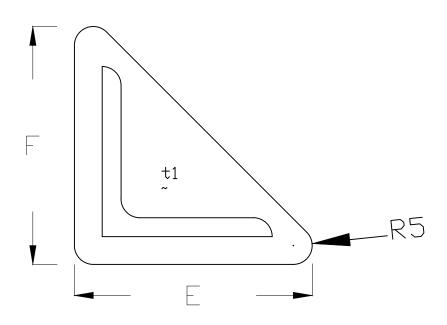
	SUPPORT INDEX SHEET									
	SHEET NO	DRAWN	DATE	REVISION	REMARKS					
COVER PAGE	i		29/10/2024	В						
PAD DETAILS	ii		29/10/2024	В	}					
U-Bolt Typical Details	iii		29/10/2024	В						
BA-S-01	1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	29/10/2024	В	<u> </u>					
BA-S-02	2	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	29/10/2024	В	<u> </u>					
BA-S-03	3		29/10/2024	В						
BA-S-04	4		29/10/2024	В	<u> </u>					
BA-S-05	5	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	29/10/2024	В	<u> </u>					
BA-S-06	6	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	29/10/2024	В	5					
BA-S-07	7		29/10/2024	В						
BA-S-08	8		29/10/2024	В	}					
BA-S-09	9		29/10/2024	В						
BA-S-10	10		29/10/2024	В	(					
BA-S-11	11	}	29/10/2024	В	<u> </u>					
BA-S-12	12		29/10/2024	В						
BA-S-13	13		29/10/2024	В						
BA-S-14	14	(	29/10/2024	В						
BA-S-15	15	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	29/10/2024	В						
BA-S-16	16		29/10/2024	В	}					
BA-S-17	17		29/10/2024	В						
BA-S-18	18	$\rangle$	29/10/2024	В	5					
BA-S-19	19		29/10/2024	В						
BA-S-20	20		29/10/2024	В	<u> </u>					
BA-S-21	21		29/10/2024	В						
BA-S-22	22		29/10/2024	В						
BA-S-23	23		29/10/2024	В						
BA-S-24	24		29/10/2024	В						
BA-S-25	25		29/10/2024	В						
BA-S-26	26		29/10/2024	В	<u> </u>					
BA-S-27	27		29/10/2024	В	/					

REFERENCE DRAWINGS:1) PIPING SUPPORT LAYOUT DRAWING FOR BWTS

- ALL DIMENSIONS ARE IN MILLIMETERS.
   THE PAD TO ANGLE JOINT SHALL BE TACK WELDED FOR FINAL ADJUSTMENT ON-BOARD.

							SK		
В	29/	10/2024	TEM	TEMPLATE CHANGE				TT	GC
Α	26/	10/2024	ISSU	ED FOR CONST	RUCTION		SK	TT	GC
REV		DATE		DESCRIP	TION		DRAWN BY	CHKD BY	APPRD
	·	YFM	ARINE		Designed By:	Gol	tens		
Client:	Ork	im Ship	Manager	nent	BWTS Maker Nam	e:	Lees	Green	
Locatio	n: -				IMO No.:		9546	825	
Project	No: P15	13			Project Name:		ORKIM	POWER	1
Drawin	Drawing title: PIPING SUPPORT DETAILED DRAWING FOR BWTS (1" & ABOVE)								
Scale	Format	Sheet	Drawing	No:				Rev	ision No
N.T.S	A3	l i		GSP	L-P1513-PI-0302				В

