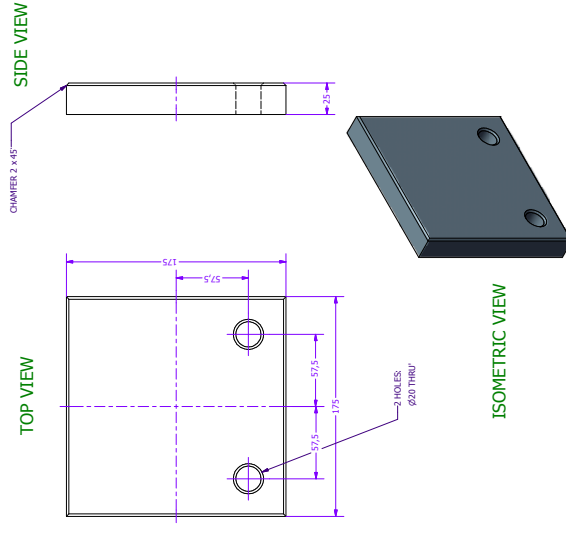
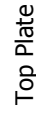
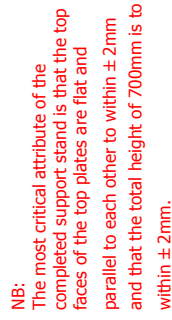
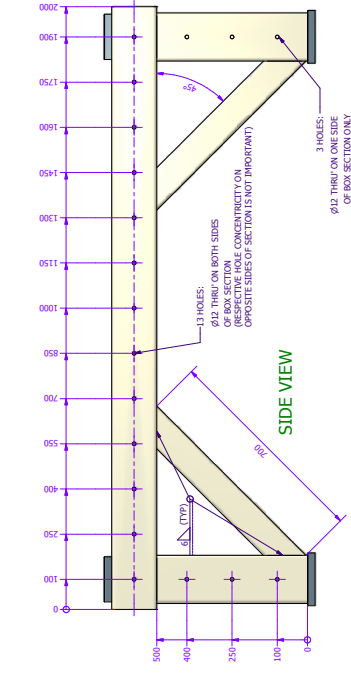
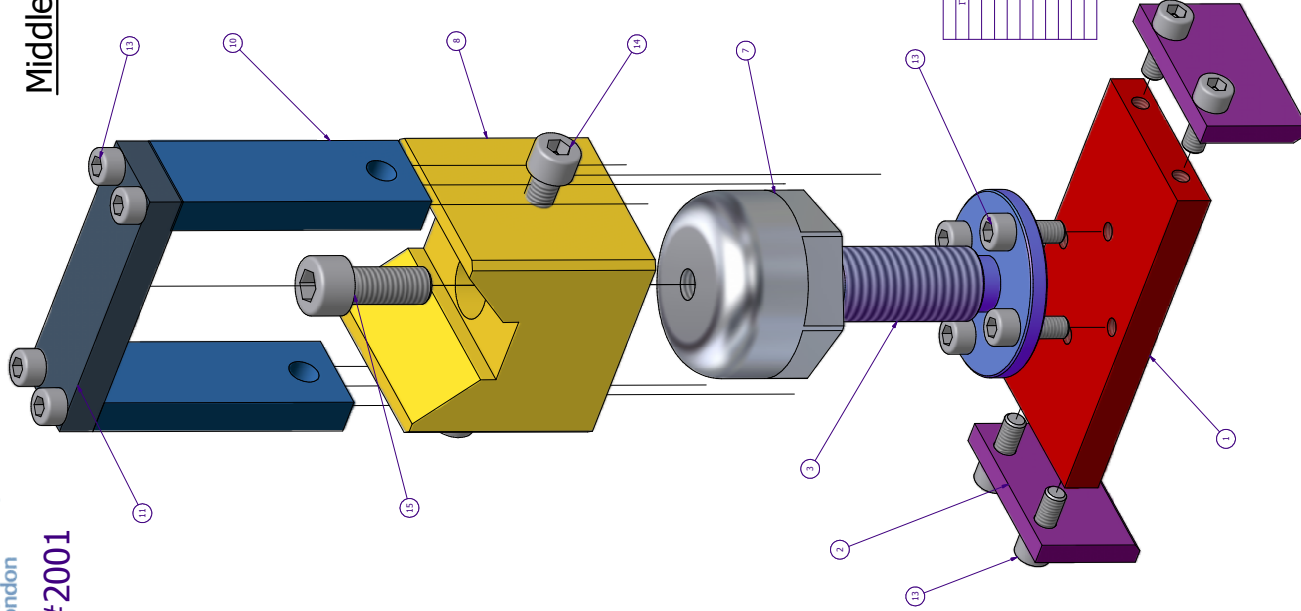




