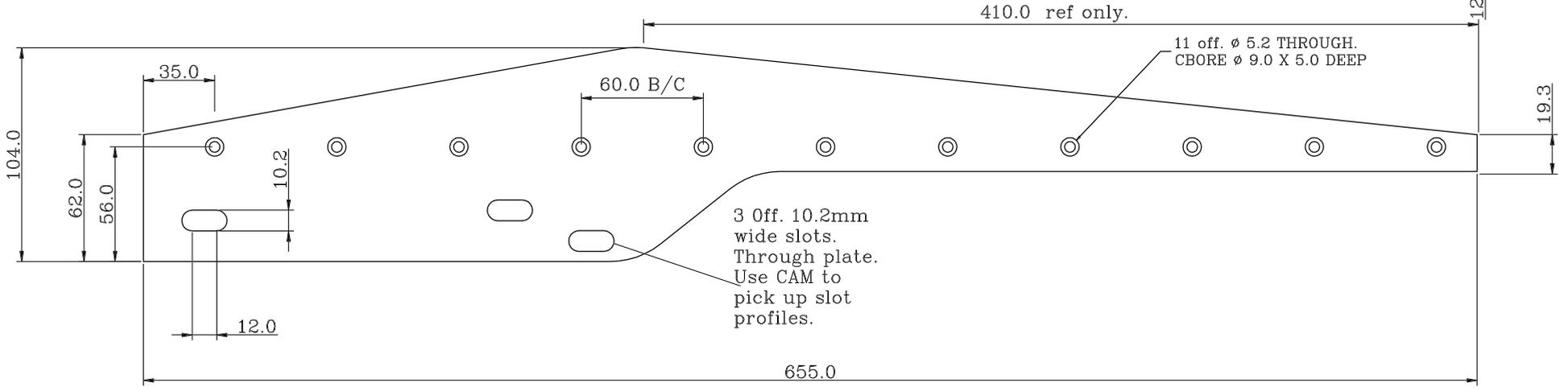
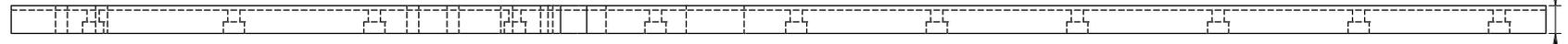
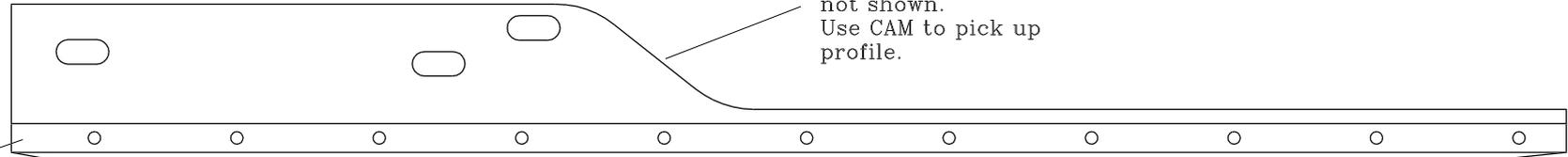


Detailed dimensions not shown. Use CAM to pick up profile.

Slot is nominally 12mm wide x 2mm deep (Slot to be machined according to stock 12mm DURAL plate width. Tolerance H7 g6 fit.



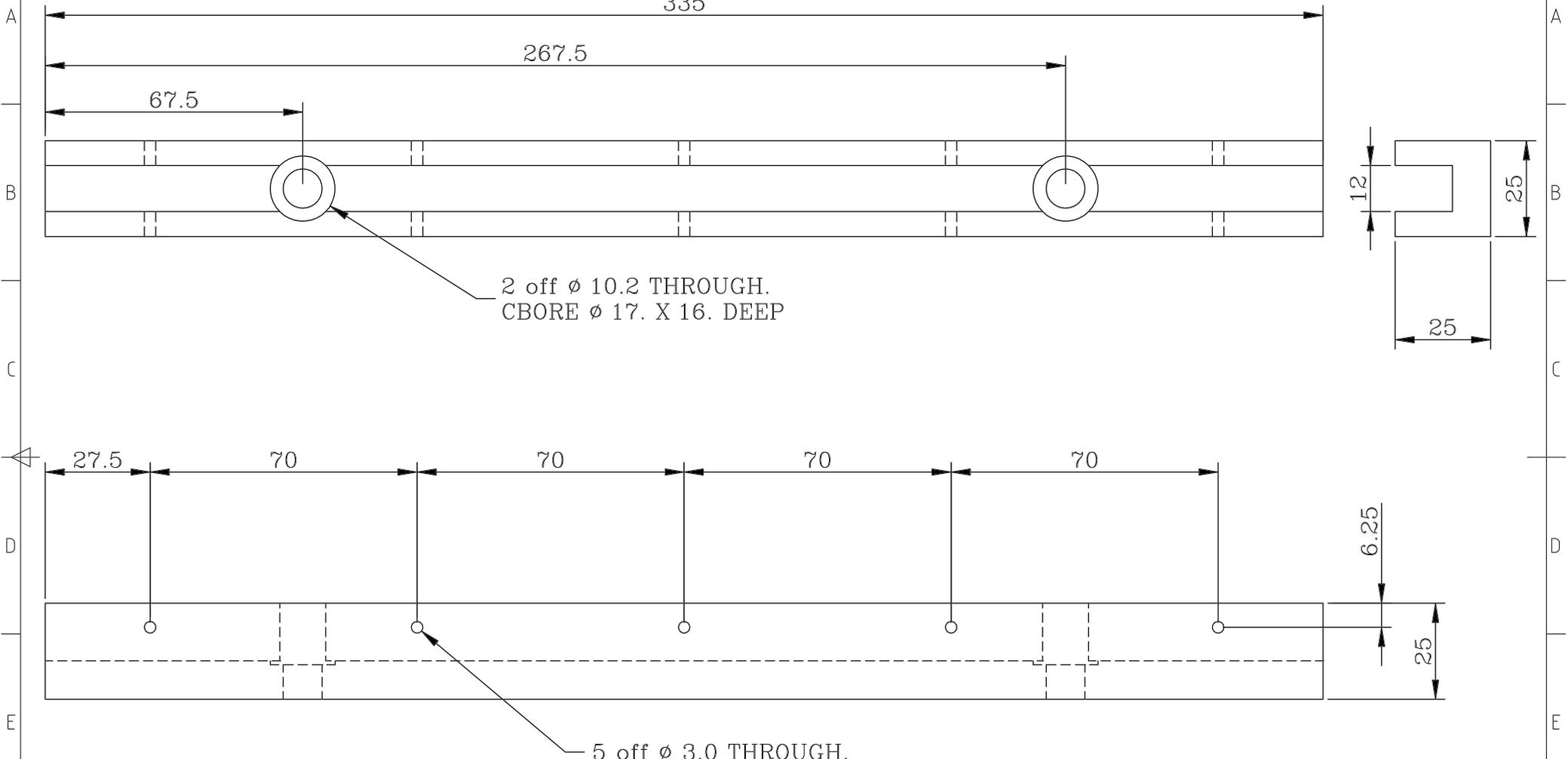
1	KMD	17/02/99	PDJ	17/02/99
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPRVD

<p><b>UNLESS OTHERWISE STATED</b></p> <p>ALL DIMENSIONS IN mm</p> <p>GENERAL TOL: <math>\pm</math> 0.1</p> <p>ANGULAR TOL: <math>\pm</math> 0.1</p> <p>SURFACE FINISH 3.2/<math>\sqrt</math> (MICRONS)</p> <p>REMOVE ALL SHARP EDGES</p> <p><small>This document belongs to the ISAAC NEWTON GROUP of TELESCOPES and may not be copied, reproduced or displayed in whole or in part without the express written consent of the ISAAC NEWTON GROUP of TELESCOPES</small></p>	TITLE: Out rigger B side Plate				<p><b>ISAAC NEWTON GROUP</b></p> <p>Apartado de Correos,321</p> <p>38780 S/C de La Palma</p> <p>Canary Islands</p> <p>SPAIN</p> <p>Tel: +34 922 425 400</p>			
	MATERIAL: DURAL	ORIGINAL SCALE: 1:1	MAIN SYSTEM: INGRID	DWG TYPE: Part				
	FINISH: NATURAL	SHEET SIZE: A1	SUB-SYSTEM: Cossegrain Support Bracket	LOCATION: BO				
			ITEM: Aluminium Plate	USED ON: B0brkGA1				
				DRAWING NUMBER: B0brk015		SHEET 1 of 1		