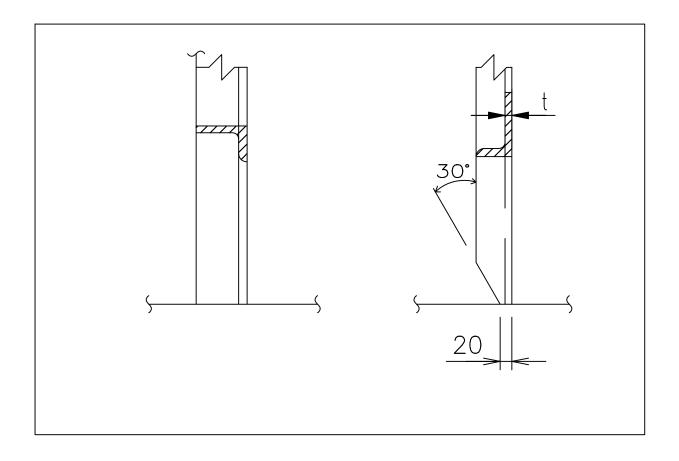
#### PAD FOR PIPE SUPPORT



TRIANGLE TYPE

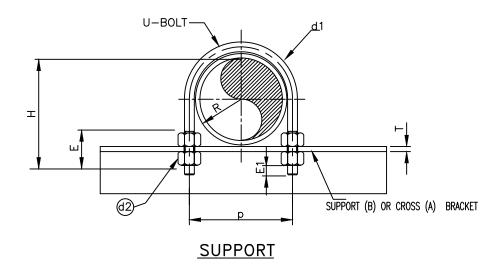
	PAD D	ETAILS					
SUPPORT (ANGLE)	PAD (TRIANGLE TYPE) (mm)						
AXBXt	E	F	t1	R			
L 40 X 40 X 5	70	70	8				
L 50 X 50 X 6	70	70	8				
L 70 X 70 X 8	130	130	10				
L 75 X 75 X 8	130	130	10	5			
L 100 X 100 X 10	130	130	10				
L 130 X 130 X 10	160	160	10				
L 130 X 130 X 12	160	160	10				

#### ENDSNIPING OF SUPPORTS (TYPL.)



Drawin				
	F	PIPING	SUPPORT DETAILED DRAWING FOR BWTS (1" 8	ABOVE
			(	
Scale	Format	Sheet	Drawing No:	Revision No
мте	۸2	;;	CCDL D4542 DL0202	ь

#### U-BOLT TYPICAL DETAILS



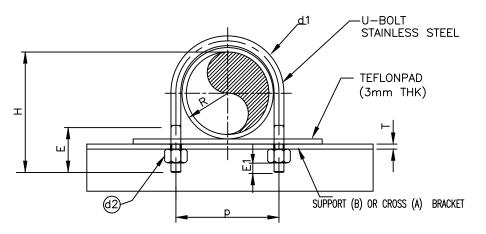
#### 2. SHAPE AND DIMENSIONS

PIP	E ND	JIS PIPE		U - BOLT					
[MM]	[INCH]	OD	d1	E1	R	E	E H		WT(Kg)
15	1/2"	21.7	M10	4.3	12			34	0.031
20	3/4"	27.2	M10	4.8	15			40	0.04
25	1"	34.0	M10	4	18			46	0.06
32	1 1/4"	42.7	M10	4.3	23			56	0.08
40	1 1/2"	48.6	M10	4.4	26			62	.16
50	2"	60.5	M10	4.5	32	35	81	74	0.3
65	2-1/2"	76.3	M12	5.7	38	44	102	88	0.31
80	3"	89.1	M12	5.9	46	44	115	104	.34
100	4"	114.3	M16	6.7	59	50	144	134	.76
125	5"	139.8	M16	6.2	74	50	170	164	1.4
150	6"	165.2	M16	6.8	87	50	199	190	2.4
200	8"	216.3	M20	7.7	112	60	254	244	2.9
250	10"	267.4	M20	7.6	139	60	309	298	3.3
300	12"	318.5	M24	10.5	165	70	367	354	6.5
350	14"	355.6	M24	9.4	181	70	398	386	6.9
400	16"	406.4	M24	10.6	207	70	450	438	7.6
450	18"	457.2	м30	12.8	233	85	508	496	8.3
500	20"	508.0	м30	13	259	85	559	548	13.6
550	22"	558.8	м30	13.2	284	85	598	598	14.6
600	24"	609.6	M36	14.8	310	100	656	656	15.7

