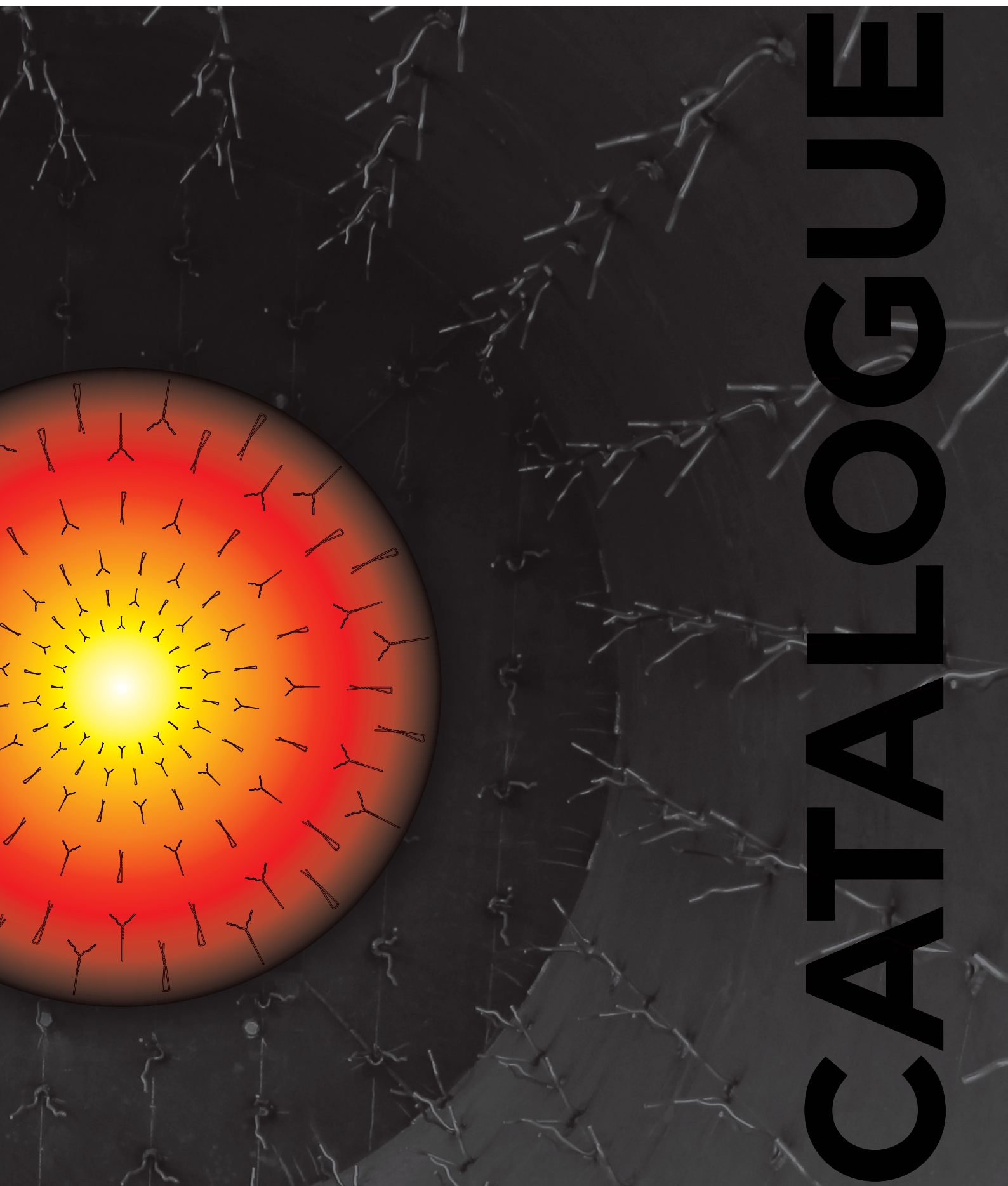




REFRACTORY ANCHORS CATALOGUE



# CATALOGUE



## PICTORIAL INDEX

### REFRACTORY ANCHORS



**PF CH ANCHOR  
PF-R001**



**PF VWL ANCHOR  
PF-R006**



**PF VW ANCHOR  
PF-R002**



**PF VSL ANCHOR  
PF-R007**



**PF VWF ANCHOR  
PF-R003**



**PF YSWF ANCHOR  
PF-R008**



**PF WOL ANCHOR  
PF-R004**



**PF YSWL ANCHOR  
PF-R009**



**PF WBL ANCHOR  
PF-R005**



**PF BULL HORN ANCHOR  
PF-R010**





## PICTORIAL INDEX

### REFRACTORY ANCHORS



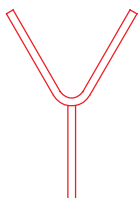
**PF TWIST ANCHOR  
PF-R011**



**PF VWFN ANCHOR  
PF-R016**



**PF Y ANCHOR  
PF-R012**



**PF WNL ANCHOR  
PF-R017**



**PF WB-HEXNUT ANCHOR  
PF-R013**



**PF HRC STUD WELD ANCHOR  
PF-R018**



**PF VS-HEXNUT ANCHOR  
PF-R014**



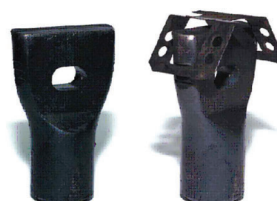
**PF YWS STUD WELD ANCHOR  
PF-R019**



**PF WN ANCHOR  
PF-R015**



**PF STUD WELDABLE LUG  
PF - SWRLB**





# PICTORIAL INDEX

## REFRACTORY ANCHORS



**PF ROD LOK ANCHOR  
PF-R020**



**PF HEXAGONAL MESH  
PF-R025**



**PF CLOSE PARALLEL ANCHOR  
PF-R021**



**PF WALL ANCHOR  
PF-R026**



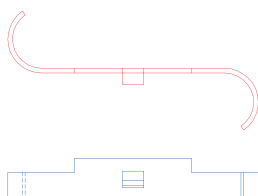
**PF SPLIT FLAT BAR Y-ANCHOR  
PF-R022**



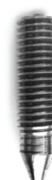
**PF C CLIPS  
PF-R027**



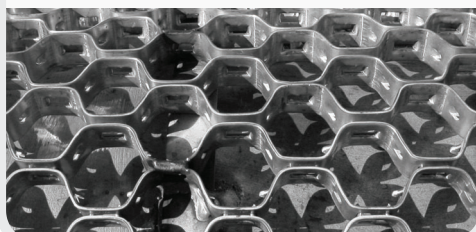
**PF S-SHAPE ANCHOR  
PF-R023**



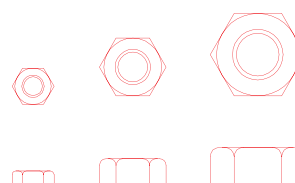
**PF STUDS  
PF-R028**



**PF HEXAGONAL MESH  
PF-R024**



**PF NUTS  
PF-R029**



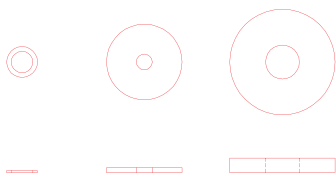


# PICTORIAL INDEX

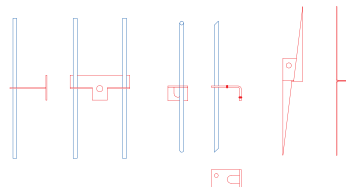
## REFRACTORY ANCHORS



**PF WASHERS  
PF-R030**



**PF BLOCK ANCHORS  
PF-R035**



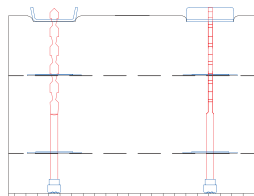
**PF FIBRE ANCHOR  
PF-R031**



**PF HEXAGONAL CELL  
PF-R036**



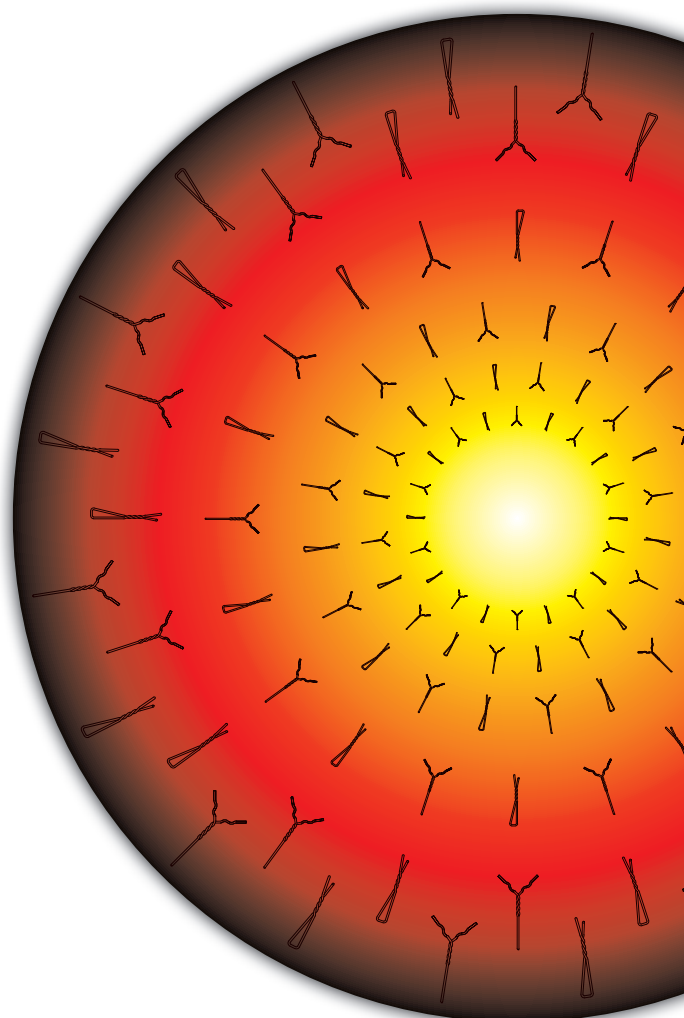
**PF FIBRELOK ASSEMBLY  
PF-R032**



**PF CERAMIC CUP LOKS  
PF-R033**

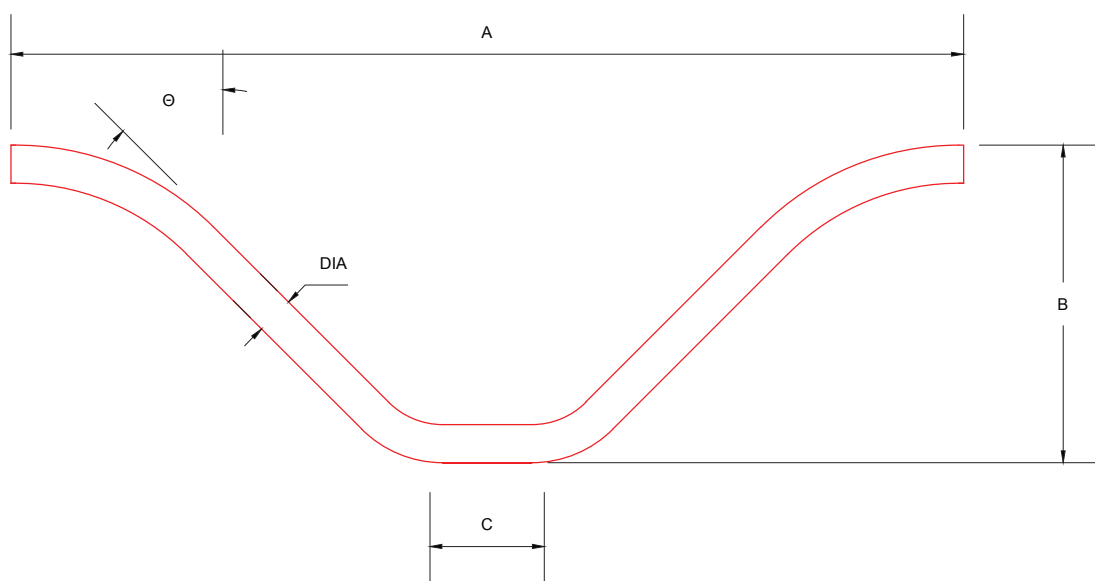


**PF BI-METALLIC PIN  
PF-R034**





D



Anchor	A	B	Θ
PFCH1	100	25	30
PFCH1½	125	38	30
PFCH2	150	50	45
PFCH2½	175	63	45
PFCH3	175	76	30
PFCH3½	200	88	30

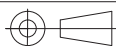
TYPICALLY USED DIAMETERS 5MM, 6MM, 8MM



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FILE NAME: PF CH ANCHOR - PF - R001.DWG



PAGE/SHEET

DATE	REVISION	BY
MATERIAL: STAINLESS STEEL		DATE 31.3.11
DWG No. PF - R001		SIZE A4



VIEW ON B

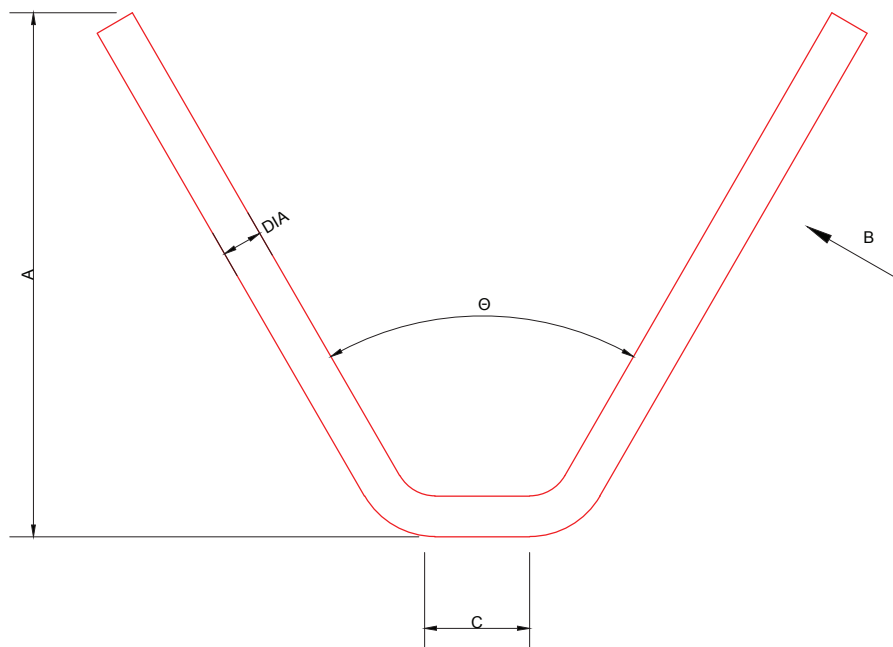


A=15-40MM	DIA= 3-5MM
A=25-100MM	DIA= 6MM
A=75-200MM	DIA= 8MM
A=150-300MM	DIA= 10MM

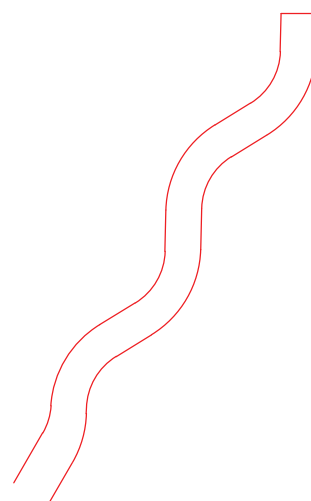


DATE 31.3.11	
SIZE A4	REV





**ELEVATION**  
MANUAL WELDING  
FLAT BASE ANCHOR



**VIEW ON B**



**OPTIONS:**

STAGGER LEG HEIGHT  
VARY ANGLE USUALLY 60DEG SOMETIMES 90DEG  
VARY CORRUGATION DEPTH/PITCH  
EXTEND OR CONTRACT BASE

**COMMON WIRE SIZES CHOSEN:**

A=15-40MM	DIA= 3-5MM
A=25-100MM	DIA= 6MM
A=75-200MM	DIA= 8MM
A=150-300MM	DIA=10MM



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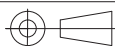
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TITLE  
PF VWF ANCHOR

FILE NAME: PF VWF ANCHOR - PF - R003.DWG



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SCALE  
N.T.S

PAGE/SHEET

DATE	REVISION	BY

MATERIAL: STAINLESS STEEL

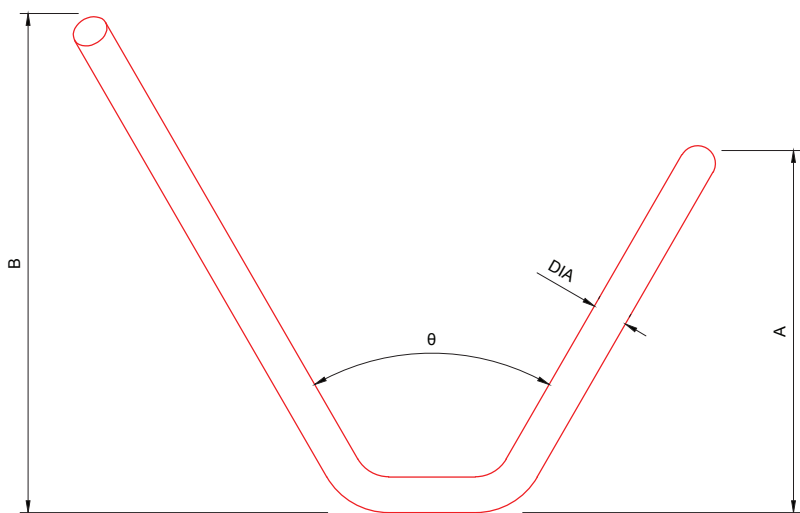
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PF - R003