Drawing No. B0brk007.dwg

DO NOT SCALE IF IN DOUBT ASK

THIRD ANGLE 



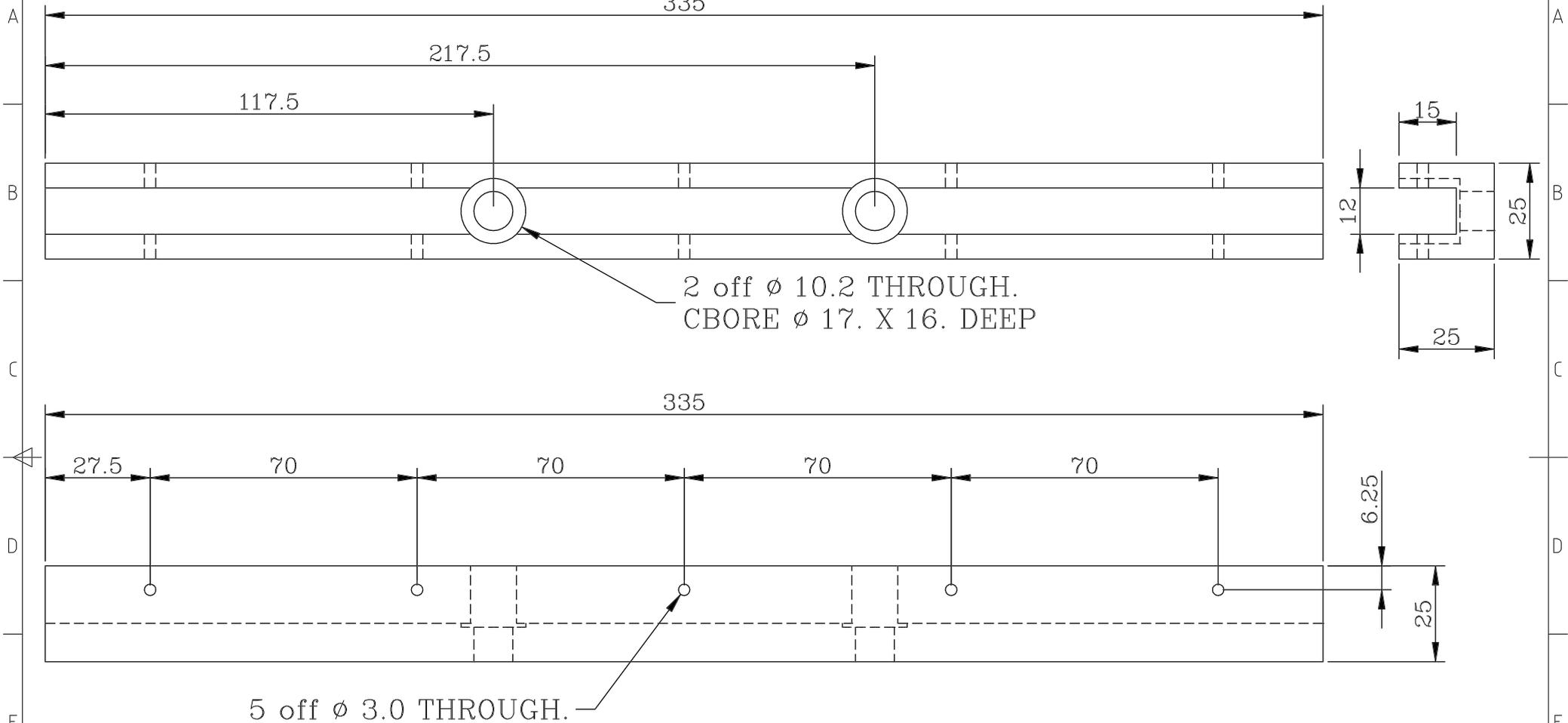
2 off  $\phi$  10.2 THROUGH.  
CBORE  $\phi$  17. X 16. DEEP

5 off  $\phi$  3.0 THROUGH.

NB Please use dwg No.  
B0brk006.dwg for more  
detailed manufacturing  
information.

1	KMD	17/02/99	KMD	17/02/99
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPRVD

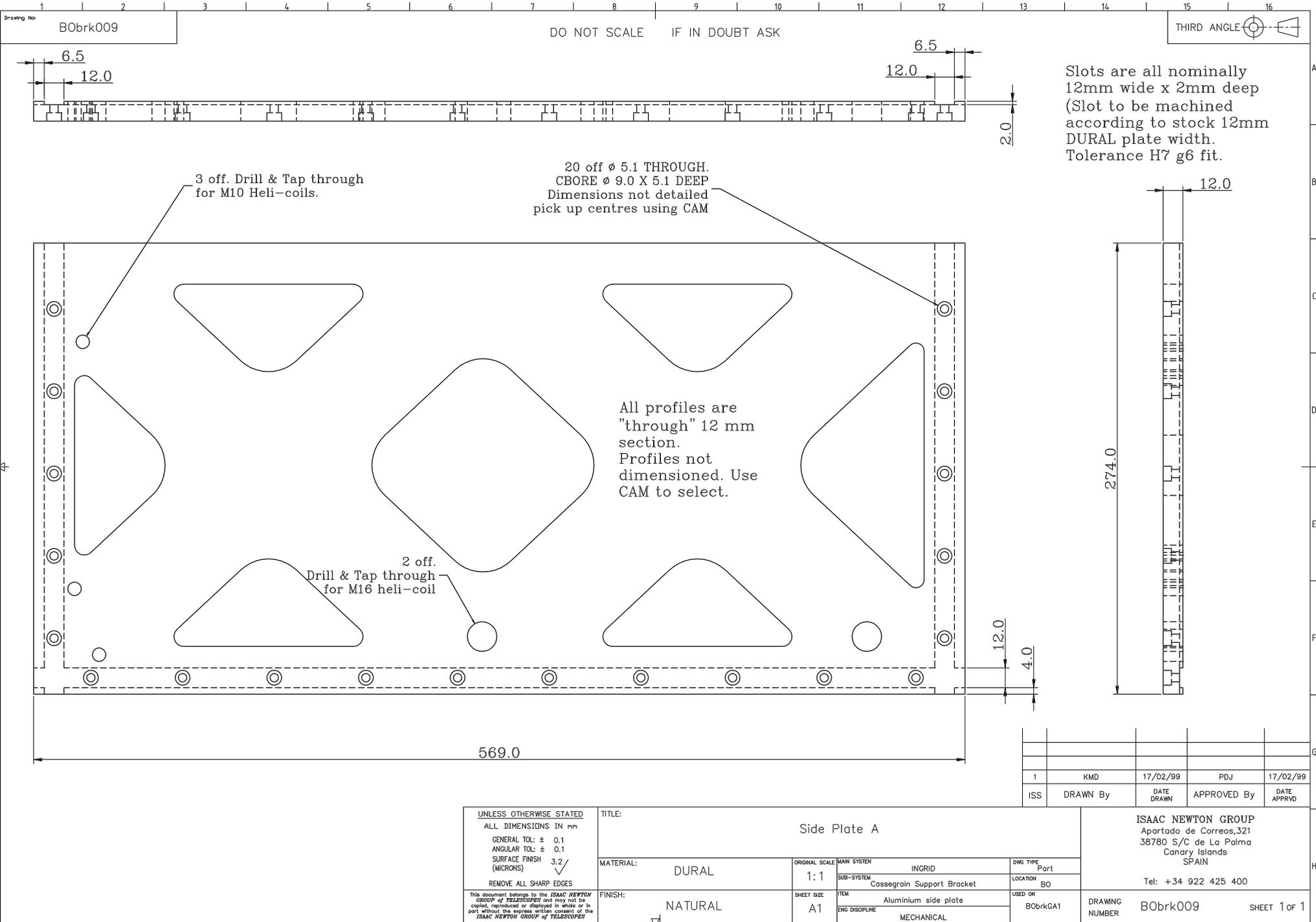
<p>UNLESS OTHERWISE STATED ALL DIMENSIONS IN mm GENERAL TOL: <math>\pm</math> 0.1 ANGULAR TOL: <math>\pm</math> 0.1 SURFACE FINISH 3.2 <math>\checkmark</math> (MICRONS) REMOVE ALL SHARP EDGES</p>		<p>TITLE: Basechannel 3</p>			<p><b>ISAAC NEWTON GROUP</b> Apartado de Correos, 321 38780 S/C de La Palma Canary Islands SPAIN Tel: +34 922 425 400</p>	
MATERIAL: Dural	ORIGINAL SCALE: 1:1	MAIN SYSTEM: INGRID	DWG TYPE: Part	<p>DRAWING NUMBER: B0brk007.dwg SHEET 1 of 1</p>		
FINISH: Natural	SHEET SIZE: A3	SUB-SYSTEM: Cassegrain Support Bracket	LOCATION: BO			
		ITEM: Aluminium Base Channel	USED ON: B0brkGA1			
		ENG DISCIPLINE: MECHANICAL				



NB Please use dwg No.  
B0brk006.dwg for more  
detailed manufacturing  
information.

1	KMD	17/02/99	KMD	17/02/99
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPROVD

<small>UNLESS OTHERWISE STATED</small> ALL DIMENSIONS IN mm GENERAL TOL: $\pm$ 0.1 ANGULAR TOL: $\pm$ 0.1 SURFACE FINISH 3.2 (MICRONS) REMOVE ALL SHARP EDGES		TITLE: Basechannel 4			ISAAC NEWTON GROUP Apartado de Correos, 321 38780 S/C de La Palma Canary Islands SPAIN Tel: +34 922 425 400	
MATERIAL: Dural	ORIGINAL SCALE: 1:1	MAIN SYSTEM: INGRID	DWG TYPE: Part	DRAWING NUMBER: B0brk008 SHEET 1 of 1		
FINISH: Natural	SHEET SIZE: A3	SUB-SYSTEM: Cossegrain Support Bracket	LOCATION: BO			
		ITEM: Aluminium Base Channel	USED ON: B0brkGA1			
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Drawing No B0brk009

DO NOT SCALE IF IN DOUBT ASK



Slots are all nominally 12mm wide x 2mm deep (Slot to be machined according to stock 12mm DURAL plate width. Tolerance H7 g6 fit.

3 off. Drill & Tap through for M10 Heli-coils.

20 off  $\phi$  5.1 THROUGH. CBORE  $\phi$  9.0 X 5.1 DEEP. Dimensions not detailed pick up centres using CAM

All profiles are "through" 12 mm section. Profiles not dimensioned. Use CAM to select.