#### 3. MATERIALS

MARK	ITEM	MATERIALS	QTY
1	U-BOLT	CARBON STEEL (HOT GAL.)	1
2	NUT	ASTM A307 Gr.B OR EQUAL. (HOT GAL.)	4

#### STAINLESS STEEL PIPE SUPPORT (U-BOLT TYPICAL DETAILS)



#### **FIX SUPPORT**

#### 2. SHAPE AND DIMENSIONS

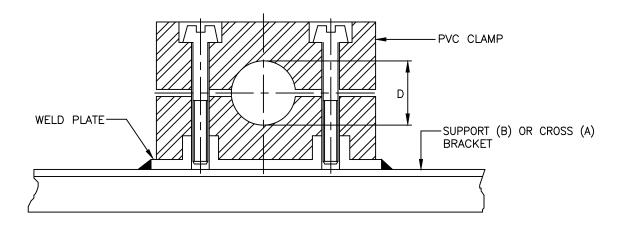
PIP	E ND	JIS PIPE	U — BOLT						
[MM]	[INCH]	OD	d1	E1	R	E	Н	Р	WT(Kg)
15	1/2"	21.7	M10	4.3	12	40	55	34	0.031
20	3/4"	27.2	M10	4.8	15	40	61	40	0.04
25	1"	34.0	M10	4	18	43	68	46	0.06
32	1 1/4"	42.7	M10	4.3	23	43	76	56	0.08
40	1 1/2"	48.6	M10	4.4	26	46	82	62	.16
50	2"	60.5	M10	4.5	32	58	94	74	0.3
65	2-1/2"	76.3	M12	5.7	38	60	115	88	0.31

#### NOTE: WT. IS TOTAL WEIGHT OF 2 (two) SET WITH NUT.

#### 3. MATERIALS

MARK	ITEM	MATERIALS	QTY
1	U-BOLT	STAINLESS STEEL	1
2	NUT	ASTM A304 Gr.B	2

#### **COPPER PIPE - TYPICAL PIPE SUPPORT**



#### SINGLE CLAMP SUPPORT

Drawin		ING S	UPPORT DETAILED DRAWING FOR BWTS (1" & A	BOVE)
Scale	Format	Sheet	Drawing No:	Revision N
N.T.S	А3	iii	GSPL-P1513-PI-0302	В



WEIGHT

REV.