DATE  
31.3.11

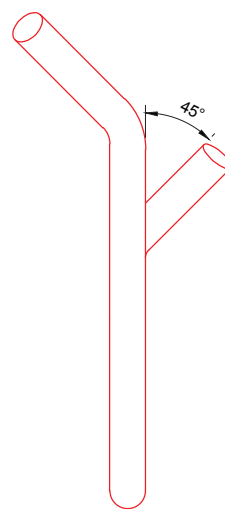
SIZE  
A4

REV





ELEVATION



ELEVATION



PLAN



## OPTIONS:

STAGGER LEG HEIGHT  
VARY ANGLE USUALLY 60DEG SOMETIMES 90DEG  
VARY CORRUGATION DEPTH/PITCH  
EXTEND OR CONTRACT BASE  
STRAIGHT LEG NO CORRUGATION

## COMMON WIRE SIZES CHOSEN:

A=15-40MM DIA= 3-5MM  
A=15-100MM DIA= 6MM  
A=75-200MM DIA= 8MM  
A=150-300MM DIA=10MM

ANC No	A	B	C	θ	DIA
PFWO 22	50	50	22	60	6
PFWO 32	75	50	32	60	6
PFWO 43	100	75	43	60	6
PFWO 54	125	100	54	60	6
PFWO 65	150	125	65	60	6
PFWO 76	175	150	76	45	8
PFWO 87	200	175	87	45	8
PFWO 98	230	200	98	45	8
PFWO 109	250	230	109	45	8



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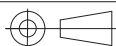
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TITLE  
PF WOL ANCHOR

FILE NAME: PF WOL ANCHOR - PF - R004.DWG



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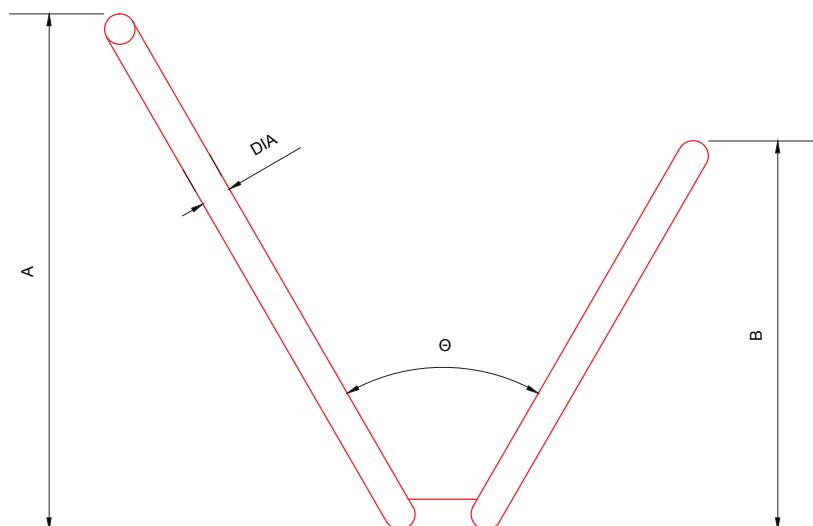
DATE	REVISION	BY

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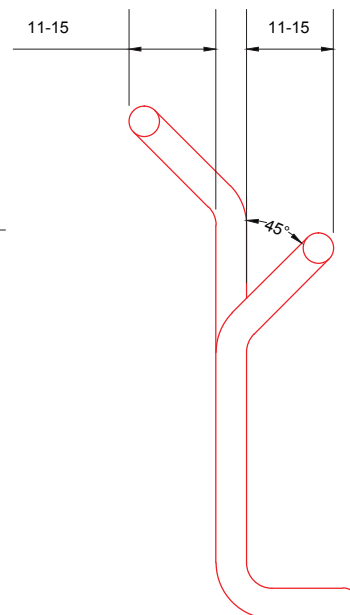
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PF - R004

DATE  
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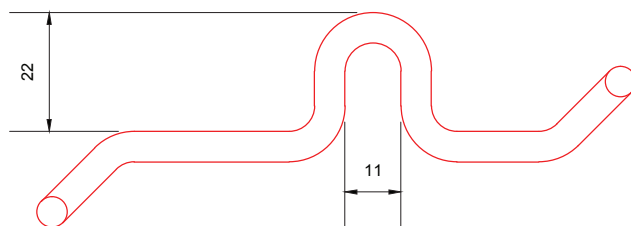




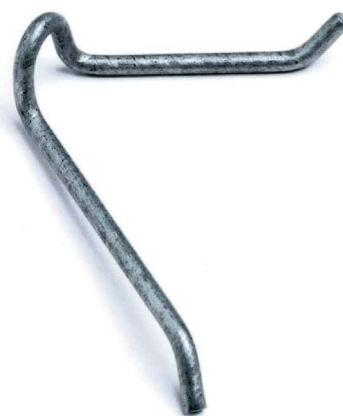
**ELEVATION**  
LOOP BASE ANCHOR  
FOR BOLTING OR WELDING



**ELEVATION**



**PLAN**



**OPTIONS:**

STAGGER LEG HEIGHT  
VARY ANGLE USUALLY 60DEG SOMETIMES 90DEG  
VARY CORRUGATION DEPTH/PITCH  
EXTEND OR CONTRACT BASE  
STRAIGHT LEG NO CORRUGATION

**COMMON WIRE SIZES CHOSEN:**

A=15-40MM DIA= 3-5MM  
A=25-100MM DIA= 6MM  
A=75-200MM DIA= 8MM  
A=150-300MM DIA=10MM

ANC No	A	B	C	θ	DIA
PFWO 22	50	50	22	60	6
PFWO 32	75	50	32	60	6
PFWO 43	100	75	43	60	6
PFWO 54	125	100	54	60	6
PFWO 65	150	125	65	60	6
PFWO 76	175	150	76	45	8
PFWO 87	200	175	87	45	8
PFWO 98	230	200	98	45	8
PFWO 109	250	230	109	45	8



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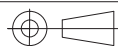
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TITLE  
PF WBL ANCHOR

FILE NAME: PF WBL ANCHOR - PF - R005.DWG



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MATERIAL: STAINLESS STEEL

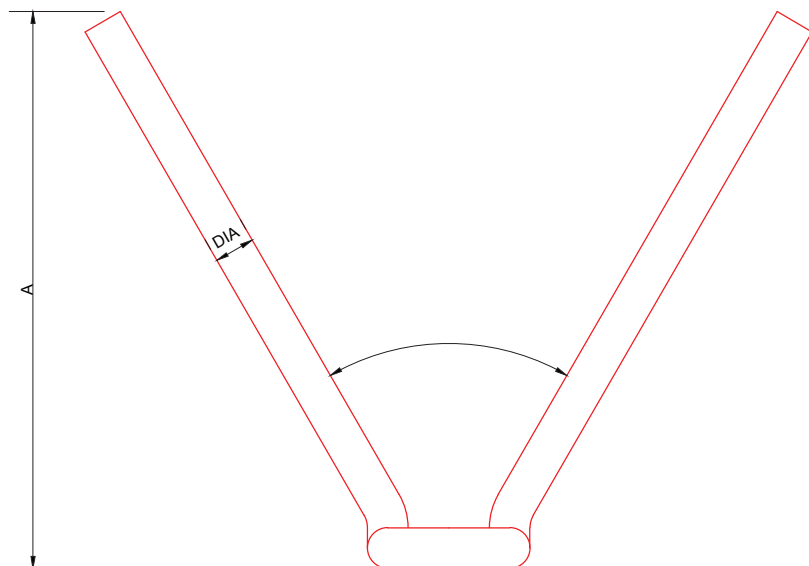
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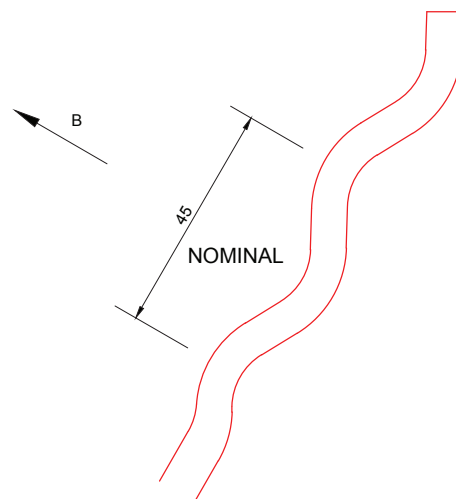
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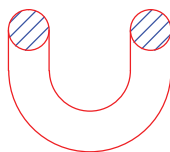




ELEVATION



VIEW ON B

BASE DETAIL  
VIEW ON ALOOP BASE ANCHOR FOR BOLTING  
OR MANUAL WELDING

## OPTIONS:

STAGGER LEG HEIGHT  
VARY ANGLE USUALLY 60DEG SOMETIMES 90DEG  
VARY CORRUGATION DEPTH/PITCH  
EXTEND OR CONTRACT BASE  
STRAIGHT LEG NO CORRUGATION

## COMMON WIRE SIZES CHOSEN:

A=15-40MM DIA= 3-5MM  
A=25-100MM DIA= 6MM  
A=75-200MM DIA= 8MM  
A=150-300MM DIA=10MM



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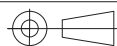
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TITLE  
PF VWL ANCHOR

FILE NAME: PF VWL ANCHOR - PF - R006.DWG



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DATE	REVISION	BY

MATERIAL: STAINLESS STEEL

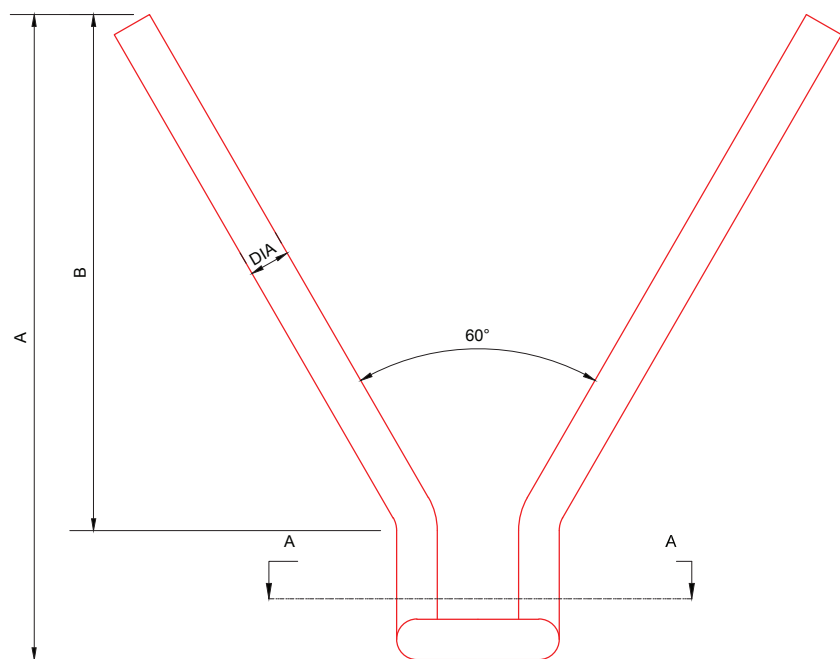
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PF - R006

DATE  
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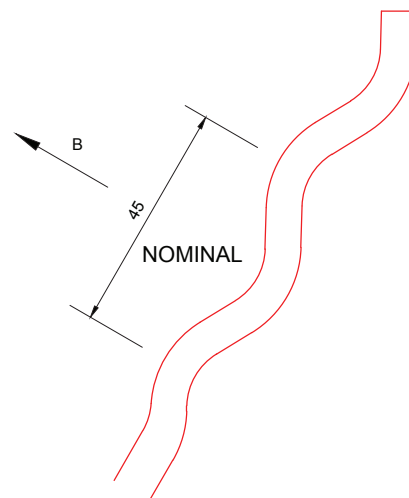
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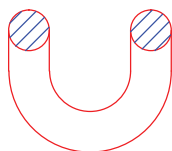




ELEVATION



VIEW ON B

BASE DETAIL  
VIEW ON A

LOOP BASE ANCHOR FOR BOLTING  
OR MANUAL WELDING



## OPTIONS:

STAGGER LEG HEIGHT  
VARY ANGLE USUALLY 60DEG SOMETIMES 90DEG  
VARY CORRUGATION DEPTH/PITCH  
EXTEND OR CONTRACT BASE  
STRAIGHT LEG NO CORRUGATION

## TYPICAL WIRE DIAMETERS:

TO PFVS 40 6 OR 8MM  
TO PFVS 60 8MM  
PFVS 50-80 8 OR 10MM

ANC No	A	B
PFVS-25	70	70
PFVS-35	90	70
PFVS-40	110	90
PFVS-50	130	100
PFVS-60	150	100
PFVS-70	180	100
PFVS-80	200	100



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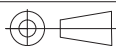
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TITLE  
PF VSL ANCHOR

FILE NAME: PF VSL ANCHOR - PF - R007.DWG



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PAGE/SHEET

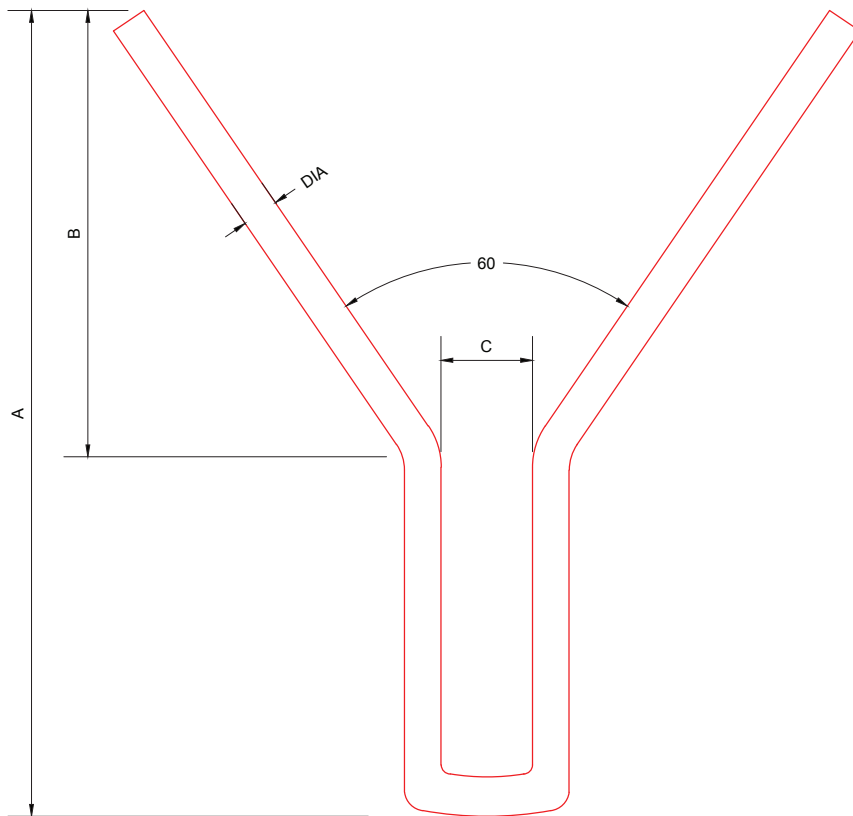
DATE	REVISION	BY

MATERIAL: STAINLESS STEEL

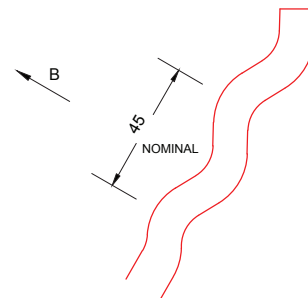
DWG No.  
PF - R007

DATE  
31.3.11  
SIZE  
A4  
REV





**ELEVATION**  
FLAT BASE MANUAL  
WELDING ANCHOR



**VIEW ON B**



**BASE DETAIL**

**OPTIONS:**

STAGGER LEG HEIGHT  
VARY ANGLE USUALLY 60DEG SOMETIMES 90DEG  
VARY CORRUGATION DEPTH/PITCH  
EXTEND OR CONTRACT BASE  
STRAIGHT LEG NO CORRUGATION

NORMALLY B=100 A=110-300

**TYPICAL WIRE SIZES**

A=110-175MM 8MM DIA  
A=150-300MM 10MM DIA



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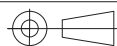
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**TITLE**  
PF YSWF ANCHOR

