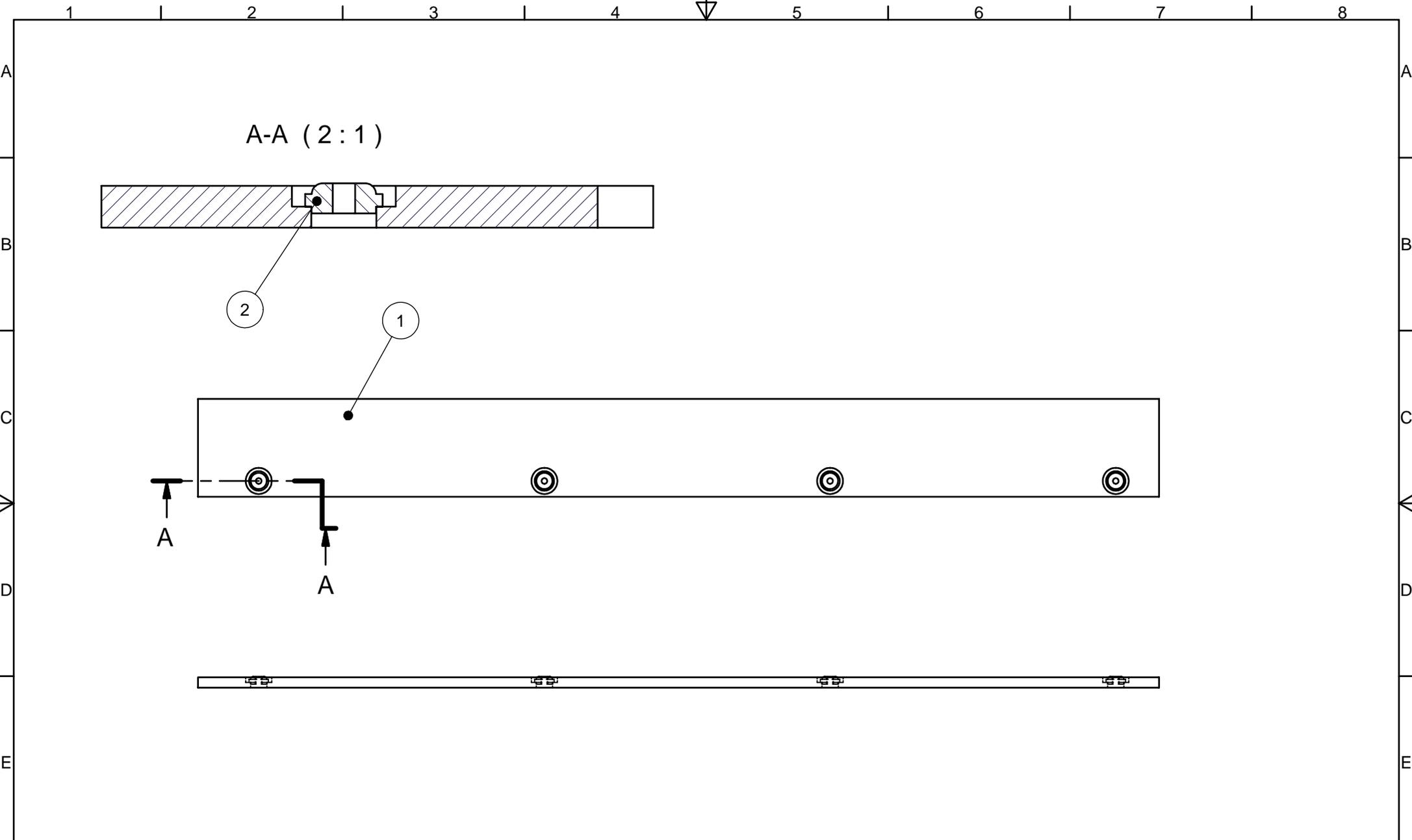
Finish

Drawn by
jolley
Date
14/09/2005
Revision
2
Isaac Newton Group of Telescopes
Apartado de Correos, 321
Santa Cruz de La Palma
+34 922 425 400

Umbilical Cover Plate Assembly
Lower Cover
Part Number
GLAS-6-1-000a r2
A3
Sheet
1 / 1



0123456789101112 A B C D E F G H	1 2 3 4 5 6 7 8 9 10 11 12	Material Aluminium alloy BS1470 6082 T6 Finish Black anodise	Drawn by jolley Date 14/09/2005 Revision 2	Isaac Newton Group of Telescopes Apartado de Correos, 321 Santa Cruz de La Palma +34 922 425 400	Part Number GLAS-6-1-001 r2	Sheet 1 / 1
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Note, Fasteners supplied by Northern Precision LTD
Press fit as recommended.



ITEM	QTY	PART NUMBER	DESCRIPTION
2	4	NAS-M4-1	M4 Floating clinch nut
1	1	GLAS-6-1-003 r2	Thick end plate

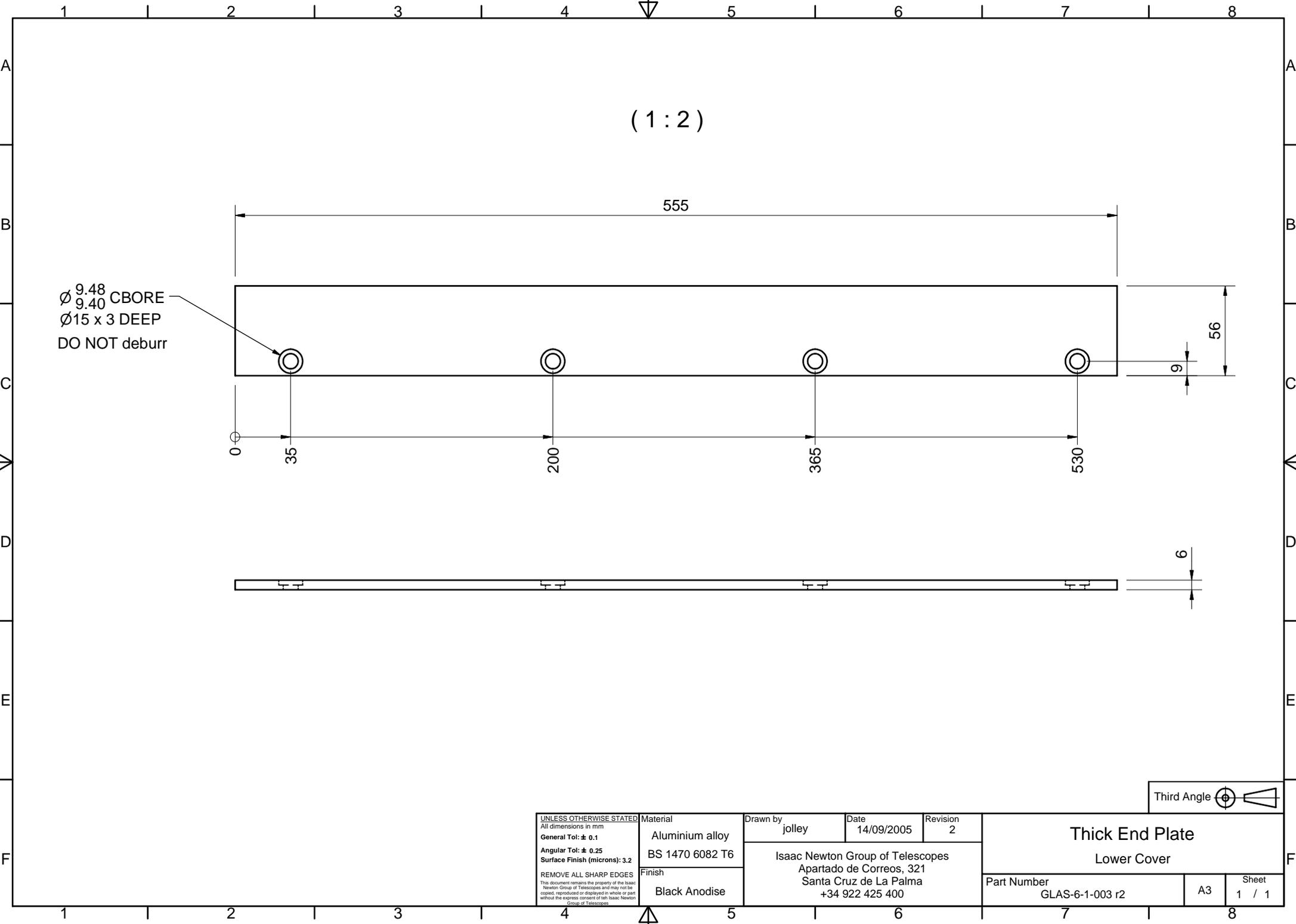
UNLESS OTHERWISE STATED
All dimensions in mm
General Tol: ± 0.1
Angular Tol: ± 0.25
Surface Finish (microns): 3.2
REMOVE ALL SHARP EDGES
This document remains the property of the Isaac Newton Group of Telescopes and may not be copied, reproduced or displayed in whole or part without the express consent of the Isaac Newton Group of Telescopes

Material

Finish

Drawn by
jolley
Date
14/09/2005
Revision
2
Isaac Newton Group of Telescopes
Apartado de Correos, 321
Santa Cruz de La Palma
+34 922 425 400

Thick End Plate Assembly
Lower Cover
Part Number
GLAS-6-1-002 r2
A3
Sheet
1 / 1



(1 : 2)