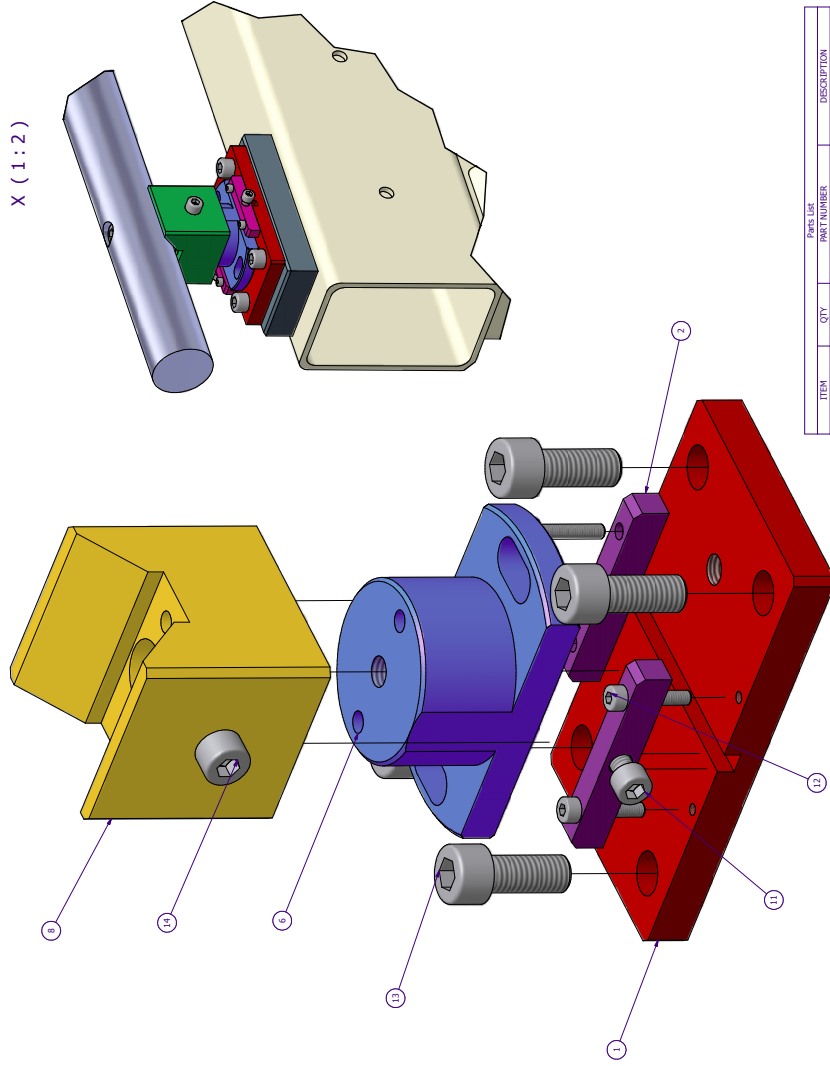
File:	2000 Support Bench		
Driven by:	P. Savage	Project:	1st angle
Designed by:	P. Savage	Model file:	2000_SupportBench.vmt
Created by:		Drawing file:	SupportBench.dwg
Checked by:		Version number:	4
Manufactured by:	Feb 2007	Project:	First End Test Stand
Material:	See note	Sheet number:	1 of 9
Remarks:		Comments:	Comments to be made
Scale of views:	As shown	Drawing number:	TC-HP-3-PS-2000
Scale:	Do not scale		
Notes:			
Contact:	p.savage@pennstate.ac.uk (work) 01757 557 777 (mobile) 01862 748159		

Unless otherwise stated:	
Dimensional tolerance:	X ± 0.5 mm X.X ± 0.2 mm X.XX ± 0.1 mm
Angular tolerance:	± 0.5°
Hole centres:	± 0.5 mm
Surface finish:	5 microns
Dimensions in mm	□

Middle Vee Block



Corner Vee Block



X (1:2)

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	Shim VeeBlock Side	Shim VeeBlock Side
2	2	MicroVeeBlock Side	MicroVeeBlock Side
3	1	MicroVeeBlock Screw	MicroVeeBlock Screw
4	1	Adhesive Nut	Adhesive Nut
5	1	MicroVeeBlock	MicroVeeBlock
6	2	MicroVeeBlock Side	MicroVeeBlock Side
7	1	MicroVeeBlock Side	MicroVeeBlock Side
8	1	MicroVeeBlock Side	MicroVeeBlock Side
9	1	MicroVeeBlock Side	MicroVeeBlock Side
10	1	MicroVeeBlock Side	MicroVeeBlock Side
11	1	MicroVeeBlock Side	MicroVeeBlock Side
12	1	MicroVeeBlock Side	MicroVeeBlock Side
13	1	MicroVeeBlock Side	MicroVeeBlock Side
14	2	ISO 4762 - M8 x 16	ISO 4762 - M8 x 16
15	2	ISO 4762 - M8 x 16	ISO 4762 - M8 x 16

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	Shim VeeBlock Side	Shim VeeBlock Side
2	2	MicroVeeBlock Side	MicroVeeBlock Side
3	1	MicroVeeBlock Screw	MicroVeeBlock Screw
4	1	Adhesive Nut	Adhesive Nut
5	1	MicroVeeBlock	MicroVeeBlock
6	2	MicroVeeBlock Side	MicroVeeBlock Side
7	1	MicroVeeBlock Side	MicroVeeBlock Side
8	1	MicroVeeBlock Side	MicroVeeBlock Side
9	1	MicroVeeBlock Side	MicroVeeBlock Side
10	1	MicroVeeBlock Side	MicroVeeBlock Side
11	1	MicroVeeBlock Side	MicroVeeBlock Side
12	1	MicroVeeBlock Side	MicroVeeBlock Side
13	1	MicroVeeBlock Side	MicroVeeBlock Side
14	2	ISO 4762 - M8 x 16	ISO 4762 - M8 x 16
15	2	ISO 4762 - M8 x 16	ISO 4762 - M8 x 16

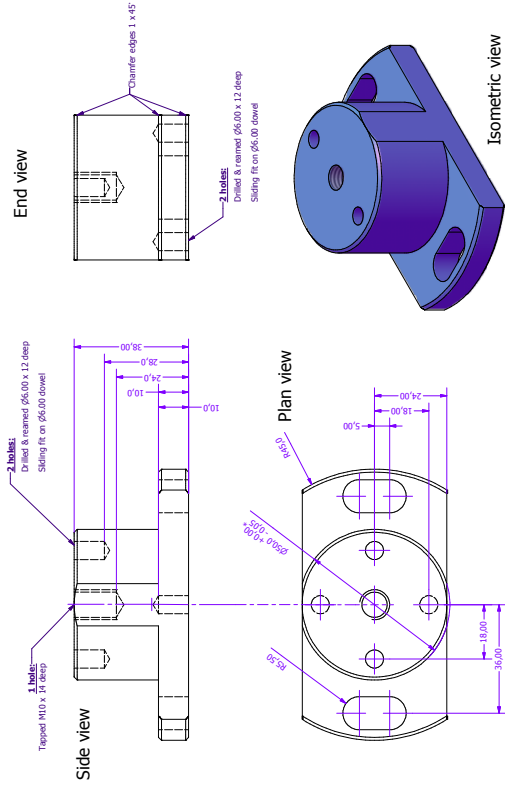
F.E.T.S. Support stand rail mounts

Drawn by:	P. Savage	Project:	1st angle
Designed by:	P. Savage	Model file:	ShimVeeBlock.iam
Checked by:		Drawing file:	SupportStand.dwg
Date:	July 2007	Version number:	1
Manufactured by:	304 Stainless Steel	Project:	Front End Test Stand
Material:	304 Stainless Steel	Sheet number:	2 / 9
Remove all burrs	N/A	Number of:	N/A
Scale:	N/A	Drawing number:	IC-FET-205-FE15_2001
Notes:			

