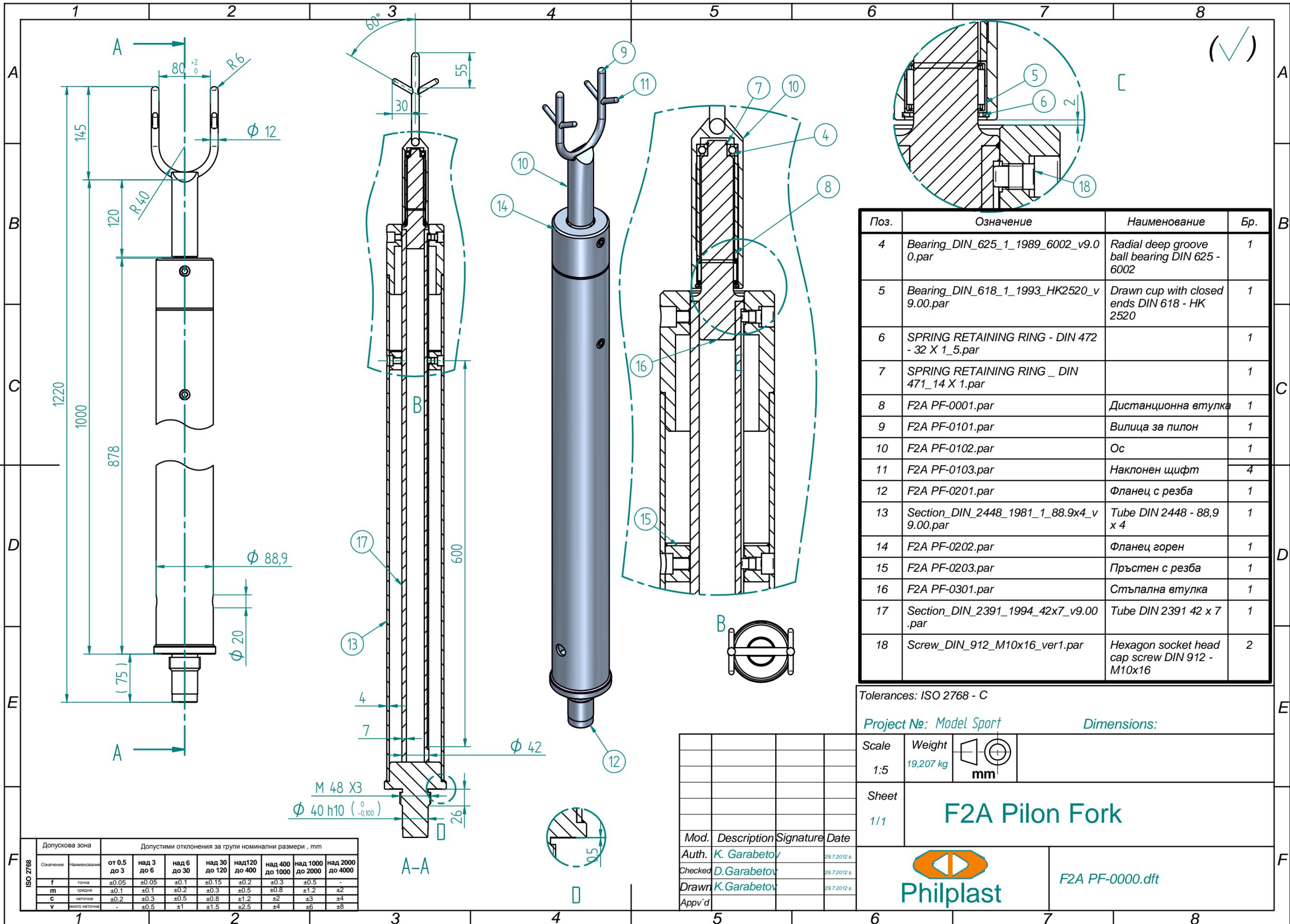


## Preferred Design for an F2A Pylon

The attached drawings are for the pylon which was made for the 2012 F2A World Championships in Bulgaria. This pylon was considered by the competitors to be the best one ever used at a Championship.

Page 2 shows the pylon and all the components and the nine pages thereafter show the separate components.