555

∅ 9.48 CBORE
∅ 9.40
∅15 x 3 DEEP
DO NOT deburr

56

0

35

200

365

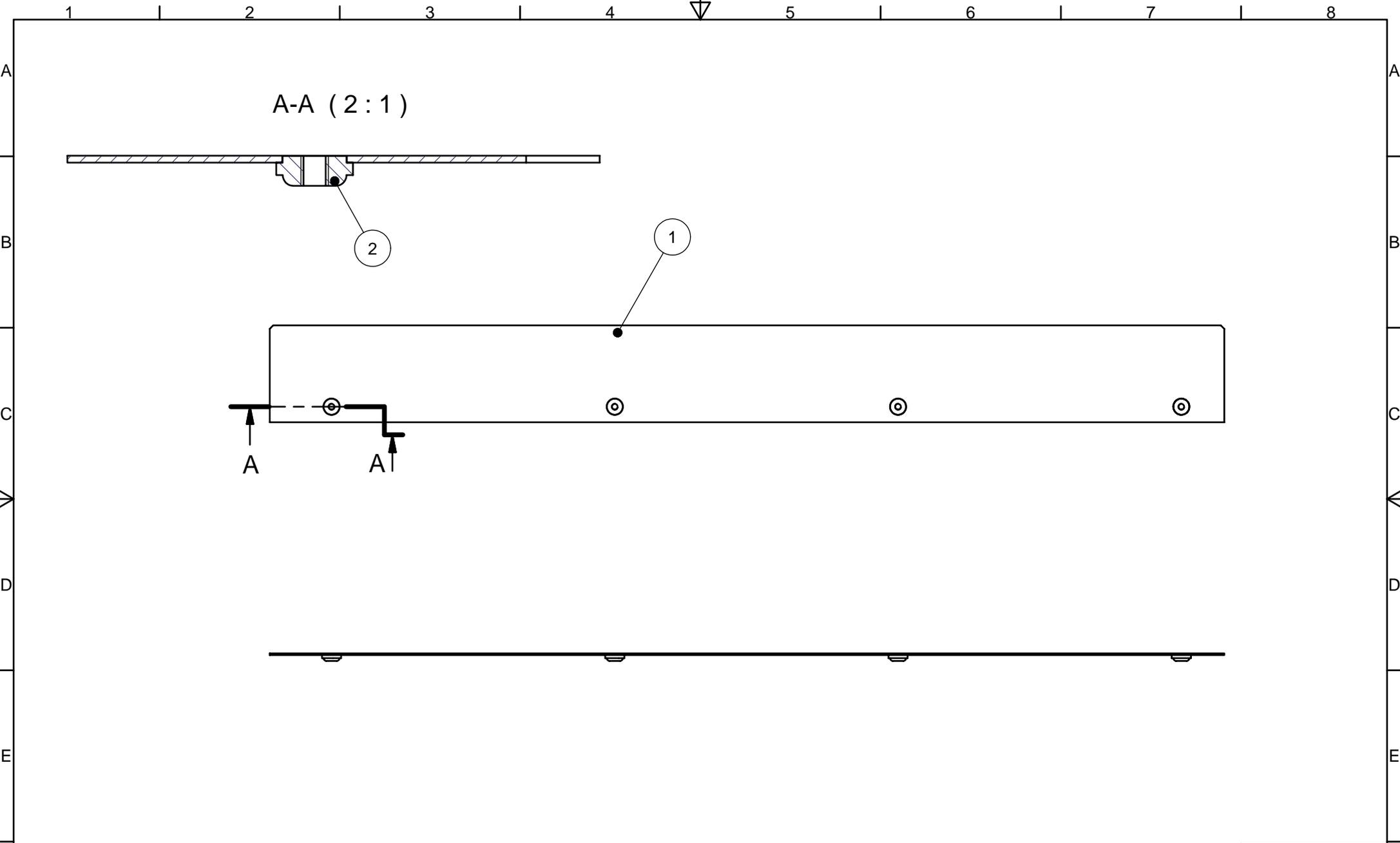
530

9

6



<small>UNLESS OTHERWISE STATED</small> All dimensions in mm General Tol: ± 0.1 Angular Tol: ± 0.25 Surface Finish (microns): 3.2 REMOVE ALL SHARP EDGES <small>This document remains the property of the Isaac Newton Group of Telescopes and may not be copied, reproduced or displayed in whole or part without the express consent of the Isaac Newton Group of Telescopes</small>	Material	Drawn by	Date	Revision	Thick End Plate Lower Cover		
	Aluminium alloy BS 1470 6082 T6	jolley	14/09/2005	2			
	Finish	Isaac Newton Group of Telescopes Apartado de Correos, 321 Santa Cruz de La Palma +34 922 425 400			Part Number	Sheet	
Black Anodise				GLAS-6-1-003 r2	A3	1 / 1	



Note, fasteners supplied by Northern Precision LTD
Press fit as recommended



ITEM	QTY	PART NUMBER	DESCRIPTION
2	4	NAS-M4-1	M4 Floating clinch nut
1	1	GLAS-6-1-005 r2	Thin end plate

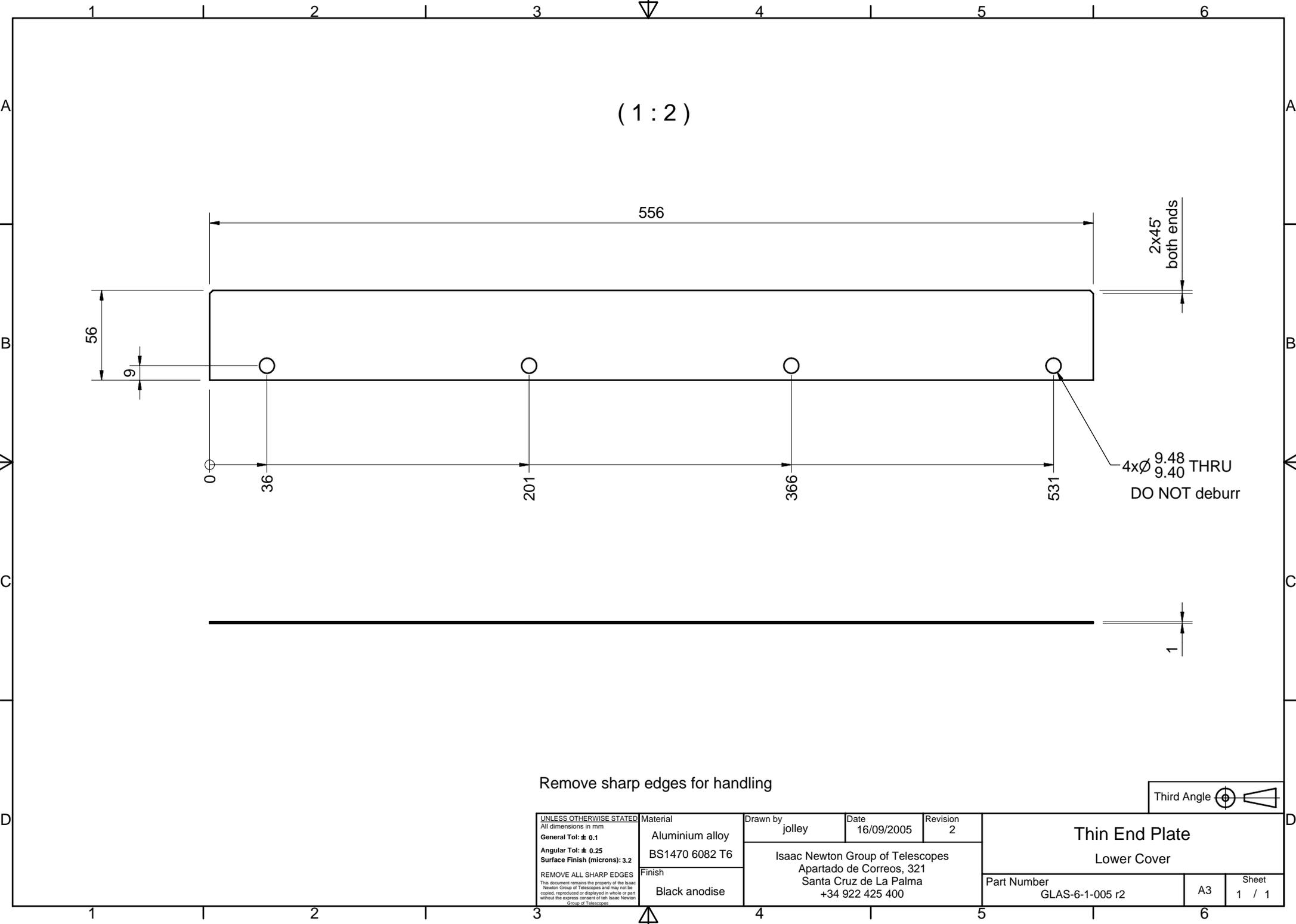
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All dimensions in mm
General Tol: ± 0.1
Angular Tol: ± 0.25
Surface Finish (microns): 3.2
REMOVE ALL SHARP EDGES
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Material

Finish

Drawn by
jolley
Date
16/09/2005
Revision
2
Isaac Newton Group of Telescopes
Apartado de Correos, 321
Santa Cruz de La Palma
+34 922 425 400

Thin End Plate Assembly
Lower Cover
Part Number
GLAS-6-1-004 r2
A3
Sheet
1 / 1



(1 : 2)