Unless otherwise stated:	
Dimensional tolerances:	X ± 0.5 mm
	X.X ± 0.2 mm
	X.XX ± 0.1 mm
Angular tolerance:	± 0.5°
Hole centre:	± 0.5 mm
Surface finish:	5 microns
Dimensions in mm	□

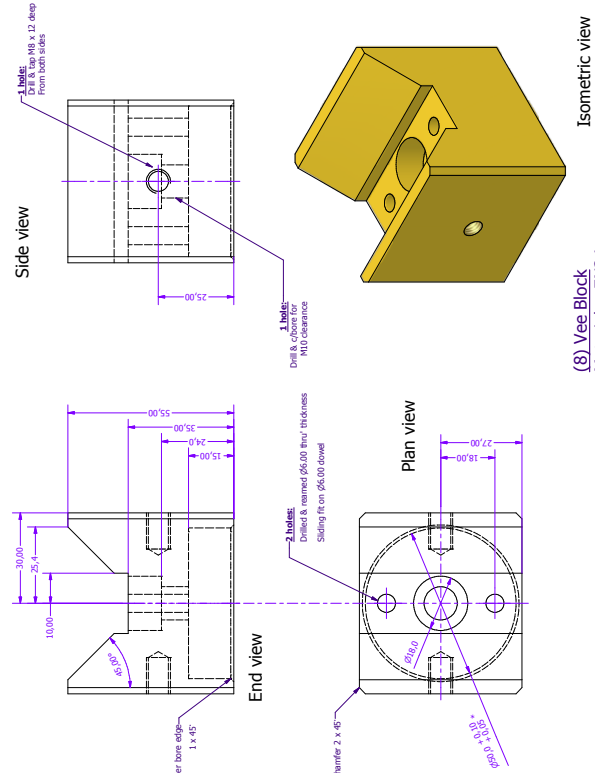
Imperial College London (Work 1007 194 787) (Release 2001)

Corner Vee Block

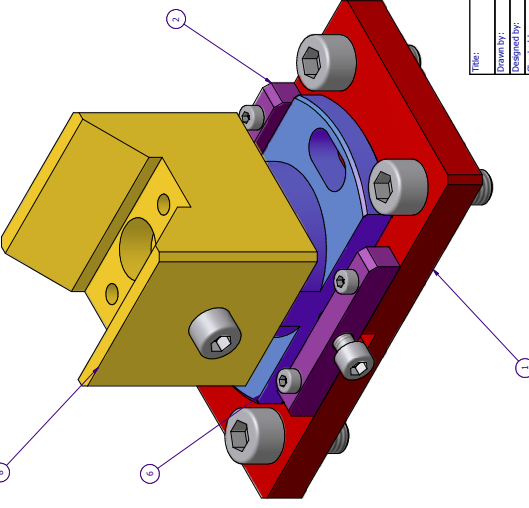
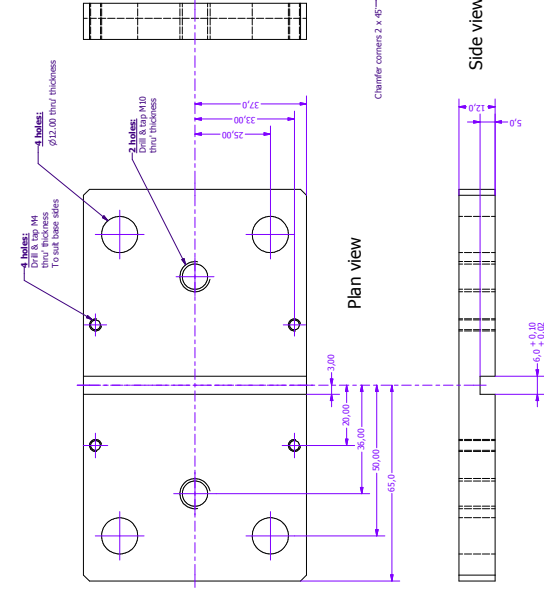


(6) Hub
Material: EN24
No. off: 20

* Free running fit in corner vee block



* Free running fit on corner vee block shaft

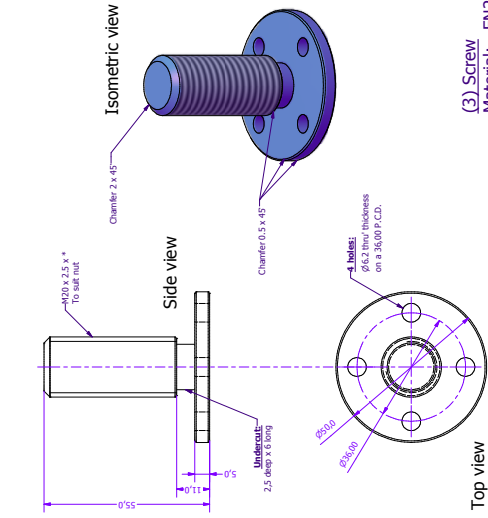


Assembly - 20 off

Title		F.E.T.S. Support stand rail mounts	
Drawn by:	P. Savage	1st angle	
Designed by:	P. Savage	Model file:	ShimlockSupport.dwg
Checked by:	P. Savage	Drawing file:	SupportStand.dwg
Date:	July 2007	Version number:	1
Manufactured by:	Saver per part	Project:	Front End Test Stand
Material:	See individual parts	Sheet number:	3 / 9
Remove all burrs		Number of:	
Scale:	Do not scale	Drawing number:	1C-102-25-10-2002
Notes:	Updated Dec 2007		
Contact:		p.savage@imperial.ac.uk (Work) 020 7 594 9337 (Home) 0208 260093	