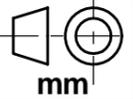
Поз.	Означение	Наименование	Бр.
4	Bearing_DIN_625_1_1989_6002_v9.0 0.par	Radial deep groove ball bearing DIN 625 - 6002	1
5	Bearing_DIN_618_1_1993_HK2520_v 9.00.par	Drawn cup with closed ends DIN 618 - HK 2520	1
6	SPRING RETAINING RING - DIN 472 - 32 X 1_5.par		1
7	SPRING RETAINING RING _ DIN 471_14 X 1.par		1
8	F2A PF-0001.par	Дистанционна втулка	1
9	F2A PF-0101.par	Вилица за пилон	1
10	F2A PF-0102.par	Ос	1
11	F2A PF-0103.par	Наклонен щифт	4
12	F2A PF-0201.par	Фланец с резба	1
13	Section_DIN_2448_1981_1_88.9x4_v 9.00.par	Tube DIN 2448 - 88,9 x 4	1
14	F2A PF-0202.par	Фланец горен	1
15	F2A PF-0203.par	Пръстен с резба	1
16	F2A PF-0301.par	Стъпална втулка	1
17	Section_DIN_2391_1994_42x7_v9.00 .par	Tube DIN 2391 42 x 7	1
18	Screw_DIN_912_M10x16_ver1.par	Hexagon socket head cap screw DIN 912 - M10x16	2

Tolerances: ISO 2768 - C

Project №: Model Sport

Dimensions:

Scale 1:5  
Weight 19,207 kg



Sheet 1/1

# F2A Pilon Fork

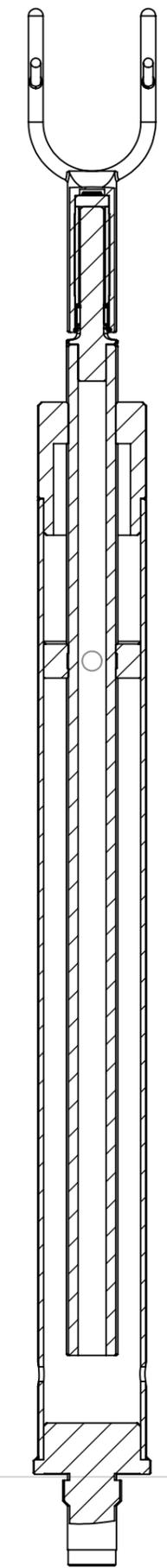
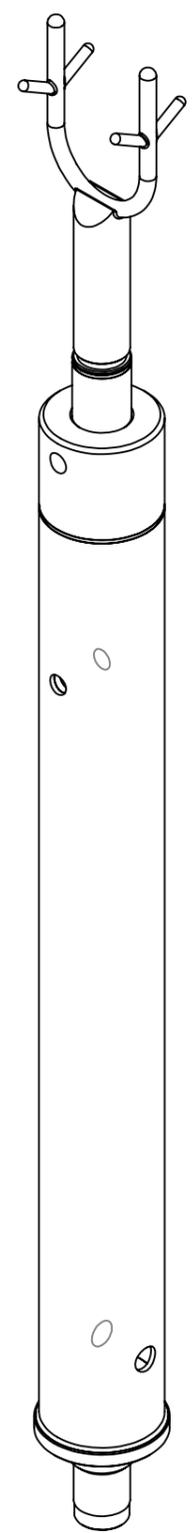
Mod.	Description	Signature	Date
Auth.	K. Garabetov		29.7.2012 г.
Checked	D. Garabetov		29.7.2012 г.
Drawn	K. Garabetov		29.7.2012 г.
App'v'd			



F2A PF-0000.dft

Допускова зона	Допустими отклонения за групи номинални размери, mm							
	от 0.5 до 3	над 3 до 6	над 6 до 30	над 30 до 120	над 120 до 400	над 400 до 1000	над 1000 до 2000	над 2000 до 4000
f	±0.05	±0.05	±0.1	±0.15	±0.2	±0.3	±0.5	-
m	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
c	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	±4
v	-	±0.5	±1	±1.5	±2.5	±4	±6	±8