8.507 Kg

В

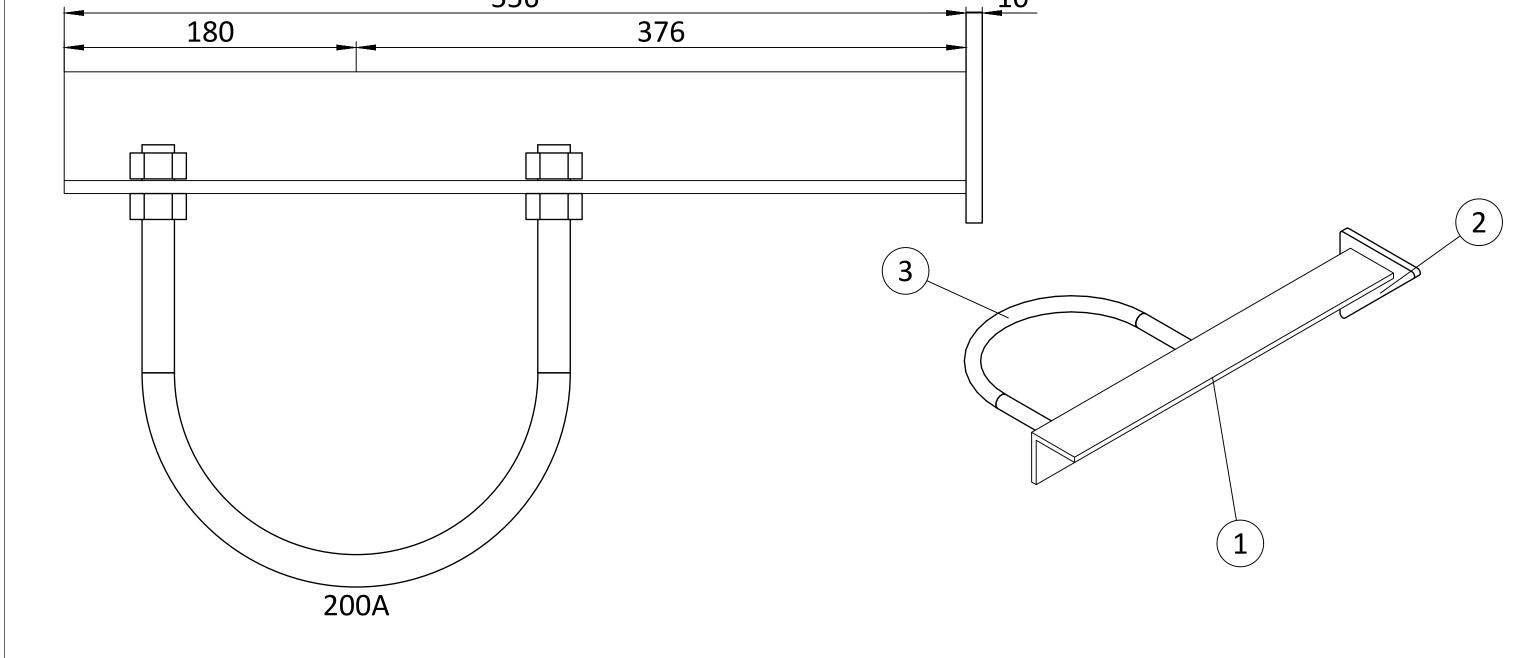
/ 27

2.90

0.61

WT(Kg)

01



					US					
					AN					
					CELI	3	U-Bolt with Double Nuts-(DN200)	Galv. Steel	1	
1	L 75 x 75 x 8.0	Steel	556.0	5.00	MISC	2	Pad-(130 x 130 x 10)	Steel	1	(
PART NO.	DESCRIPTION	MATERIAL	LEN(mm)	WT(Kg)		PART NO.	DESCRIPTION	MATERIAL	QTY.	,



L 75 x 75 x 8.0

**DESCRIPTION** 

1

PART NO

#### SUPPORT DRAWING

WEIGHT REV.

В 8.401 Kg

02

27

0.61

WT(Kg)