556

56

9

0

36

201

366

531

2x45°
both ends

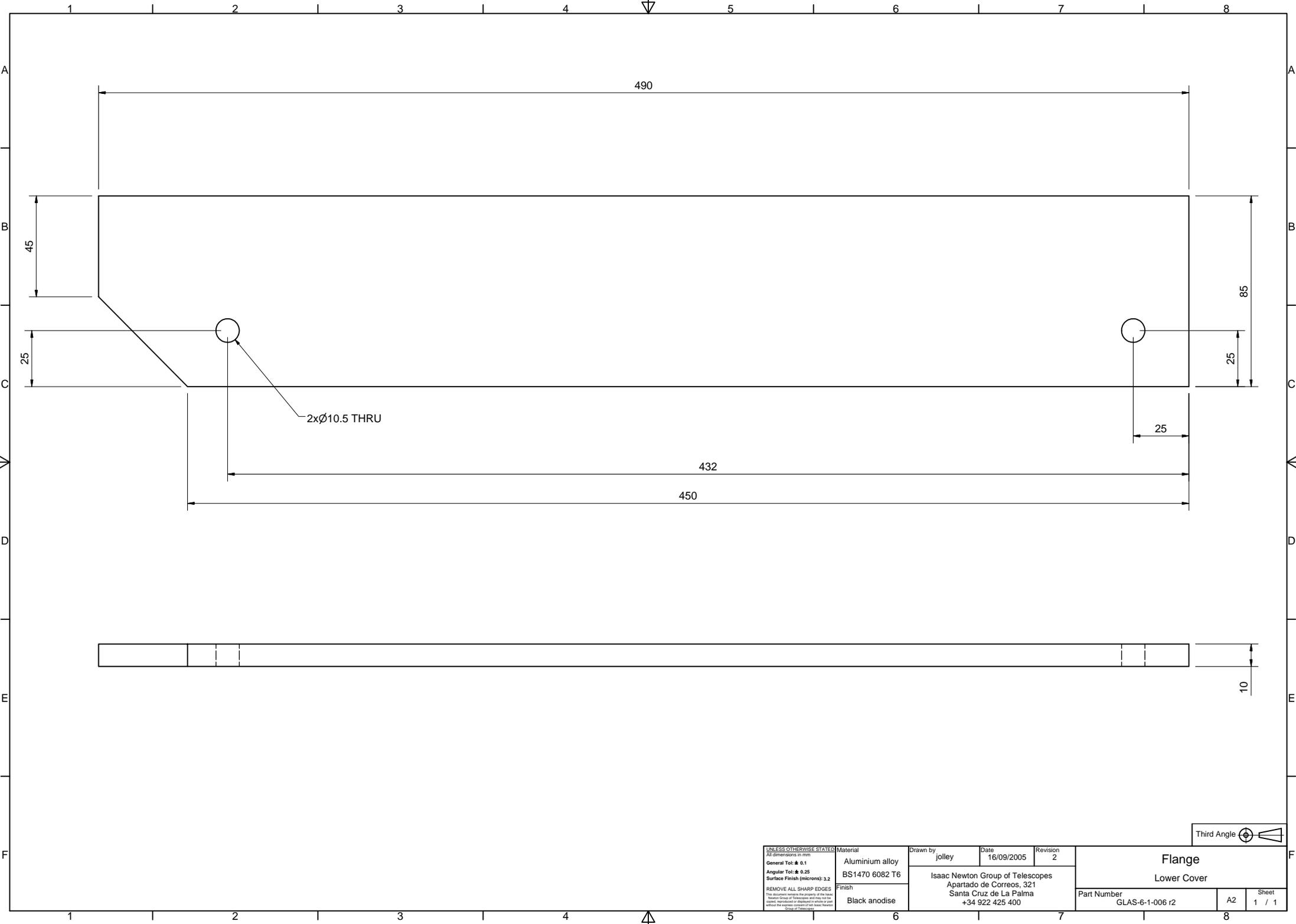
4xØ 9.48
9.40 THRU
DO NOT deburr

1

Remove sharp edges for handling



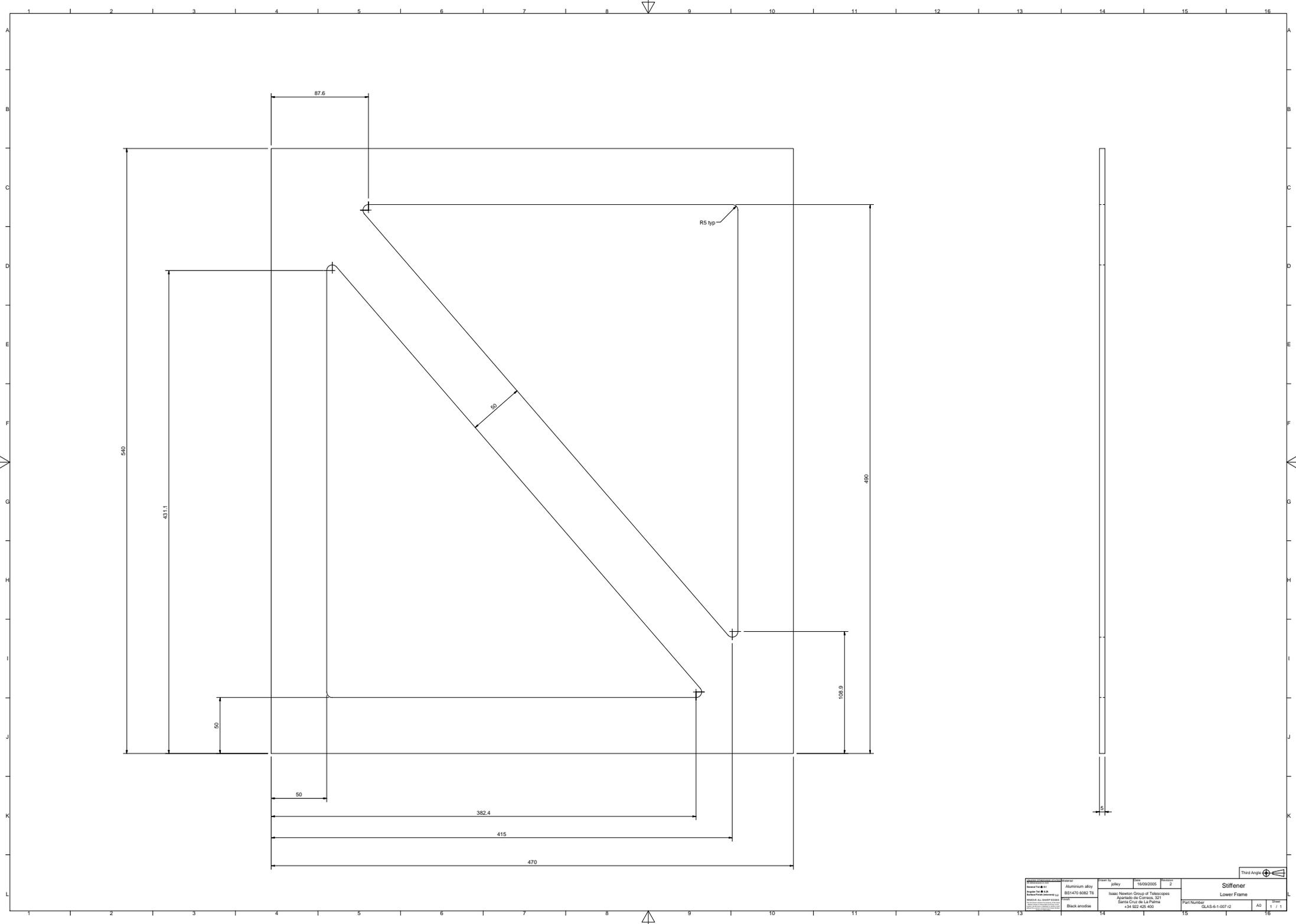
<small>UNLESS OTHERWISE STATED</small> All dimensions in mm General Tol: ± 0.1 Angular Tol: ± 0.25 Surface Finish (microns): 3.2 REMOVE ALL SHARP EDGES <small>This document remains the property of the Isaac Newton Group of Telescopes and may not be copied, reproduced or displayed in whole or part without the express consent of the Isaac Newton Group of Telescopes</small>	Material	Drawn by	Date	Revision	Thin End Plate Lower Cover		
	Aluminium alloy BS1470 6082 T6	jolley	16/09/2005	2			
	Finish	Isaac Newton Group of Telescopes Apartado de Correos, 321 Santa Cruz de La Palma +34 922 425 400			Part Number	Sheet	
	Black anodise				GLAS-6-1-005 r2	A3	1 / 1



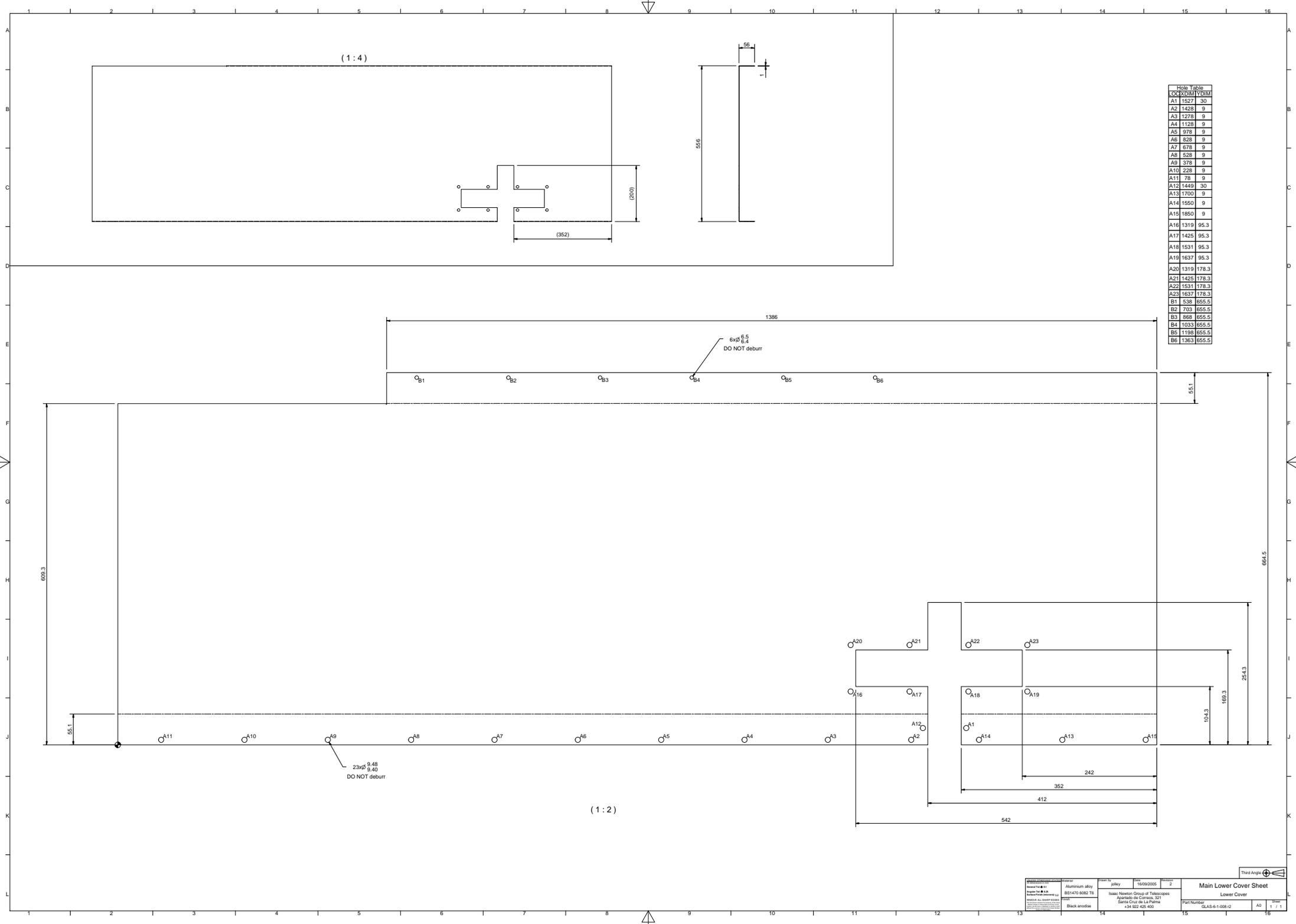
2xØ10.5 THRU



<small>UNLESS OTHERWISE STATED: All dimensions in mm General Tol: ± 0.1 Angular Tol: ± 0.25 Surface Finish (microns): 3.2 REMOVE ALL SHARP EDGES <small>This document remains the property of the Isaac Newton Group of Telescopes and may not be copied, reproduced or distributed in whole or in part without the written consent of the Isaac Newton Group of Telescopes.</small> </small>	Material	Drawn by	Date	Revision	Flange Lower Cover	
	Aluminium alloy	jolley	16/09/2005	2		
	BS1470 6082 T6	Isaac Newton Group of Telescopes Apartado de Correos, 321 Santa Cruz de La Palma +34 922 425 400			Part Number	Sheet
Finish	Black anodise				GLAS-6-1-006 r2	A2 1 / 1



Material: Aluminum alloy Part: B51470 6662 T6 Finish: Black anodize		Item No: 161092005 Revision: 2		Part Name: Stiffener Lower Frame	
Manufacturer: Isaac Newton Group of Telescopes Address: Apartado de Correos, 321 Santa Cruz de la Palma +34 922 425 400			Part Number: GLAS-6-1-007 r2		Sheet: 1 / 1

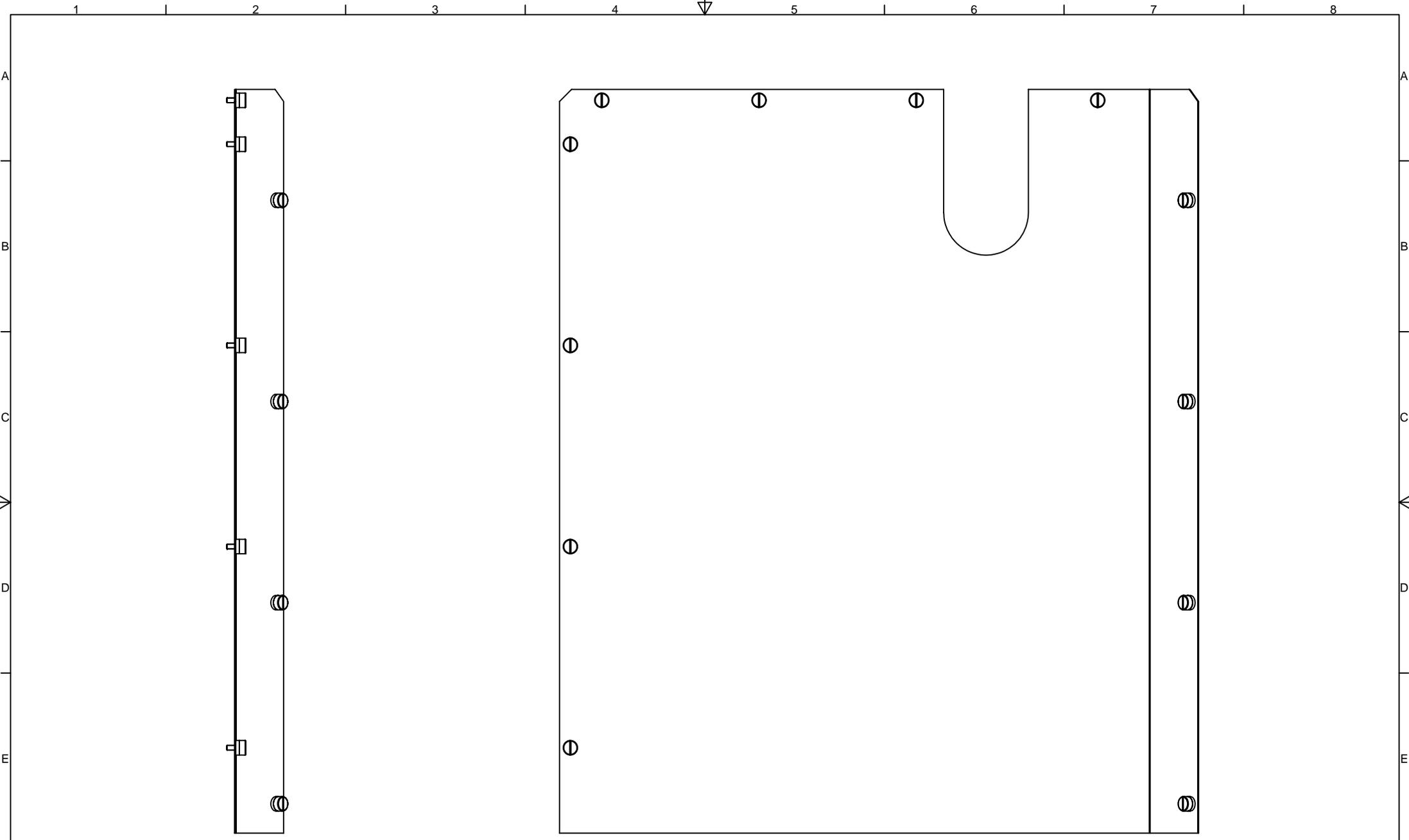


LOC	COORDINATE
A1	1527 30
A2	1428 9
A3	1278 9
A4	1128 9
A5	978 9
A6	828 9
A7	678 9
A8	528 9
A9	378 9
A10	228 9
A11	78 9
A12	1449 30
A13	1700 9
A14	1550 9
A15	1850 9
A16	1319 95.3
A17	1425 95.3
A18	1531 95.3
A19	1637 95.3
A20	1319 178.3
A21	1425 178.3
A22	1531 178.3
A23	1637 178.3
B1	538 655.5
B2	703 655.5
B3	868 655.5
B4	1033 655.5
B5	1198 655.5
B6	1363 655.5