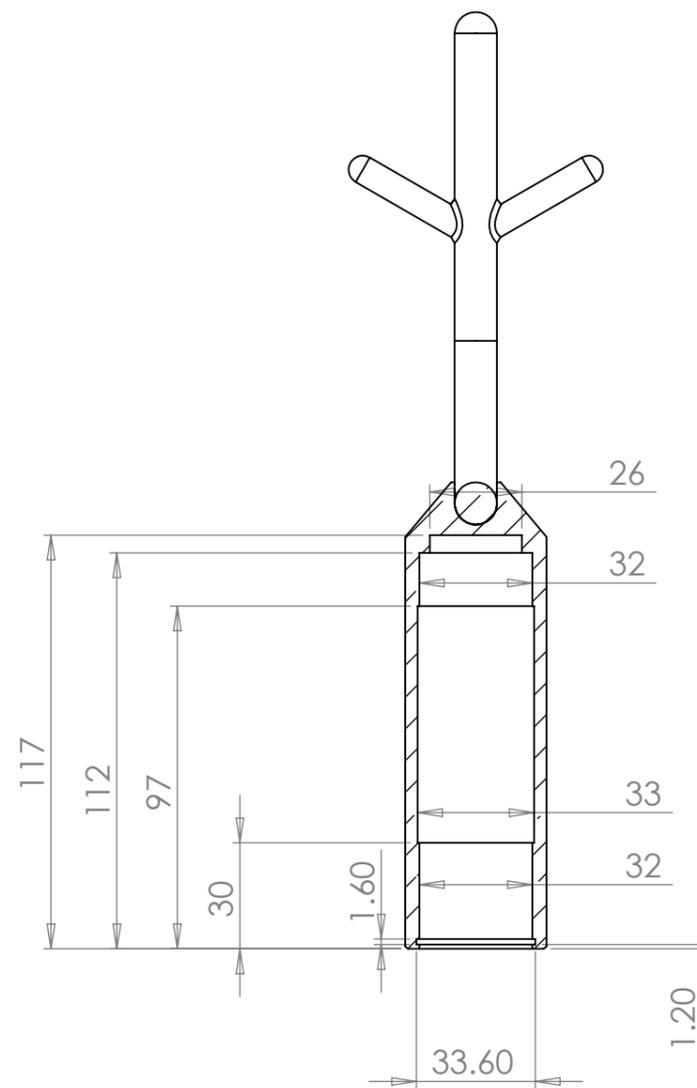
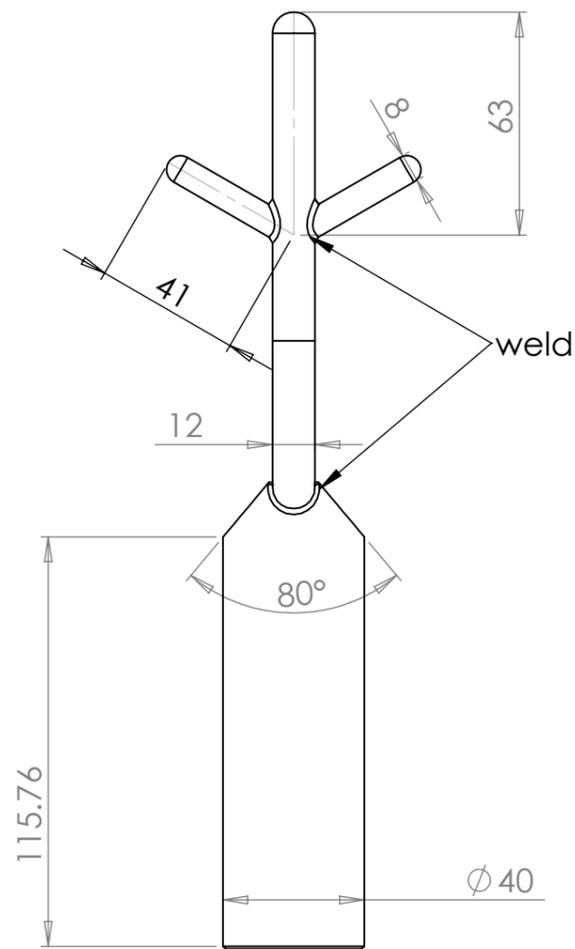
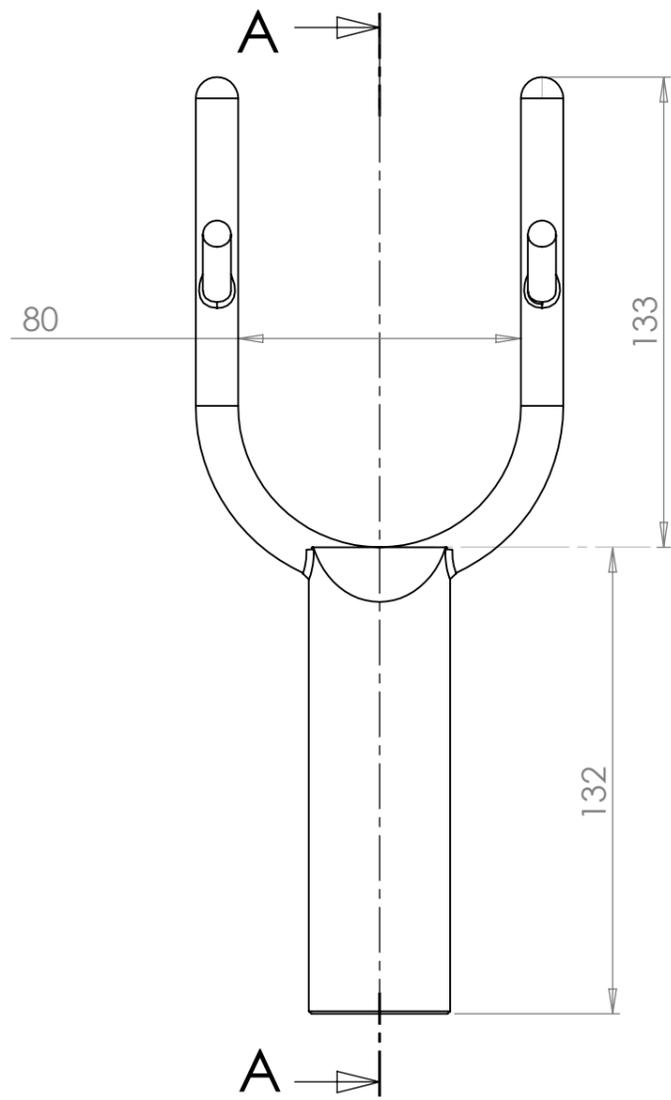
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Bearing_DIN_625_1_1989_6002_v9.00		1
2	Bearing_DIN_618_1_1993_HK2520_v9.1		1
3	Bearing_DIN_618_1_1993_HK2520_v9.00		1
4	SPRING RETAINING RING - DIN 472 - 32 X 1.5		1
5	SPRING RETAINING RING _ DIN 471_14 X 1		1
6	F2A PF-0001 bearing spacer		1
7	Screw_DIN_912_M10x16_ver1		2
8	F2A PF-0100 pylon forks		1
9	F2A PF-0200 outer column asembly		1
10	F2A PF-0300 inner column		1