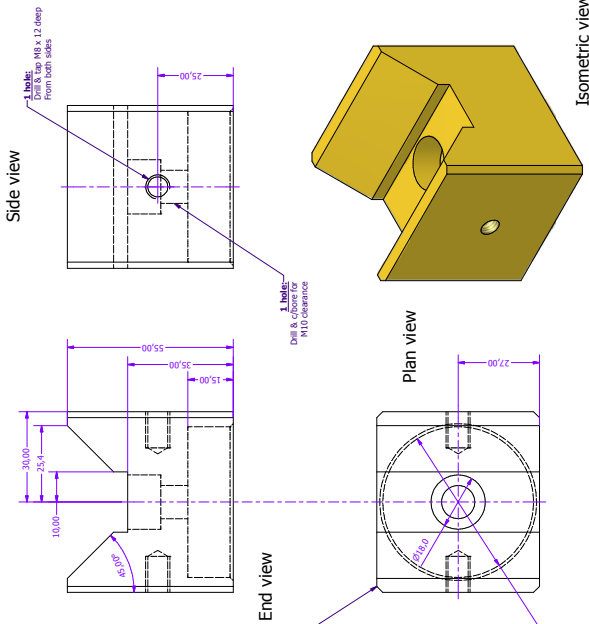
Unless otherwise stated:
Dimensional tolerances: X ± 0.5 mm
X.X ± 0.2 mm
X.XX ± 0.1 mm
Angular tolerance: ± 0.5°
Hole controls: 5 microns
Surface finish: Dimensions in mm

Middle Vee Block

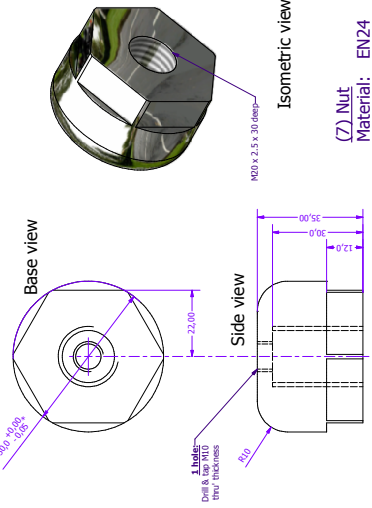


(3) Screw
Material: EN24
No. off: 10

(8) Vee Block
Material: EN24
No. off: 10

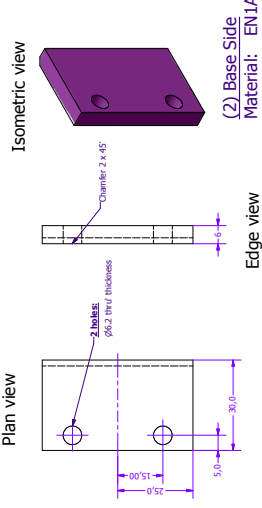


* Free running fit on nut (7)

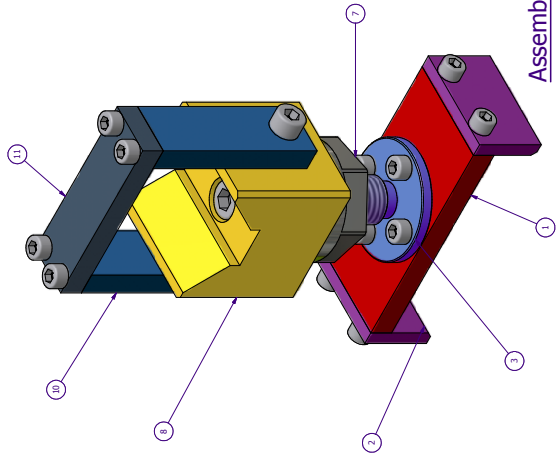


(7) Nut
Material: EN24
No. off: 10

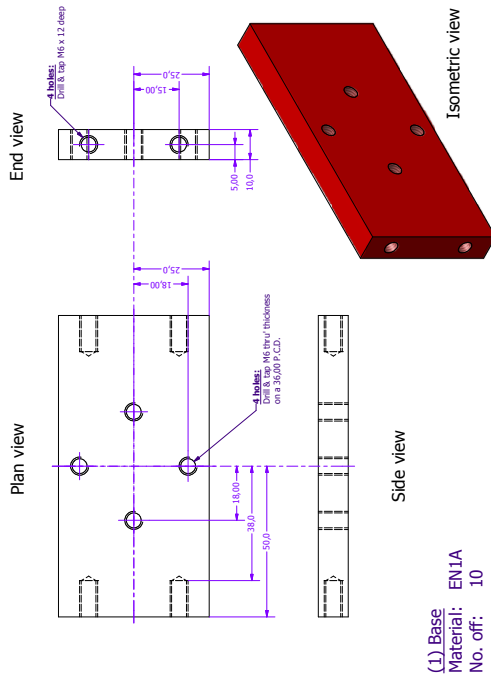
* Free running fit in vee block (8)



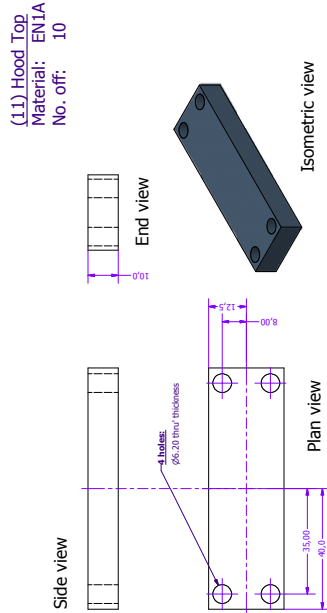
(2) Base Side
Material: EN1A
No. off: 20