FILE NAME: PF YSWF ANCHOR - PF - R008.DWG



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B.MITCHELL

**SCALE**  
N.T.S

**PAGE/SHEET**

DATE	REVISION	BY

**MATERIAL:** STAINLESS STEEL

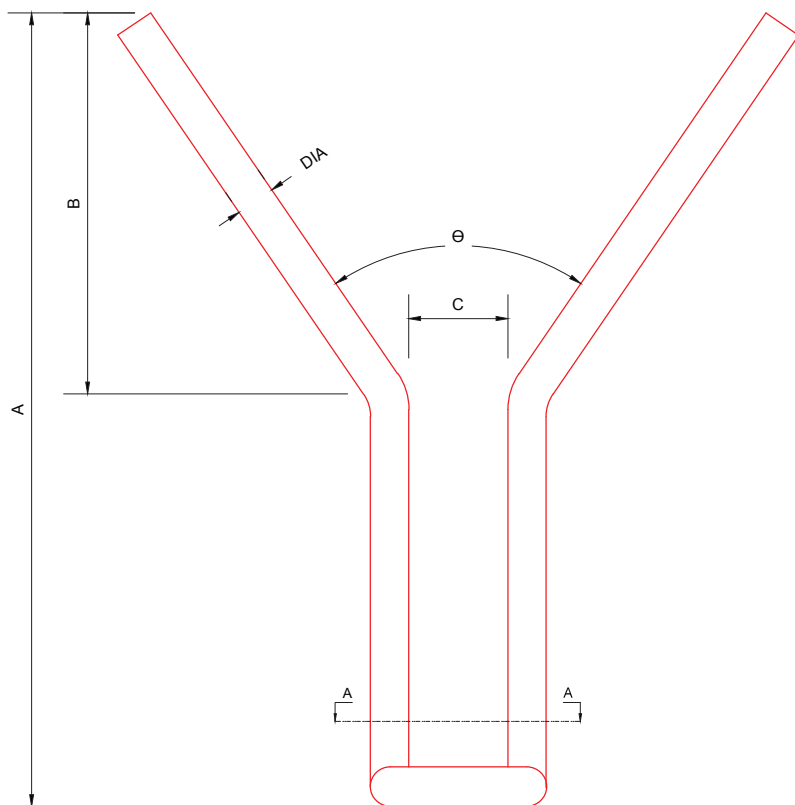
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PF - R008

**DATE**  
5.12.11

**SIZE**  
A4

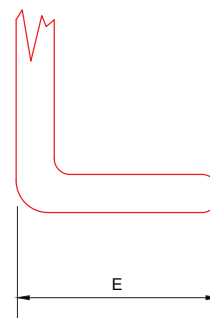
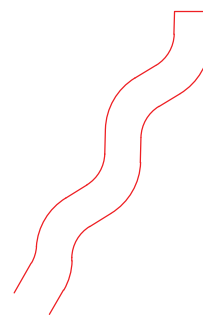
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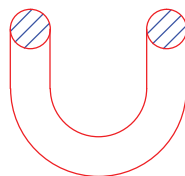


ELEVATION

B



BASE DETAIL

BASE DETAIL  
VIEW ON ALOOP BASE ANCHOR FOR BOLTING  
OR MANUAL WELDING

## OPTIONS

STAGGER LEG HEIGHT  
VARY ANGLE USUALLY 60DEG SOMETIMES 90 DEG  
VARY CORRUGATION DEPTH/PITCH  
EXTEND OR CONTRACT BASE  
STRAIGHT LEG, NO CORRUGATION

NORMALLY  
A = 110 - 300MM  
B = 100MM

TYPICAL WIRE SIZES  
A = 110MM - 175MM 8MM DIA  
A = 150 - 300MM 10MM DIA



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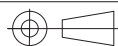
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TITLE  
PF YSWL ANCHOR

FILE NAME: PF YSWL ANCHOR - PF - R009.DWG



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PAGE/SHEET

DATE	REVISION	BY

MATERIAL: STAINLESS STEEL

DWG No.  
PF - R009

SIZE  
A4

REV



VIEW ON C

## A black and white photograph of a single, dark, wavy, and textured object, possibly a piece of wood or a biological specimen, set against a plain white background. The object has a complex, undulating shape with several curves and a rough, uneven surface. It is oriented diagonally from the upper left towards the lower right. The lighting creates highlights on the upper curves and shadows on the lower curves, emphasizing its three-dimensional form and texture.





90°

F= NUMBER  
OF TWISTS  
USUALLY 1.5 OR 2

E

D

C

B

IDEAL ANCHOR FOR MULTI-LAYER  
CASTABLE AND WHERE WELDING WINGS  
OR LEGS ONTO THE STEM IS NOT PREFERRED

A

DIA

ANCHOR IN OPEN POSITION

CAN BE SUPPLIED CLOSED  
COMMON DIAMETER USED IS 7.5 TO 8MM  
MINIMUM HEIGHT FOR C=100MM  
WITH EXISTING TOOLING

#### OPTIONS:

LEG HEIGHT CAN BE STAGGERED  
NO CORRUGATION IN LEGS  
LOOP BASE FOR BOLTING APPLICATIONS



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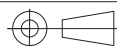
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TITLE  
PF TWIST ANCHOR

FILE NAME: PF TWIST ANCHOR - PF - R011.DWG



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D.BRAMLEY

SCALE  
N.T.S

PAGE/SHEET

MATERIAL: STAINLESS STEEL

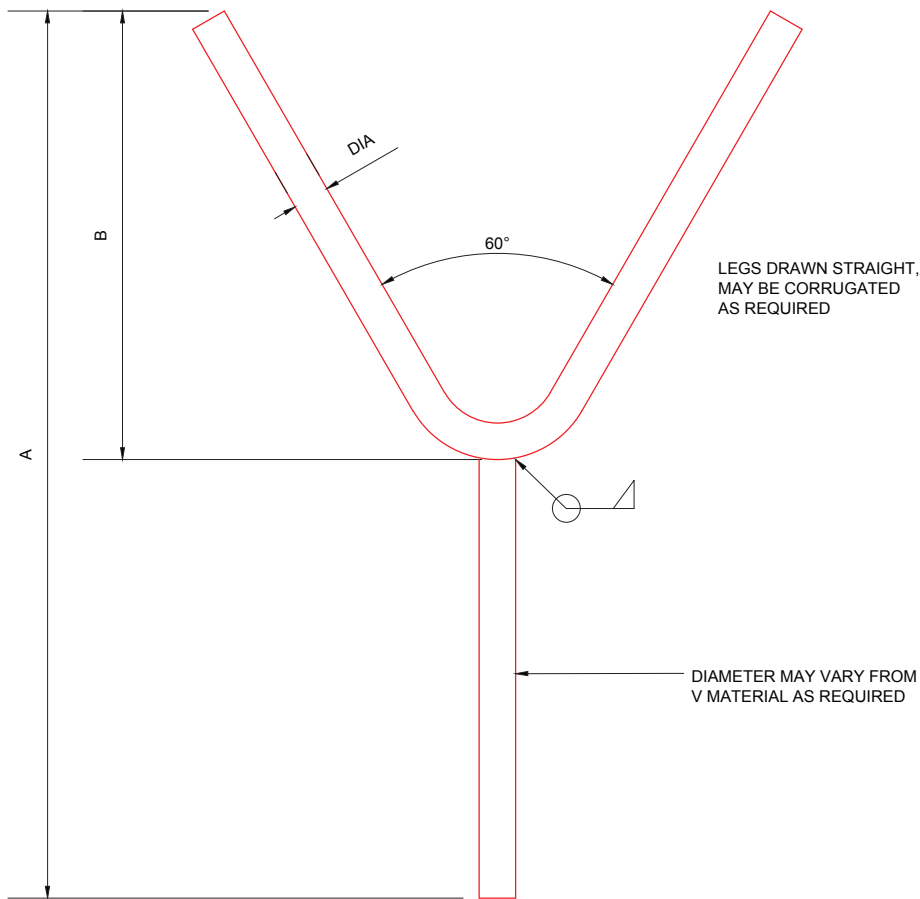
DWG No.  
PF - R011

DATE  
31.3.11

SIZE  
A4

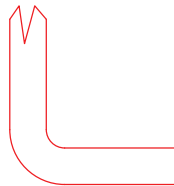
REV





ELEVATION

ELEVATION

L BASE SOMETIMES PREFERRED  
FOR HIGHER STRENGTH WELD  
ATTACHMENT

## OPTIONS:

STAGGER LEG HEIGHT  
VARY ANGLE USUALLY 60DEG SOMETIMES 90DEG  
VARY CORRUGATION DEPTH/PITCH  
EXTEND OR CONTRACT BASE  
STRAIGHT LEG NO CORRUGATION

## COMMON WIRE SIZES CHOSEN

A=75-200MM DIA= 8MM  
A=150-300MM DIA= 10MM



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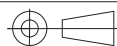
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TITLE  
PF Y ANCHOR

FILE NAME: PF Y ANCHOR - PF - R012.DWG



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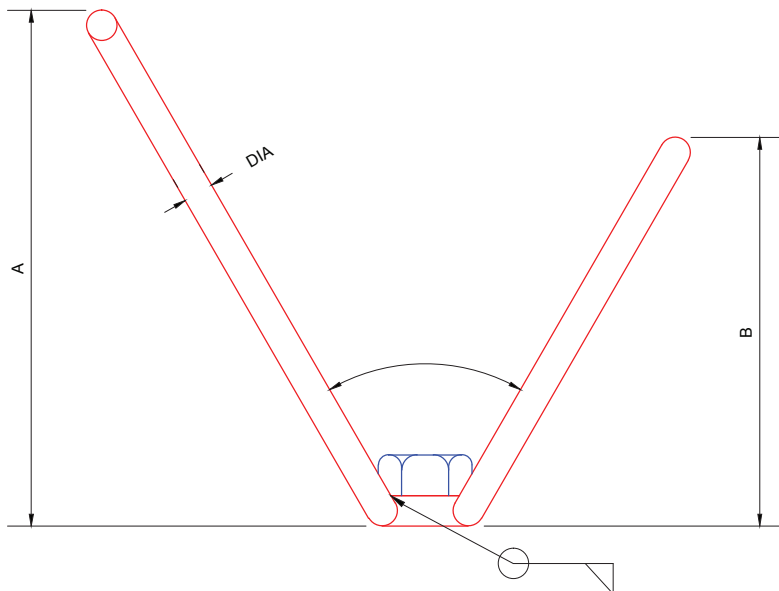
DATE	REVISION	BY

MATERIAL: STAINLESS STEEL

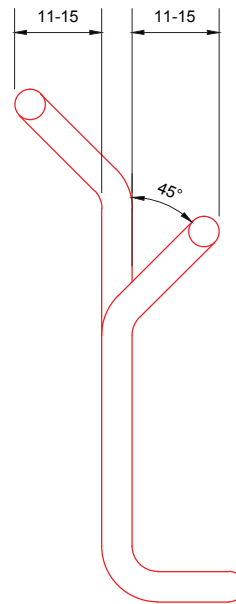
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PF - R012

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31.3.11  
SIZE  
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REV

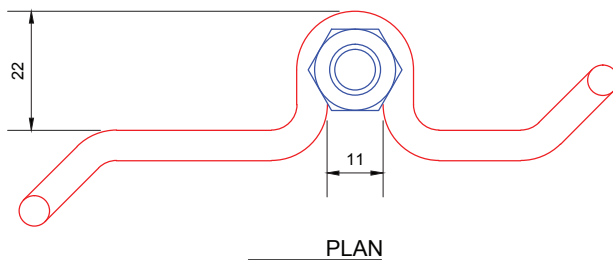




**ELEVATION**  
LOOP BASE ANCHOR  
FOR BOLTING OR WELDING



**ELEVATION**



**PLAN**



#### OPTIONS:

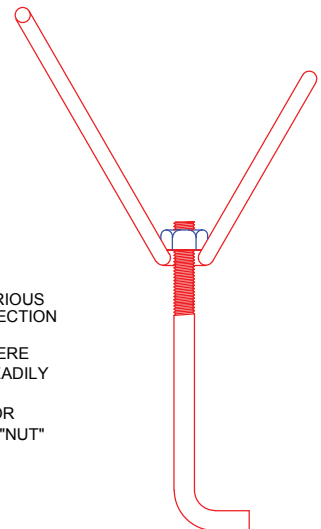
STAGGER LEG HEIGHT  
VARY ANGLE USUALLY 60DEG SOMETIMES 90DEG  
VARY CORRUGATION DEPTH/PITCH  
EXTEND OR CONTRACT BASE  
STRAIGHT LEG NO CORRUGATION

#### COMMON WIRE SIZES CHOSEN:

A=15-40MM DIA= 3-5MM  
A=15-100MM DIA= 6MM  
A=75-200MM DIA= 8MM  
A=150-300MM DIA=10MM

CAN BE COMBINED WITH VARIOUS  
STUD DESIGNS, SEE STUD SECTION

IN THE CASE OF ALLOYS WHERE  
HEXAGON NUTS ARE NOT READILY  
AVAILABLE E.G. 310, 253MA,  
INCONEL, INCOLOY ROUND OR  
SQUARE DRILLED & TAPPED "NUT"  
MAY BE SUBSTITUTED



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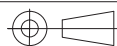
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TITLE  
PF - WB HEXNUT ANCHOR

FILE NAME: PF - WB HEXNUT ANCHOR - PF - R013.DWG



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PAGE/SHEET

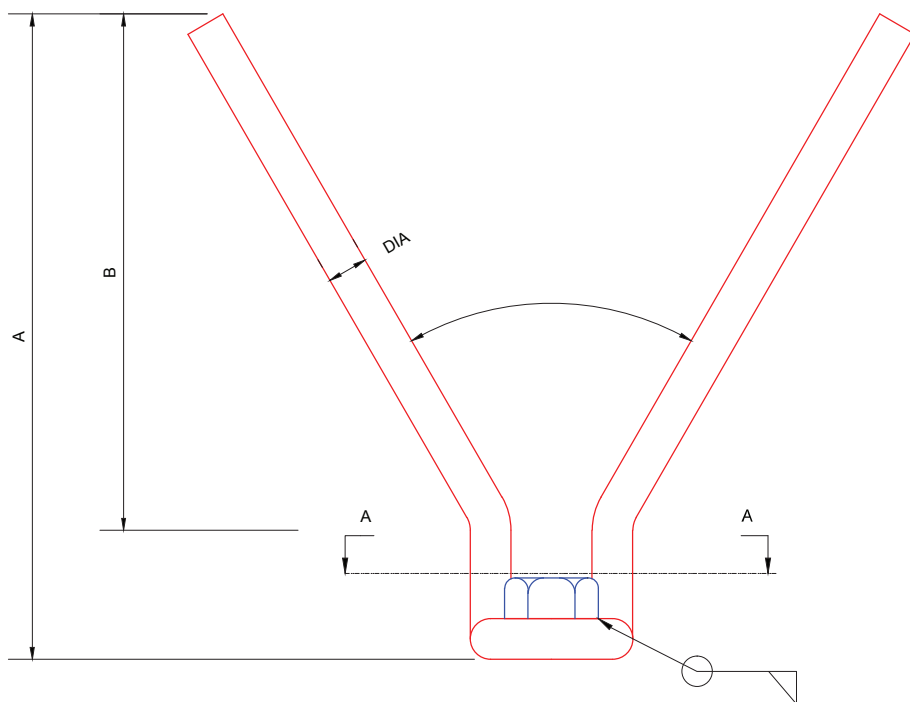
DATE	REVISION	BY

MATERIAL: STAINLESS STEEL

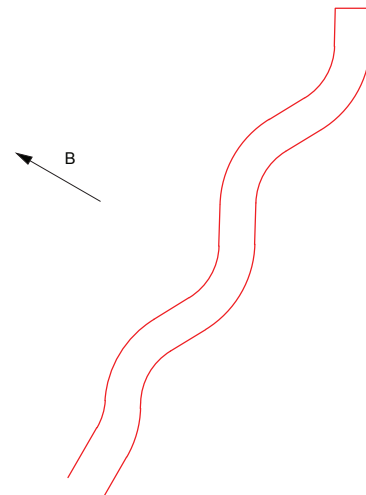
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PF - R013

DATE  
31.3.11  
SIZE  
A4  
REV

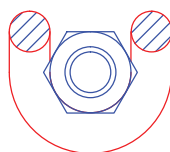
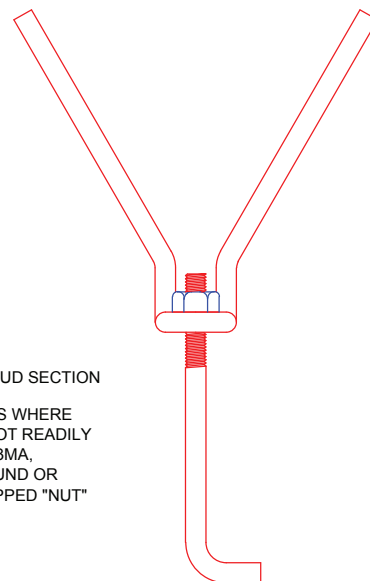




ELEVATION



VIEW ON B

BASE DETAIL  
VIEW ON A

## OPTIONS:

STAGGER LEG HEIGHT  
VARY ANGLE USUALLY 60DEG SOMETIMES 90DEG  
VARY CORRUGATION DEPTH/PITCH  
EXTEND OR CONTRACT BASE  
STRAIGHT LEG NO CORRUGATION

## COMMON WIRE SIZES CHOSEN:

A=15-40MM DIA= 3-5MM  
A=25-100MM DIA= 6MM  
A=75-200MM DIA= 8MM  
A=150-300MM DIA=10MM

## STUD DESIGNS, SEE STUD SECTION

IN THE CASE OF ALLOYS WHERE  
HEXAGON NUTS ARE NOT READILY  
AVAILABLE E.G. 310, 253MA,  
INCONEL, INCOLOY ROUND OR  
SQUARE DRILLED & TAPPED "NUT"  
MAY BE SUBSTITUTED



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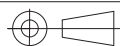
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TITLE  
PF VS - HEXNUT ANCHOR