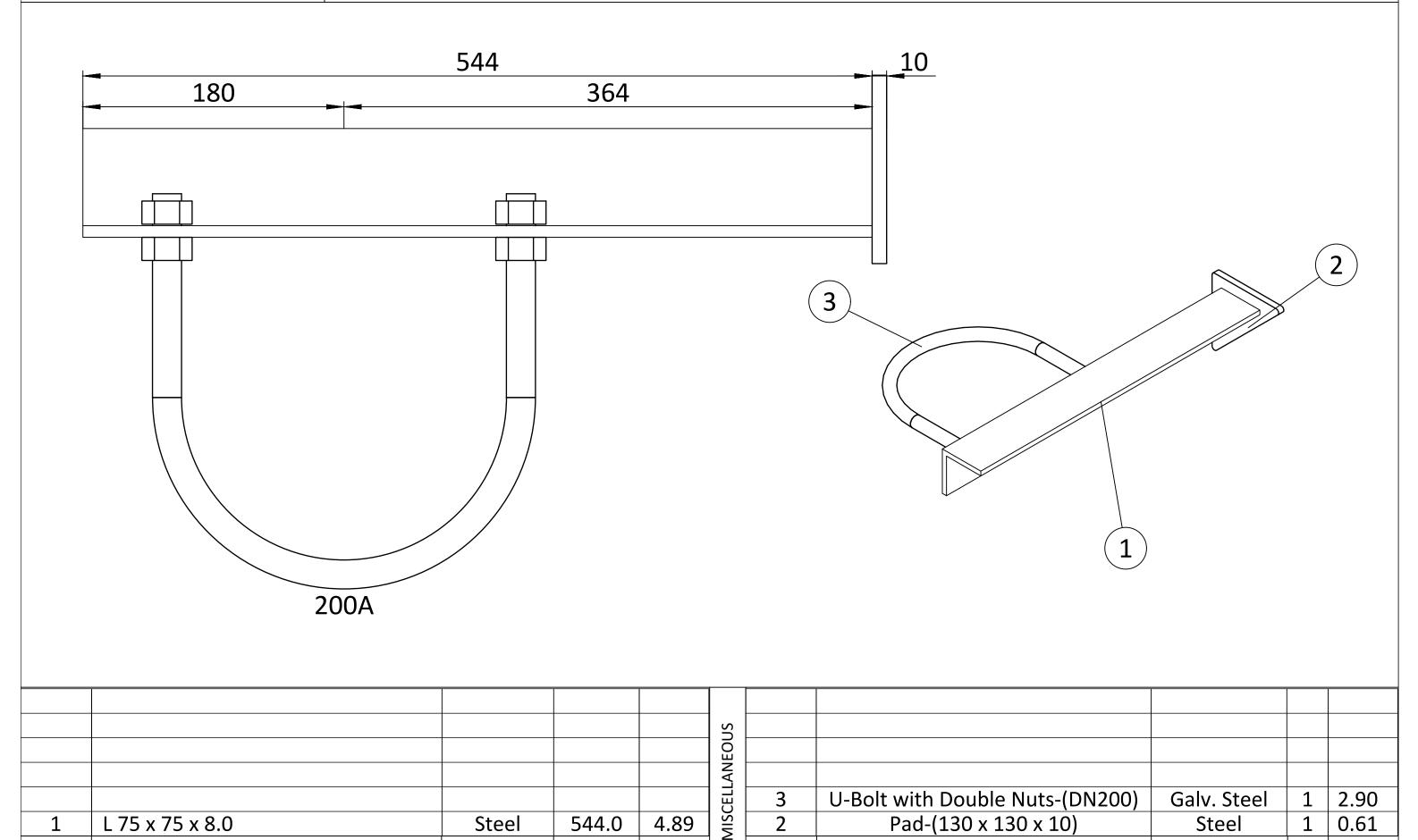
1

QTY.

Steel

MATERIAL

SUPPORT NO: BA-S-02



2

PART NO.

Pad-(130 x 130 x 10)

**DESCRIPTION** 

544.0

LEN(mm)

Steel

MATERIAL

4.89

WT(Kg)



WEIGHT

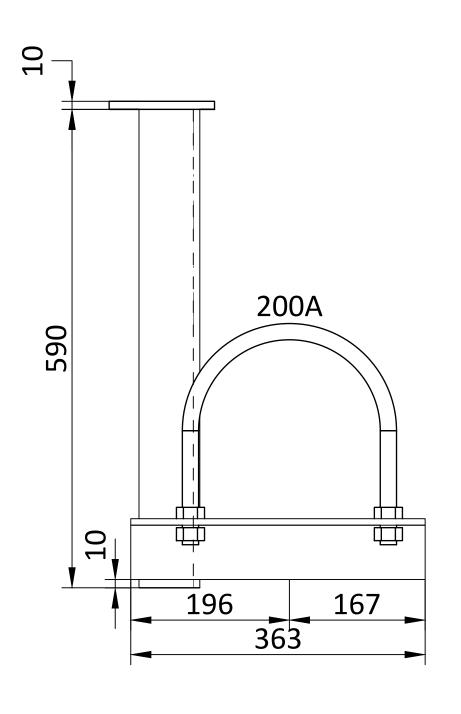
REV.