2 off. Drill & Tap through for M16 heli-coil

569.0

274.0

12.0

4.0

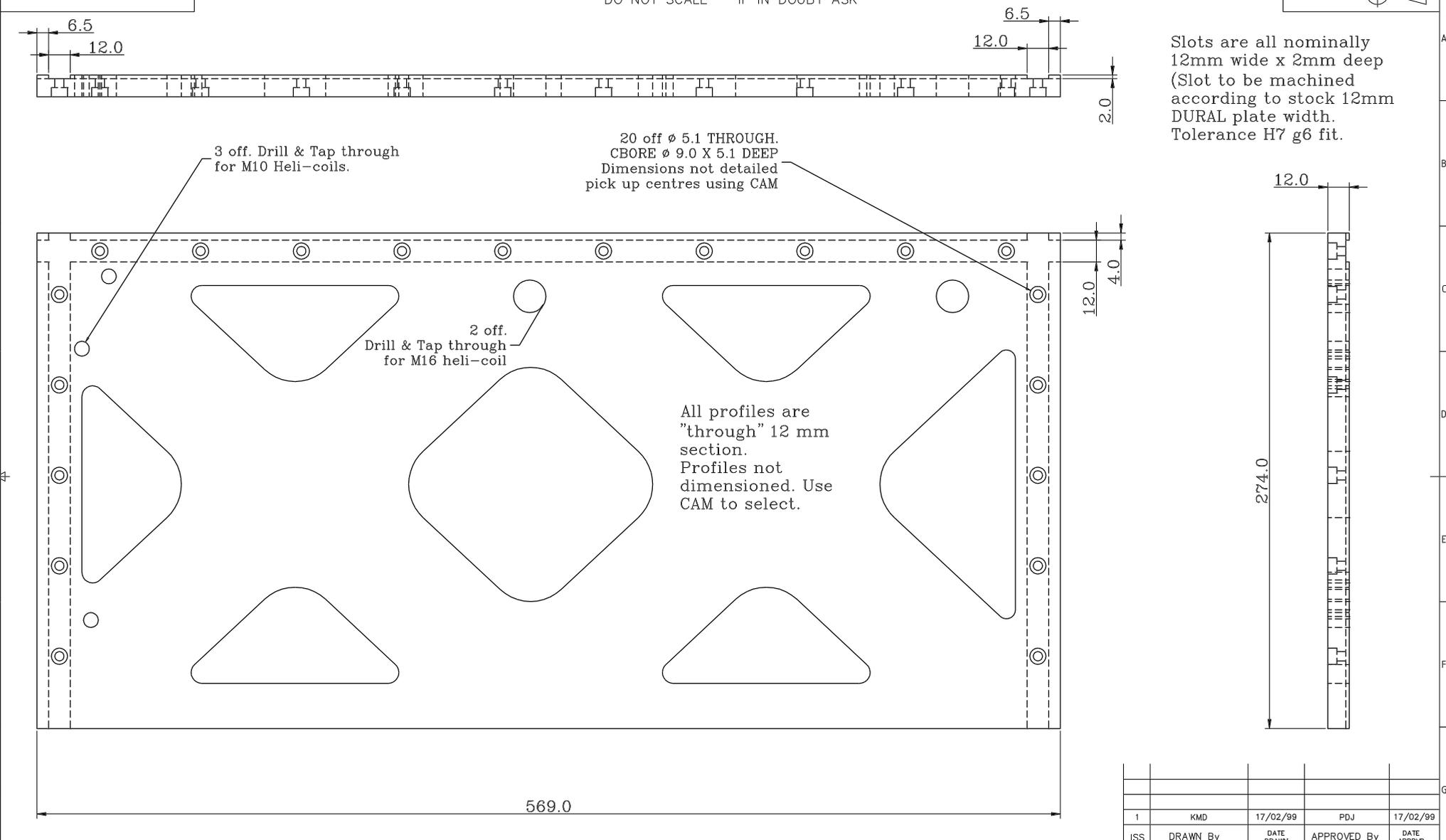
1	KMD	17/02/99	PDJ	17/02/99
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPRVD

UNLESS OTHERWISE STATED  
 ALL DIMENSIONS IN mm  
 GENERAL TOL:  $\pm$  0.1  
 ANGULAR TOL:  $\pm$  0.1  
 SURFACE FINISH 3.2/ $\checkmark$   
 (MICRONS)  
 REMOVE ALL SHARP EDGES

TITLE: Side Plate A			
MATERIAL: DURAL	ORIGINAL SCALE 1:1	MAIN SYSTEM INGRID	DWG TYPE Part
FINISH: NATURAL	SHEET SIZE A1	SUB-SYSTEM Cossegrain Support Bracket	LOCATION BO
This document belongs to the ISAAC NEWTON GROUP of TELESCOPES and may not be copied, reproduced or displayed in whole or in part without the express written consent of the ISAAC NEWTON GROUP of TELESCOPES		ITEM Aluminium side plate	USED ON B0brkGA1
		ENG DISCIPLINE MECHANICAL	

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DRAWING NUMBER B0brk009 SHEET 1 of 1

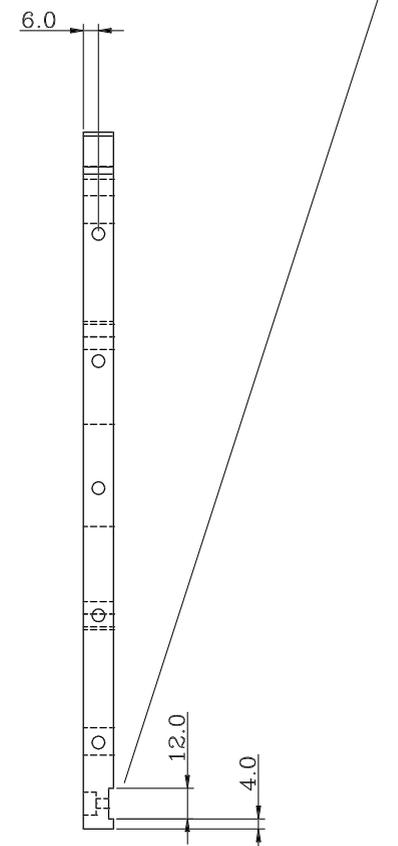
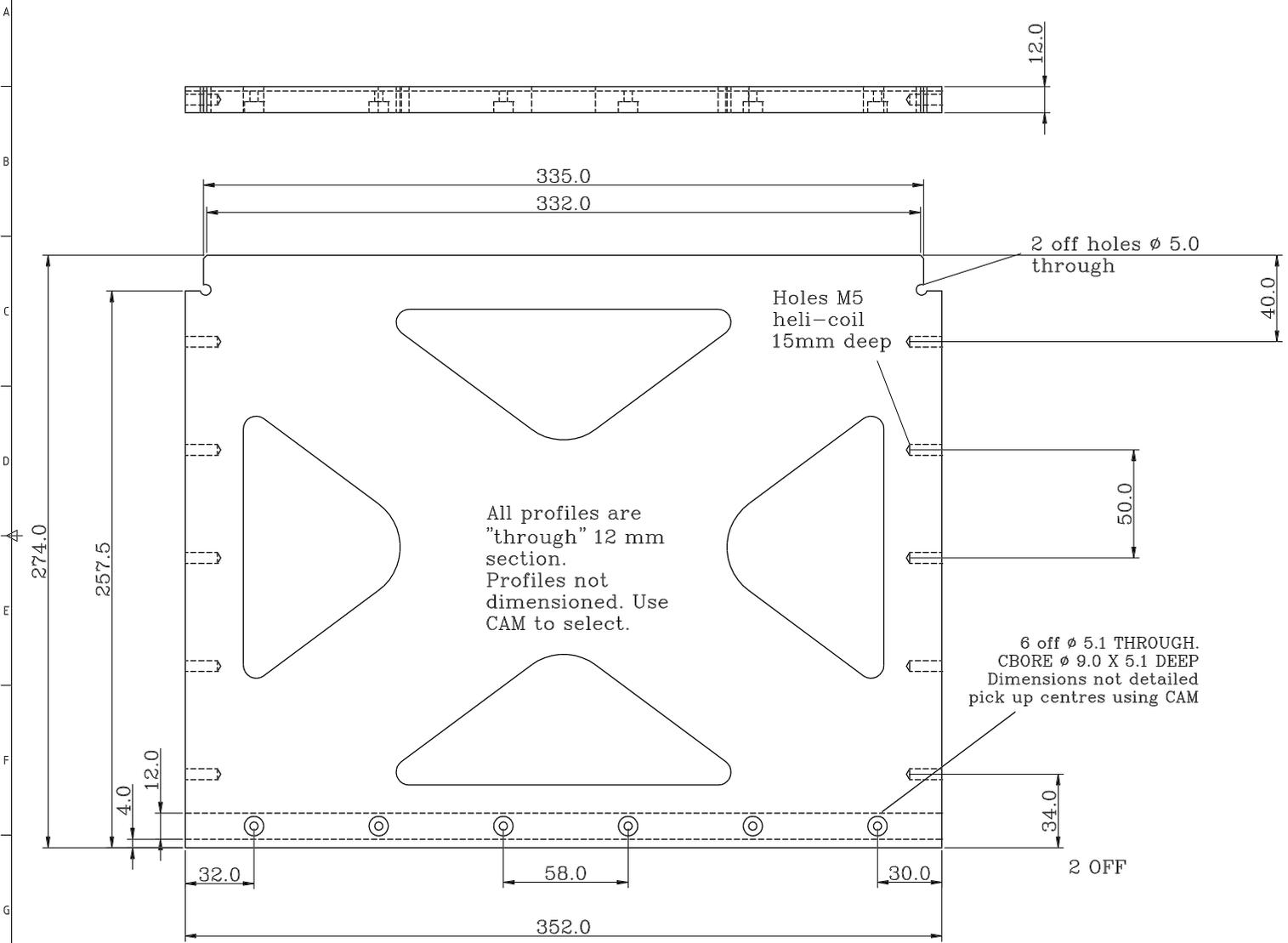


Slots are all nominally 12mm wide x 2mm deep (Slot to be machined according to stock 12mm DURAL plate width. Tolerance H7 g6 fit.

1	KMD	17/02/99	PDJ	17/02/99
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPRVD

UNLESS OTHERWISE STATED ALL DIMENSIONS IN mm GENERAL TOL: $\pm$ 0.1 ANGULAR TOL: $\pm$ 0.1 SURFACE FINISH (MICRONS) 3.2 ✓ REMOVE ALL SHARP EDGES		TITLE: Side Plate B			ISAAC NEWTON GROUP Apartado de Correos,321 38780 S/C de La Palma Canary Islands SPAIN Tel: +34 922 425 400	
MATERIAL: DURAL	ORIGINAL SCALE: 1:1	MAIN SYSTEM: INGRID	DWG TYPE: Part			
FINISH: NATURAL	SHEET SIZE: A1	SUB-SYSTEM: Cassegrain Support Bracket	LOCATION: BO			
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		ENG DISCIPLINE: MECHANICAL				

Slot is nominally 12mm wide x 2mm deep (Slot to be machined according to stock 12mm DURAL plate width. Tolerance H7 g6 fit.)