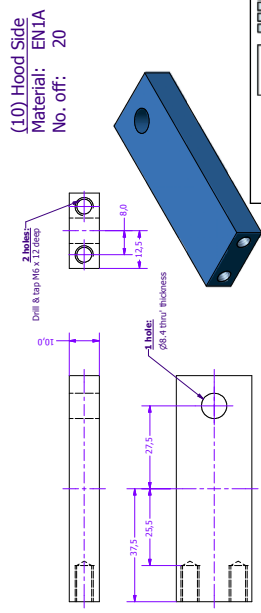
Assembly - 10 off



(1) Base
Material: EN1A
No. off: 10



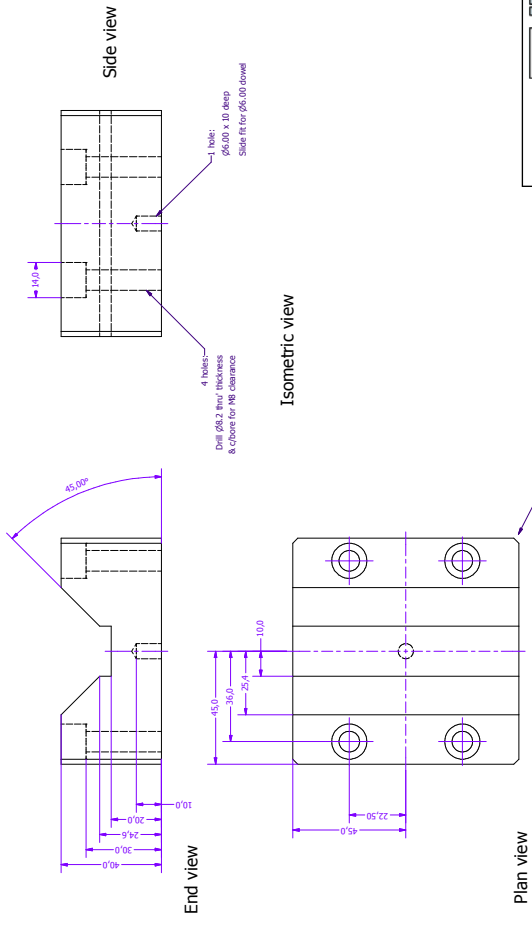
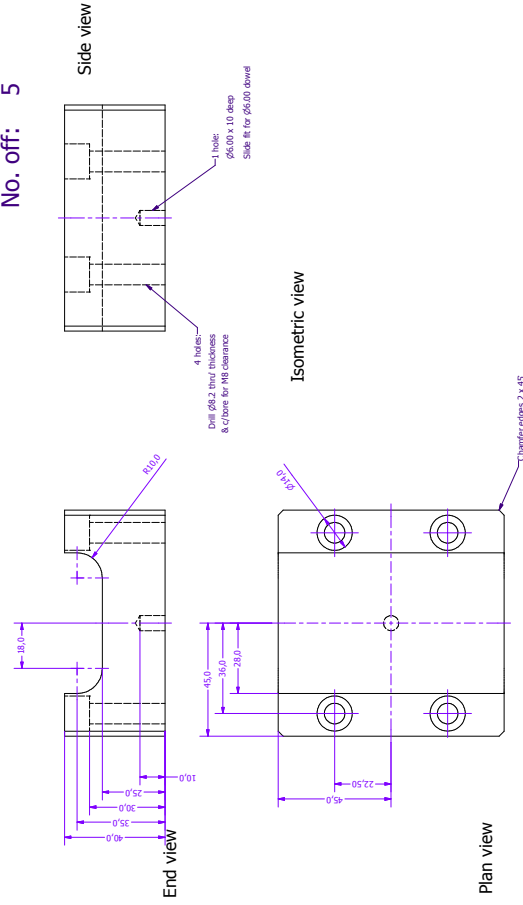
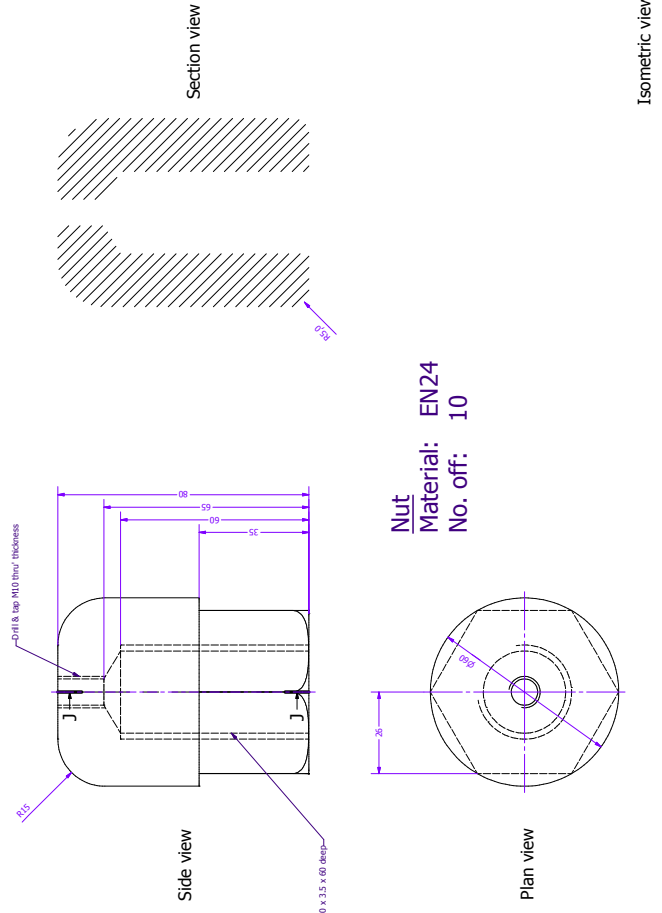
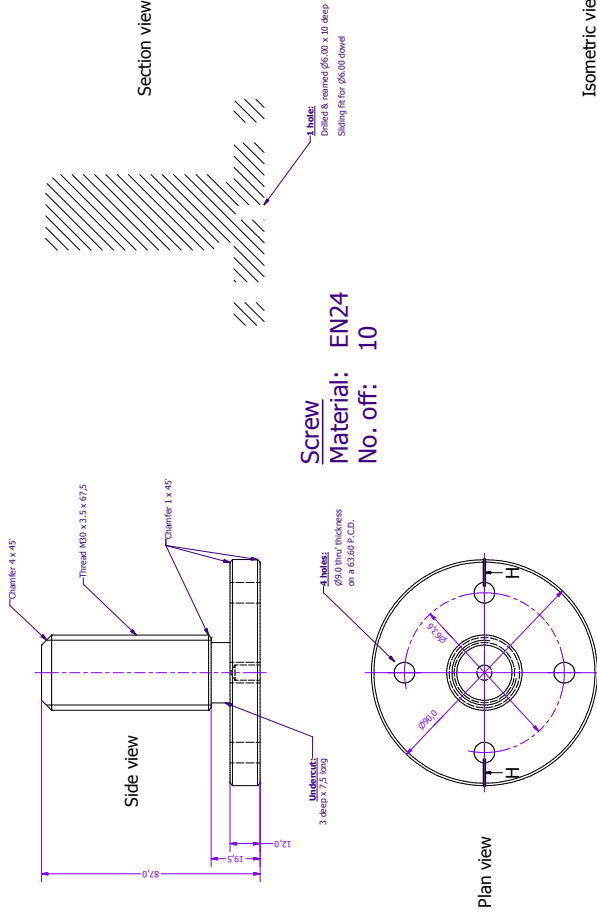
(11) Hood Top
Material: EN1A
No. off: 10