FILE NAME: PF VS - HEXNUT ANCHOR - PF - R014.DWG



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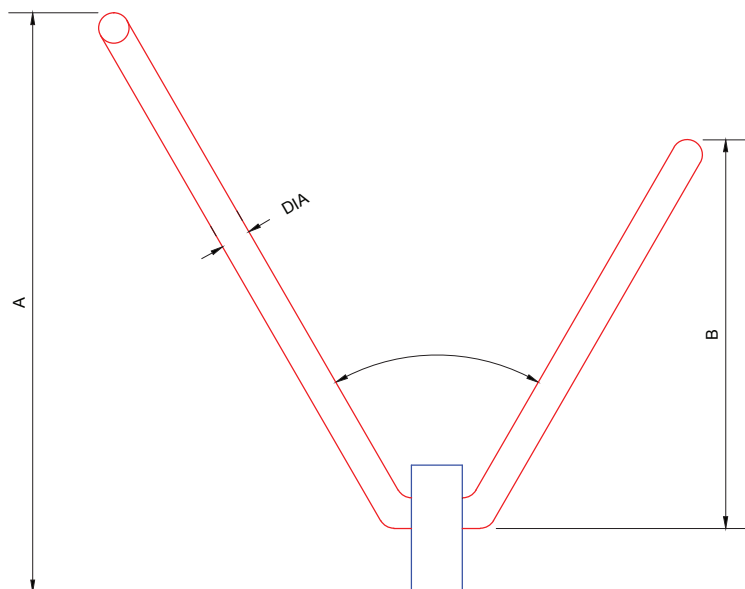
DATE	REVISION	BY

MATERIAL: STAINLESS STEEL

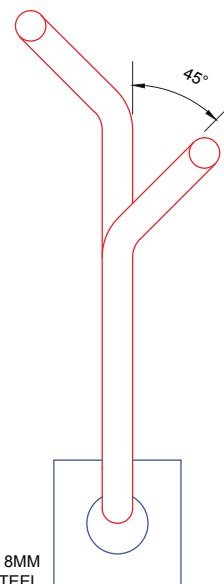
DWG No.  
PF - R014

DATE  
31.3.11  
SIZE  
A4  
REV

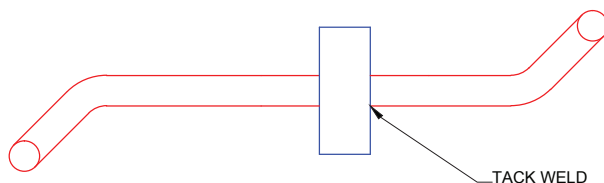




ELEVATION

25MM SQUARE 8MM  
THICK MILD STEEL

ELEVATION



PLAN



## OPTIONS:

STAGGER LEG HEIGHT  
VARY ANGLE USUALLY 60DEG SOMETIMES 90DEG  
VARY CORRUGATION DEPTH/PITCH  
EXTEND OR CONTRACT BASE  
STRAIGHT LEG, NO CORRUGATION

## COMMON WIRE SIZES CHOSEN

A=15-40MM DIA=3-5MM  
A=15-100MM DIA=6MM  
A=75-200MM DIA=8MM  
A=150-300MM DIA=10MM

TYPE	ANCHOR	A
PFWN 22	PFWO 22	63
PFWN 32	PFWO 32	88
PFWN 43	PFWO 43	112
PFWN 54	PFWO 54	138
PFWN 65	PFWO 65	162
PFWN 76	PFWO 76	190
PFWN 87	PFWO 87	215
PFWN 98	PFWO 98	242
PFWN 109	PFWO 109	267



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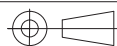
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TITLE  
PF WN ANCHOR

FILE NAME: PF WN ANCHOR - PF - R015.DWG



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DATE	REVISION	BY

MATERIAL: STAINLESS STEEL

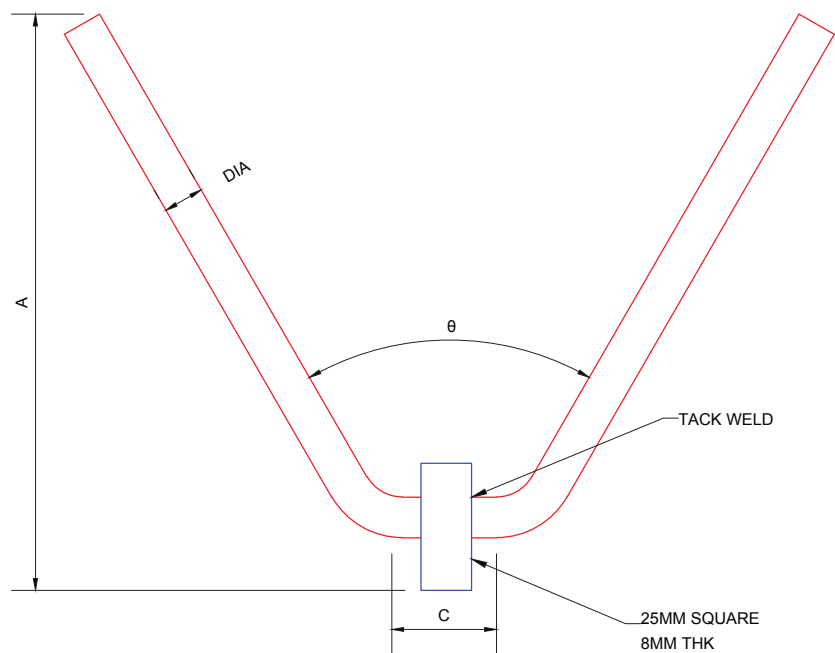
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PF - R015

DATE  
31.3.11  
SIZE  
A4  
REV

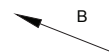


A

B



ELEVATION



VIEW ON B

C



## OPTIONS:

STAGGER LEG HEIGHT  
 VARY ANGLE USUALLY 60DEG SOMETIMES 90DEG  
 VARY CORRUGATION DEPTH/PITCH  
 EXTEND OR CONTRACT BASE  
 STRAIGHT LEG, NO CORRUGATION

## COMMON WIRE SIZES CHOSEN

A=15-40MM DIA=3-5MM  
 A=15-100MM DIA=6MM  
 A=75-200MM DIA=8MM  
 A=150-300MM DIA=10MM

D



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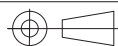
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TITLE  
 PF VWFN ANCHOR

FILE NAME: PF VWFN ANCHOR - PF - R016.DWG



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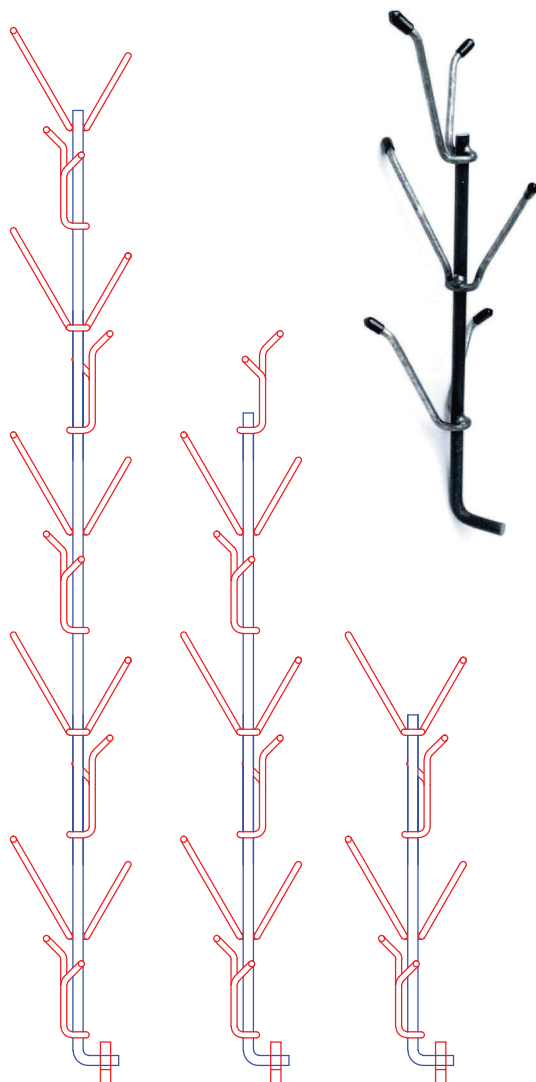
DATE	REVISION	BY

MATERIAL: STAINLESS STEEL

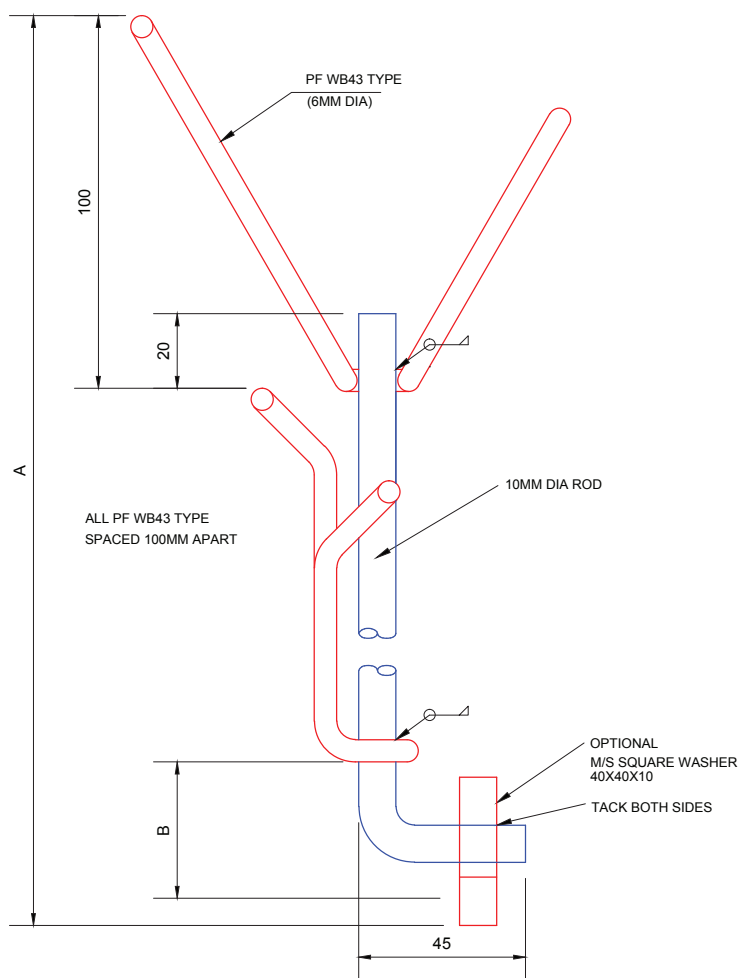
DWG No.  
 PF - R016

DATE  
 31.3.11  
 SIZE  
 N.T.S  
 REV





NOTE: EACH PF WB43 TYPE ANCHOR  
ROTATED 90 DEG ON STEM



COMMONLY KNOWN AS "CHRISTMAS TREE"  
ANCHOR FOR DEEP DAMS

ANC No	A	B	WB-43'S
PF-WNL9	230	30	2
PF-WNL10	250	50	2
PF-WNL11	275	75	2
PF-WNL12	300	100	2
PF-WNL13	330	30	3
PF-WNL14	355	55	3
PF-WNL15	380	80	3
PF-WNL16	400	100	3
PF-WNL17	430	30	4
PF-WNL18	455	55	4
PF-WNL19	480	80	4
PF-WNL20	510	110	4
PF-WNL21	530	130	4

ANC No	A	B	WB43'S
PF-WNL22	560	60	5
PF-WNL23	585	85	5
PF-WNL24	610	110	5
PF-WNL25	635	135	5
PF-WNL26	660	60	6
PF-WNL27	685	85	6
PF-WNL28	710	110	6
PF-WNL29	735	135	6
PF-WNL30	760	60	7
PF-WNL31	785	85	7
PF-WNL32	810	110	7
PF-WNL33	835	135	7

ANC No	A	B	WB43'S
PF-WNL34	860	60	8
PF-WNL35	885	85	8
PF-WNL36	915	115	8
PF-WNL37	940	140	8
PF-WNL38	965	65	9
PF-WNL39	990	90	9
PF-WNL40	1015	115	9
PF-WNL41	1040	140	9
PF-WNL42	1065	65	10
PF-WNL43	1090	90	10
PF-WNL44	1115	115	10
PF-WNL45	1140	140	10



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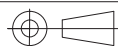
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TITLE  
PF WNL ANCHOR

FILE NAME: PF WNL ANCHOR - PF - R017.DWG



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MATERIAL: STAINLESS STEEL

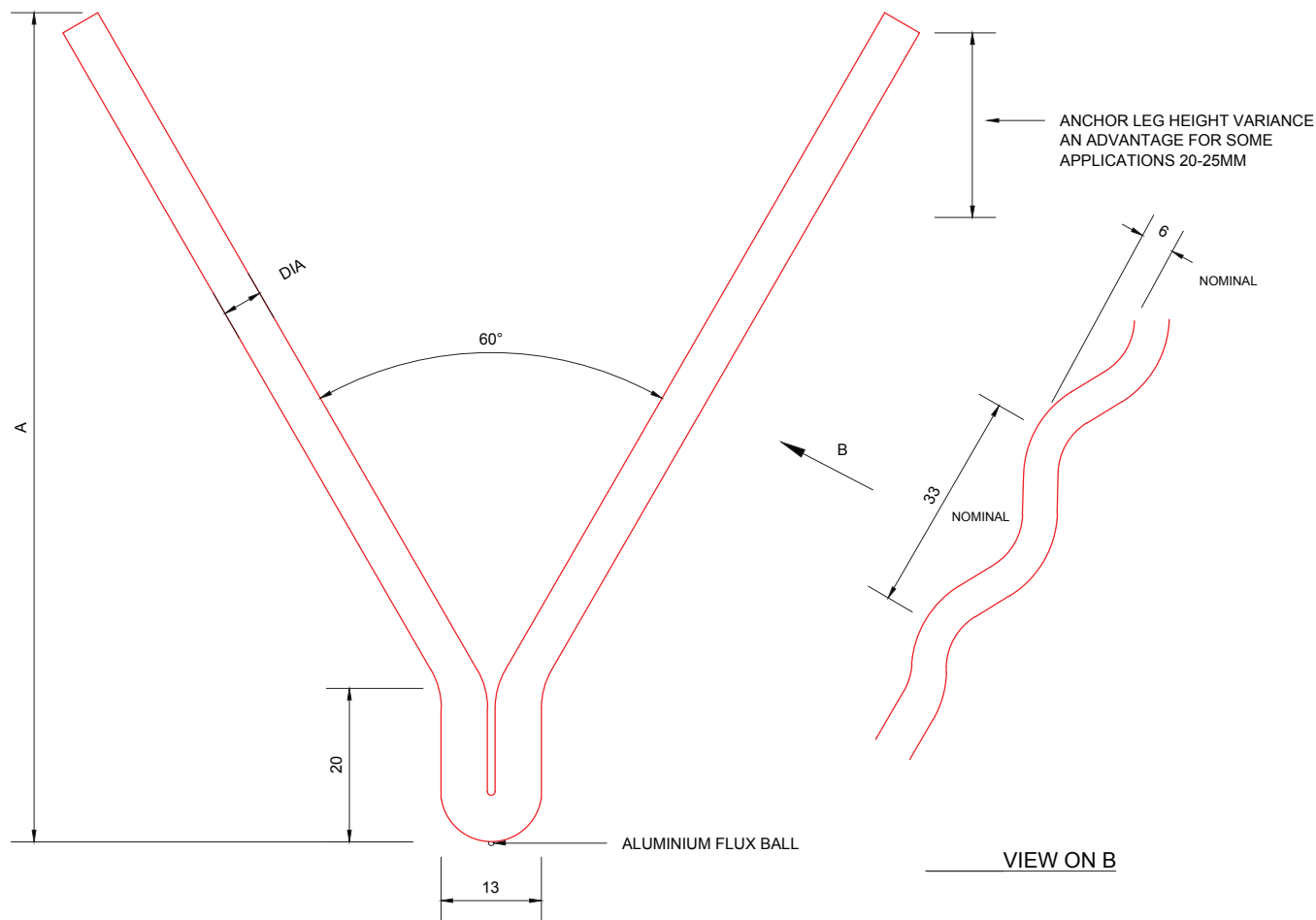
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PF - R017

DATE  
31.3.11

SIZE  
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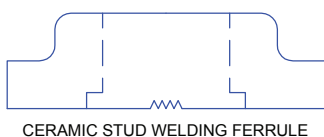
REV





### ELEVATION

N.B: REF FLUX BALL  
SOME ADVISERS INDICATE  
ONLY NECESSARY FOR WIRE  
DIAMETER GREATER THAN 8MM



CERAMIC STUD WELDING FERRULE

### OPTIONS:

STAGGER LEG HEIGHT  
VARY ANGLE USUALLY 60DEG SOMETIMES 90DEG  
VARY CORRUGATION DEPTH/PITCH  
EXTEND OR CONTRACT BASE  
STRAIGHT LEG, NO CORRUGATION

### COMMON WIRE SIZES CHOSEN

A=15-40MM	DIA=3-5MM
A=15-100MM	DIA=6MM
A=75-200MM	DIA=8MM
A=150-300MM	DIA=10MM



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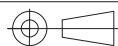
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TITLE  
PF HRC STUD WELD ANCHOR