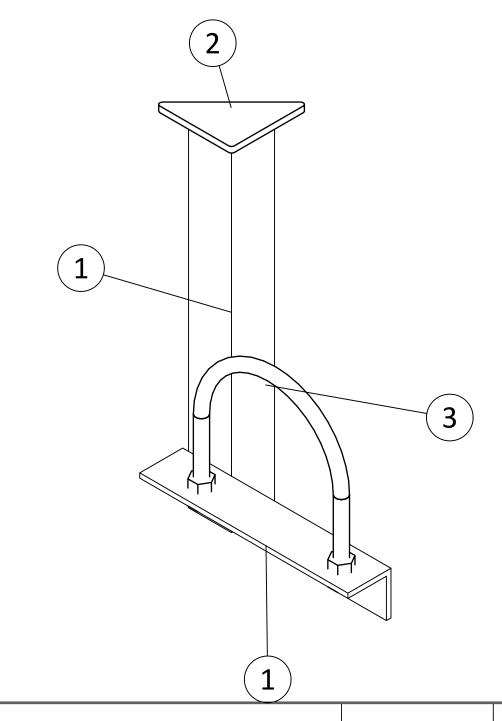
12.07 Kg

В

27

03





1	L 75 x 75 x 8.0	Steel	953.0	8.57
PART NO.	DESCRIPTION	MATERIAL	LEN(mm)	WT(Kg)

		_
	US	
	EOI	
	-LANEOU	
	CELI	
	MISCEI	
)	_	P

JS					
EOU					
LAN					
ISCELI	3	U-Bolt with Double Nuts-(DN200)	Galv. Steel	1	2.90
VIIS(	2	Pad-(130 x 130 x 10)	Steel	1	0.61
_	PART NO.	DESCRIPTION	MATERIAL	QTY.	WT(Kg)



WEIGHT

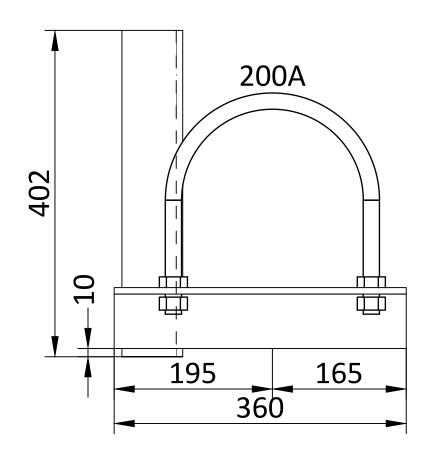
REV.

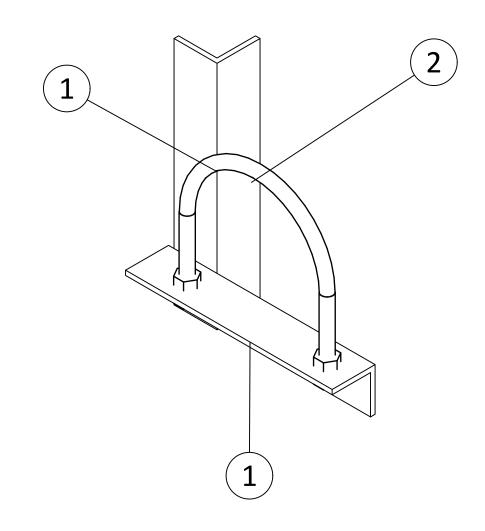
04

27

9.752 Kg

В





					NS					
					EO					
					LAN					
					CELI					
1	L 75 x 75 x 8.0	Steel	762.0	6.85	/IIS	2	U-Bolt with Double Nuts-(DN200)	Galv. Steel	1	2.90
PART NO.	DESCRIPTION	MATERIAL	LEN(mm)	WT(Kg)	2	PART NO.	DESCRIPTION	MATERIAL	QTY.	WT(Kg)



WEIGHT

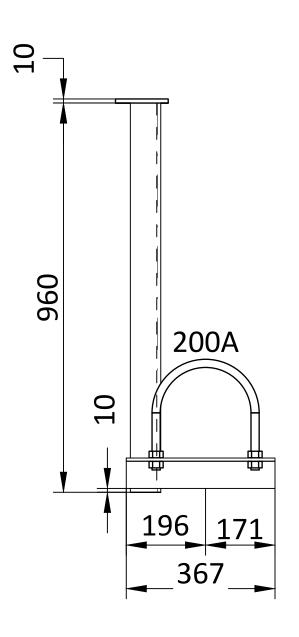
REV.