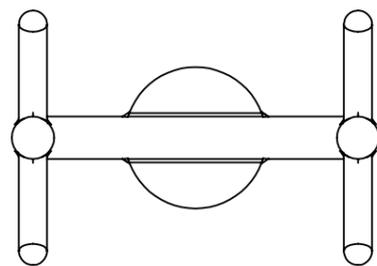
REVISION	REVISION	REVISION	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS	FINISH:	MATERIAL:
			DEBUR AND BREAK SHARP EDGES 0.2 MAX	DIMENSIONS ABOVE TO	MASS: DRAWN P HALMAN
			DO NOT SCALE DRAWING	GENERAL MACHINING TOLERANCES:	DATE
				SURFACE FINISH:	

TITLE:	
DWG NO.	F2A Pylon PH
SCALE:1:2	SHEET 1 OF 9

A3



SECTION A-A

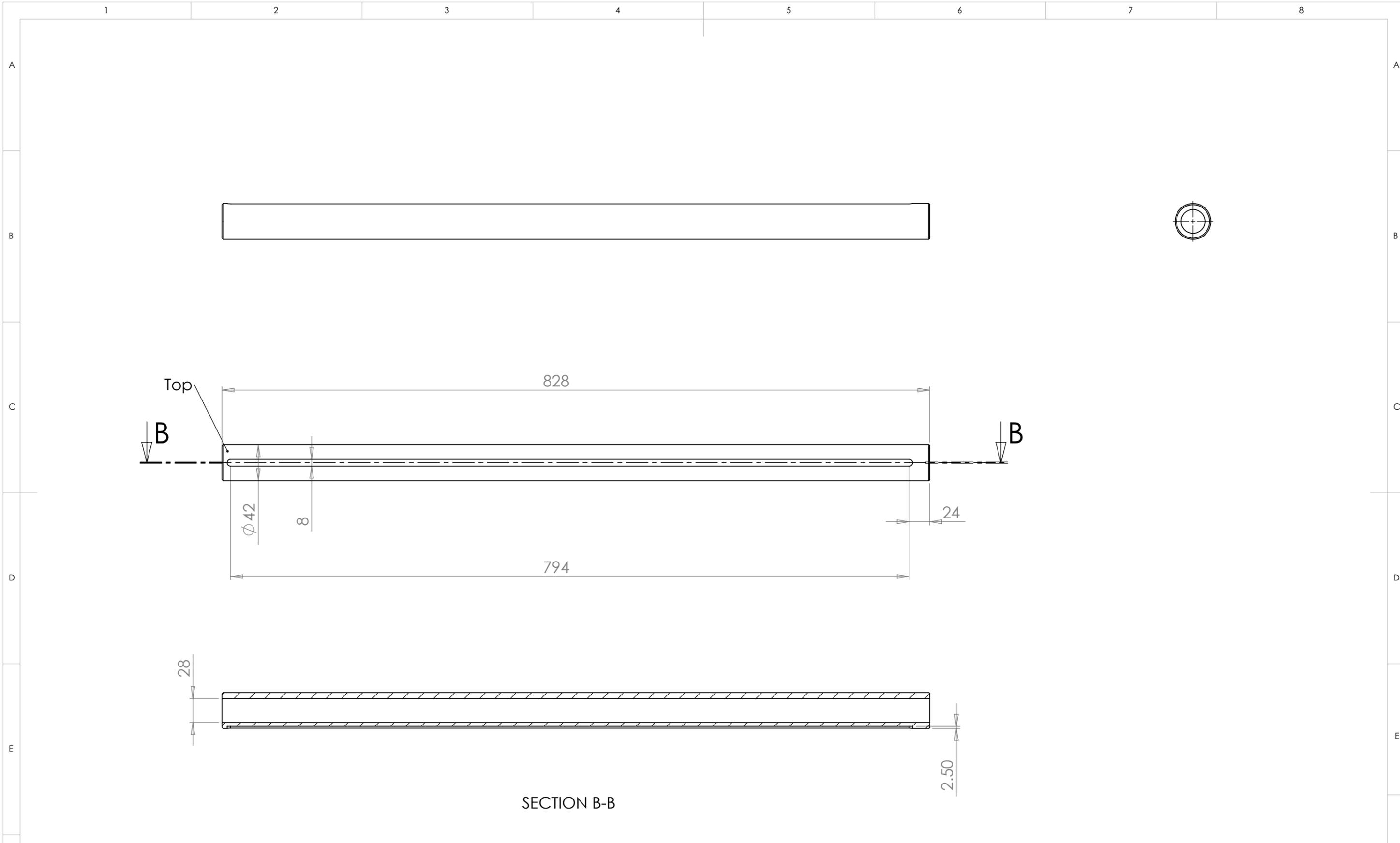


REVISION	REVISION	REVISION