FILE NAME: PF HRC STUD WELD ANCHOR - PF - R018.DWG



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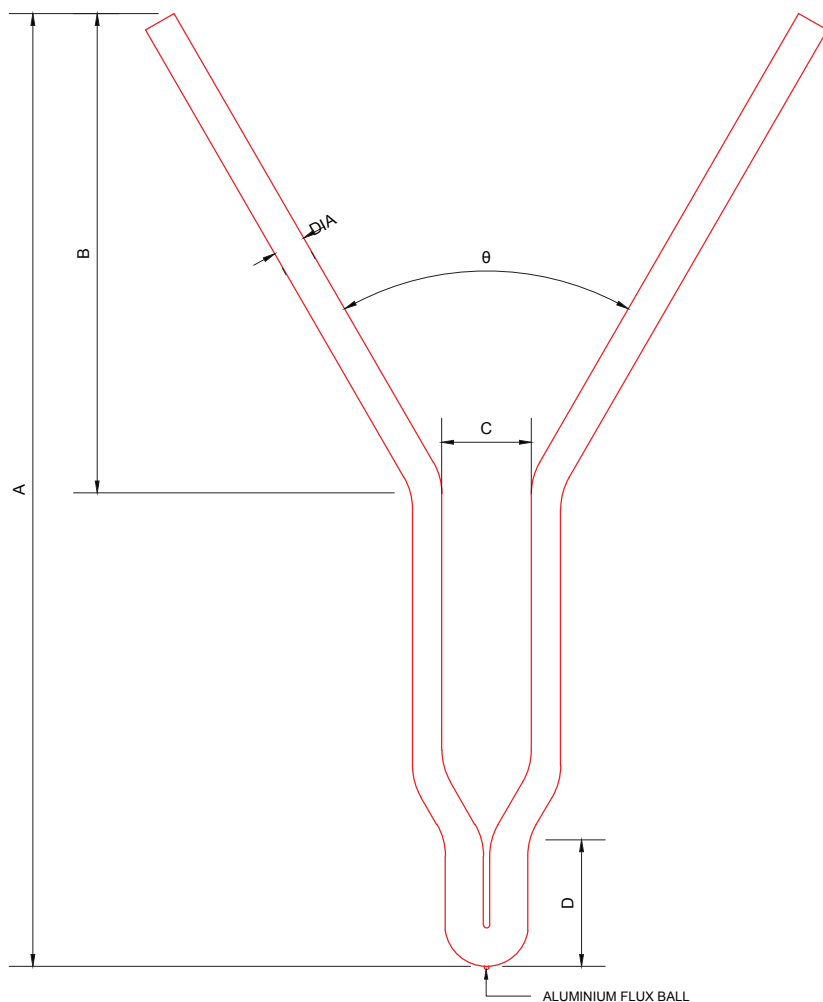
DATE	REVISION	BY

MATERIAL: STAINLESS STEEL

DWG No.  
PF - R018

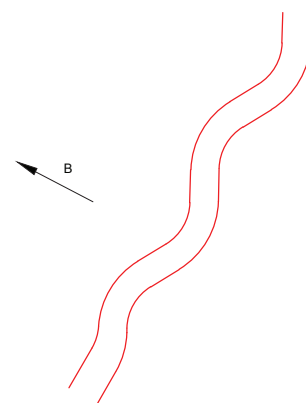
DATE  
31.3.11  
SIZE  
A4  
REV





### ELEVATION

N.B: REF FLUX BALL  
SOME ADVISERS INDICATE  
ONLY NECESSARY FOR WIRE  
DIAMETER GREATER THAN 8MM



VIEW ON B



BASE DETAIL



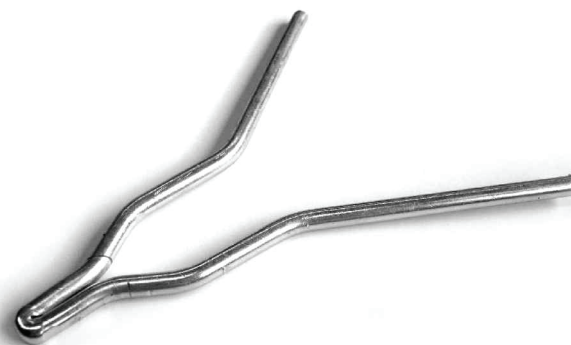
CERAMIC STUD WELDING FERRULE

### OPTIONS:

STAGGER LEG HEIGHT  
VARY ANGLE USUALLY 60DEG SOMETIMES 90DEG  
VARY CORRUGATION DEPTH/PITCH  
EXTEND OR CONTRACT BASE  
STRAIGHT LEG, NO CORRUGATION

### COMMON WIRE SIZES CHOSEN

A=15-40MM DIA=3-5MM  
A=15-100MM DIA=6MM  
A=75-200MM DIA=8MM  
A=150-300MM DIA=10MM



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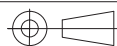
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TITLE  
PF YWS STUD WELD ANCHOR

FILE NAME: PF YWS STUD WELD ANCHOR - PF - R019.DWG



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PAGE/SHEET

DATE	REVISION	BY

MATERIAL: STAINLESS STEEL

DWG No.  
PF - R019

DATE  
30.1.12

SIZE  
A4

REV



x OVERALL LENGTH OF  
MACHINED BLANK = 125mm

A=8.1 TO SUIT 8MM WIRE  
(PF-SWRLB-43-8)

A=10.1 TO SUIT 10MM WIRE  
(PF-SWRLB-43-10)

STUD MANUFACTURE  
AND INSTALLATION TO  
CONFORM TO AS/NZ  
1554.2:2003

AUSTRALIAN STANDARD  
PATENT NO. 2006225331

INSERT ALUMINIUM  
FLUX BALL GRADE 1100 4.75DIA

MATERIAL: AISI C1020  
(FORGED HEAD)



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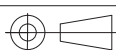
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TITLE  
PF STUD WELDABLE LUG

FILE NAME: LUG 8.7.2008.DWG



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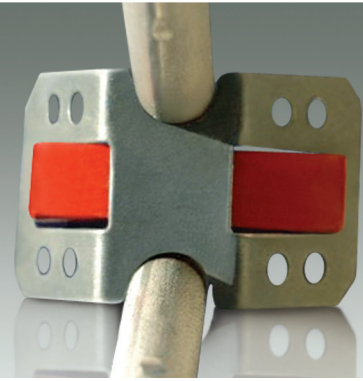
DATE	REVISION	BY
17.09.10	DETAILS OF FLUX BALL ADDED & LENGTH ALTERED	DB
21.09.11	LENGTH ALTERED TO 63MM O/A	DB
4.10.11	BLANK LENGTH NOTATION ADDED	DB
MATERIAL: STEEL		DATE 28.03.11
DWG No. PF - SWRLB - 43 - 8/10 RODLOK LUG		SIZE A4
		REV





# Patented Spring Locking Clip

for the Rod Lok Anchor



## Design Features

The arm of a Rod Lok Anchor is held in place by jamming the interfacing surfaces between the lug slot. The first engagement depresses the metal surfaces slightly; if reengaged more than once, the lock is weakened. The inventive Spring Locking Clip will hold in position a completely loosened anchor.

## Cost

The spring steel clip and serrated lug will cost around \$2.00 to ensure a secure anchor positioning.

Iluka Geraldton, Western Australia have adopted this new solution in areas where anchors lying flat during a shutdown pour became a dangerous and recurring problem.

## Obtain a Quote

Please allow us to assist your future maintenance requirements by quoting new anchors and lugs with our spring locking clips.

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## Fail Safe

Refractory anchor arms are sometimes knocked over after installation just prior to a refractory cement pour. It may be from an errant work boot, something hitting it by mistake or the physical impact of cement being dropped on the arms from a wheelbarrow above.

## NEWS

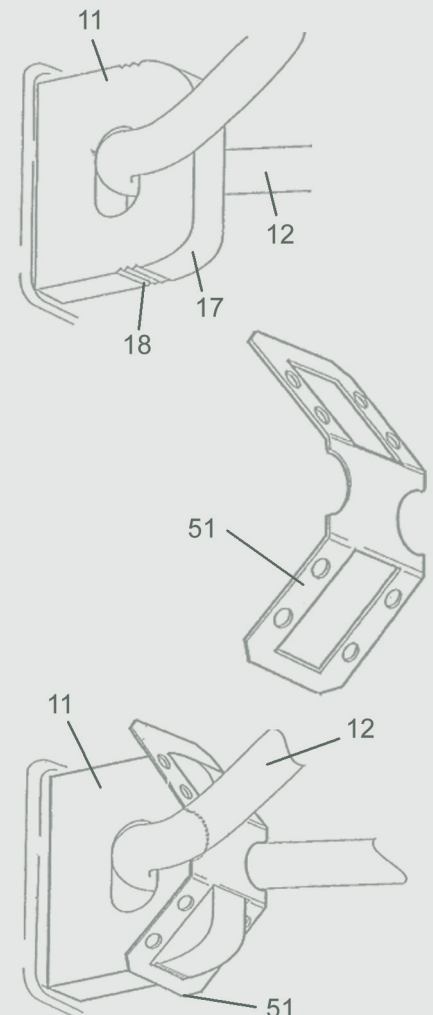
### Stud Weldable Lug NOW AVAILABLE



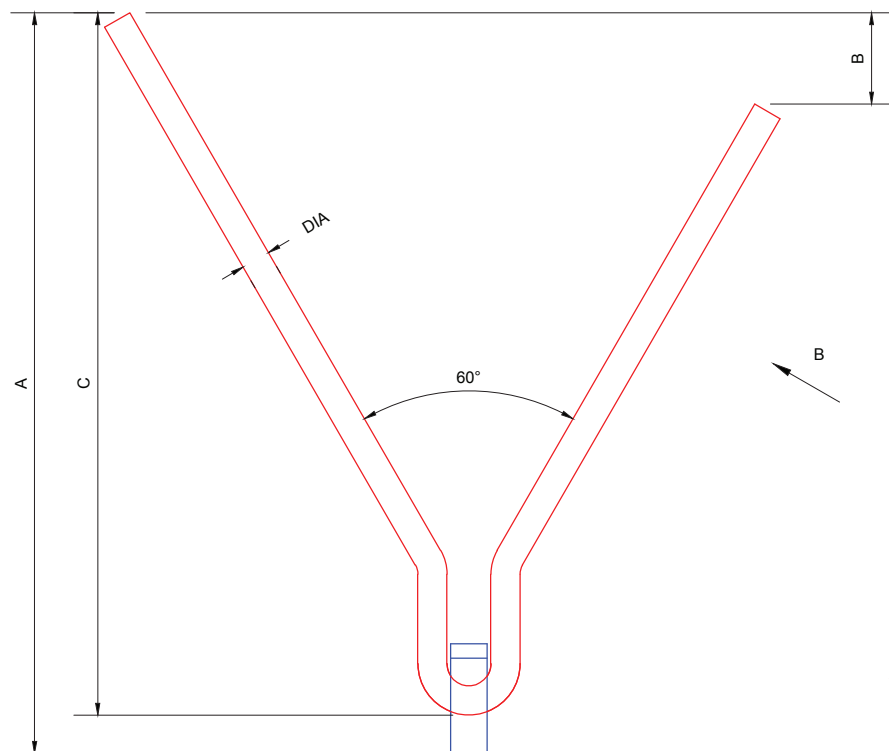
## Patented Spring Locking Clip for the Rod Lok Anchor

The below illustrations show how the arms of a Rod Lok Anchor can be locked in the upright position as a fail safe.

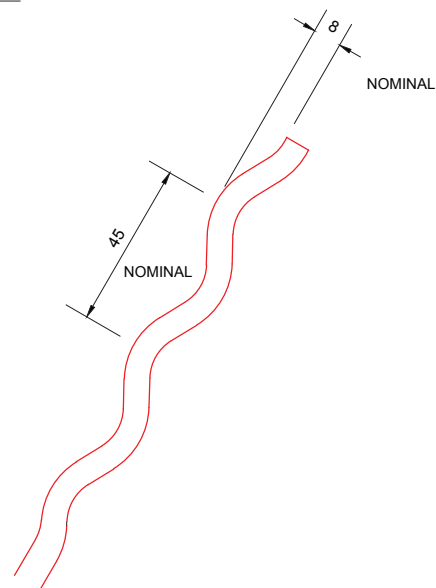
- 11. Steel or stainless slotted base
- 12. 8mm or 10mm diameter wire anchor arm
- 17. Rounded top edge
- 18. Clip engaging slots
- 51. Spring steel locking clip



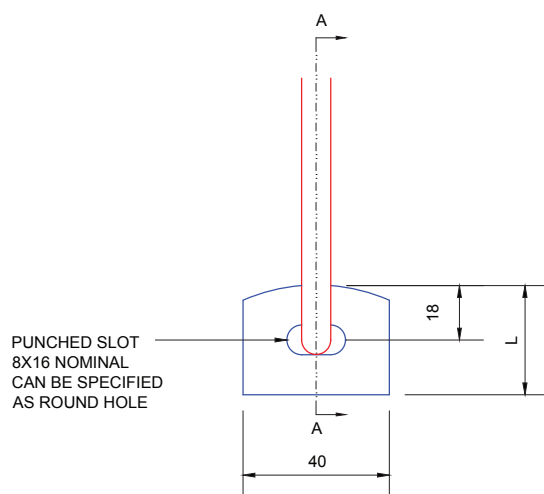




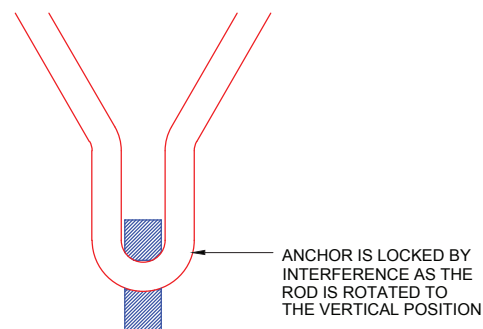
ELEVATION



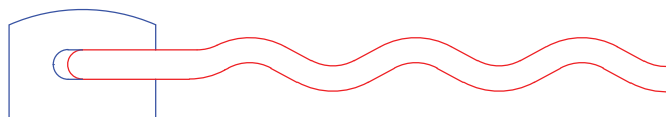
VIEW ON B



LUG LOCKING DETAIL



SECTION A

CONCEPTUAL VIEW ANCHOR AFTER ASSEMBLY IN HORIZONTAL POSITION  
BEFORE LOCKING UPRIGHT FOR CONCRETE POUR

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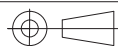
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TITLE  
PF ROD LOK ANCHOR

FILE NAME: PF ROD LOK ANCHOR - PF - R020.DWG



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D.BRAMLEY

SCALE  
N.T.S

PAGE/SHEET

DATE	REVISION	BY

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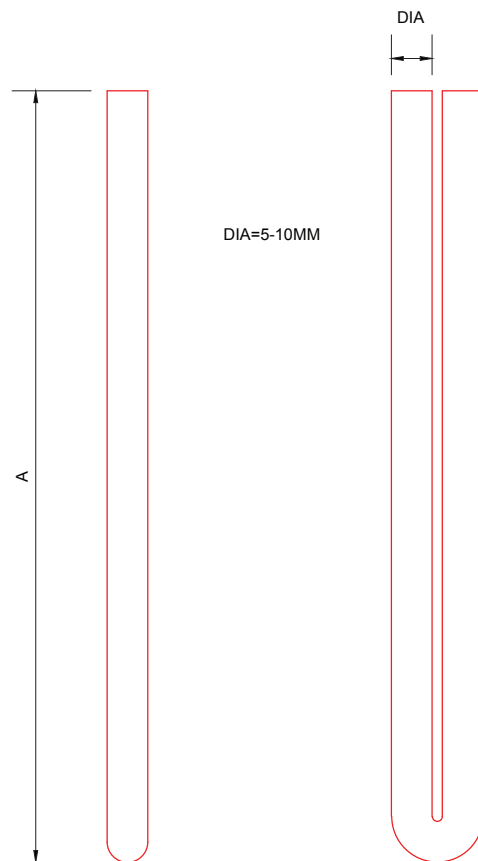
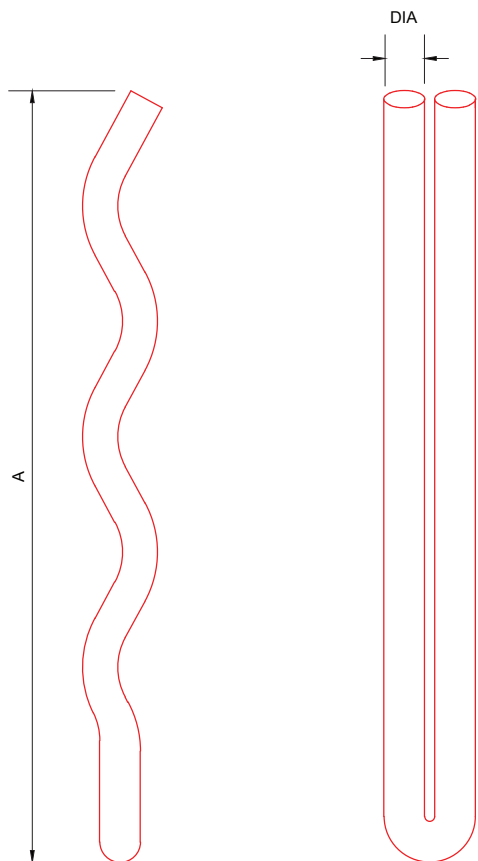
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PF - R020