6xφ 5.5
5.4
DO NOT deburr

23xφ 9.48
9.40
DO NOT deburr

		Main Lower Cover Sheet Lower Cover	
Material: Aluminum alloy Part Number: B51470 6662 T6 Finish: Black anodize	Drawing No.: 16-092005 Scale: 2 Issued by: gilly Checked by: gilly Approved by: gilly Date: 2016-09-20	Issac Newton Group of Telescopes Apartado de Correos, 521 Santa Cruz de La Palma +34 922 425 400	Part Number: GLAS-6-1-008 r2 A0 / 1



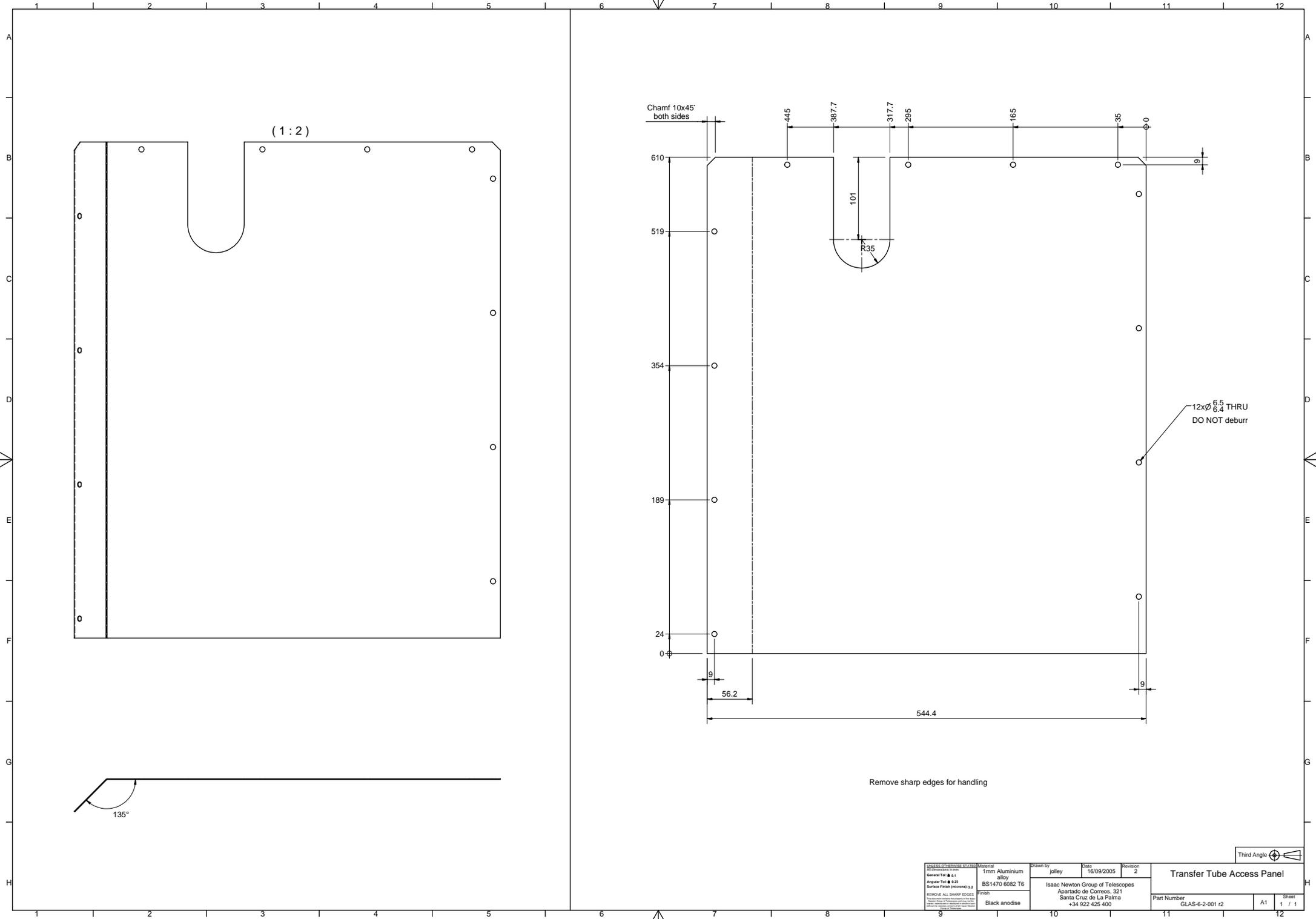
Note, Fasteners supplied by Northern Precision LTD.
Press fit as recommended.

(1 : 2)

Third Angle

2	12	NPFL2-M4-1-CN	M4 panel fastener
1	1	GLAS-6-2-001 r2	Transfer tube access panel
ITEM	QTY	PART NUMBER	DESCRIPTION

<small>UNLESS OTHERWISE STATED: All dimensions in mm General Tol: \pm 0.1 Angular Tol: \pm 0.25 Surface Finish (microns): 3.2 REMOVE ALL SHARP EDGES <small>This document remains the property of the Isaac Newton Group of Telescopes and may not be copied, reproduced or distributed in any form without the written consent of the Isaac Newton Group of Telescopes.</small> </small>	Material	Drawn by jolley	Date 16/09/2005	Revision 2	Transfer Tube Access Panel Assembly
	Finish	Isaac Newton Group of Telescopes Apartado de Correos, 321 Santa Cruz de La Palma +34 922 425 400			
Part Number GLAS-6-2-000 r2					Sheet 1 / 1



(1:2)

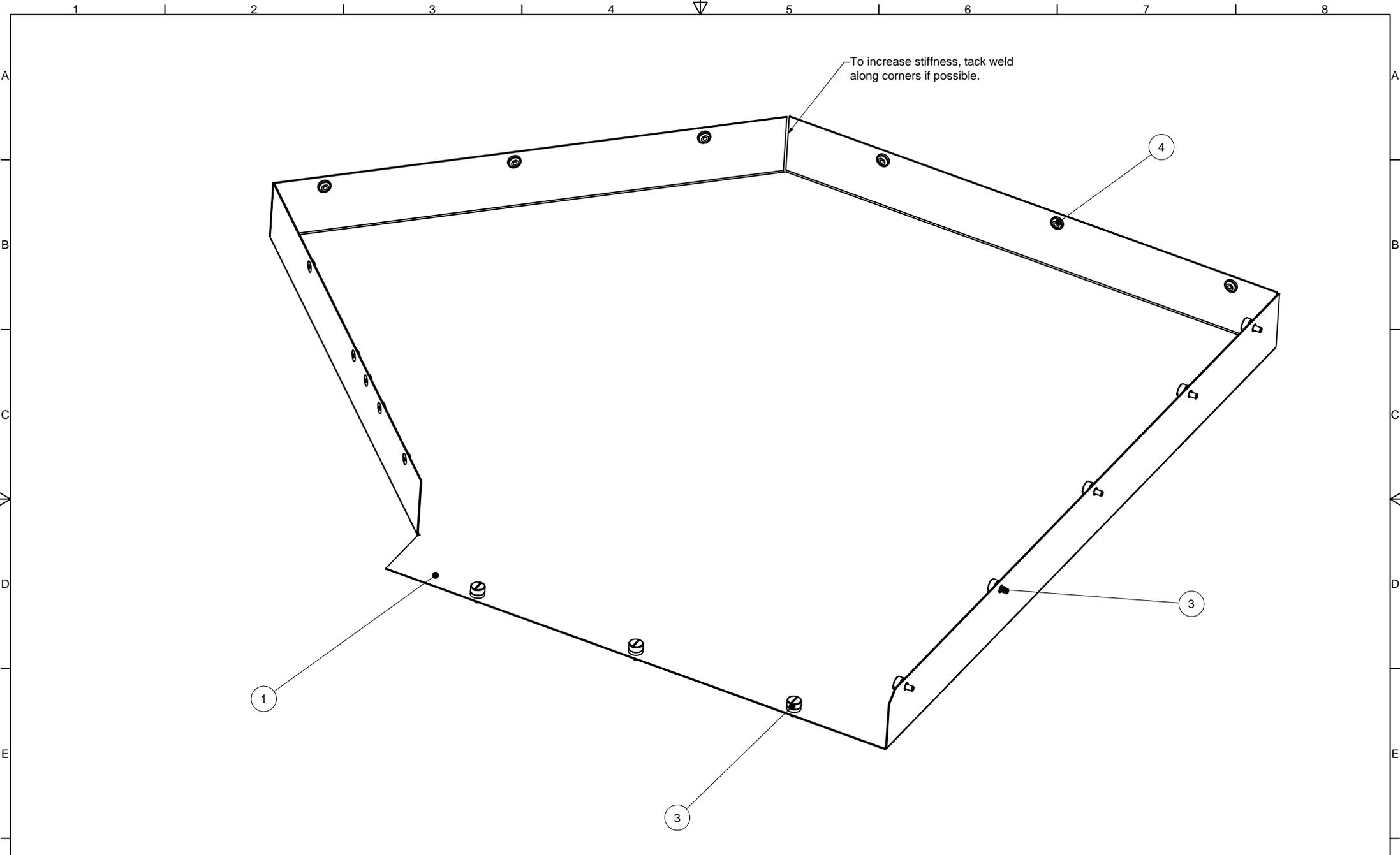
Chamf 10x45°
both sides

12xØ 6.5
6.4 THRU
DO NOT deburr

Remove sharp edges for handling

Third Angle

REFERENCE DIMENSIONS General Tol. 0.1 Angular Tol. 0.05 Surface Finish (micrometres) 3.2 FINISH Black anodise	Material 1mm Aluminium alloy BS1470 6082 T6	Drawn by jolley	Date 16/09/2005	Revision 2	Transfer Tube Access Panel Isaac Newton Group of Telescopes Apartado de Correos, 321 Santa Cruz de La Palma +34 922 425 400	Part Number GLAS-6-2-001 r2	A1	Sheet 1 / 1
<small>RESERVE ALL DIMENSIONS The dimensions shown on this drawing are in millimetres unless otherwise stated. All dimensions are to the centre of a hole or the surface of a feature unless otherwise stated.</small>								



Note, fasteners available from Northern Precision LTD.
Press fit as recommended.