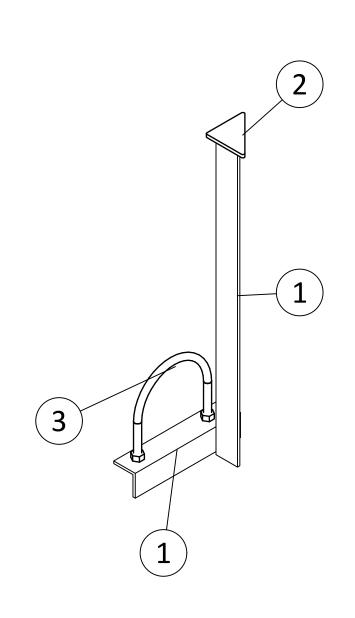
15.43 Kg

В

27

05





1	L 75 x 75 x 8.0	Steel	1327.0	11.93
PART NO.	DESCRIPTION	MATERIAL	LEN(mm)	WT(Kg)

$\neg$		Н
	US	
	LANEOI	
	AN-	
	ISCELI	
	MISC	
)	~	P

JS					
EOUS					
AN					
ISCELI	3	U-Bolt with Double Nuts-(DN200)	Galv. Steel	1	2.90
MIS(	2	Pad-(130 x 130 x 10)	Steel	1	0.61
	PART NO.	DESCRIPTION	MATERIAL	QTY.	WT(Kg)



WEIGHT

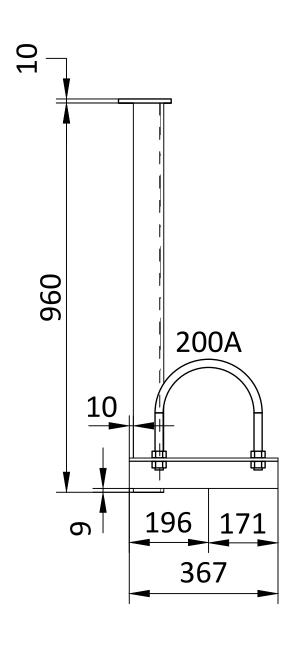
15.43 Kg

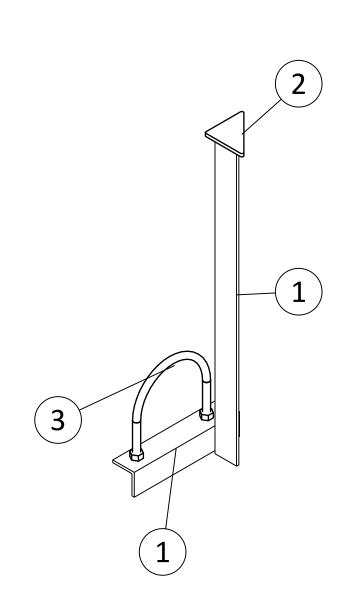
REV.

В

06

27





1	L 75 x 75 x 8.0	Steel	1327.0	11.93
PART NO.	DESCRIPTION	MATERIAL	LEN(mm)	WT(Kg)

JS	
.ANEOUS	
LAN	
CELI	
MISCEI	

JS					
ANEOUS					
AN					
CELI	3	U-Bolt with Double Nuts-(DN200)	Galv. Steel	1	2.90
MISCEL	2	Pad-(130 x 130 x 10)	Steel	1	0.61
	PART NO.	DESCRIPTION	MATERIAL	QTY.	WT(Kg)



WEIGHT

REV.