DATE  
31.3.11  
SIZE  
A4  
REV

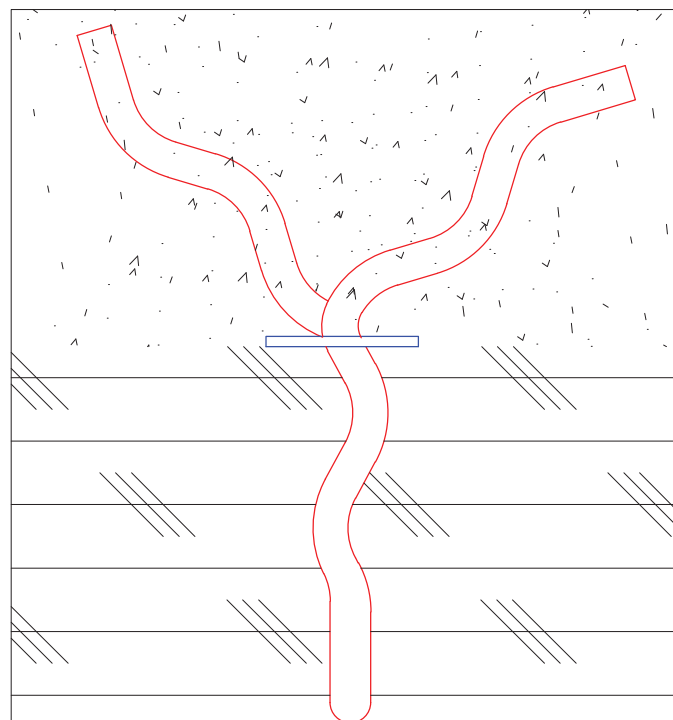
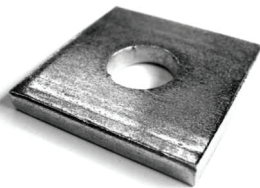
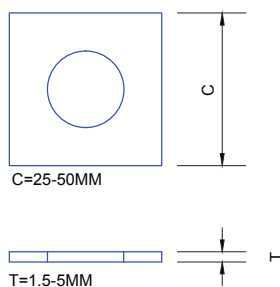


1

2



BASE CAN BE STUD WELDED.  
IN THE CASE OF WIRE DIAMETERS  
ABOVE 6MM A FLUX BALL IS REQUIRED  
AN APPROPRIATE WELDING FERRULE  
IS REQUIRED IN BOTH CASES



LEGS MAY BE OPENED  
OUT AFTER FIRST LAYER



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TITLE  
PF CLOSE PARALLEL LEG

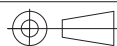
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FILE NAME: PF CLOSE PARALLEL LEG - PF - R021.DWG

MATERIAL: STAINLESS STEEL

DATE  
31.3.11

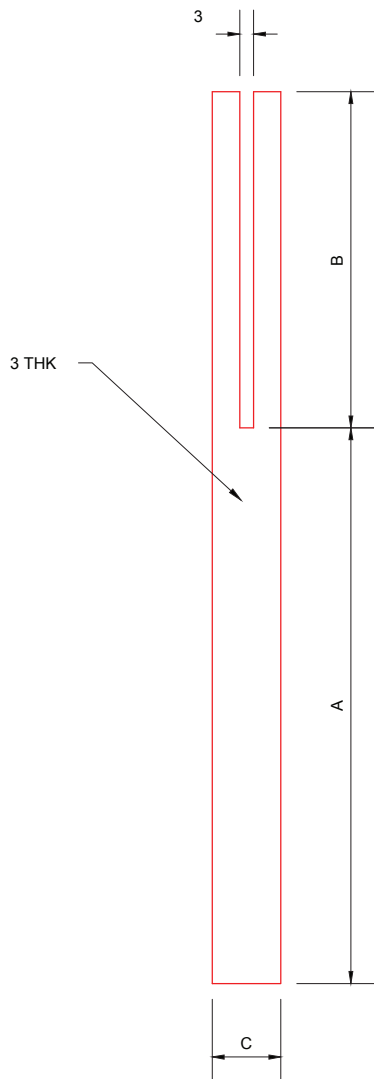


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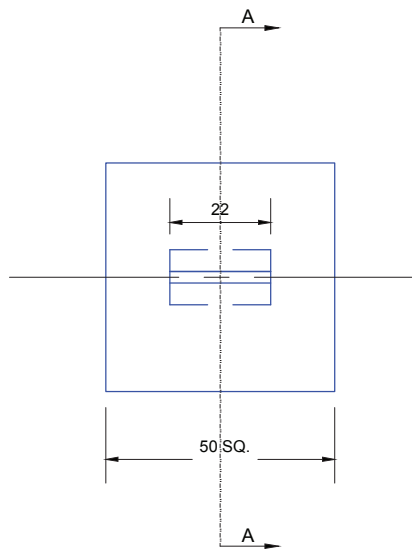
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SIZE  
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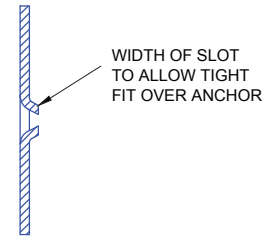




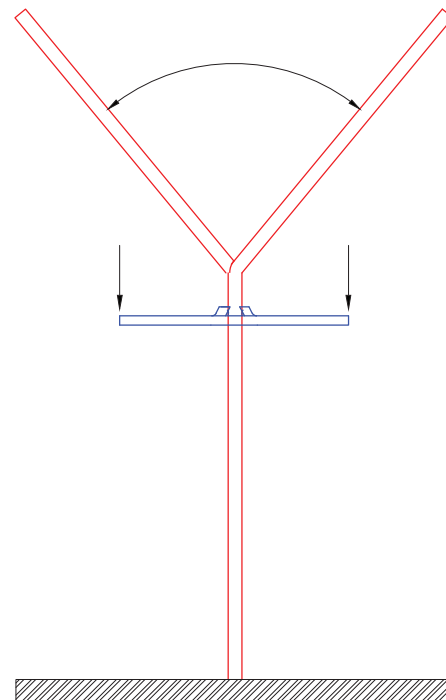
SPLIT FLAT BAR Y-ANCHOR



SPEED WASHER



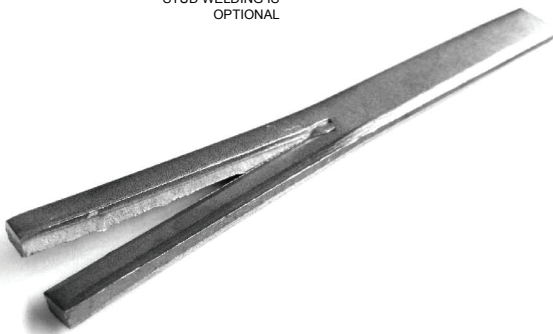
SECTION A



ASSEMBLY DRAWING

SPEED WASHER IS PRESSED OVER THE  
SPLIT ANCHOR TO HOLD REFRACTORY  
IN PLACE. HOLD REFRACTORY IN  
PLACE. UP TO THE DESIRED ANGLE

BASE DETAIL  
CURVED BASE FOR  
STUD WELDING IS  
OPTIONAL



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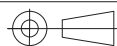
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TITLE  
PF SPLIT FLAT BAR Y-ANCHOR

FILE NAME: PF SPLIT FLAT BAR Y - ANCHOR - PFM-R022.DWG



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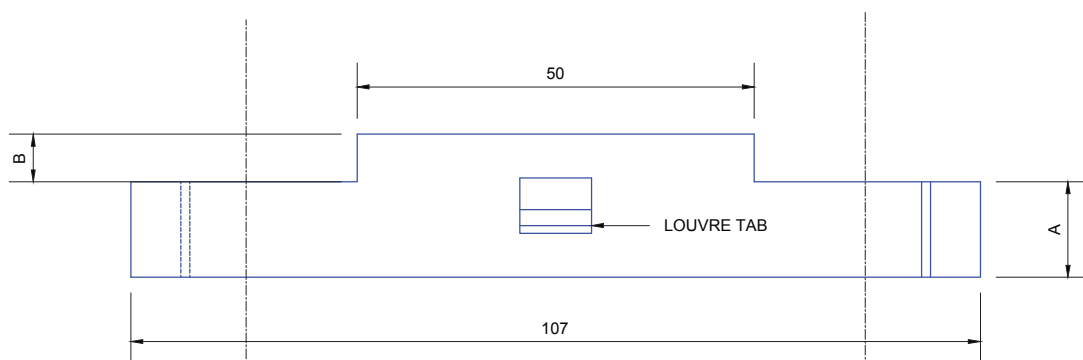
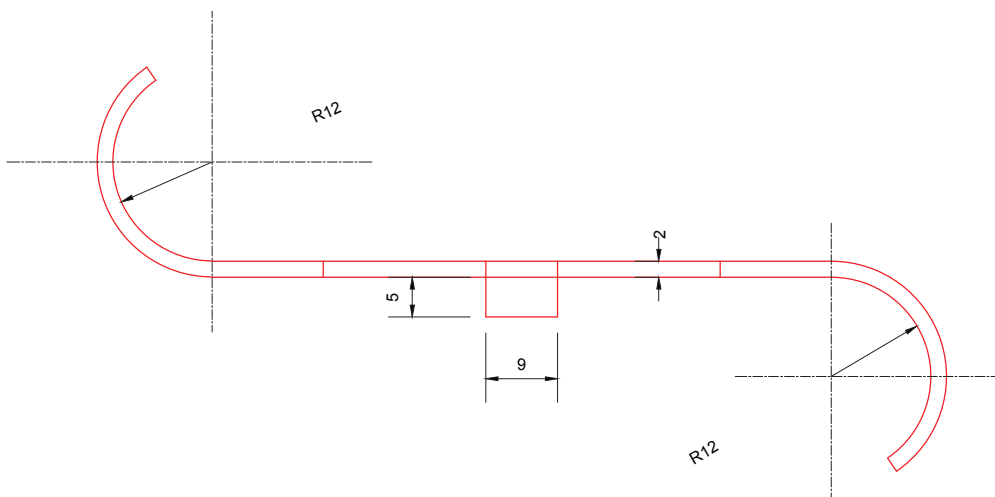
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DWG No.  
PF - R022

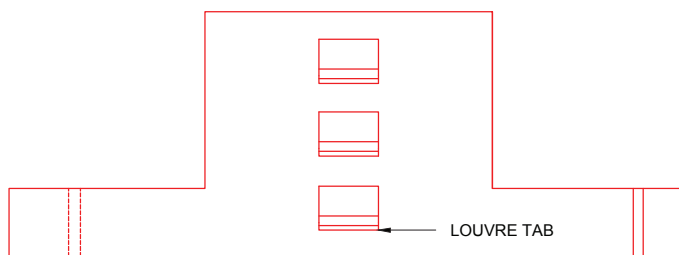
DATE  
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A4  
REV

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"A" CAN VARY SO NUMBER OF LOUVRE TABS  
TO "B" IS ALSO VARIABLE



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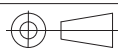
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TITLE  
PF - S-SHAPE ANCHOR

FILE NAME: PF - S SHAPE ANCHOR - PF - R023.DWG



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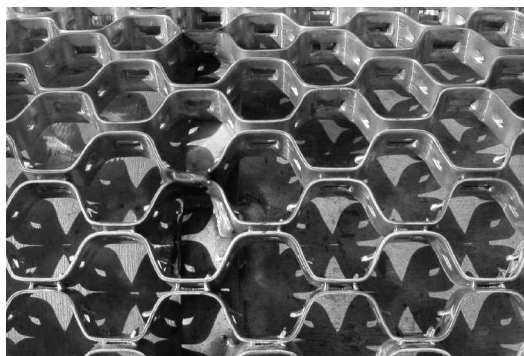
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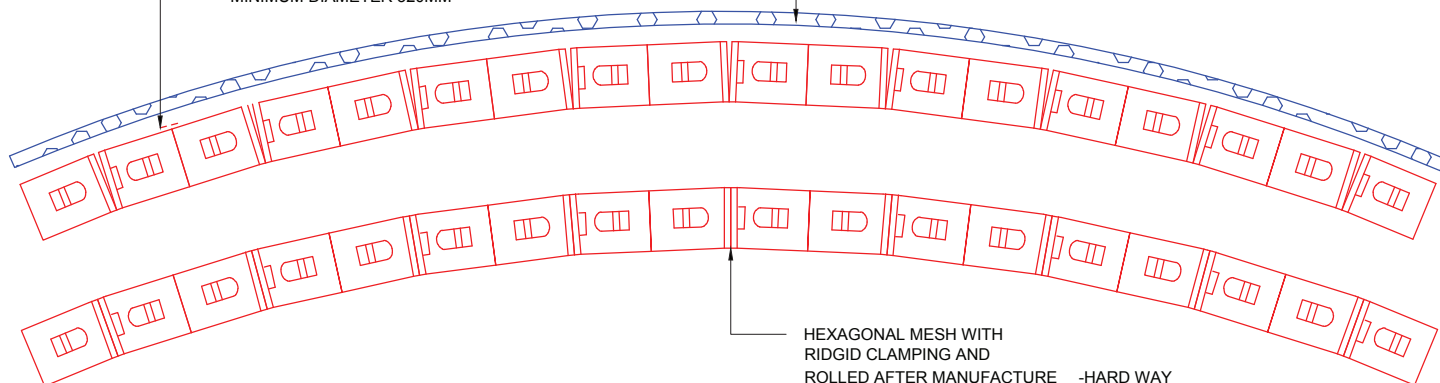
DATE  
31.03.11  
SIZE  
A4  
REV



CLAMPING BACK LEAVES ORIFICE  
FOR REFRACTORY BONDING  
BETWEEN HEXAGONAL CELLS

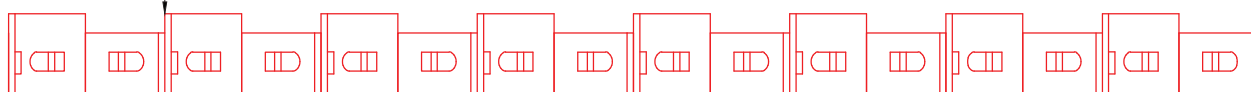


- WELD TO SHELL,  
HEXAGONAL MESH HAS A CONVEX  
SHAPE FOR EASIER INSTALLATION



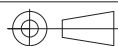
HEXAGONAL MESH WITH  
RIGID CLAMPING AND  
ROLLED AFTER MANUFACTURE -HARD WAY  
PRESENT CLOSED EDGES OF MESH STRIPS  
FOR REFRACTORY INJECTION / TAMPING

OFFSET MESH WIDTH AVAILABLE  
STANDARD RANGE 19-35MM  
WIDER CAN BE PROVIDED WITH EXTRA TOOLING COST



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FILE NAME: PF HEXAGONAL MESH - PF - R024.DWG

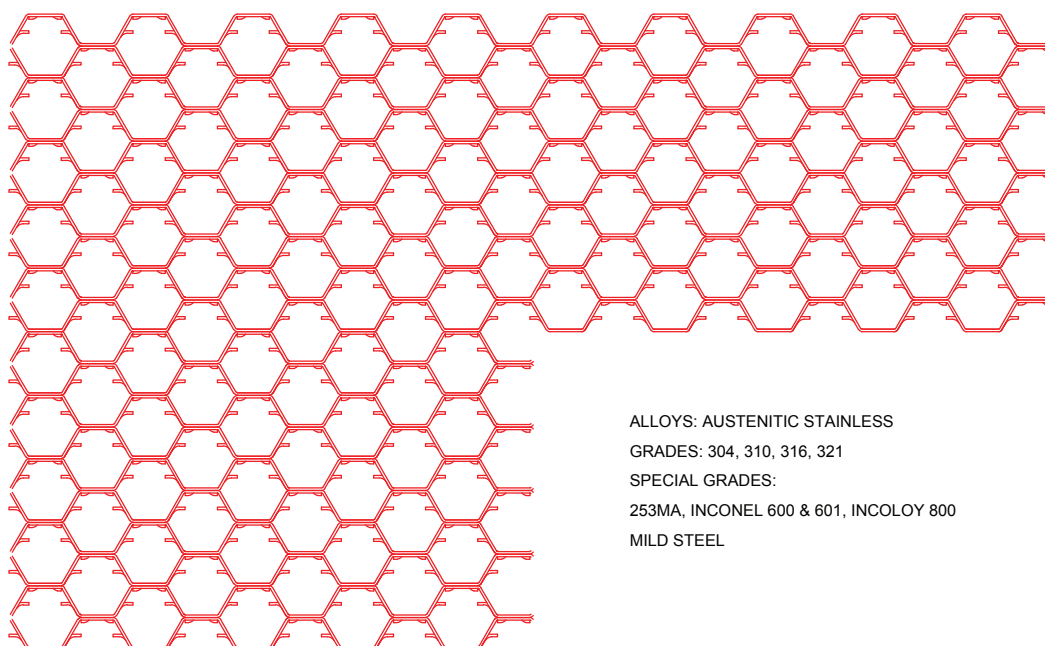


DATE	REVISION	BY
MATERIAL: STAINLESS STEEL		DATE 31.03.11
DWG No. PF - R024		SIZE A4

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BANDIED SIDE

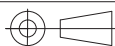


TITLE  
PF HEXAGONAL MESH

DATE	REVISION	BY
MATERIAL: STAINLESS STEEL		DATE 31.3.11
DWG No. PF - R025		SIZE A4
		REV

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FILE NAME: PF HEXAGONAL MESH - PF - R024.DWG