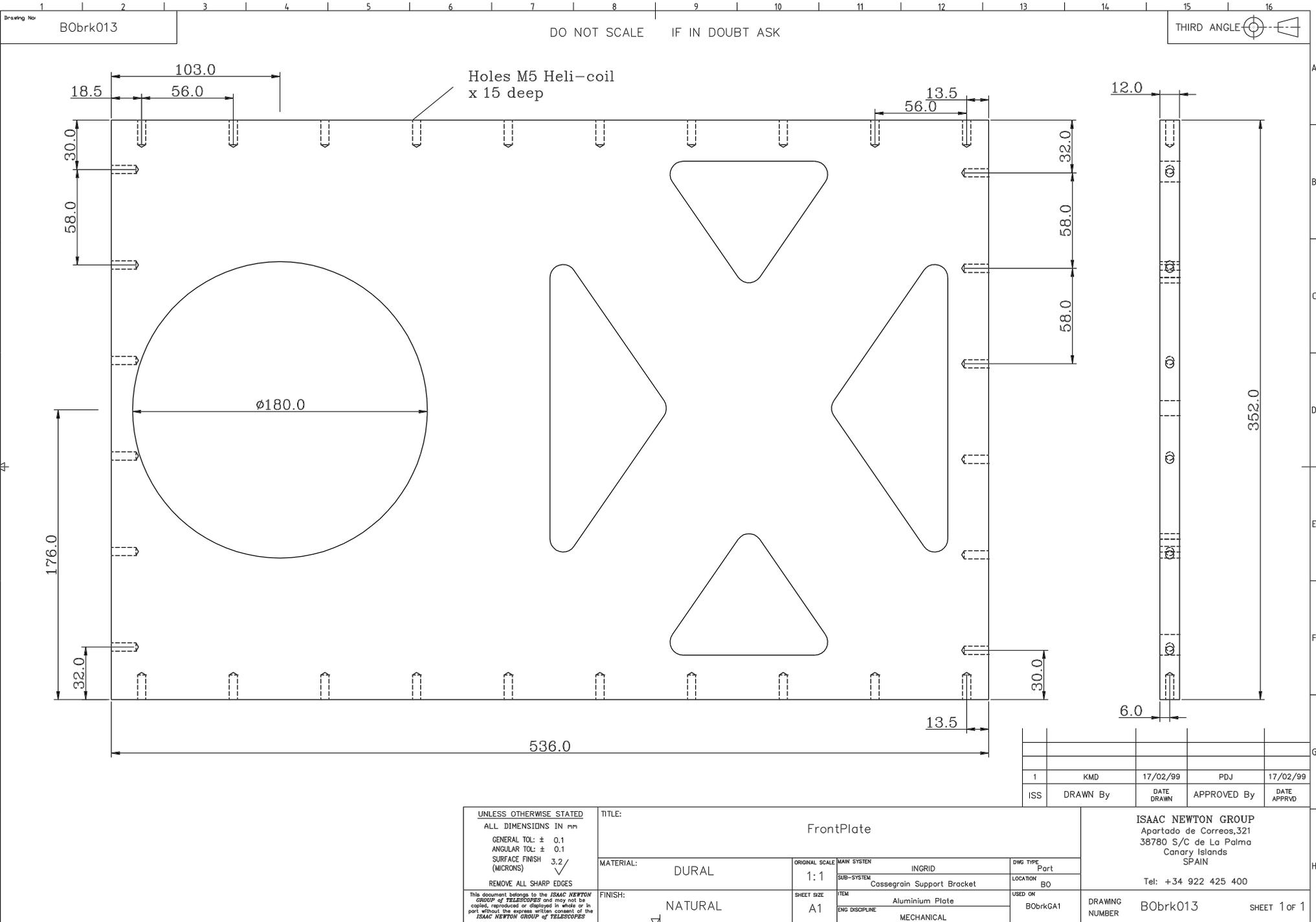
1	KMD	17/02/99	PDJ	17/02/99
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPRVD

**UNLESS OTHERWISE STATED**  
 ALL DIMENSIONS IN mm  
 GENERAL TOL: ± 0.1  
 ANGULAR TOL: ± 0.1  
 SURFACE FINISH 3.2/√  
 (MICRONS)  
 REMOVE ALL SHARP EDGES

TITLE: Top&Bottom Plates 11/12			
MATERIAL: DURAL	ORIGINAL SCALE: 1:1	MAIN SYSTEM: INGRID	DWG TYPE: Part
FINISH: NATURAL	SHEET SIZE: A1	SUB-SYSTEM: Cassegrain Support Bracket	LOCATION: BO
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		ENG DISCIPLINE: MECHANICAL	

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DRAWING NUMBER: B0brk011 SHEET 1 of 1



Drawing No: B0brk013

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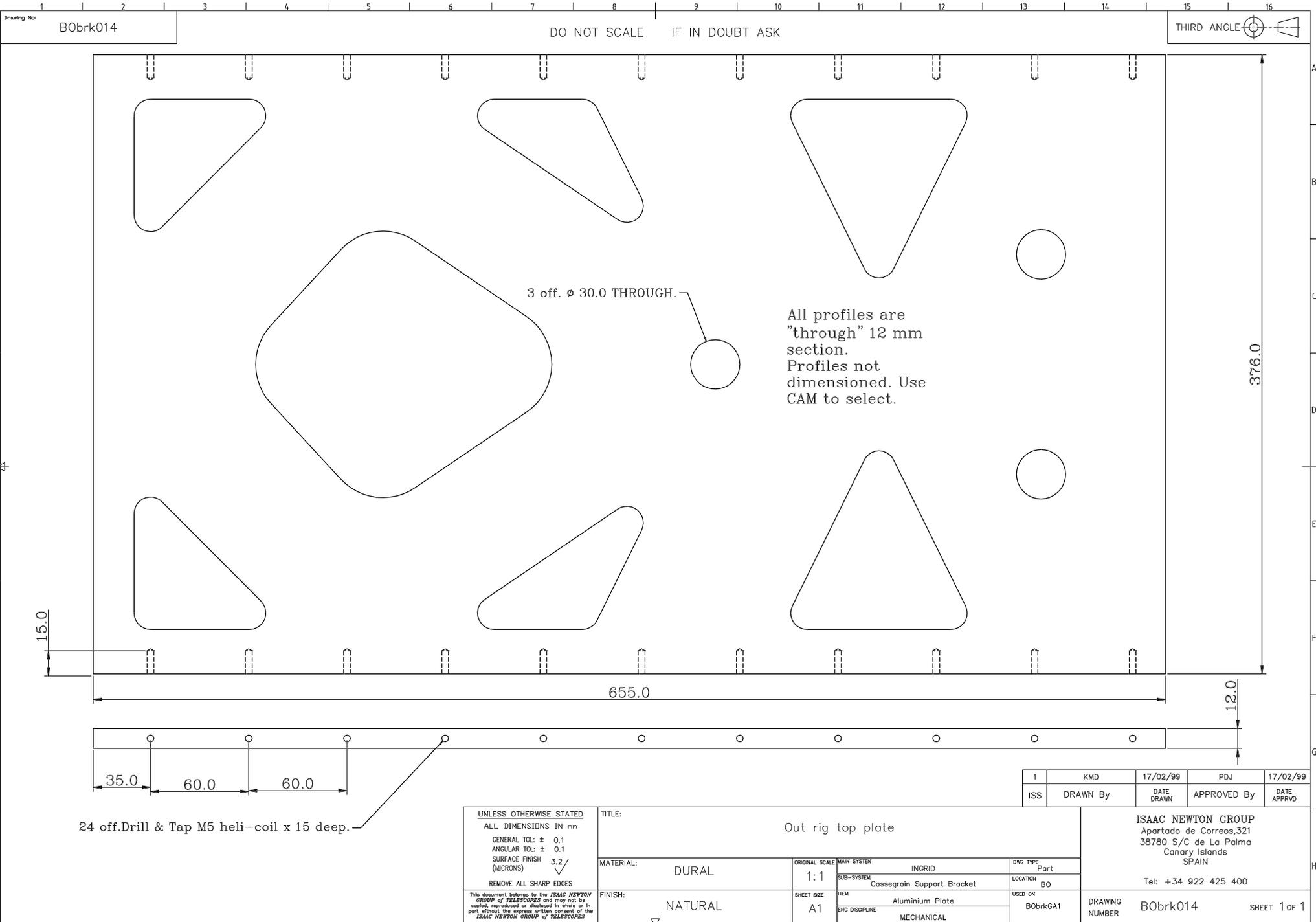
THIRD ANGLE

Holes M5 Heli-coil x 15 deep

UNLESS OTHERWISE STATED  
 ALL DIMENSIONS IN mm  
 GENERAL TOL: ± 0.1  
 ANGULAR TOL: ± 0.1  
 SURFACE FINISH 3.2 /  $\sqrt{\quad}$  (MICRONS)  
 REMOVE ALL SHARP EDGES  
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TITLE: FrontPlate			
MATERIAL: DURAL	ORIGINAL SCALE: 1:1	MAIN SYSTEM: INGRID	DWG TYPE: Part
FINISH: NATURAL	SHEET SIZE: A1	SUB-SYSTEM: Cassegrain Support Bracket	LOCATION: BO
		ITEM: Aluminium Plate	USED ON: B0brkGA1
		ENG DISCIPLINE: MECHANICAL	

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ISS	DRAWN By: KMD	DATE DRAWN: 17/02/99	APPROVED By: PDJ
			DATE APPRVD: 17/02/99
DRAWING NUMBER: B0brk013	SHEET 1 of 1		



Drawing No: B0brk014

DO NOT SCALE IF IN DOUBT ASK

THIRD ANGLE

3 off. Ø 30.0 THROUGH.

All profiles are "through" 12 mm section. Profiles not dimensioned. Use CAM to select.

15.0

655.0

376.0

12.0

35.0 60.0 60.0

24 off. Drill & Tap M5 heli-coil x 15 deep.