4	11	NAS-M4-1	M4 Floating clinch nut
3	8	NPFL2-M4-1-CN	M4 panel fastener
1	1	GLAS-6-3-001 r2	Upper Access Panel
ITEM	QTY	PART NUMBER	DESCRIPTION

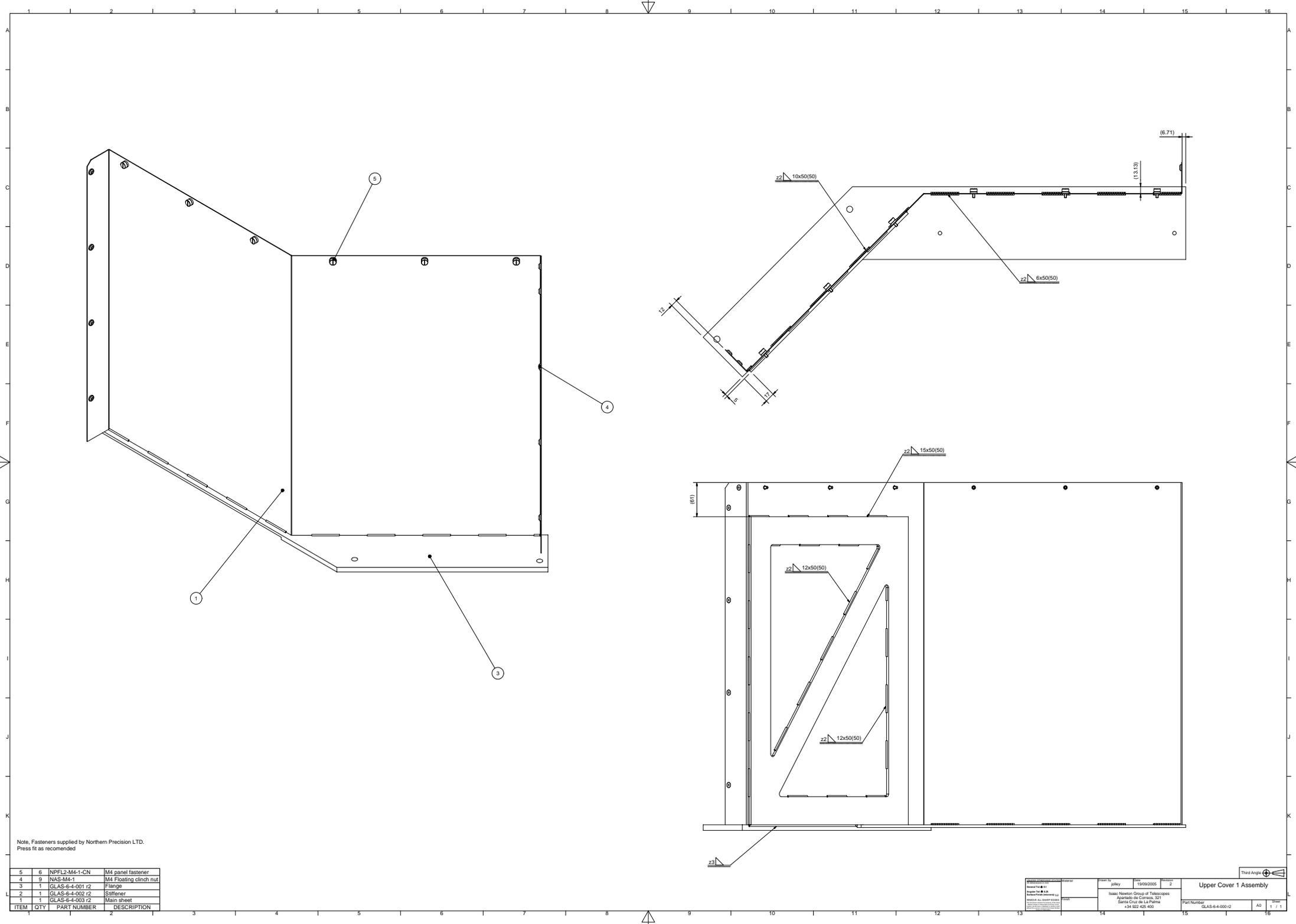
UNLESS OTHERWISE STATED:
All dimensions in mm
General Tol: ± 0.1
Angular Tol: ± 0.25
Surface Finish (microns): 3.2
REMOVE ALL SHARP EDGES
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Material
Finish

Drawn by jolley
Date 16/09/2005
Revision 2
Isaac Newton Group of Telescopes
Apartado de Correos, 321
Santa Cruz de La Palma
+34 922 425 400

Upper Access Panel Assembly
Part Number GLAS-6-3-000 r2
A2
Sheet 1 / 1

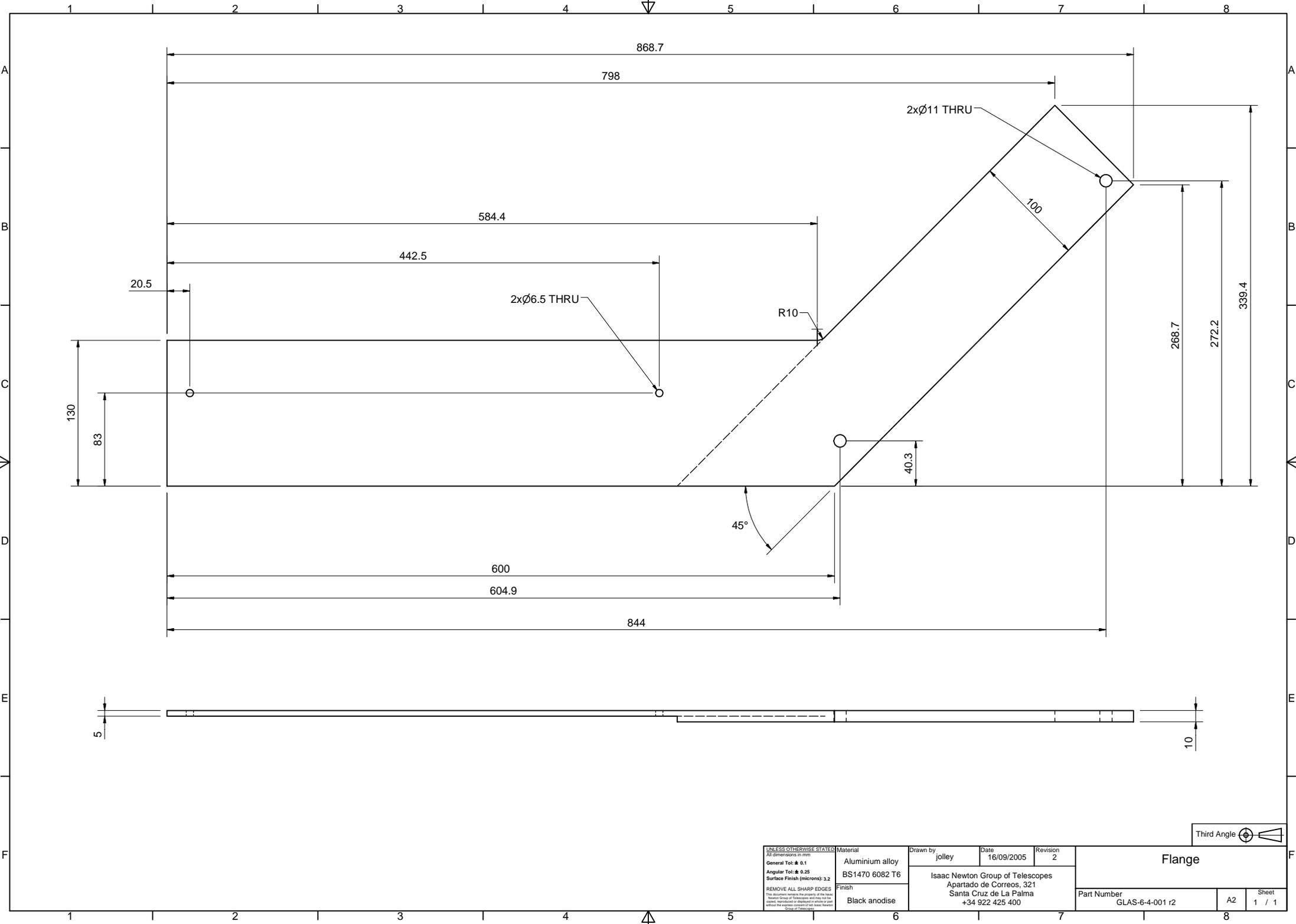




Note, Fasteners supplied by Northern Precision LTD.
Press fit as recommended

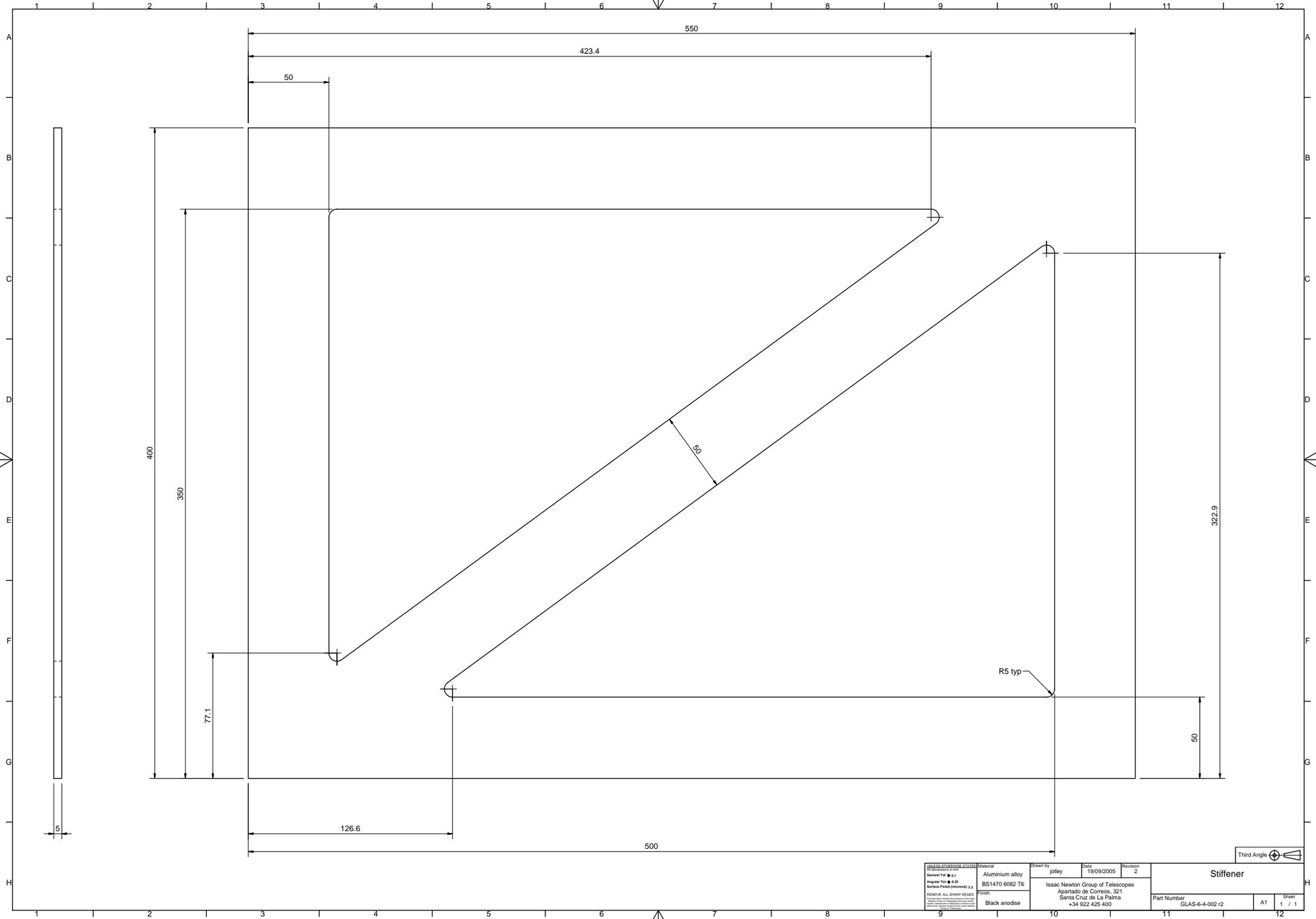
ITEM	QTY	PART NUMBER	DESCRIPTION
5	6	NPFL2-M4-1-CN	M4 panel fastener
4	9	NAS-M4-1	M4 Floating clinch nut
3	1	GLAS-6-4-001 r2	Flange
2	1	GLAS-6-4-002 r2	Stiffener
1	1	GLAS-6-4-003 r2	Main sheet

<small> DRAWING NO: 191092005 REV: 2 DATE: 19/09/2005 DRAWN BY: gilly CHECKED BY: J.B. APPROVED BY: J.B. MATERIALS: ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED FINISH: ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED </small>	<small> Isaac Newton Group of Telescopes Apartado de Correos, 521 Santa Cruz de La Palma +34 922 425 400 </small>	<small> Part Number GLAS-6-4-003 r2 </small>	<small> Sheet 1 / 1 </small>
<small> Upper Cover 1 Assembly </small>		<small> Third Angle </small>	