(10) Hood Side
Material: EN1A
No. off: 20

F.E.T.S. Support stand rail mounts	
Drawn by:	P. Savage
Designed by:	P. Savage
Checked by:	See individual part
Date:	July 2007
Version number:	1
Project:	Front End Test Stand
Sheet number:	4 / 9
Number off:	See individual part
Do not scale	
Scale:	1:1
Updated:	Dec 2007
Notes:	
Contract:	p.savage@imperial.ac.uk (Work 0207 594 837) (Mobile 07884 268093)

Unless otherwise stated:	
Dimensional tolerances:	X ± 0.5 mm
	X.X ± 0.2 mm
	X.XX ± 0.1 mm
Angular tolerance:	± 0.5°
Surface finish:	5 microns
Dimensions in mm	□



Rail runner locator - vee
Material: EN24
No. off: 5

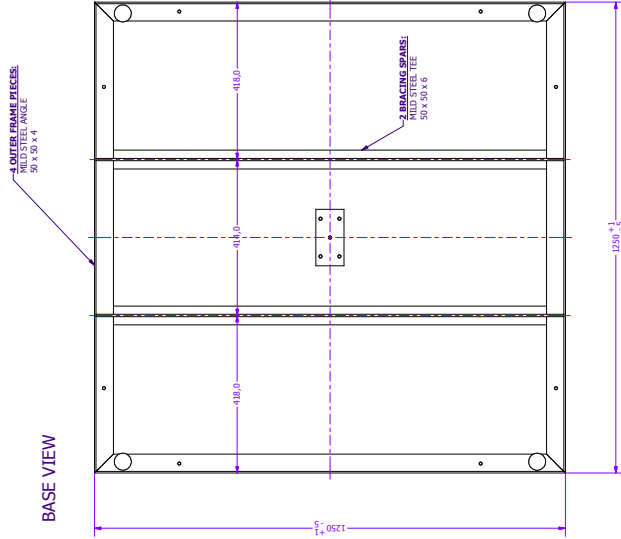
F.E.T.S. Support stand rail mounts

Drawn by:	P. Savage	Projection:	First angle
Designed by:	P. Savage	Model file:	Base.gdt
Checked by:	P. Savage	Drawing file:	SupportBench.dwg
Date:	July 2007	Version number:	1
Manufactured by:	Saved per part	Project:	Front End Test Stand
Material:	Remove all burrs	Sheet number:	5 / 9
Scale:	Do not scale	Number off:	5
Notes:	Updated Dec 2007	Drawing number:	LC_HRP_235_FET5_2004
Contract:	p.savage@imperial.ac.uk	(Work) 0207 594 837	(Mobile) 07804 260093

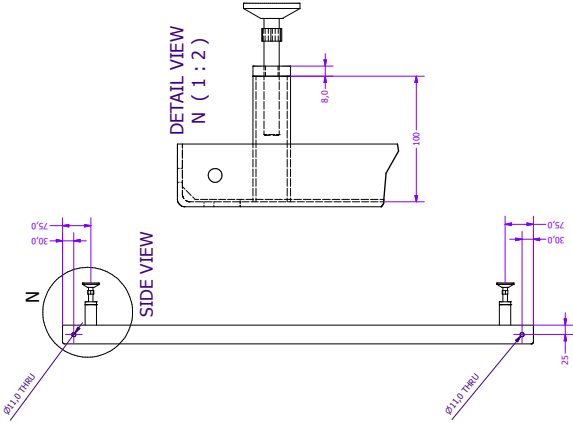
Unless otherwise stated:	
Dimensional tolerances:	X ± 0.5 mm
	X.X ± 0.2 mm
	X.XX ± 0.1 mm
Angular tolerance:	± 0.5°
Hole controls:	± 0.5 mm
Surface finish:	5 microns
Dimensions in mm	□

Raised Floor Section - Large (6 off)