UNLESS OTHERWISE STATED  
 ALL DIMENSIONS IN mm  
 GENERAL TOL: ± 0.1  
 ANGULAR TOL: ± 0.1  
 SURFACE FINISH 3.2 / ✓  
 (MICRONS)  
 REMOVE ALL SHARP EDGES

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TITLE: Out rig top plate			
MATERIAL: DURAL	ORIGINAL SCALE 1:1	MAIN SYSTEM INGRID	DWG TYPE Part
FINISH: NATURAL	SHEET SIZE A1	SUB-SYSTEM Cossegrain Support Bracket	LOCATION BO
		ITEM Aluminium Plate	USED ON B0brkGA1
		ENG DISCIPLINE MECHANICAL	

1	KMD	17/02/99	PDJ	17/02/99
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DRAWING NUMBER: B0brk014 SHEET 1 of 1



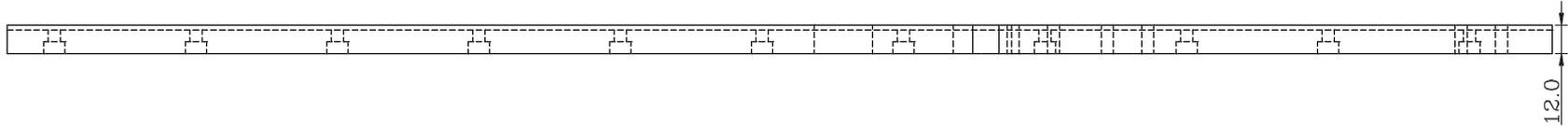
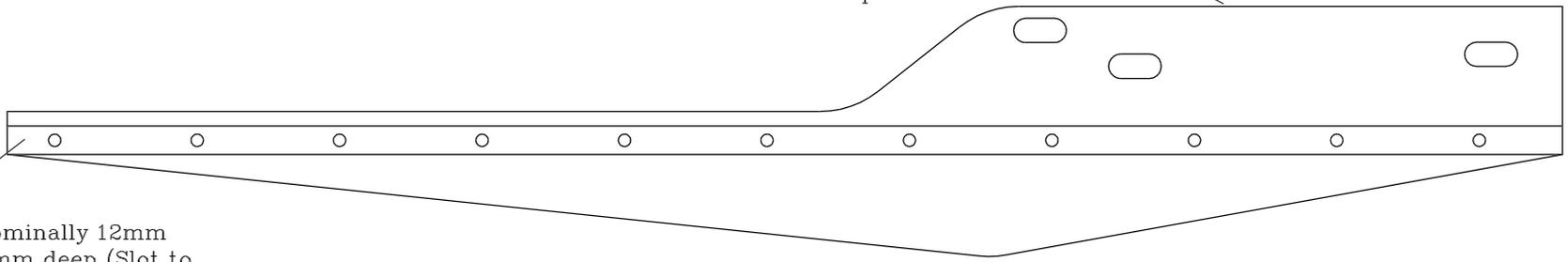
Drawing No B0brk016

DO NOT SCALE IF IN DOUBT ASK

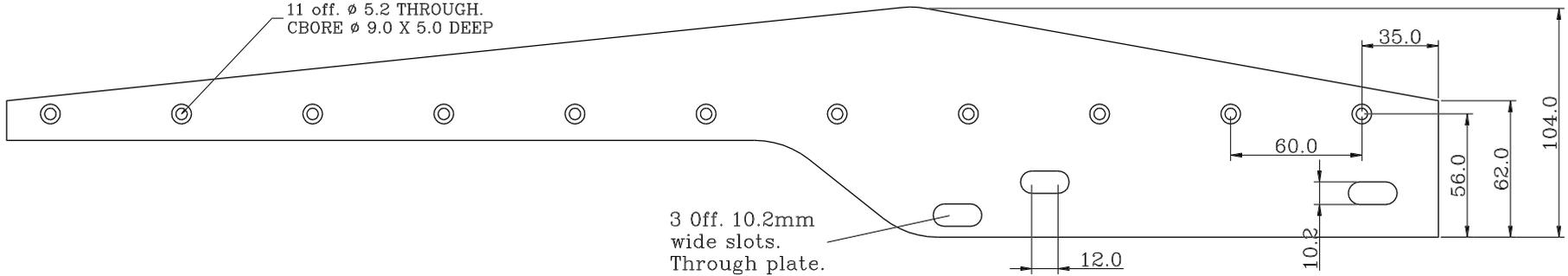
THIRD ANGLE 

Detailed dimensions not shown. Use CAM to pick up profile.

Slot is nominally 12mm wide x 2mm deep (Slot to be machined according to stock 12mm DURAL plate width. Tolerance H7 g6 fit.



11 off.  $\phi$  5.2 THROUGH.  
CBORE  $\phi$  9.0 X 5.0 DEEP



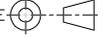
3 Off. 10.2mm wide slots. Through plate. Use CAM to pick up slot profiles.

1	KMD	17/02/99	PDJ	17/02/99
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPRVD

<p><b>UNLESS OTHERWISE STATED</b></p> <p>ALL DIMENSIONS IN mm</p> <p>GENERAL TOL: <math>\pm</math> 0.1</p> <p>ANGULAR TOL: <math>\pm</math> 0.1</p> <p>SURFACE FINISH (MICRONS) 3.2 <math>\checkmark</math></p> <p>REMOVE ALL SHARP EDGES</p> <p><small>This document belongs to the ISAAC NEWTON GROUP of TELESCOPES and may not be copied, reproduced or displayed in whole or in part without the express written consent of the ISAAC NEWTON GROUP of TELESCOPES</small></p>	TITLE: Out rigger A side Plate			<p>ISAAC NEWTON GROUP</p> <p>Apartado de Correos,321</p> <p>38780 S/C de La Palma</p> <p>Canary Islands</p> <p>SPAIN</p> <p>Tel: +34 922 425 400</p>	
	MATERIAL: DURAL	ORIGINAL SCALE: 1:1	MAIN SYSTEM: INGRID	DWG TYPE: Part	DRAWING NUMBER: B0brk016 SHEET 1 of 1
	FINISH: NATURAL	SHEET SIZE: A1	SUB-SYSTEM: Cossegrain Support Bracket	LOCATION: BO	
			ITEM: Aluminium Plate	USED ON: B0brkGA1	
		ENG DISCIPLINE: MECHANICAL			

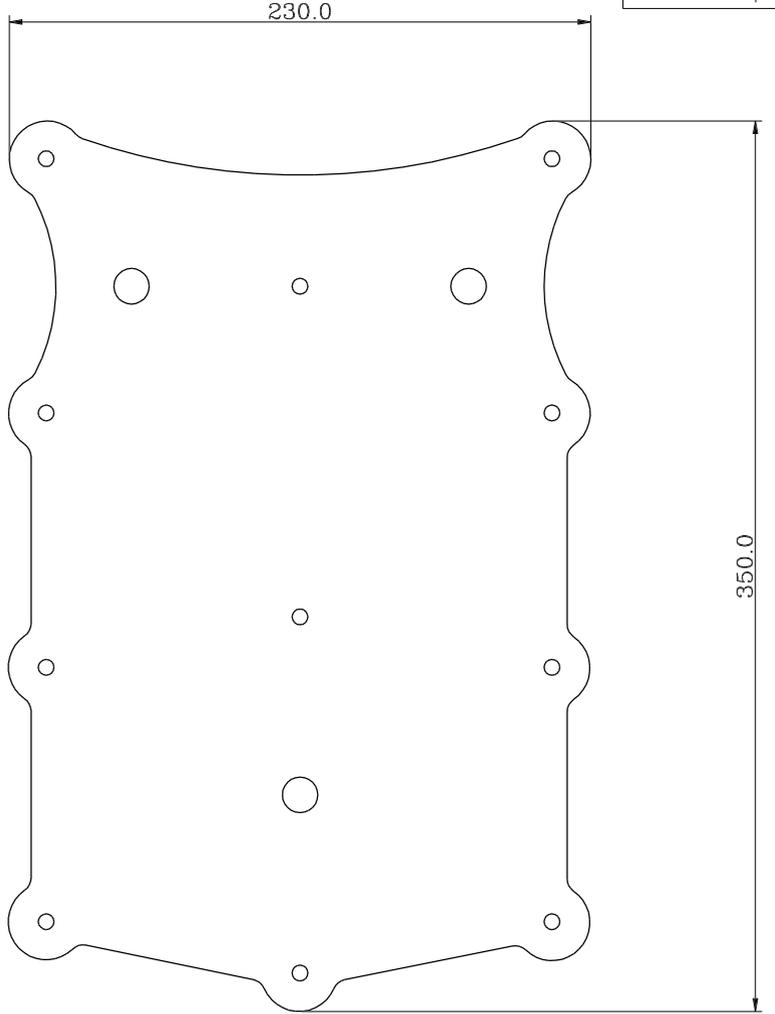
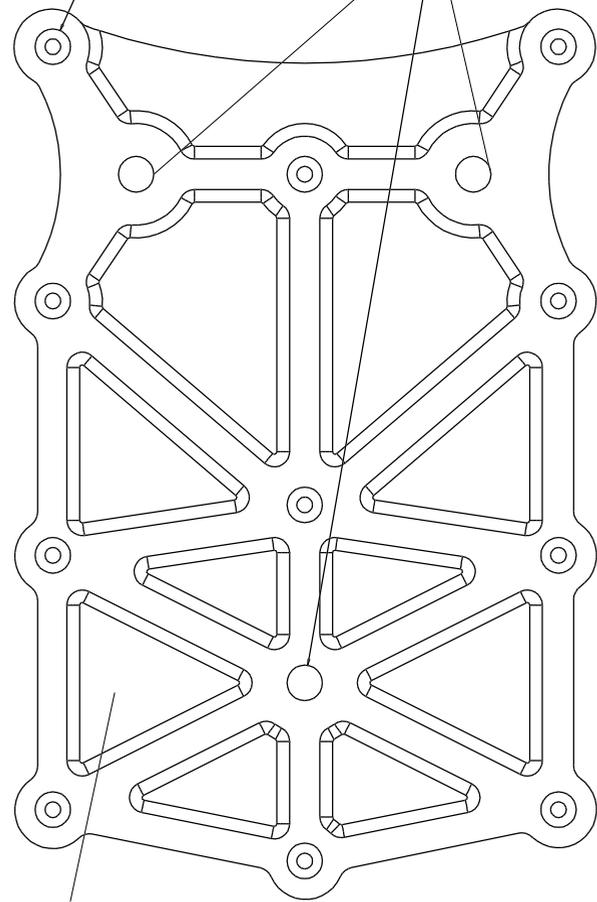
Drawing No: B0brk017

DO NOT SCALE IF IN DOUBT ASK

THIRD ANGLE 

11 off.  $\phi$  6.2 THROUGH.  
CBORE  $\phi$  14.0 X 12.0 DEEP

3 off Drill & Tap through M16 Heli-coil



Please note all area  
clears are blind 14 mm  
deep.  
The base of the area clear  
has a 5mm radius. This  
dimension is not  
important.