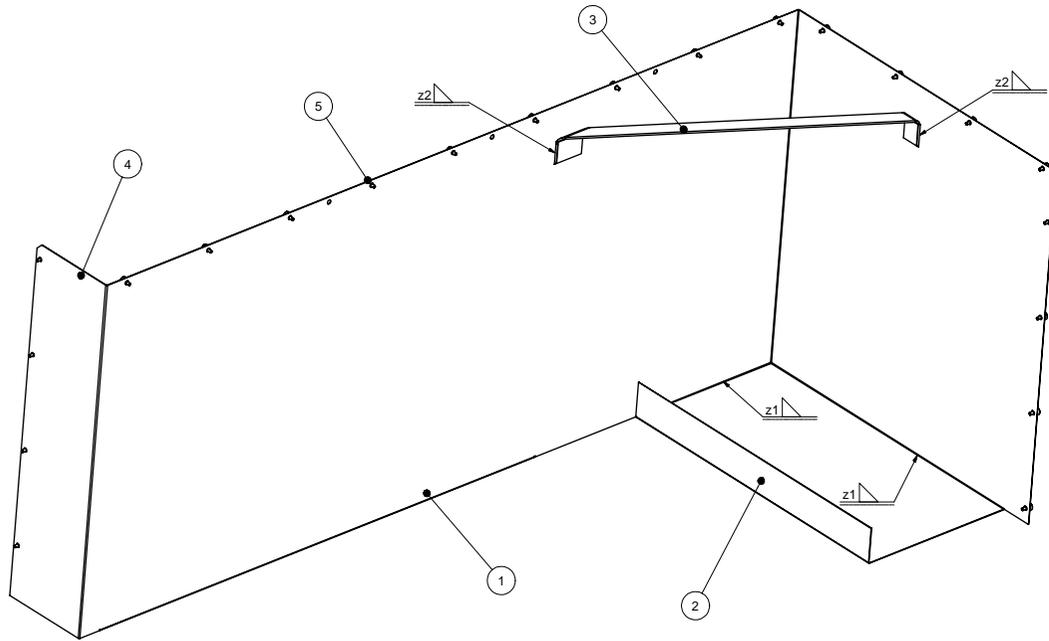
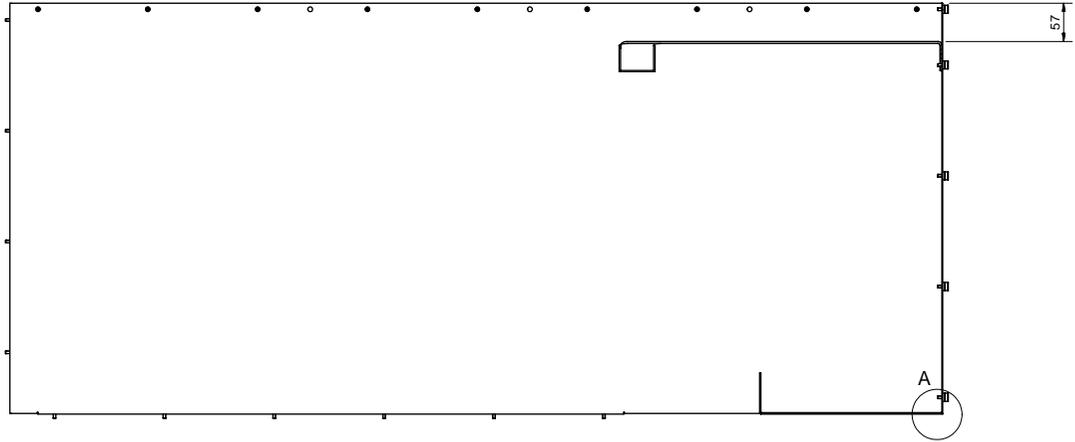
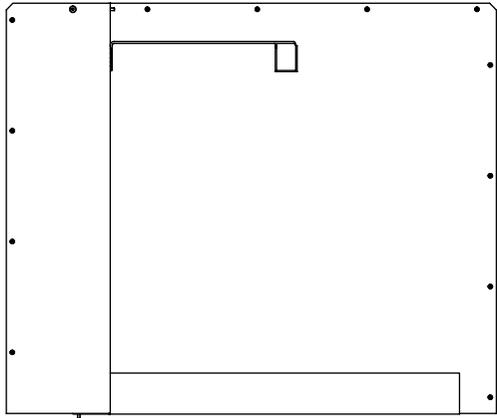


<small>UNLESS OTHERWISE STATED: All dimensions in mm General Tol: ± 0.1 Angular Tol: ± 0.25 Surface Finish (microns): 3.2 REMOVE ALL SHARP EDGES <small>This document remains the property of the Isaac Newton Group of Telescopes and may not be copied, reproduced or distributed in any form without the written consent of the Isaac Newton Group of Telescopes.</small> </small>	Material	Drawn by	Date	Revision	Flange	
	Aluminium alloy BS1470 6082 T6	jolley	16/09/2005	2		
	Finish	Isaac Newton Group of Telescopes Apartado de Correos, 321 Santa Cruz de La Palma +34 922 425 400			Part Number	Sheet
	Black anodise				GLAS-6-4-001 r2	A2 1 / 1

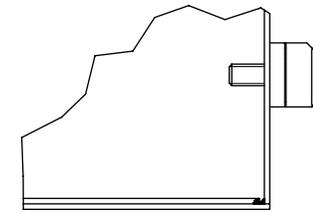




GLAS-6-4-002.r2 All dimensions in mm General Tol. ± 0.1 Angular Tol. ± 0.05 Surface Finish (micrometers) 3.2 FINISH EXCEPTED: ALL DIMENSIONS SPECIFIED TO BE UNLESS OTHERWISE SPECIFIED BY THE DRAWING. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.		Material Aluminium alloy BS1470 6082 T6 Finish Black anodise	Drawn by jolley	Date 19/09/2005	Revision 2	Stiffener Isaac Newton Group of Telescopes Apartado de Correos, 321 Santa Cruz de La Palma +34 922 425 400	Part Number GLAS-6-4-002.r2	A1	Sheet 1 / 1
Third Angle									



(1:4)

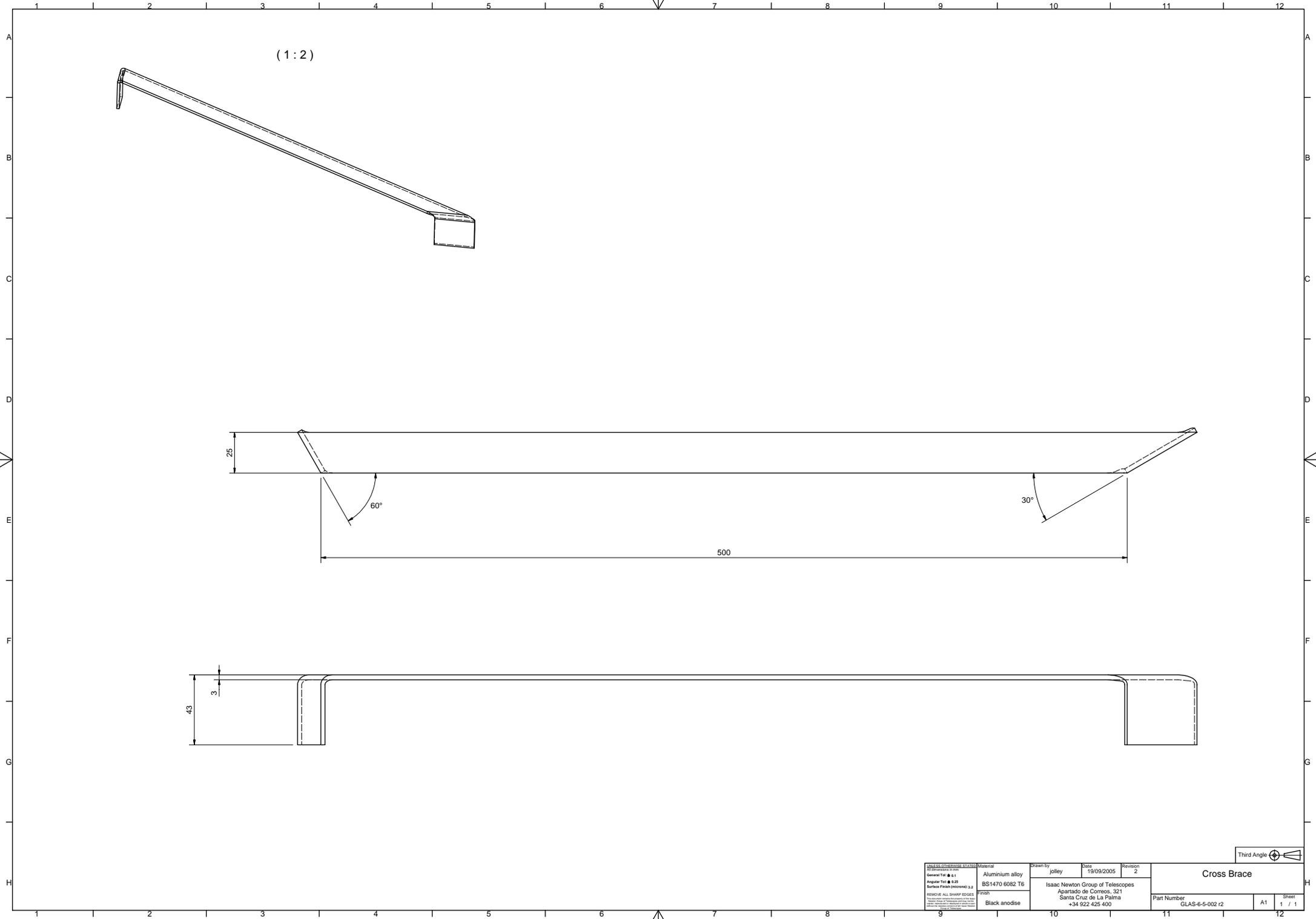


A (2:1)

5	27	NPFL2-M4-1-CN	M4 panel fastener
4	1	NAS-M4-1	M4 Floating clinch nut
3	1	GLAS-6-5-002 r2	Cross brace
2	1	GLAS-6-5-003 r2	Upper cover bottom sheet
1	1	GLAS-6-5-004 r2	Upper cover main sheet
ITEM	QTY	PART NUMBER	DESCRIPTION

<small> ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED GENERAL TOL. ± 0.1 ANGULAR TOL. ± 0.05 SURFACE FINISH (PERFORMANCE) 3.2 FINISH INTERPRET ALL DIMENSIONS ACCORDING TO ISO 10110-1:2000 </small>	<small> Material Isaac Newton Group of Telescopes Apartado de Correos, 321 Santa Cruz de La Palma +34 922 425 400 </small>	<small> Drawn by jolley </small>	<small> Date 19/09/2005 </small>	<small> Revision 1 </small>	Upper Cover Main Weldment Assembly	<small> Part Number GLAS-6-5-000 r2 </small>	<small> A1 </small>	<small> Sheet 1 / 1 </small>
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(1:2)