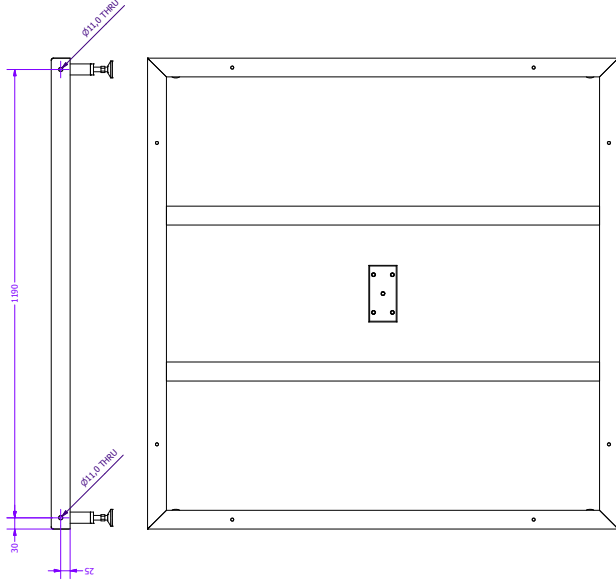
BASE VIEW



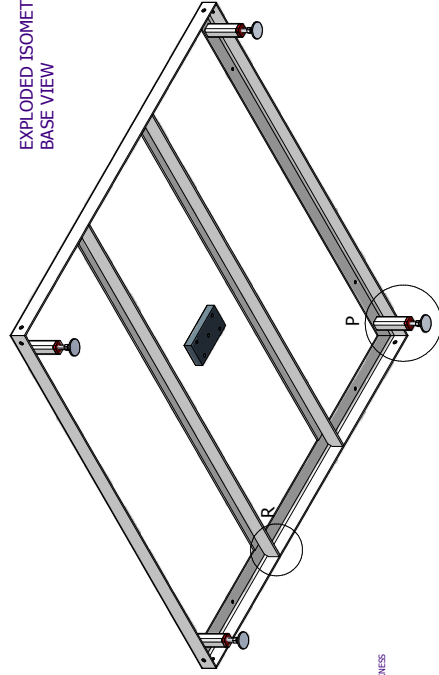
SIDE VIEW



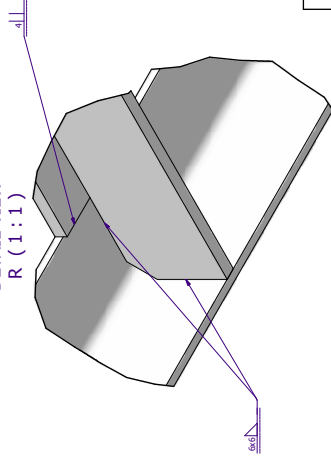
TOP VIEW



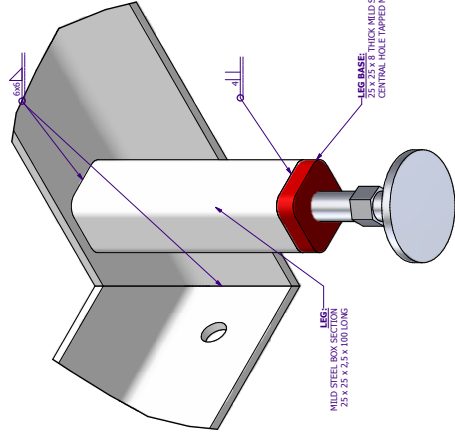
EXPLODED ISOMETRIC
BASE VIEW



DETAIL VIEW
R (1 : 1)



DETAIL VIEW
P (1 : 1)



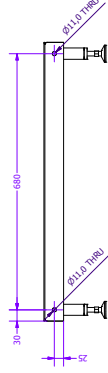
NOTES:

- 1). FEET TO BE SUPPLIED BY CUSTOMER
- 2). PAINT - TO BE PAINTED USING THE SAME PROCESS AND MATERIALS AS THE MAIN STRUCTURE
DWG # IC-REP-PJS-FETS-2005
- THREADED HOLES TO BE FREE OF PAINT

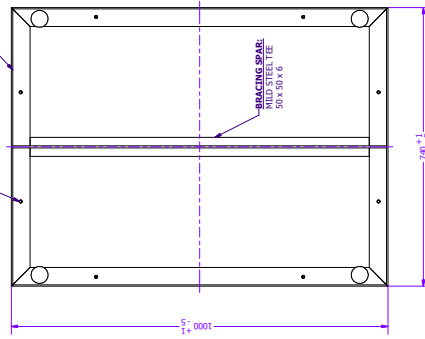
Raised Floor Section - Large

Title:	Third angle	Unless otherwise stated:	
Drawn by:	P. Savage	Dimensional tolerances:	X ± 0.5 mm
Designed by:	P. Savage		X.X ± 0.2 mm
Checked by:	N/A		X.XX ± 0.1 mm
Date:	10th Dec 2007		X.XXX ± 0.1 mm
Version number:	1	Angular tolerance:	± 0.5°
Project:	Front End Test Stand	Hole centres:	± 0.5 mm
Manufacturer:	As described	Surface finish:	5 microns
Remove all burrs	6 assemblies	Dimensions in mm	0
Scale:	Do not scale		
Drawn number:	IC-REP-PJS-FETS-2005		
Notes:			
Contract:	p.savage@imperial.ac.uk (Work) 0207 594 8337 (Home) 02084 268093		

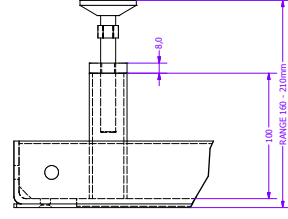
Raised Floor Section -
Small (5 off)



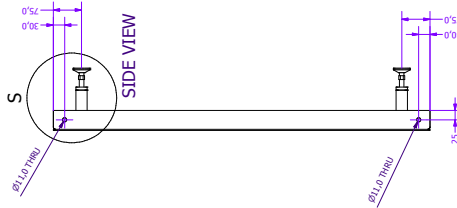
BASE VIEW



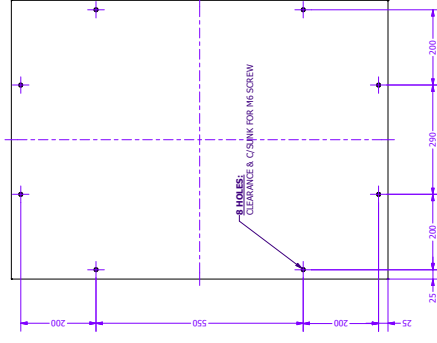
DETAIL VIEW
S (1:2)



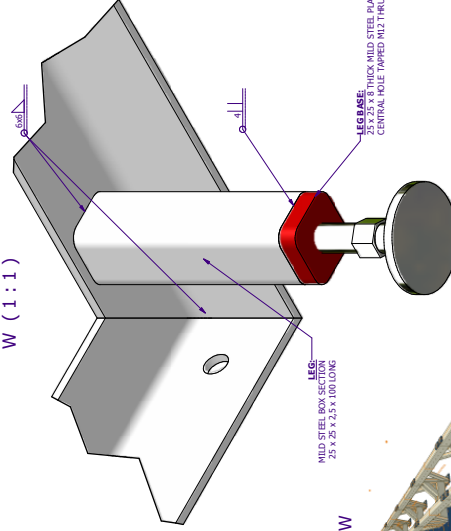
SIDE VIEW



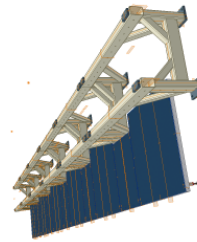
TOP VIEW



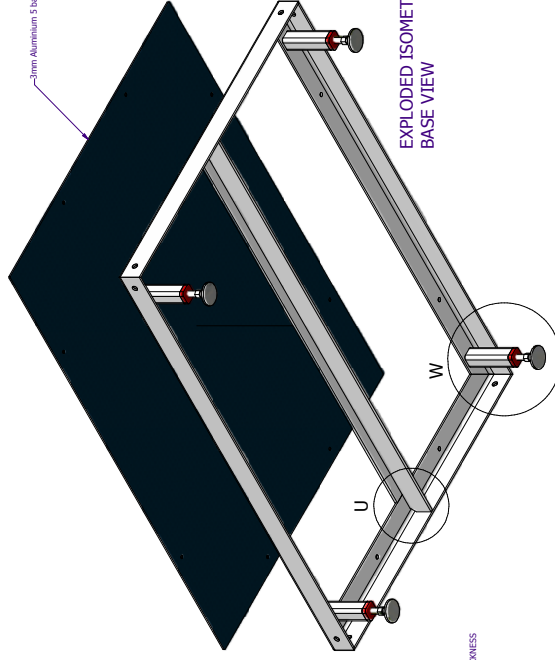
DETAIL VIEW
W (1:1)