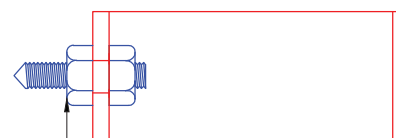
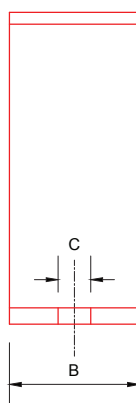
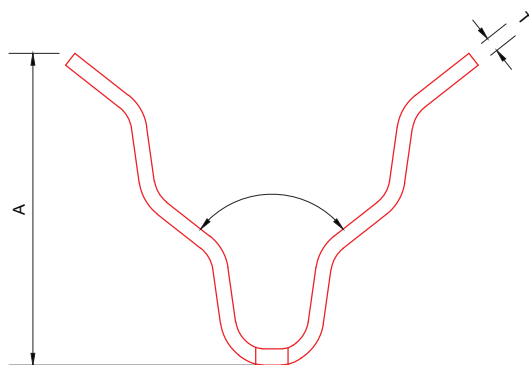
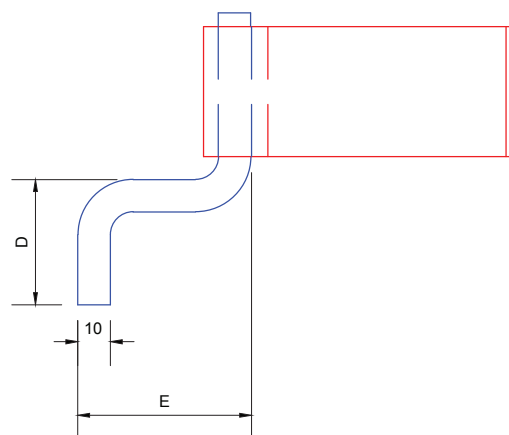
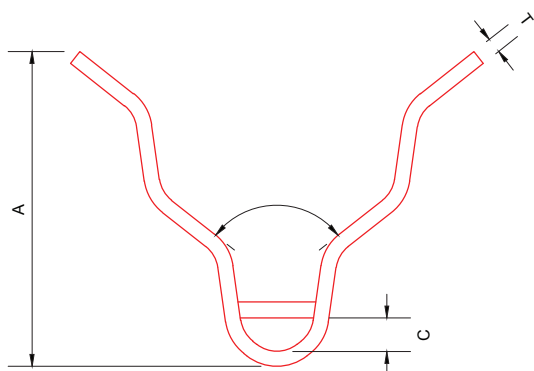
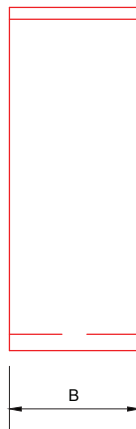
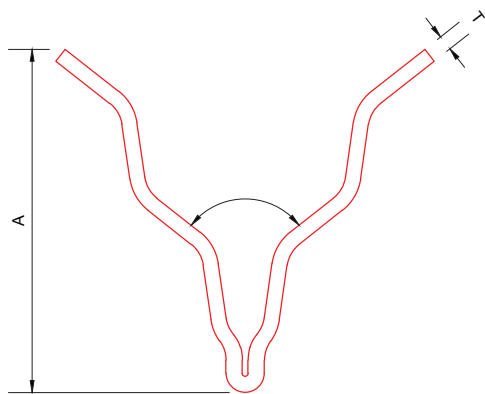
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	MATERIAL: STAINLESS STEEL
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T	DWG No. PF - R025
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DATE 31.3.11	
SIZE A4	REV





M10 X 25 STUD OR BOLT

TYPICAL DIMENSIONS  
B=15-50MM T=4.5-8MM



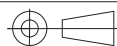
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TITLE  
PF WALL ANCHOR

DATE	REVISION	BY

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FILE NAME: PF WALL ANCHOR - PF - R026.DWG



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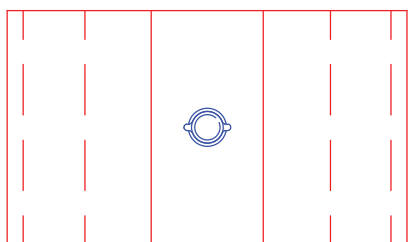
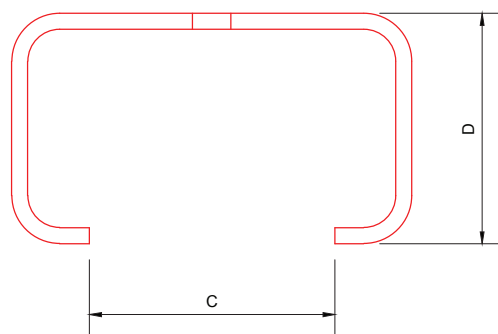
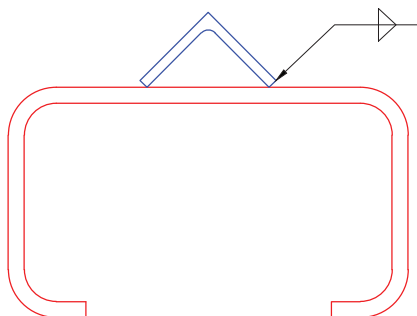
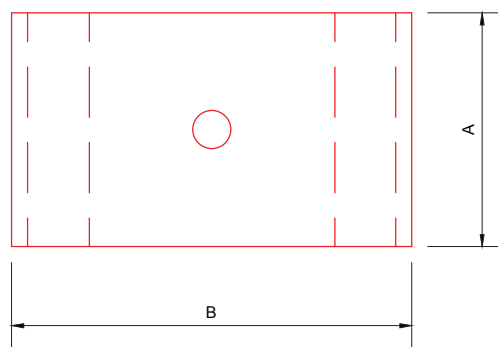
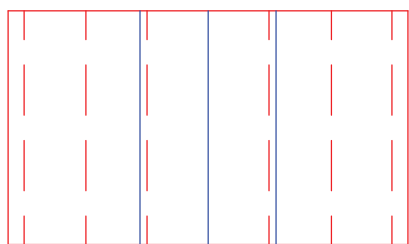
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DATE  
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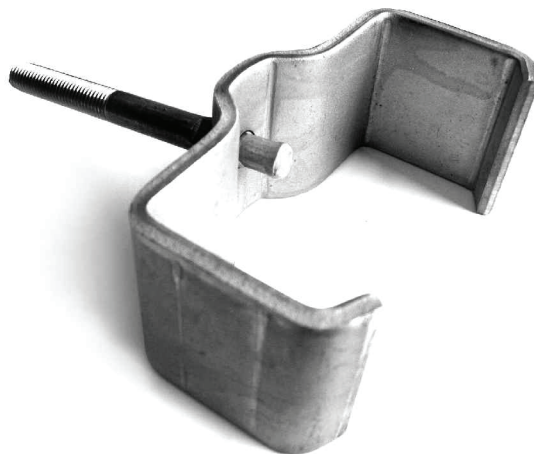
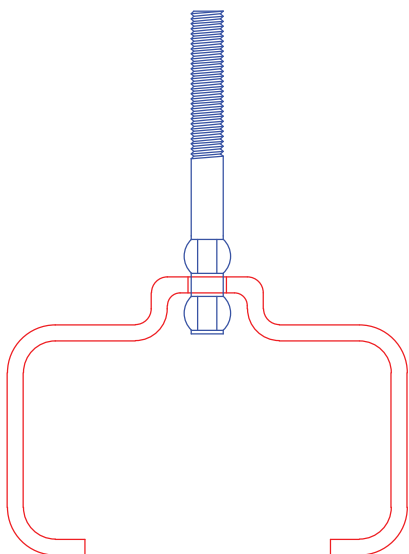
SIZE  
A4

REV





VARIOUS C-CLIP CONFIGURATIONS



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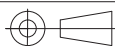
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TITLE  
PF C CLIPS

FILE NAME: PF C CLIPS - PF - R027.DWG



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MATERIAL: STAINLESS STEEL

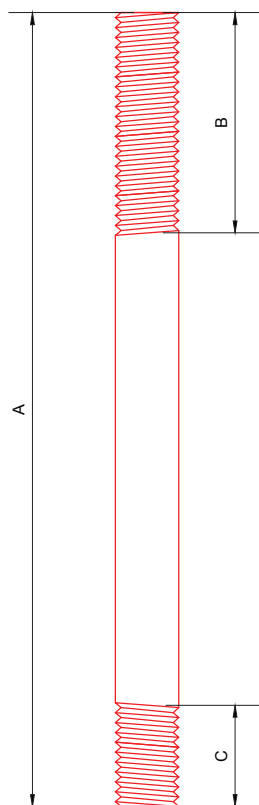
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DATE  
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SIZE  
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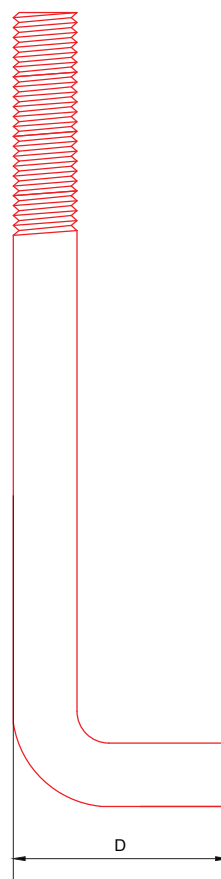




THREADED BOTH ENDS



THREADED ONE END



THREADED ONE END WITH L BASE



KNOCK OFF STUD USED IN APPLICATIONS WHERE STUD LENGTH IS BELOW THE MINIMUM LENGTH FOR STUD WELDING IE LESS THAN 25MM

N.B REF FLUX BALL  
SOME ADVISORS INDICATE ONLY NECESSARY FOR WIRE DIAMETER GREATER THAN 8MM



THREADED ONE END WITH STUD WELDING BASE AND ALUMINIUM FLUX BALL



THREADED ONE END WITH STUD WELDING BASE POINTED END AND ALUMINIUM FLUX BALL



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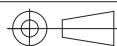
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TITLE  
PF STUDS

FILE NAME: PF STUDS - PF - R028.DWG



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B.MITCHELL

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PAGE/SHEET

MATERIAL: STAINLESS STEEL

DWG No.  
PF - R028

DATE  
21.12.11  
SIZE  
A4  
REV

DATE	REVISION	BY



T = THREAD TYPE

A

METRIC DIN STANDARD SIZES  
FOR HEX NUTS

	A	B
<b>M5</b>	8	4
<b>M6</b>	10	5
<b>M8</b>	13	6.5
<b>M10</b>	17	8
<b>M12</b>	19	10
<b>M14</b>	22	11
<b>M16</b>	24	13

B

HEXAGON NUTS

T = THREAD TYPE

A

B

ROUND WASHER NUT

SQUARE WASHER NUT

ROUND NUT

SQUARE NUT

B

A

LONG SERIES HEXNUT/FERRULE  
CAN ALSO BE MANUFACTURED AS ROUND OR SQUARE

T = THREAD TYPE



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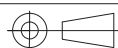
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TITLE  
PF NUTS

FILE NAME: PF NUTS - PF - R029.DWG



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MATERIAL: STAINLESS STEEL

DWG No.  
PF - R029

DATE  
22.2.12

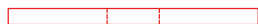
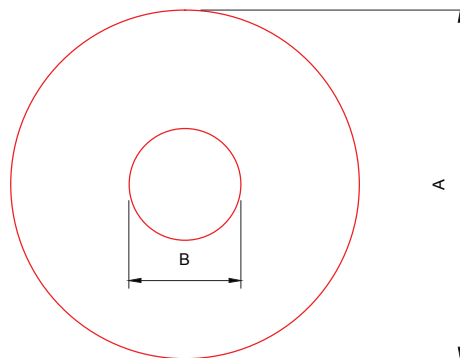
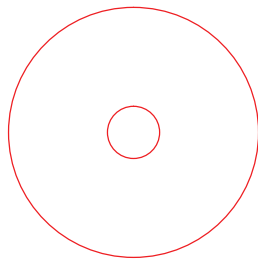
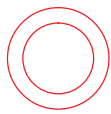
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A4

REV

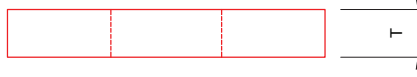
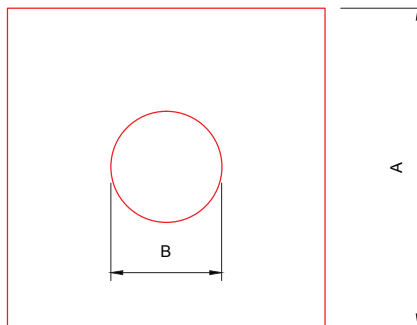
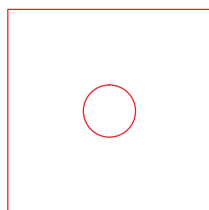


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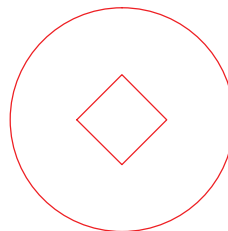
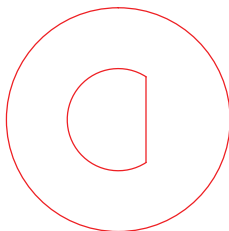
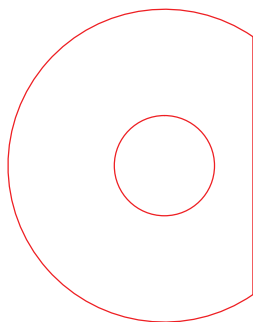
2



ROUND WASHERS



SQUARE WASHERS



NON STANDARD WASHERS

COMMON MATERIALS:  
 CARBON STEEL  
 QUENCHED AND TEMPERED  
 GALVABOND  
 ZINC PLATED  
 GALVANISED  
 STAINLESS  
 COPPER  
 ALUMINIUM  
 BRASS

OPTIONAL RUMBLING



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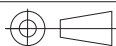
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TITLE  
 PF WASHERS

FILE NAME: PF WASHERS - PF - R030.DWG



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 B.MITCHELL

SCALE  
 N.T.S.

PAGE/SHEET

DATE	REVISION	BY

MATERIAL: STAINLESS STEEL

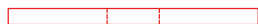
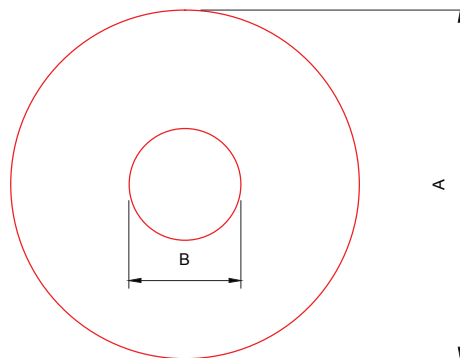
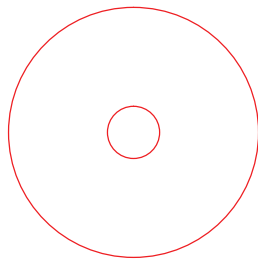
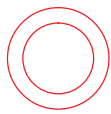
DWG No.  
 PF - R030

DATE  
 22.2.12  
 SIZE  
 A4  
 REV

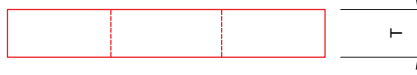
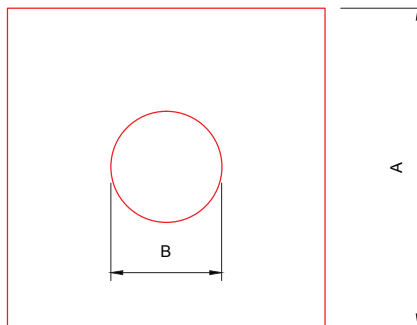
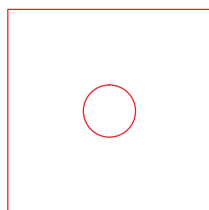


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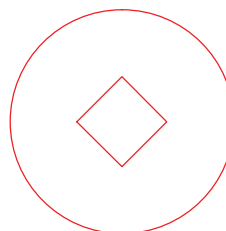
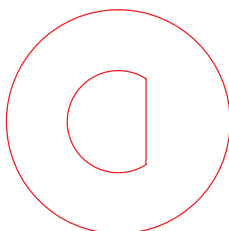
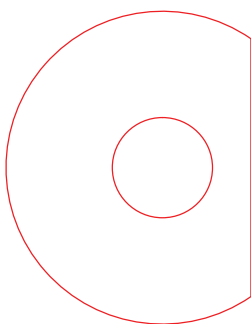
2



ROUND WASHERS



SQUARE WASHERS



NON STANDARD WASHERS

COMMON MATERIALS:  
 CARBON STEEL  
 QUENCHED AND TEMPERED  
 GALVABOND  
 ZINC PLATED  
 GALVANISED  
 STAINLESS  
 COPPER  
 ALUMINIUM  
 BRASS

OPTIONAL RUMBLING



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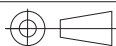
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TITLE  
 PF WASHERS

FILE NAME: PF WASHERS - PF - R030.DWG



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PAGE/SHEET

DATE	REVISION	BY

MATERIAL: STAINLESS STEEL

DWG No.  
 PF - R030

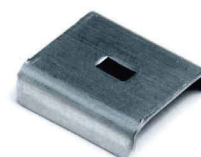
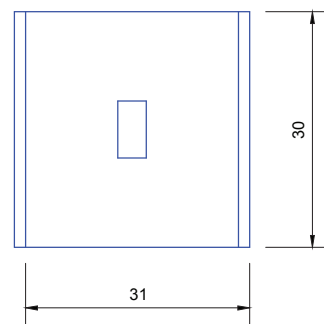
DATE  
 22.2.12  
 SIZE  
 A4  
 REV



Technical drawing of a circular object, likely a cross-section of a pipe or a similar component. The drawing shows a central cross-shaped hole with four rounded ends. The outer boundary is a circle. A dimension line at the bottom indicates a diameter of 34.



PRESSED LOCK WASHER



WIRE 5MM DIA.