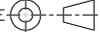
20.0

1	KMD	17/02/99	PDJ	17/02/99
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPRVD

<p><b>UNLESS OTHERWISE STATED</b> ALL DIMENSIONS IN mm GENERAL TOL: <math>\pm</math> 0.1 ANGULAR TOL: <math>\pm</math> 0.1 SURFACE FINISH 3.2/<math>\sqrt</math> (MICRONS) REMOVE ALL SHARP EDGES</p> <p><small>This document belongs to the ISAAC NEWTON GROUP of TELESCOPES and may not be copied, reproduced or displayed in whole or in part without the express written consent of the ISAAC NEWTON GROUP of TELESCOPES</small></p>	TITLE: INGRID Top Plate			<p><b>ISAAC NEWTON GROUP</b> Apartado de Correos,321 38780 S/C de La Palma Canary Islands SPAIN Tel: +34 922 425 400</p>	
	MATERIAL: DURAL	ORIGINAL SCALE: 1:1	MAIN SYSTEM: INGRID	DWG TYPE: Part	
	FINISH: NATURAL	SHEET SIZE: A1	SUB-SYSTEM: Cassegrain Support Bracket	LOCATION: BO	
			ITEM: Aluminium Plate	USED ON: B0brkGA1	
		ENG DISCIPLINE: MECHANICAL			<p>DRAWING NUMBER: B0brk017</p> <p>SHEET 1 of 1</p>

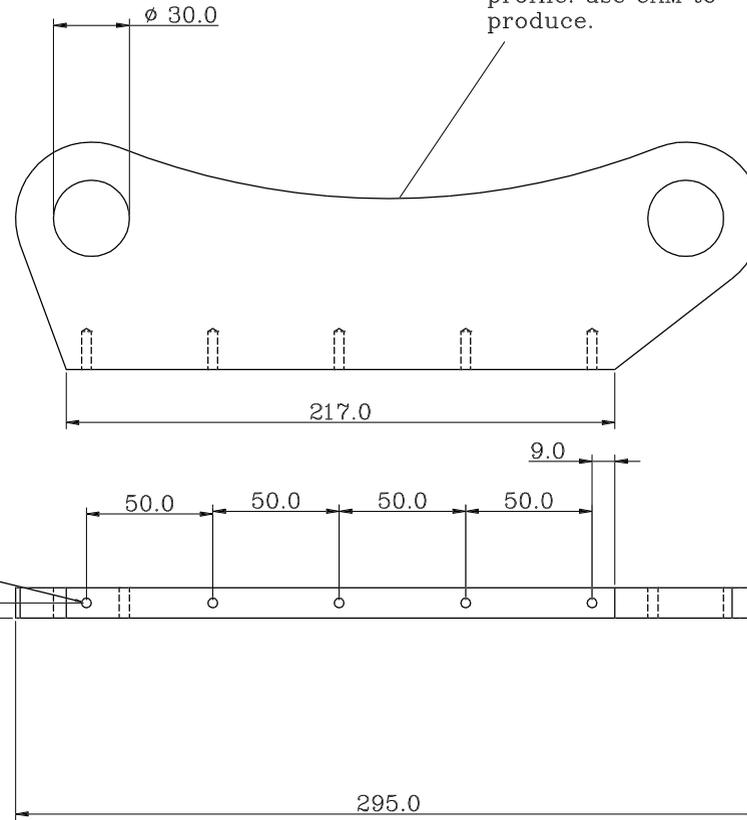
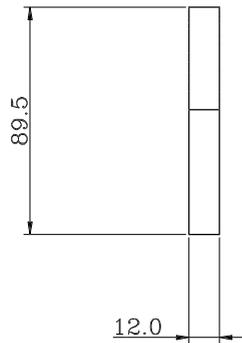
Drawing No B0brk018

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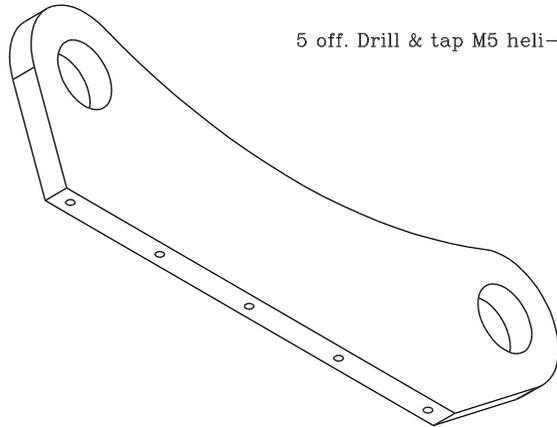
THIRD ANGLE 

Part 18 & 19

No detail dimension of profile. use CAM to produce.



5 off. Drill & tap M5 heli-coil x 15mm deep



1	KMD	17/02/99	PDJ	17/02/99
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**UNLESS OTHERWISE STATED**  
 ALL DIMENSIONS IN mm  
 GENERAL TOL: ± 0.1  
 ANGULAR TOL: ± 0.1  
 SURFACE FINISH 3.2/√  
 (MICRONS)  
 REMOVE ALL SHARP EDGES

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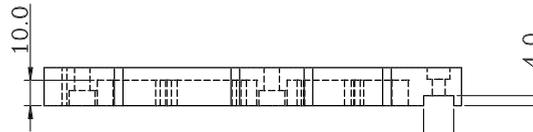
TITLE: INGRID Support Plate A&B			
MATERIAL: DURAL	ORIGINAL SCALE 1:1	MAIN SYSTEM INGRID	DWG TYPE Part
FINISH: NATURAL	SHEET SIZE A1	SUB-SYSTEM Cassegrain Support Bracket	LOCATION BO
		ITEM Aluminium Plate	USED ON B0brkGA1
		ENG DISCIPLINE MECHANICAL	

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DRAWING NUMBER B0brk018 SHEET 1 of 1

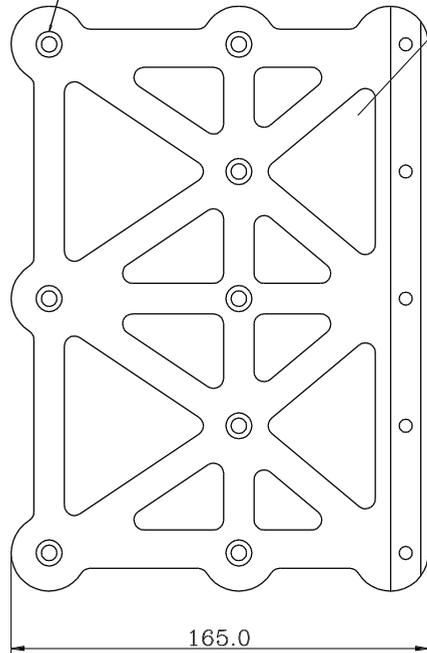
Part 24 & 25

No detail dimension of profile. use CAM to produce.



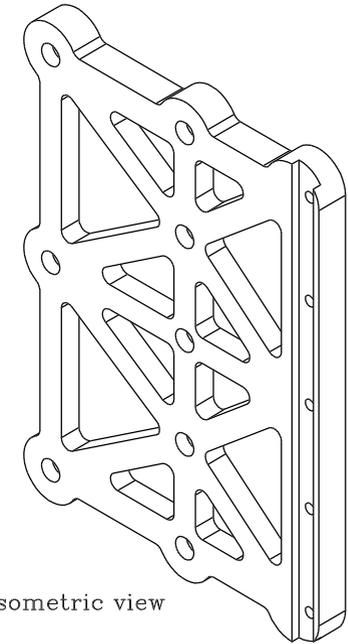
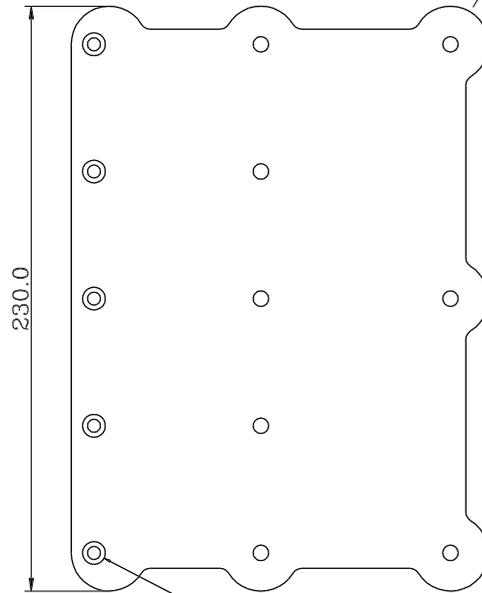
8 off.  $\phi$  6.1 THROUGH.  
CBORE  $\phi$  10.2 X 6.0 DEEP

Area clears 10 mm deep.  
Not dimensioned profile  
using cam.