25

60°

500

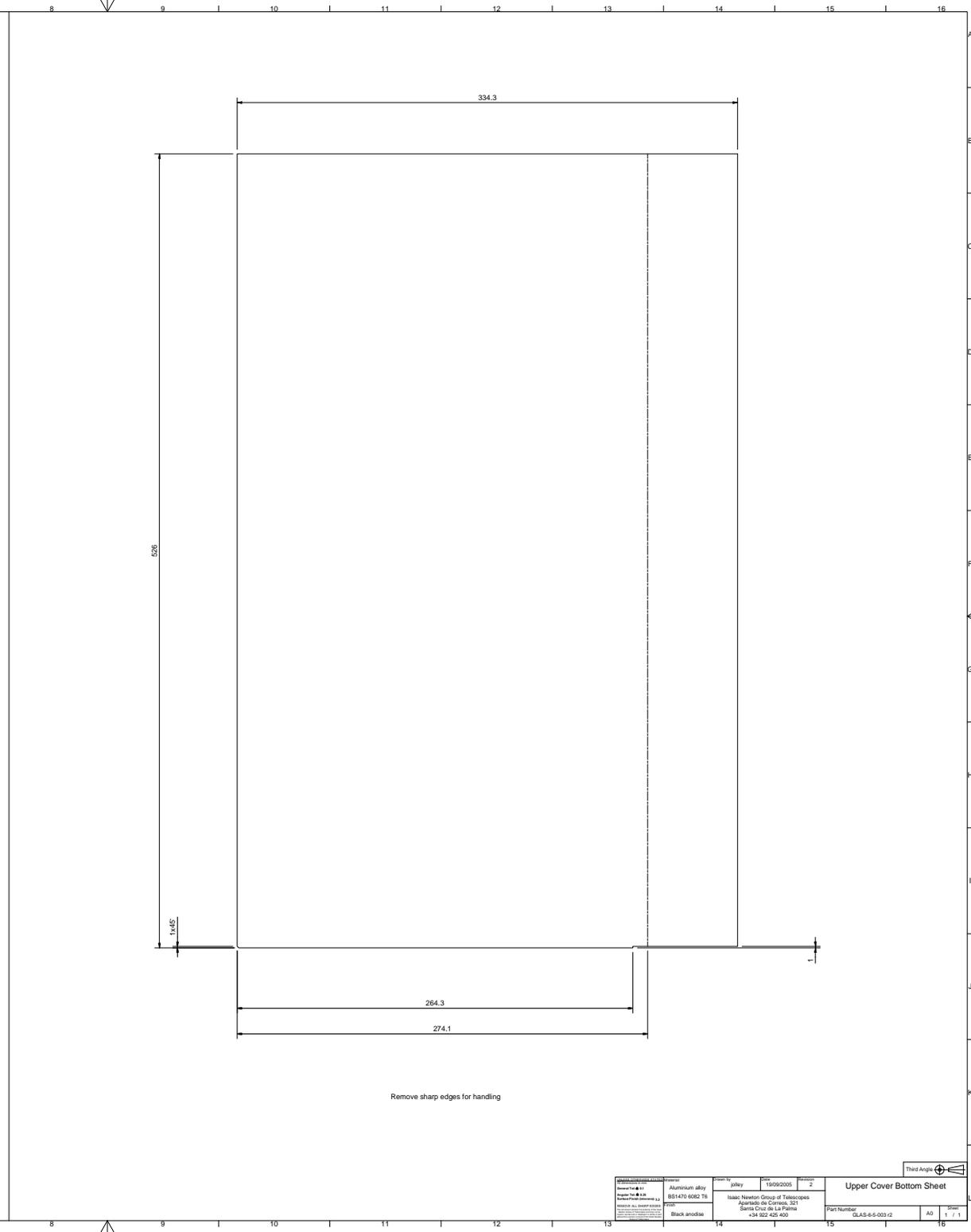
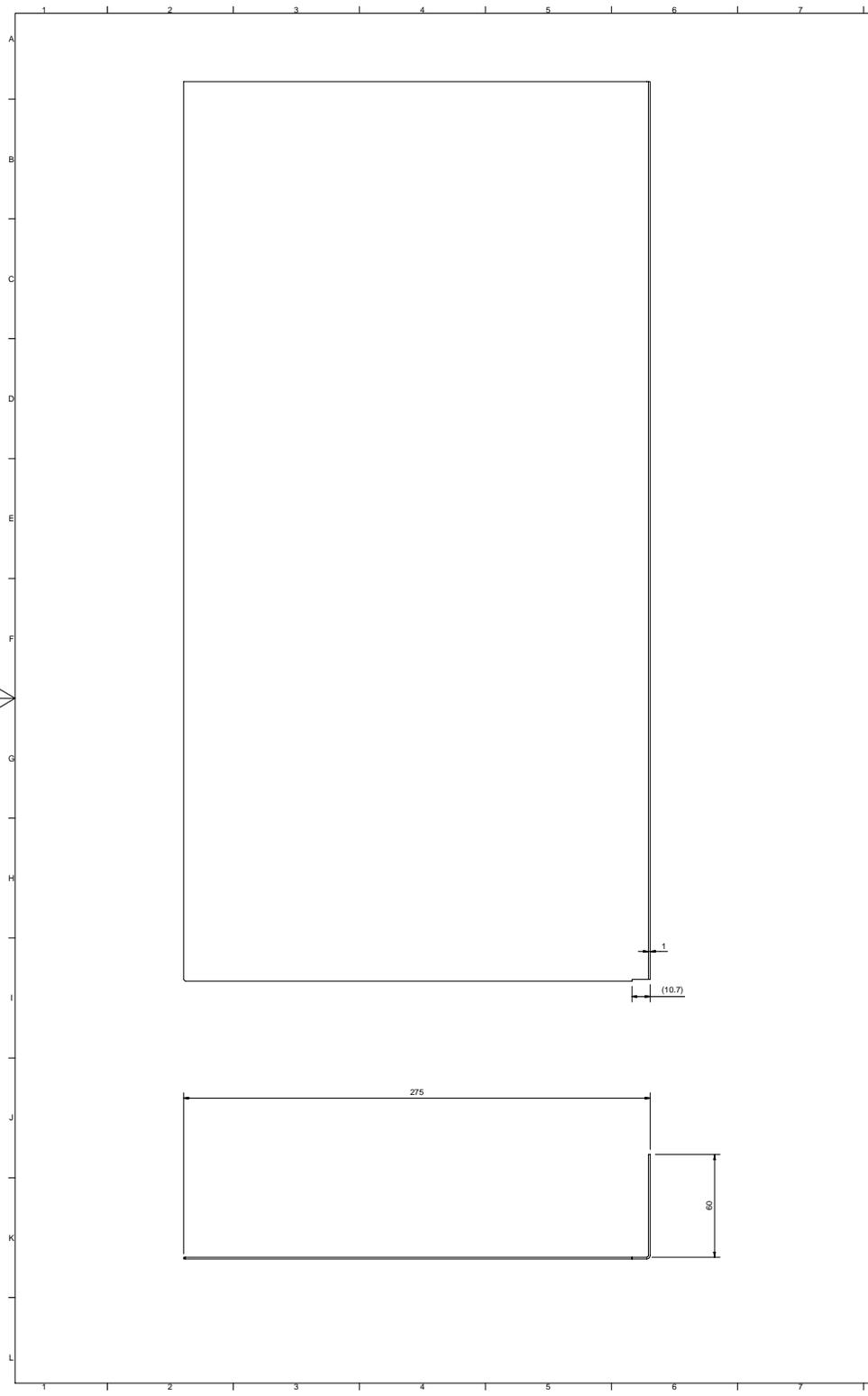
30°

43

3

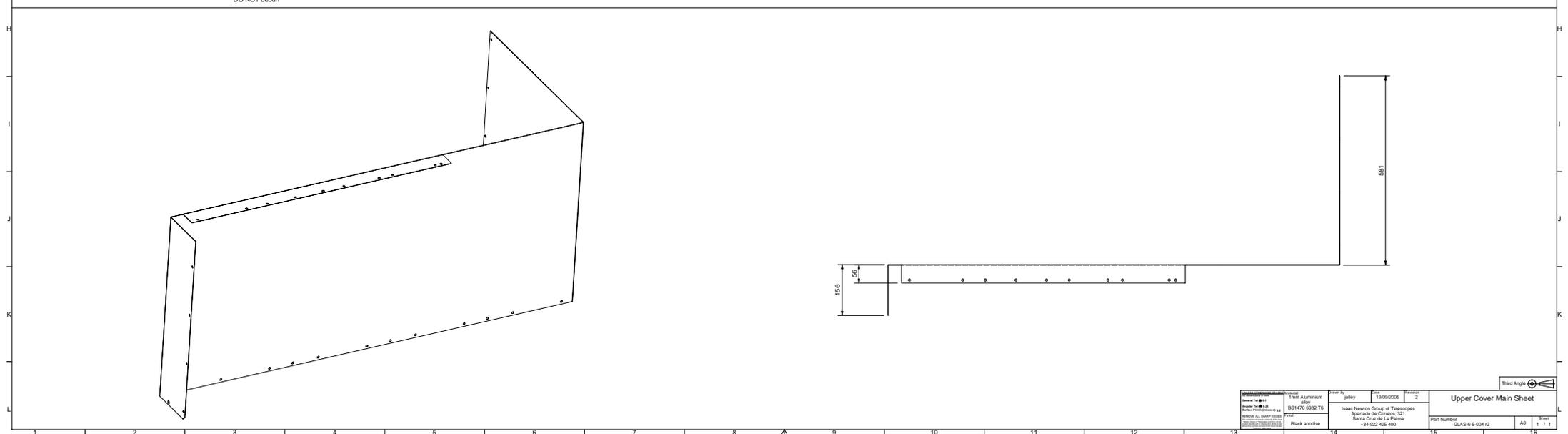
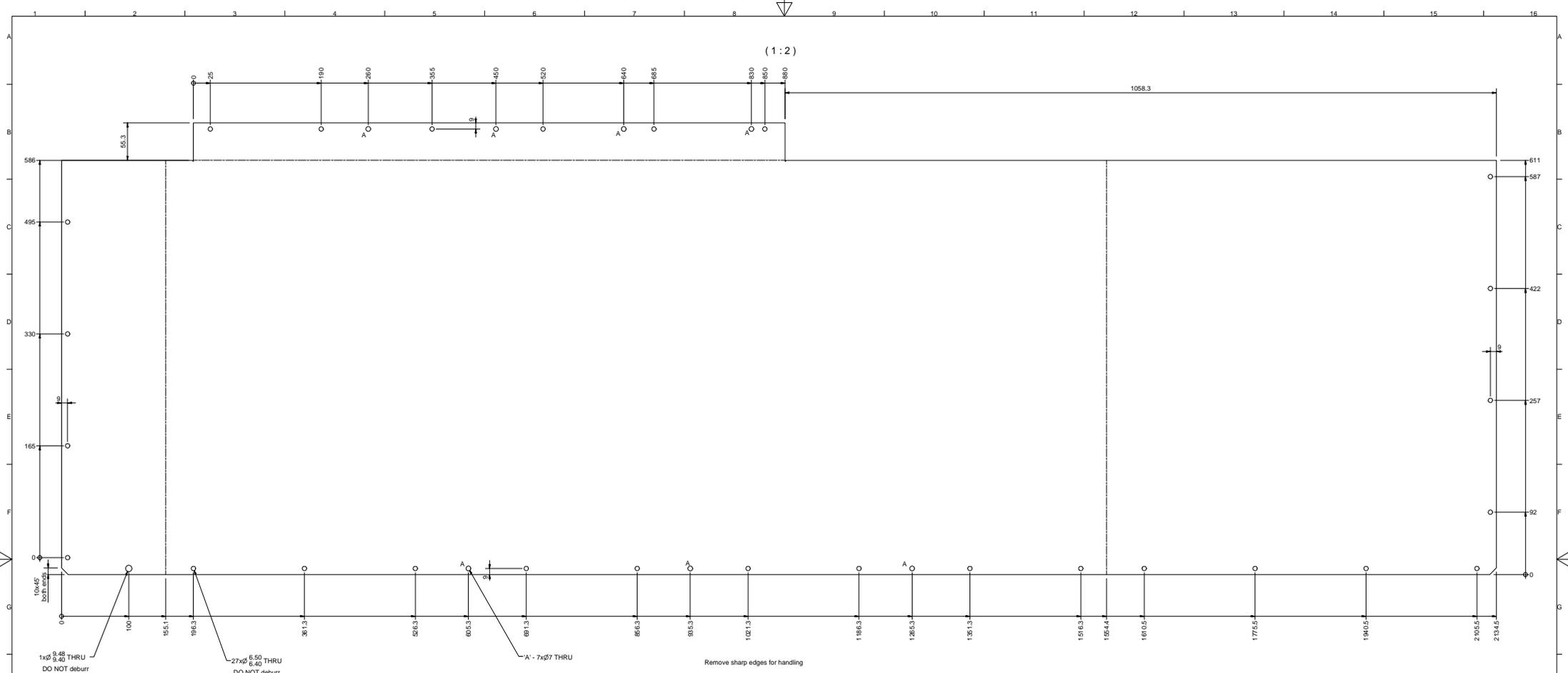
GLAS-CONSTRUCCIONES S.L. Edif. Industrial 60000 Carretera T-10, 6-11 Angulell 081-025 Surface Finish (ISO 9001:2008) 3.2 <small>RESERVE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED</small>		Material Aluminium alloy BS1470 6082 T6 Finish Black anodise	Drawn by jolley	Date 19/09/2005	Revision 2	Cross Brace	Part Number GLAS-6-5-002 r2	Sheet 1 / 1
			Isaac Newton Group of Telescopes Apartado de Correos, 321 Santa Cruz de La Palma +34 922 425 400					