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS	FINISH:	MATERIAL:						
	DEBUR AND BREAK SHARP EDGES 0.2 MAX	DIMENSIONS ABOVE TO	0	6	30	60	MASS:	DATE
	DO NOT SCALE DRAWING	GENERAL MACHINING TOLERANCES:	±0.025	±0.05	±0.15	±0.3	DRAWN	P HALMAN
	SURFACE FINISH:	Ra 1.6 max				CHK'D		

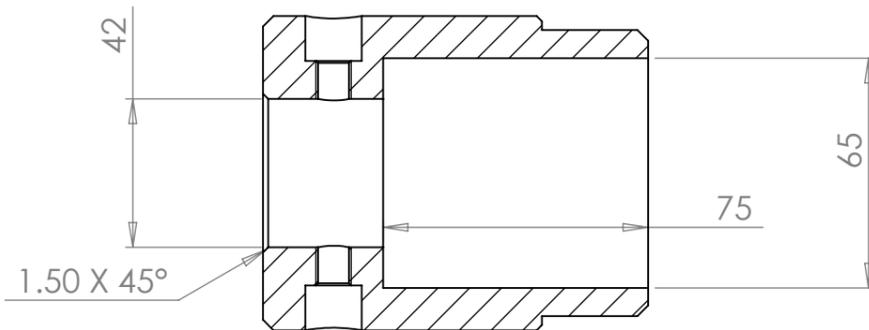
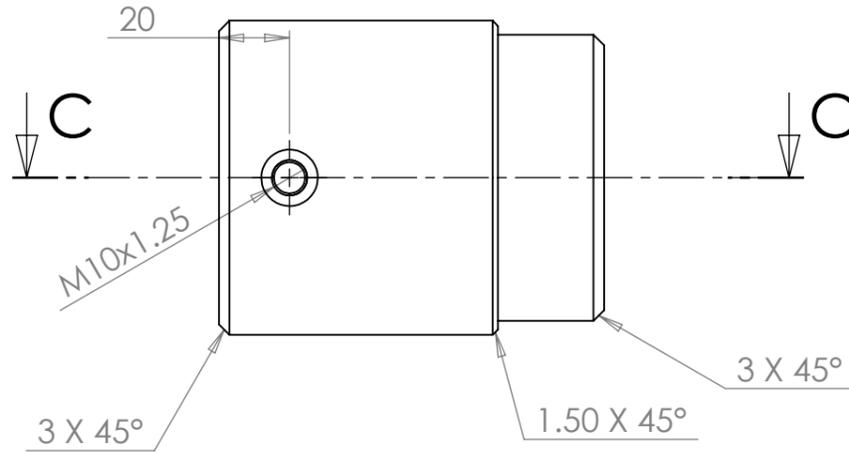
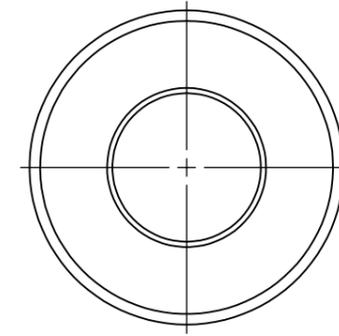
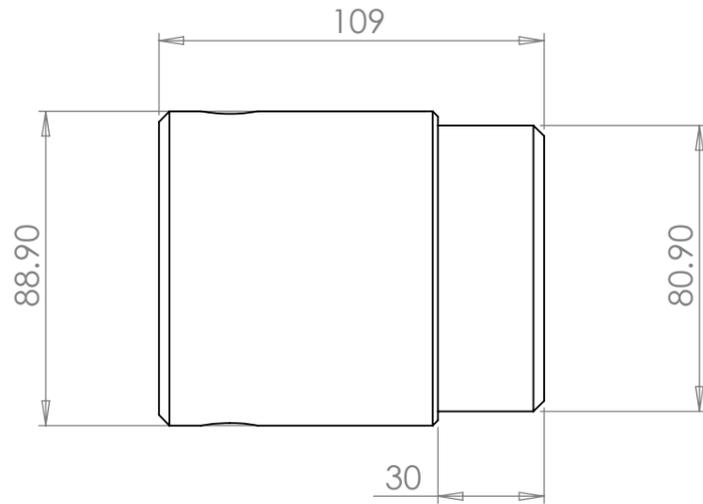
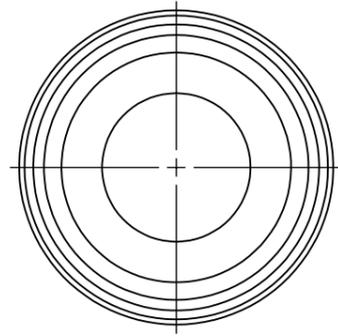
APPV'D	
ISSUE	
ISSUE	