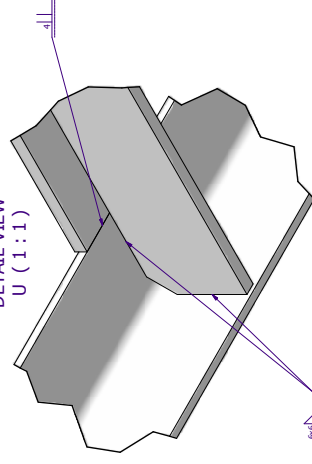
OVERVIEW



EXPLODED ISOMETRIC
BASE VIEW

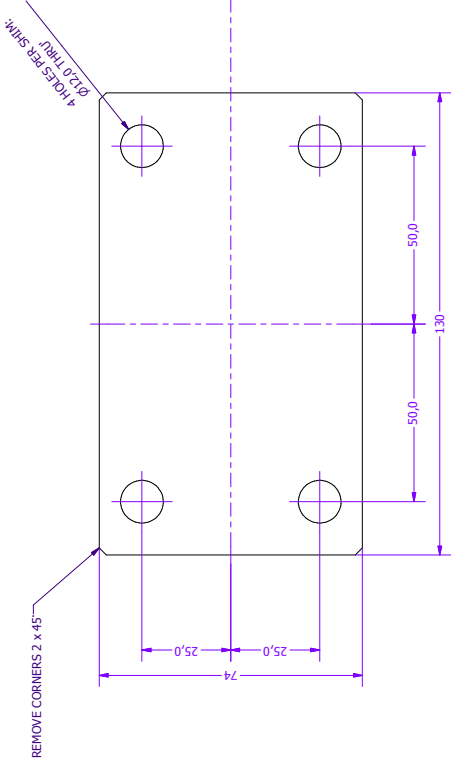
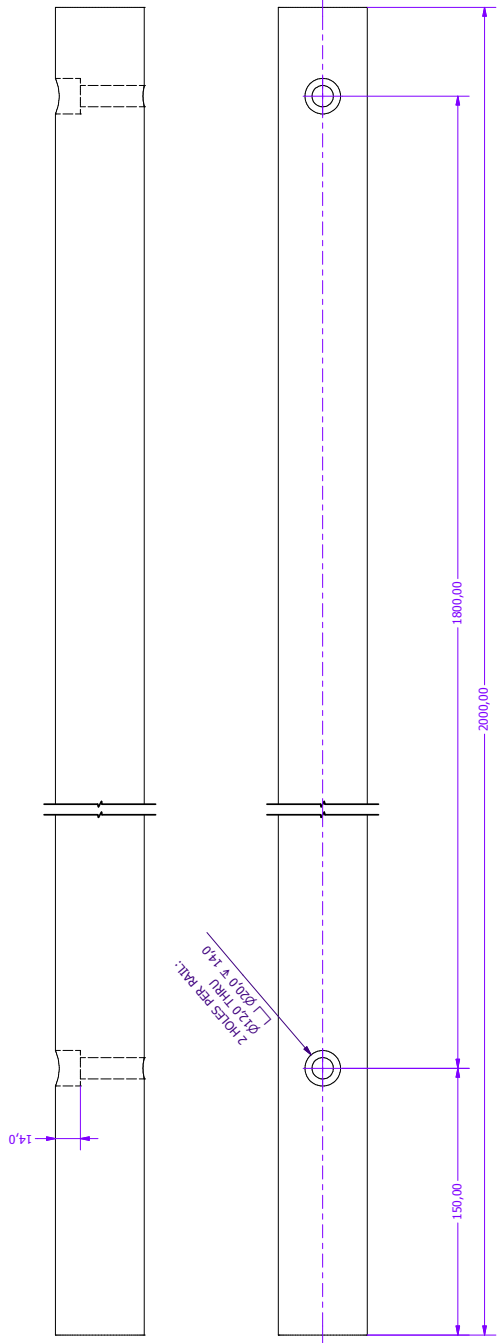
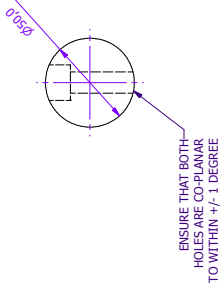


DETAIL VIEW
U (1:1)

[illegible]

NOTES:

- 1)... FEET TO BE SUPPLIED BY CUSTOMER
- 2)... PAINT - TO BE PAINTED USING THE SAME PROCESS AND COLOUR AS FOR THE FETS SUPPORT STANDS
DWG # 1C_HEP_PIS_FETS_2000
- THREADED HOLES TO BE FREE OF PAINT



GUILLOTINED TO SIZE IS SUFFICIENT

SHIM
MATERIAL: STAINLESS STEEL
25 OFF @ 1,00 mm THICK
25 OFF @ 0,50 mm THICK
25 OFF @ 0,25 mm THICK
25 OFF @ 0,10 mm THICK

Rail c/bore & shims

Title:	Drawn by:	P. Savage	Projection:	Third angle
	Designed by:	P. Savage	Model file:	2000_Rail.ipt
	Checked by:	N/A	Drawing file:	SupportBench5.dwg
	Date:	18th July 2008	Version number:	1
	Manufactured by:	A C Precision	Project:	Front End Test Stand
	Material:	N/A	Sheet number:	8 / 9
	Remove all burrs		Number off:	N/A
	Scale:	Do not scale	Drawing number:	IC_HEP_PJS_FETS_2007
	Notes:			
	Contact:	p.savage@imperial.ac.uk	(Work) 0207 594 7817	(Mobile) 07884 268058

Unless otherwise stated:	
Dimensional tolerance:	X ± 0.5 mm XX ± 0.2 mm XXX ± 0.1 mm
Angular tolerance:	± 0.5°
Hole centres:	± 0.5 mm
Surface finish:	5 microns
Dimensions in mm	□