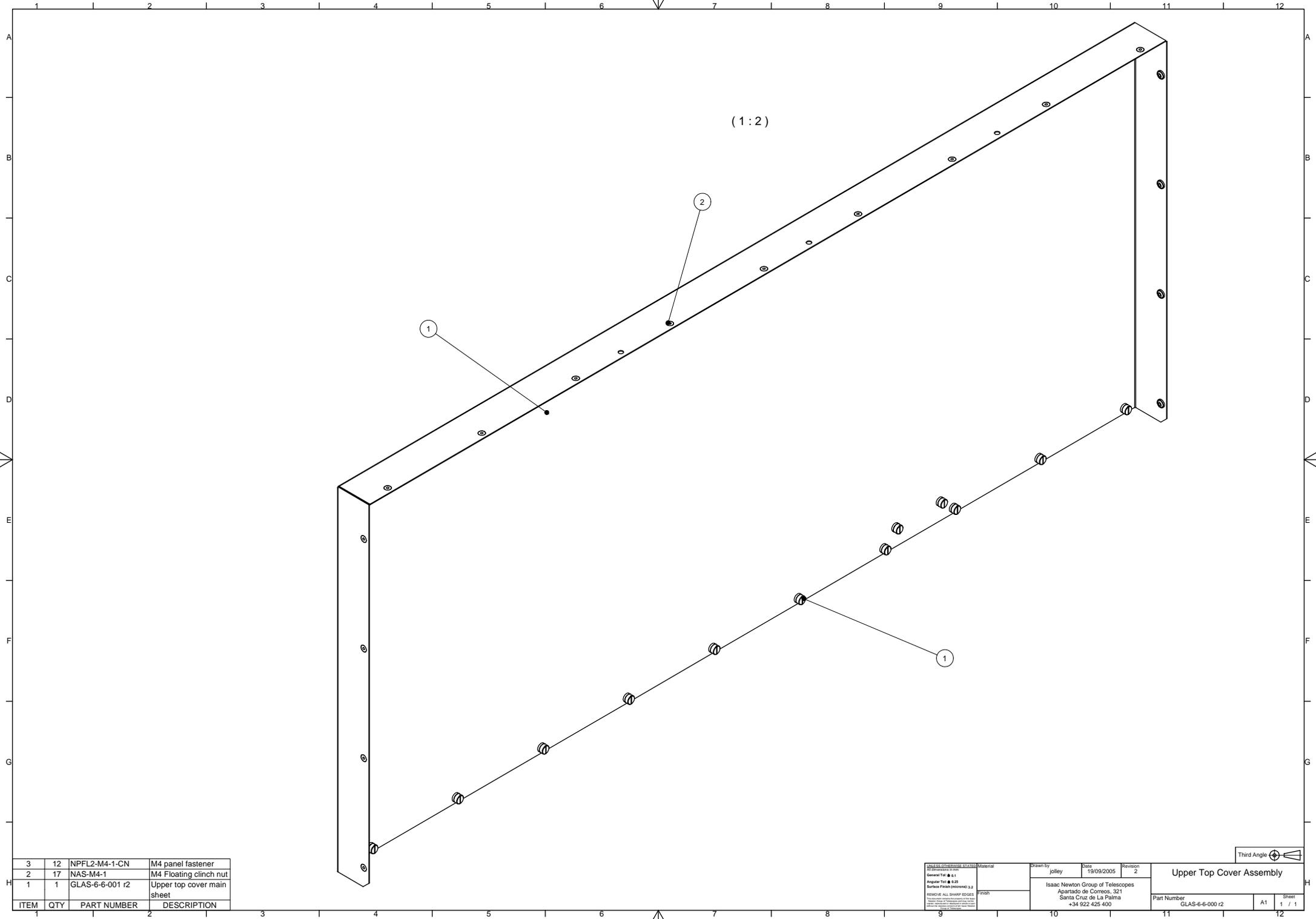


Remove sharp edges for handling

		Upper Cover Bottom Sheet	
<small> MATERIAL Aluminum alloy 6061-T6 FINISH Black anodize </small>	<small> PART NUMBER 651479 6662 T6 </small>	<small> DATE 19/09/2005 </small>	<small> REV 2 </small>
<small> ISLAC Newton Group of Telescopes Apartado de Correos, 521 Santa Cruz de La Palma +34 922 425 400 </small>		<small> Part Number GLAS-6-003 r2 </small>	<small> AD 1 / 1 </small>



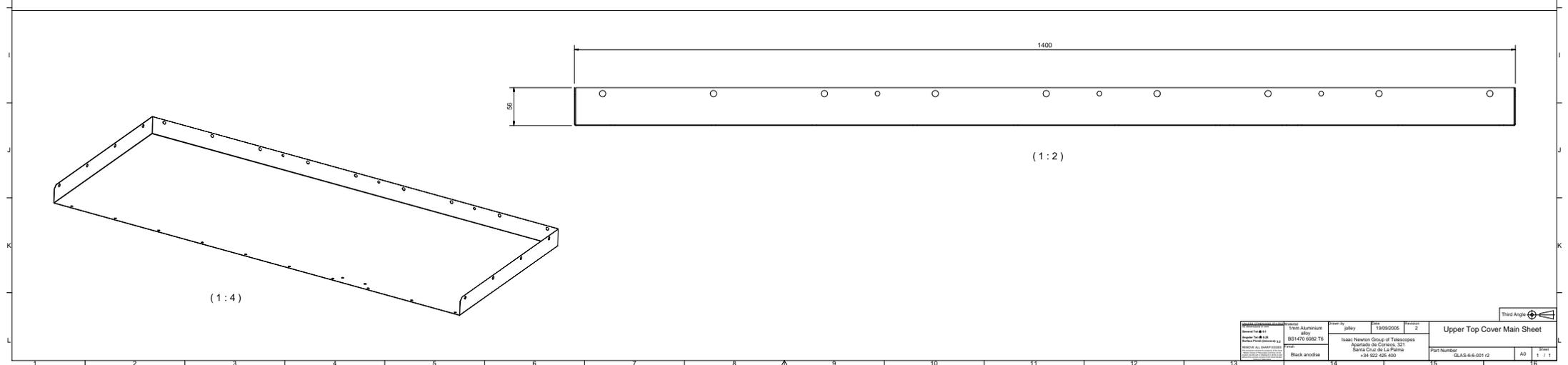
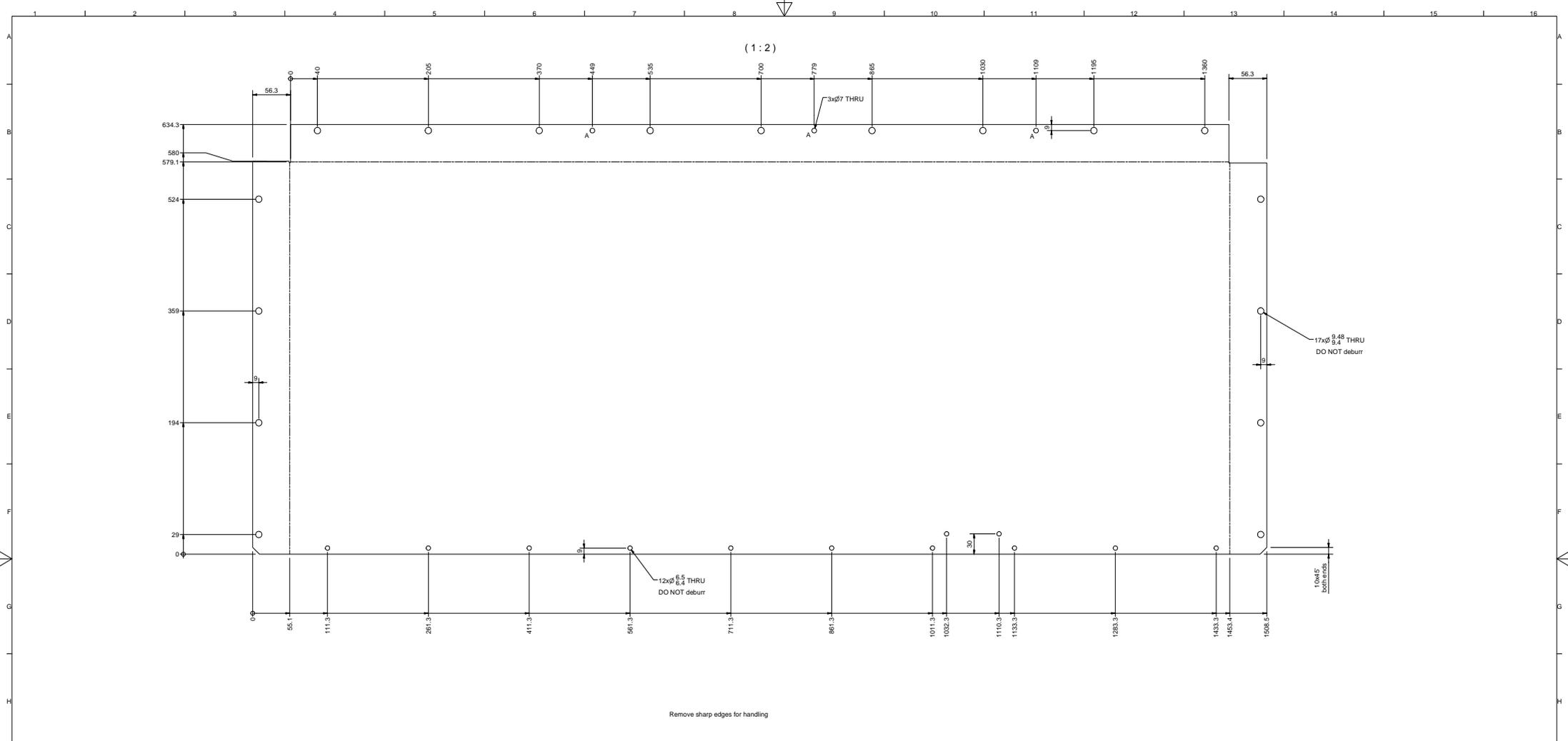
Upper Cover Main Sheet		Part Number: GLAS-6-S-004 r2	
Material: 7075 Aluminum alloy Finish: B51470 6862 T6 Anodize: Black anodize	Drawing: gilly Date: 15/09/2005 Revision: 2	Issued by: Isaac Newton Group of Telescopes Approved by: Corrado, S21 Date: 04/04/2005 Contact: +34 922 425 400	
Author: A.D. Checked: A.D. Drawn: A.D. Scale: 1:2	Title: Upper Cover Main Sheet	Sheet: 1 / 1	Total: 1 / 1



3	12	NPFL2-M4-1-CN	M4 panel fastener
2	17	NAS-M4-1	M4 Floating clinch nut
1	1	GLAS-6-6-001 r2	Upper top cover main sheet
ITEM	QTY	PART NUMBER	DESCRIPTION

ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED General Tol. ± 0.1 Angular Tol. ± 0.05 Surface Finish (micrometers) 3.2 FINISH EXCEPT ALL DIMENSIONS SPECIFIED TO THIS STANDARD, ALL DIMENSIONS SHALL BE TO THE UNLESS OTHERWISE SPECIFIED TO THE CONTRARY.	Material Finish	Drawn by jolley	Date 19/09/2005	Revision 2	Upper Top Cover Assembly
Isaac Newton Group of Telescopes Apartado de Correos, 321 Santa Cruz de La Palma +34 922 425 400					
Part Number GLAS-6-6-000 r2				A1	Sheet 1 / 1

Third Angle



1700 Aluminum alloy B51470 6062 T6 Black anodize		gily 19092005 2	Isaac Newton Group of Telescopes Apartado de Correos, 521 Santa Cruz de La Palma +34 922 425 400	Part Number GLAS-6-001 r2	Sheet 1 / 1
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Upper Top Cover Main Sheet