TITLE:	
Pylon Fork assembly	
DWG NO.	A3
F2A Pylon PH	



SECTION B-B

REVISION		REVISION		REVISION		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS				FINISH:				MATERIAL:			TITLE:		
						DEBUR AND BREAK SHARP EDGES 0.2 MAX				DIMENSIONS ABOVE TO				MASS:		DATE		Inner tube	
						DO NOT SCALE DRAWING				GENERAL MACHINING TOLERANCES:				DRAWN P HALMAN					
														APPV'D				DWG NO. F2A Pylon PH	
														ISSUE					
														ISSUE				A3	
										SURFACE FINISH: Ra 1.6 max				ISSUE					
1		2		3		4										SCALE:1:4		SHEET 3 OF 9	



SECTION C-C

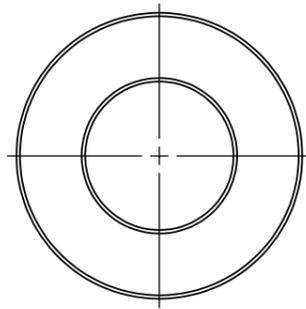
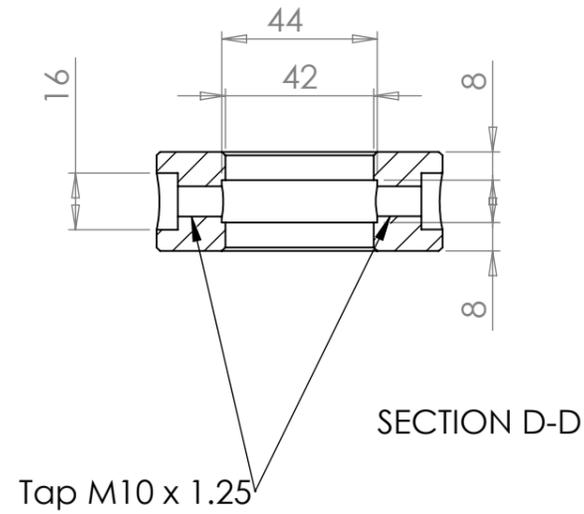
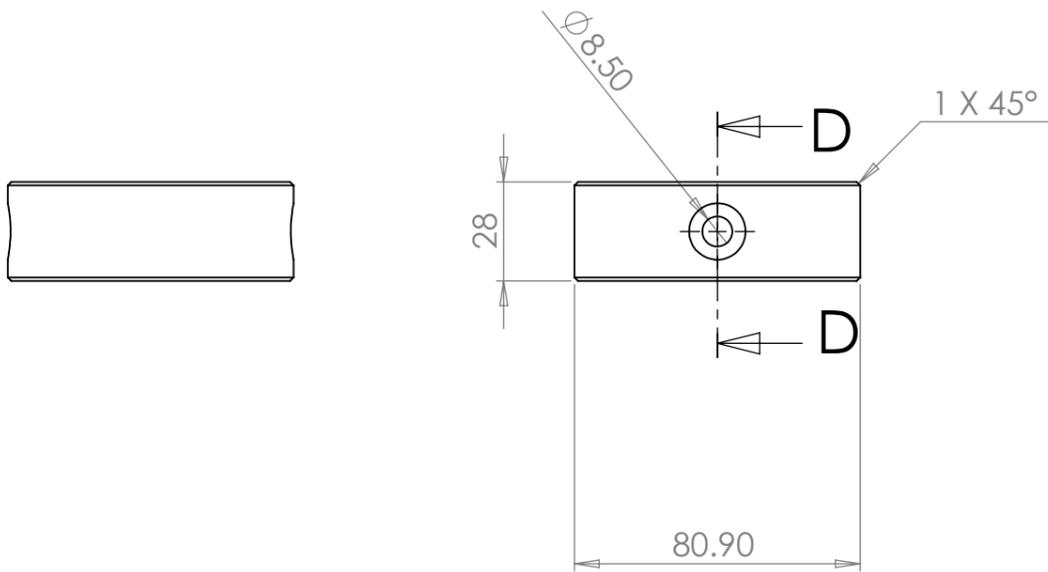
REVISION	REVISION	REVISION