15.0

5 off.  $\phi$  5.1 THROUGH.  
CBORE  $\phi$  9.0 X 4.5 DEEP

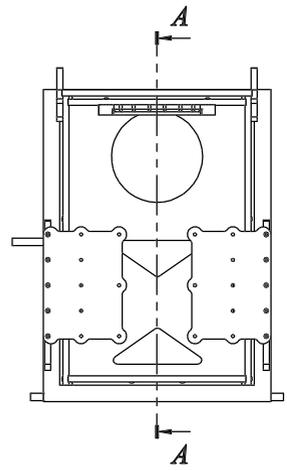


Isometric view

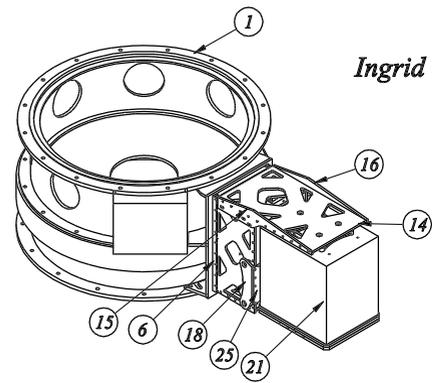
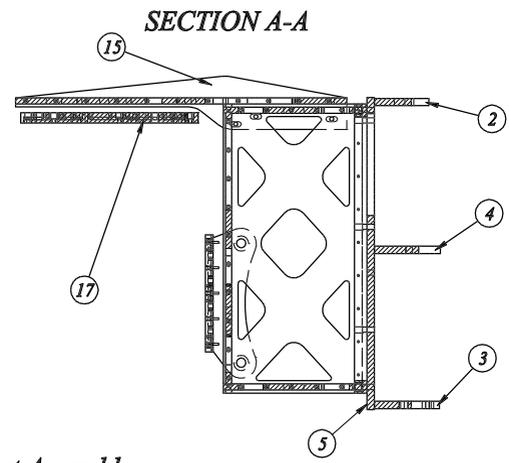


1	KMD	17/02/99	PDJ	17/02/99
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPRVD

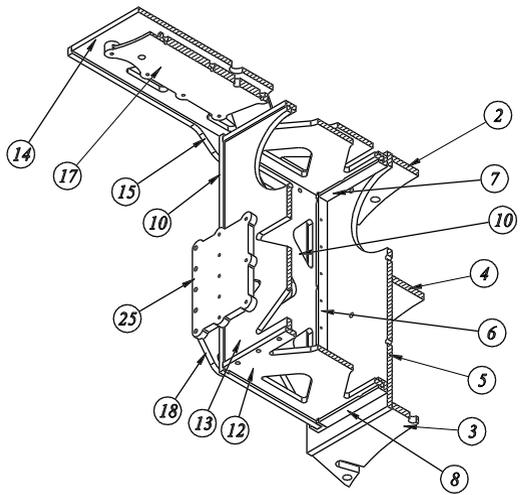
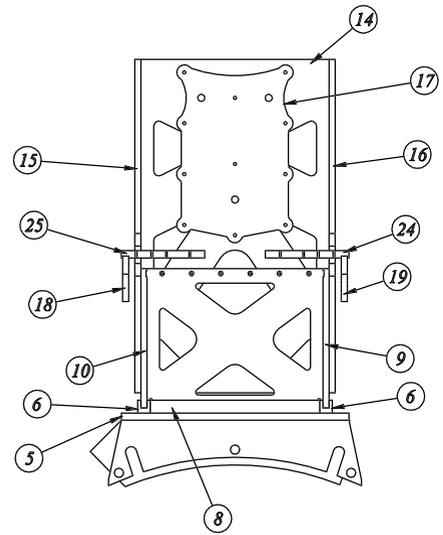
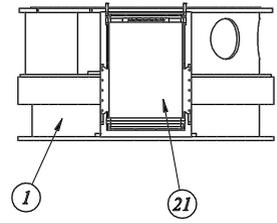
<p>UNLESS OTHERWISE STATED</p> <p>ALL DIMENSIONS IN mm</p> <p>GENERAL TOL: <math>\pm</math> 0.1</p> <p>ANGULAR TOL: <math>\pm</math> 0.1</p> <p>SURFACE FINISH 3.2/<math>\sqrt</math> (MICRONS)</p> <p>REMOVE ALL SHARP EDGES</p> <p><small>This document belongs to the ISAC NEWTON GROUP of TELESCOPES and may not be copied, reproduced or displayed in whole or in part without the express written consent of the ISAC NEWTON GROUP of TELESCOPES</small></p>	TITLE: INGRID Front plate A&B			<p>ISAAC NEWTON GROUP</p> <p>Apartado de Correos,321</p> <p>38780 S/C de La Palma</p> <p>Canary Islands</p> <p>SPAIN</p> <p>Tel: +34 922 425 400</p>		
	MATERIAL: DURAL	ORIGINAL SCALE: 1:1	MAIN SYSTEM: INGRID			DWG TYPE: Part
	FINISH: NATURAL	SHEET SIZE: A1	SUB-SYSTEM: Cossegrain Support Bracket			LOCATION: BO
			ITEM: Aluminium Plate			USED ON: B0brkGA1
		ENG DISCIPLINE: MECHANICAL		DRAWING NUMBER: B0brk024	SHEET 1 of 1	



**Bracket Assembly**



**Ingrid mounted at Cassegrain**



**ISOMETRIC SECTION ON A-A**

ITEM	QTY	NAME	MATERIAL	DRAWING NO.
1	1	AGBOX	CARBON STEEL	SEE CAGB
2	1	TOPBRKT	CARBON STEEL	BO\BRK\002
3	1	BOTBRKT	CARBON STEEL	BO\BRK\003
4	1	MIDBRKT	CARBON STEEL	BO\BRK\003
5	1	AGFRTPLT	DURAL	BO\BRK\005
6	2	BASCHN1	DURAL	BO\BRK\006
7	1	BASCHN3	DURAL	BO\BRK\007
8	1	BASCHN4	DURAL	BO\BRK\008
9	1	SIDPLTA	DURAL	BO\BRK\009
10	1	SIDPLTB	DURAL	BO\BRK\010
11	1	TOPPLT	DURAL	BO\BRK\011
12	1	BOTPLT	DURAL	BO\BRK\011
13	1	FRNTPLT	DURAL	BO\BRK\013
14	1	OUTRIGTP	DURAL	BO\BRK\014
15	1	OUTRIGB	DURAL	BO\BRK\015
16	1	OUTRIGA	DURAL	BO\BRK\016
17	1	INGTOPPL	DURAL	BO\BRK\017
18	1	INGSUPA	DURAL	BO\BRK\018
19	1	INGSUPB	DURAL	BO\BRK\018
20	1	INGRID	DURAL	SEE INGRID
21	1	VACJACK	DURAL	SEE INGRID
22	1	FOROPTS	DURAL	SEE INGRID
23	1	LID	DURAL	SEE INGRID
24	1	INGFRPLA	DURAL	BO\BRK\024
25	1	INGFRPLB	DURAL	BO\BRK\024

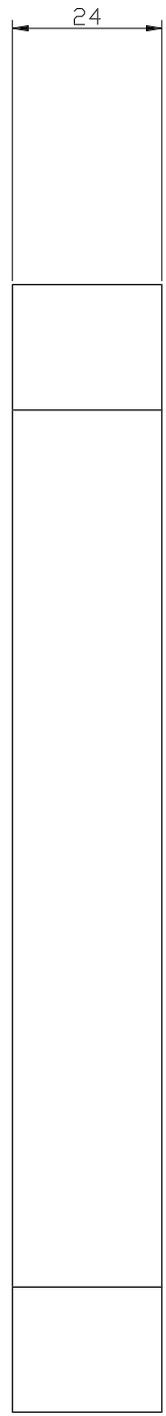
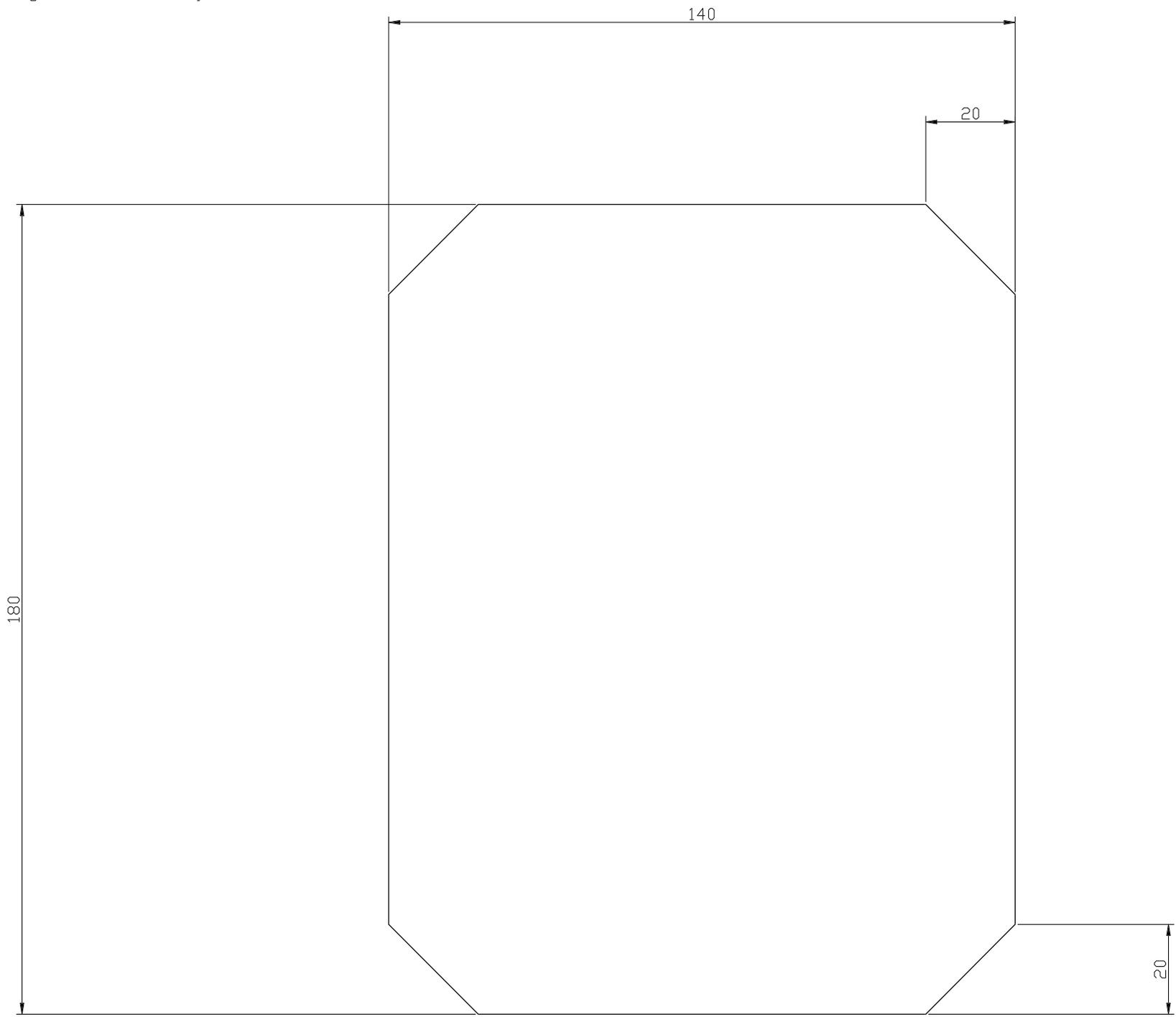
A	KMD	15/02/99	KMD	15/02/99
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPRVD

UNLESS OTHERWISE STATED  
 ALL DIMENSIONS IN mm  
 GENERAL TOL: ± N/A  
 ANGULAR TOL: ± N/A  
 SURFACE FINISH: N/A  
 (MICRONS)  
 REMOVE ALL SHARP EDGES  
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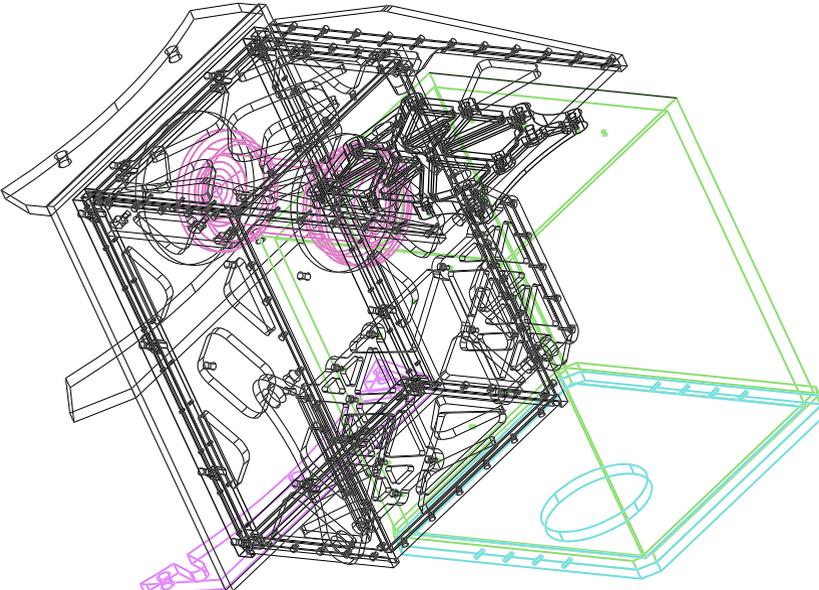
TITLE: <b>INGRID-CASSEGRAIN-SUPPORT-BRACKET</b>			
MATERIAL: N/A	ORIGINAL SCALE: 1:1	MAIN SYSTEM: WHT-INSTRUMENT	DWG TYPE: GA
FINISH: N/A	SHEET SIZE: A1	SUB-SYSTEM: INGRID	LOCATION: BO
		ENG DISCIPLINE: MECHANICAL	USED ON: N/A

**ISAAC NEWTON GROUP**  
 Apartado de Correos,321  
 38780 S/C de La Palma  
 Canary Islands  
 SPAIN  
 Tel: +34 922 425 400  
 DRAWING NUMBER: **BO\BRK\GA1** SHEET 1 of 1

All edges chamfered by 0.5



1

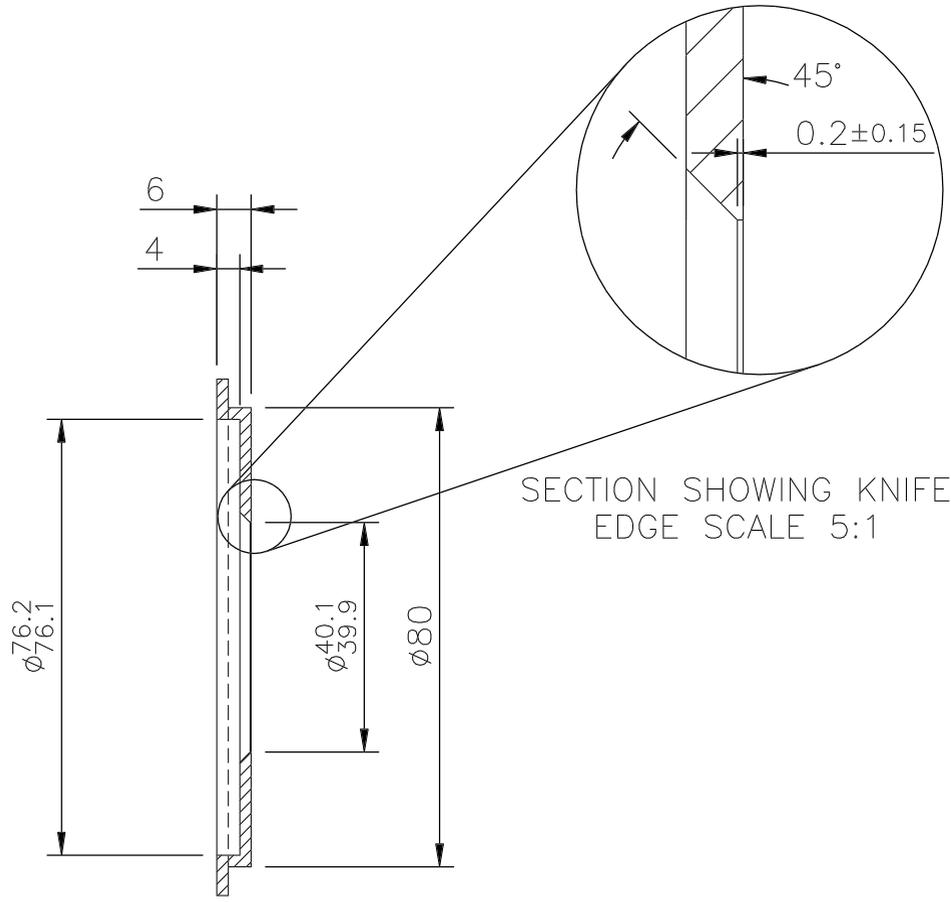
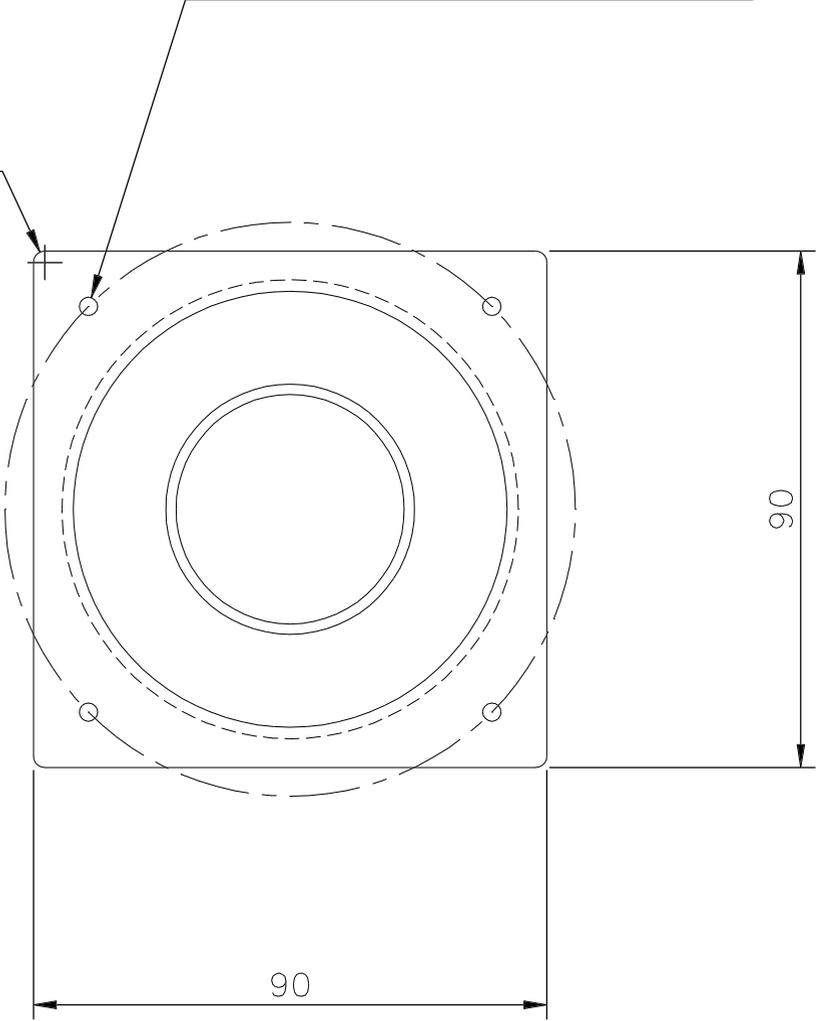


DWG. No. B0247



4 HOLES  $\phi 3.2$  ON A 100 PCD  
EQUISPACED AS SHOWN

R2 TYP



SECTION SHOWING KNIFE  
EDGE SCALE 5:1

**PRELIMINARY**  
FOR INFORMATION ONLY  
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03/08/98  
PRELIMINARY ISSUE: 1  
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PROCUREMENT OR MANUFACTURE.

REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE
1	PRELIMINARY DESIGN	PDJ			ST	03/08/98
ISSUE DESCRIPTION						

UNLESS OTHERWISE STATED  
 DIMENSIONS ARE IN mm  
 GENERAL TOLERANCE:  $\pm 0.2$   
 ANGULAR TOLERANCE:  $\pm$   
 SURFACE FINISH: (MICRONS) ✓  
 REMOVE ALL SHARP EDGES  
 DO NOT SCALE THIS DRAWING

MATERIAL  
ALUMINIUM ALLOY  
BS 1470 6082 TF  
 FINISH  
CLEAN  
 USED ON

		<b>ROYAL GREENWICH OBSERVATORY</b> MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM			
TITLE LENS BARREL END CAP 1 INGRID LENS BARREL ASSEMBLY					
ORIGINAL SHEET A3	LOCATION BO	DWG. No. B0247		REV 1	
ORIGINAL SCALE	1:1				SHEET 1 OF 1