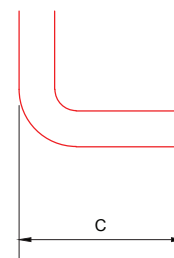
MANUFACTURE

CERAMIC FIBRE BLANKET PIN  
PRESSED FROM FULLY ANNEALED

SOME NICKEL ALLOYS HAVE AN  
"INTERSTAGE ANNEAL" DURING

**NOTE:** IN COMPARISON TO PINS  
PRESSED FROM 6MMX3MM FLAT  
STRIP, PRESS FORM'S FIBRE LOK  
PIN PRESSED FROM 5MM DIAMETER  
WIRE HAS A GREATER CROSS  
SECTIONAL AREA AT THE BASE  
THUS A GREATER RESISTANCE  
TO BENDING

COMMON ALLOYS:  
STAINLESS ALLOYS: 304, 321, 310, 253MA  
NICKEL ALLOYS: INCONEL 601, INCOLOY 800



L-BASE SOMETIMES PREFERRED FOR HIGHER STRENGTH WELD ATTACHMENT

The image contains two technical drawings of test specimens, labeled 'a' and 'b'.

**Specimen a:** A tensile specimen with a central section containing five notches. The overall length is labeled 'A'. The width of the central section is labeled '7MM NOMINAL'. The notches are defined by a series of lines forming a central hole with four side notches.

**Specimen b:** A compact tension specimen. The overall length is labeled 'B 75 MAX'. The width of the central section is labeled '3'. The bottom of the specimen is labeled '5mm dia', indicating a semi-circular hole.



CERAMIC WELDING FERRULE



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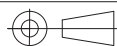
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TITLE  
PF FIBRE LOK ANCHOR

DATE	REVISION	BY

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FILE NAME: PF FIBRE LOK ANCHOR - PF - R031.DWG



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-----------------------

SCALE  
N.T.S

PAGE/SHEET

	MATERIAL: STAINLESS STEEL
--	---------------------------

T	DWG No. PF - R031
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DATE 31.03.11	
SIZE A4	REV

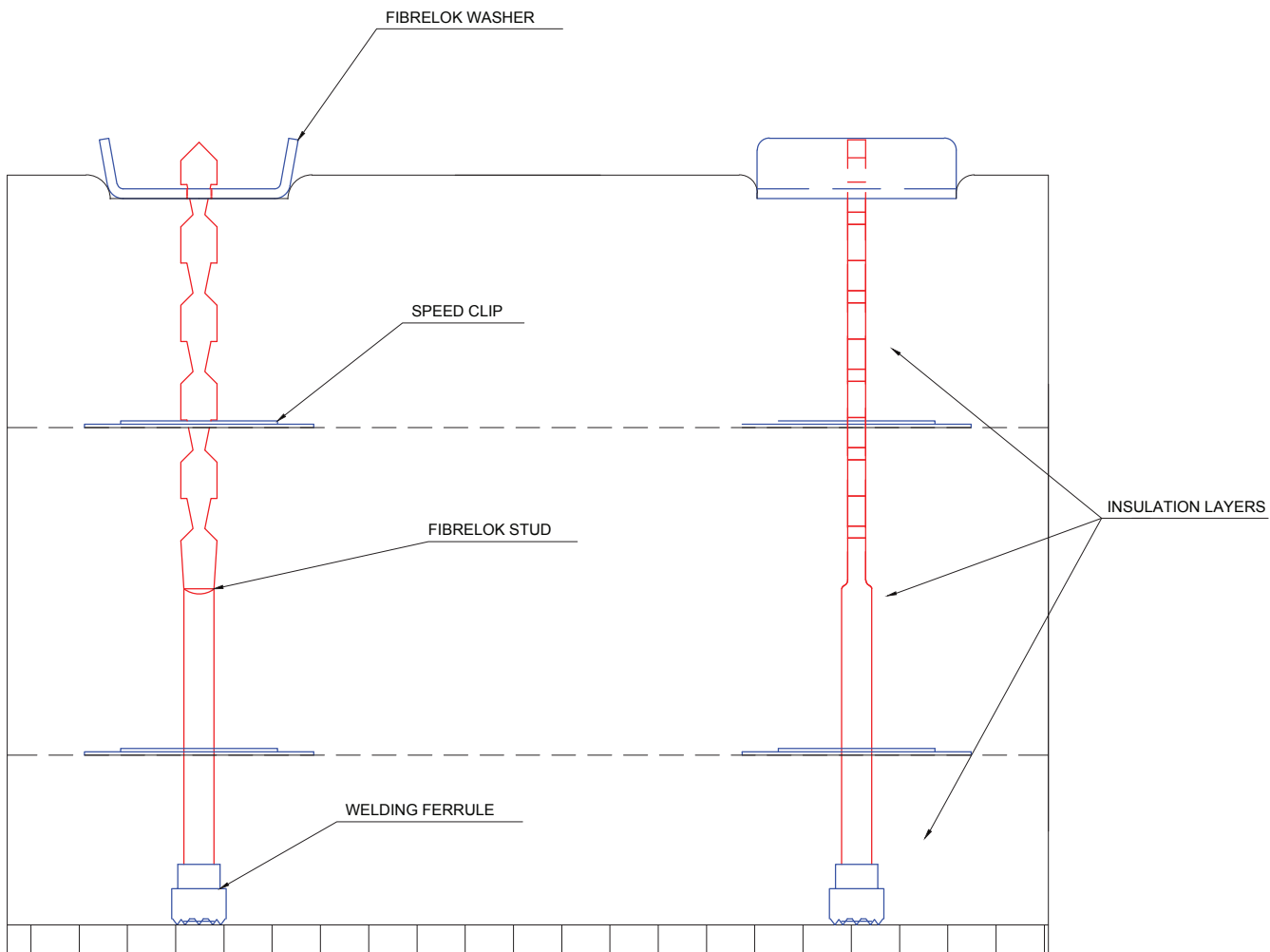


A

B

C

D



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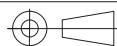
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TITLE  
PF FIBRE LOK ASSEMBLY

FILE NAME: PF FIBRE LOK ASSEMBLY - PF - R032.DWG



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PAGE/SHEET

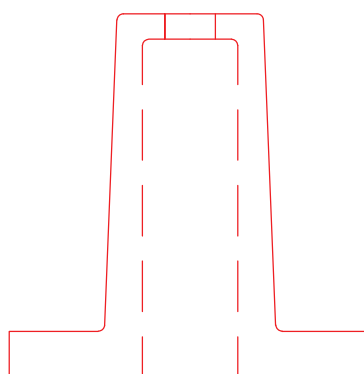
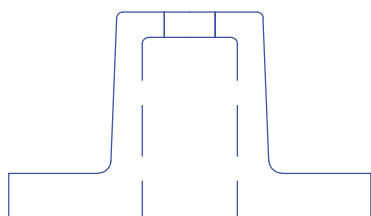
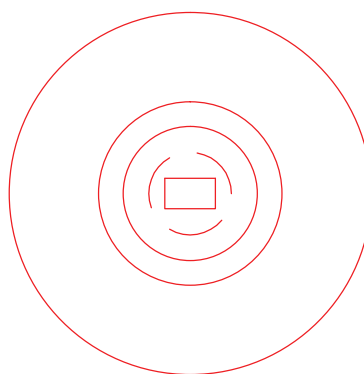
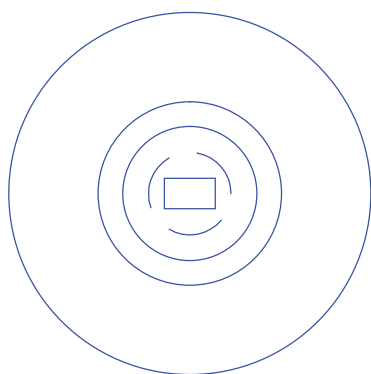
DATE	REVISION	BY

MATERIAL: STAINLESS STEEL

DWG No.  
PF - R032

DATE  
31.3.11  
SIZE  
A4  
REV





CERAMIC CUP LOKS SUITABLE FOR USE WITH  
FIBRELOK ANCHORS  
VARIOUS LENGTHS AVAILABLE



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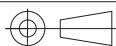
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TITLE  
PF CERAMIC CUP LOKS

FILE NAME: PF CERAMIC CUP LOKS - PF - R033.DWG



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PAGE/SHEET

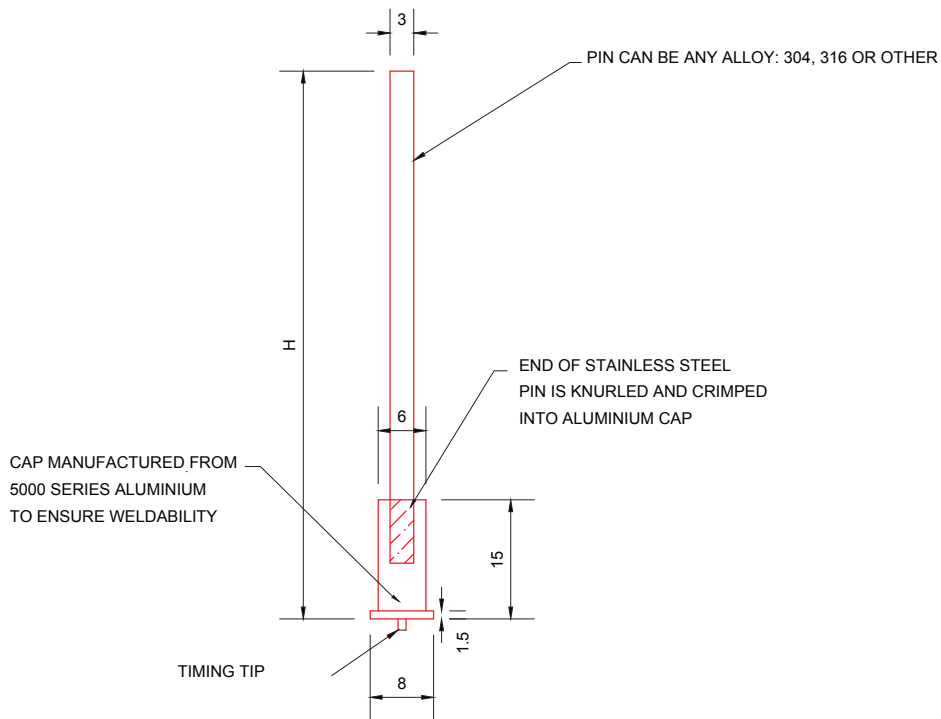
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DWG No.  
PF - R033

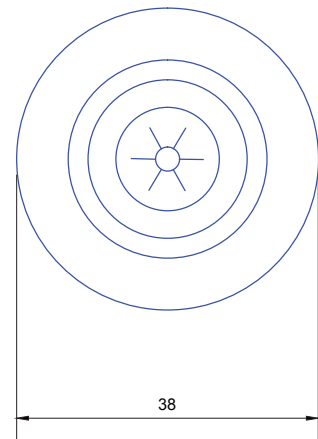
DATE  
31.3.11  
SIZE  
A4  
REV





BI METALLIC ANCHOR

SUITABLE FOR CAPACITOR DISCHARGE WELDING

SPEED CLIP  
SPRING TEMPER STAINLESS  
304 OR 316

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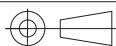
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TITLE  
PF BI-METALLIC PIN

FILE NAME: PF - BI-METALLIC PIN - PF - R034.DWG



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DATE	REVISION	BY

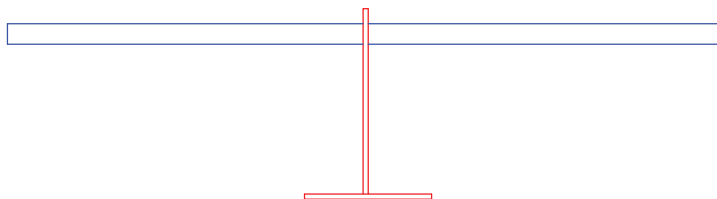
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DWG No.  
PF - R034

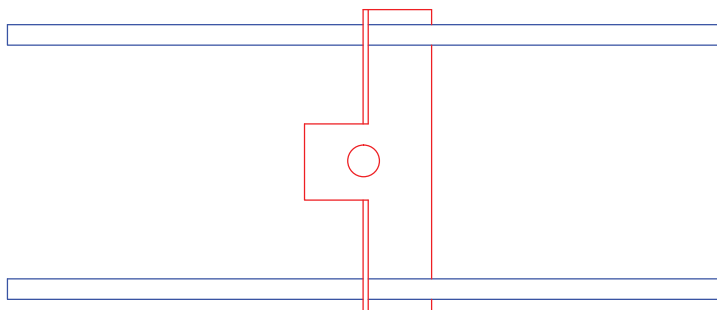
DATE  
31.3.11  
SIZE  
A4  
REV



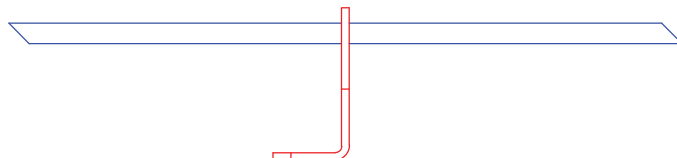
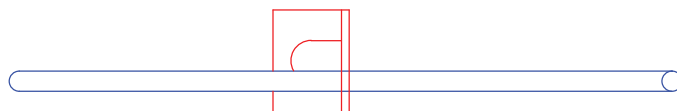
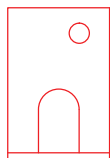
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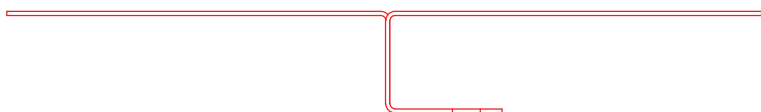
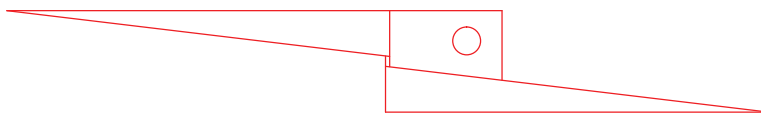
B



C



D



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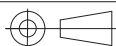
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TITLE  
PF BLOCK ANCHORS

FILE NAME: PF BLOCK ANCHORS - PF - R035.DWG



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SCALE  
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PAGE/SHEET

DATE	REVISION	BY

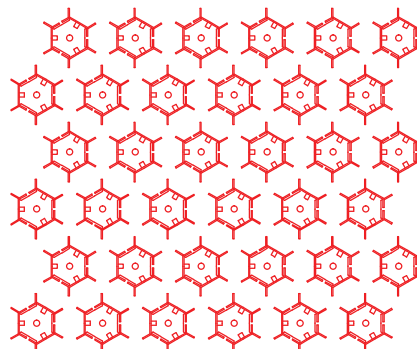
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DWG No.  
PF - R035

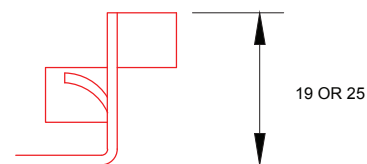
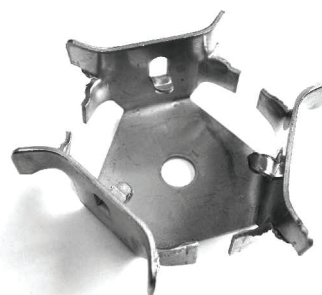
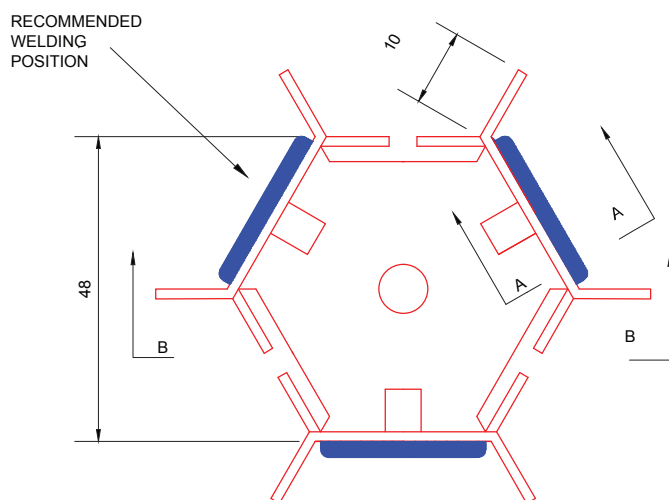
SIZE  
A4

REV

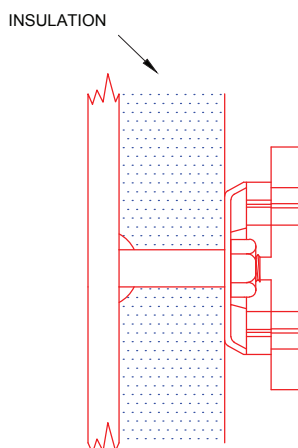




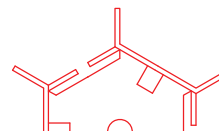
(TYPICAL SPACING 90MM CENTRES  
APPROXIMATELY 143 PER SQUARE METRE)



VIEW AA



MANUFACTURED IN 1.6 OR 2.0 MM  
STAINLESS STEEL IN GRADES 304, 310,  
INCONEL 601, 253MA OR 3CR12,  
CENTER HOLE SIZE CAN BE VARIED  
FOR HIGH CARBON BUILD UP AREAS



AVAILABLE ON REQUEST

NUT CAN BE TACK WELDED TO  
HEXAGONAL CELL (BOTTOM OR TOP  
MOUNTED)



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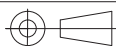
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TITLE  
PF HEXAGONAL CELL

DATE	REVISION	BY

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FILE NAME: PF HEXAGONAL CELL - PF - R036.DWG



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PAGE/SHEET

	MATERIAL: STAINLESS STEEL
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T	DWG No. PF - R036
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DATE 31/3/11	
SIZE A4	REV