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS	FINISH:				
	DEBUR AND BREAK SHARP EDGES 0.2 MAX				
	DO NOT SCALE DRAWING				
	SURFACE FINISH: Ra 1.6 max				
DIMENSIONS ABOVE TO		0	6	30	60
GENERAL MACHINING TOLERANCES:		±0.025	±0.05	±0.15	±0.3

MATERIAL:	
MASS:	DATE
DRAWN P HALMAN	
CHK'D	
APPV'D	
ISSUE	
ISSUE	

TITLE: <b>Outer tube upper collar</b>	
DWG NO. F2A Pylon PH	A3
SCALE:1:2	SHEET 4 OF 9

1 2 3 4

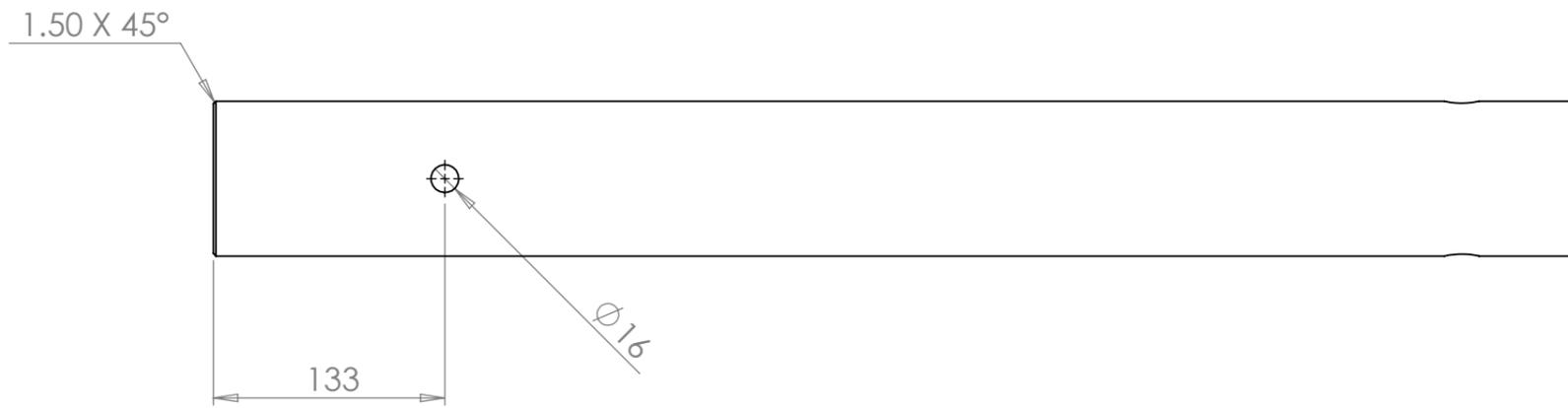
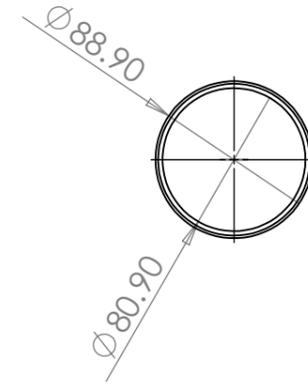


REVISION	REVISION	REVISION	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS	FINISH: DIMENSIONS ABOVE TO	0	6	30	60	MATERIAL:	DATE								
										DEBUR AND BREAK SHARP EDGES 0.2 MAX	6	30	60	120	DRAWN	P HALMAN		
										DO NOT SCALE DRAWING	GENERAL MACHINING TOLERANCES:	±0.025	±0.05	±0.15	±0.3	APPV'D		
											SURFACE FINISH:	Ra 1.6 max				ISSUE		

TITLE:		Outer tube inner collar
DWG NO.	F2A Pylon PH	
SCALE:1:2	SHEET 5 OF 9	

A3





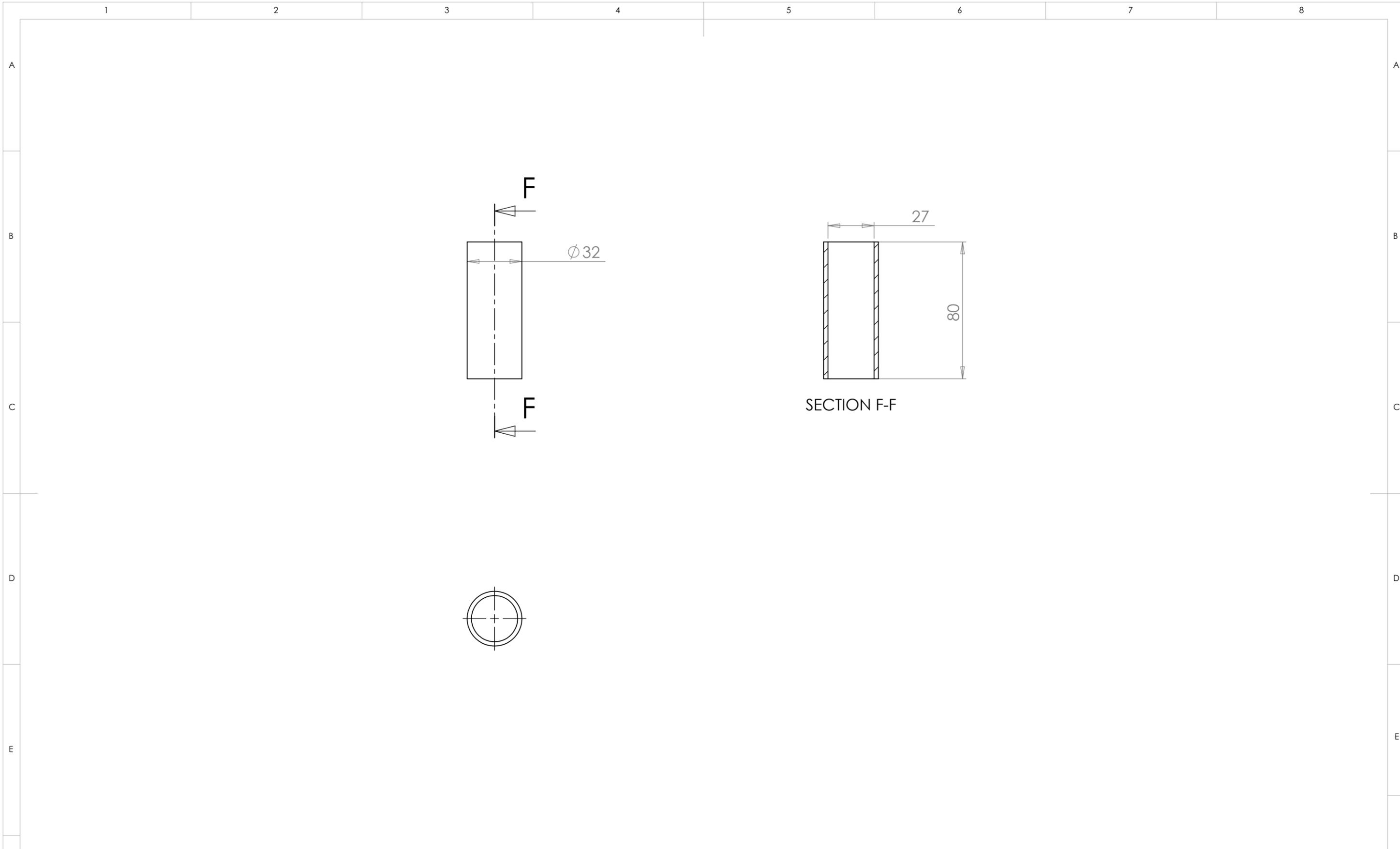
REVISION	REVISION	REVISION

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS	FINISH:			
	DEBUR AND BREAK SHARP EDGES 0.2 MAX	DIMENSIONS ABOVE TO	0	6
	DO NOT SCALE DRAWING	GENERAL MACHINING TOLERANCES:	$\pm 0.025$	$\pm 0.05$
		SURFACE FINISH:	Ra 1.6 max	

MATERIAL:	
MASS:	DATE
DRAWN	P HALMAN
CHK'D	
APPV'D	
ISSUE	
ISSUE	


TITLE: <b>Outer tube</b>	
DWG NO. <b>F2A Pylon PH</b>	<b>A3</b>
SCALE:1:4	SHEET 7 OF 9

1	2	3	4
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REVISION		REVISION		REVISION		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS				FINISH:				MATERIAL:			TITLE: <b>Spacer tube</b>		
						DEBUR AND BREAK SHARP EDGES 0.2 MAX				DIMENSIONS ABOVE TO				MASS:		DATE			
						DO NOT SCALE DRAWING				GENERAL MACHINING TOLERANCES:				DRAWN P HALMAN				DWG NO. <b>F2A Pylon PH</b>	
										±0.025 ±0.05 ±0.15 ±0.3		APPV'D				A3			
										SURFACE FINISH:		Ra 1.6 max		ISSUE					
														ISSUE					
1		2		3		4								SCALE:1:2		SHEET 8 OF 9			