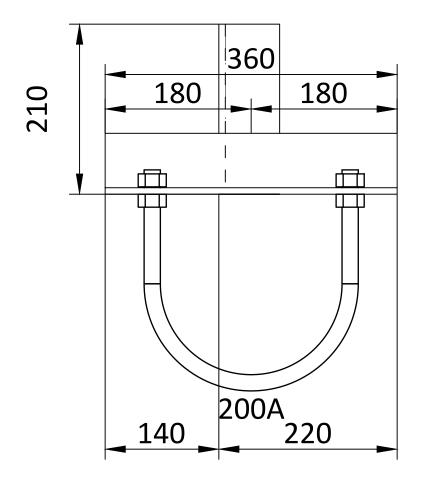
8.020 Kg B

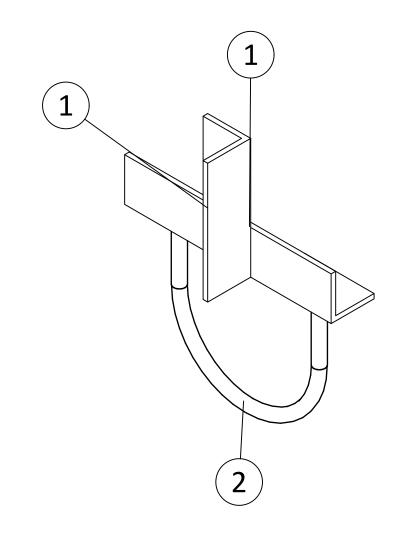
27

2.90

WT(Kg)

07





					JS					Ī
					EOL					Ī
					] A					Ī
					] 					Ī
1	L 75 x 75 x 8.0	Steel	570.0	5.12	MISC	2	U-Bolt with Double Nuts-(DN200)	Galv. Steel	1	
PART NO.	DESCRIPTION	MATERIAL	LEN(mm)	WT(Kg)	<b>J</b>	PART NO.	DESCRIPTION	MATERIAL	QTY.	



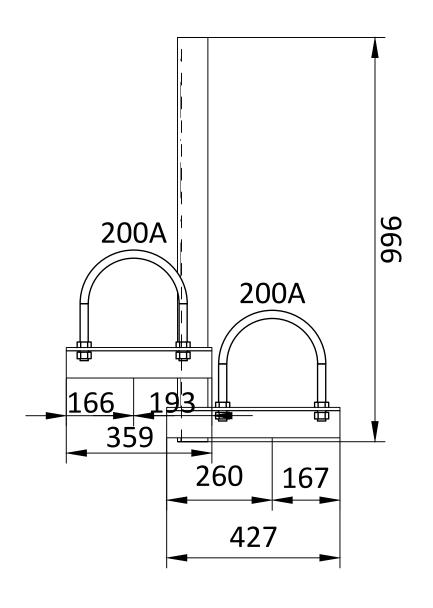
WEIGHT REV.

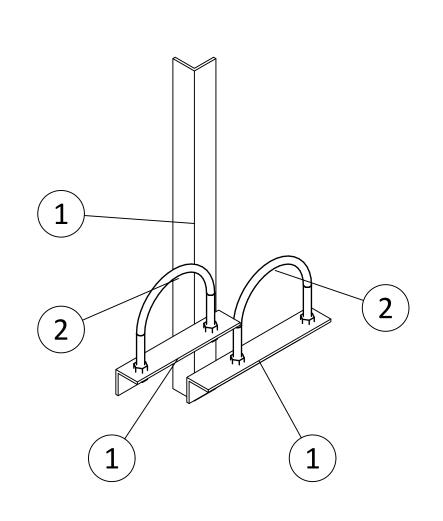
21.82 Kg

80

27

В





					JS					
					ANEOL					
					AN-					
					CELI					
1 L 75 x 7	'5 x 8.0	Steel	1782.0	16.02	MISC	2	U-Bolt with Double Nuts-(DN200)	Galv. Steel	2	2.90
PART NO.	DESCRIPTION	MATERIAL	LEN(mm)	WT(Kg)		PART NO.	DESCRIPTION	MATERIAL	QTY.	WT(Kg)



REV. WEIGHT

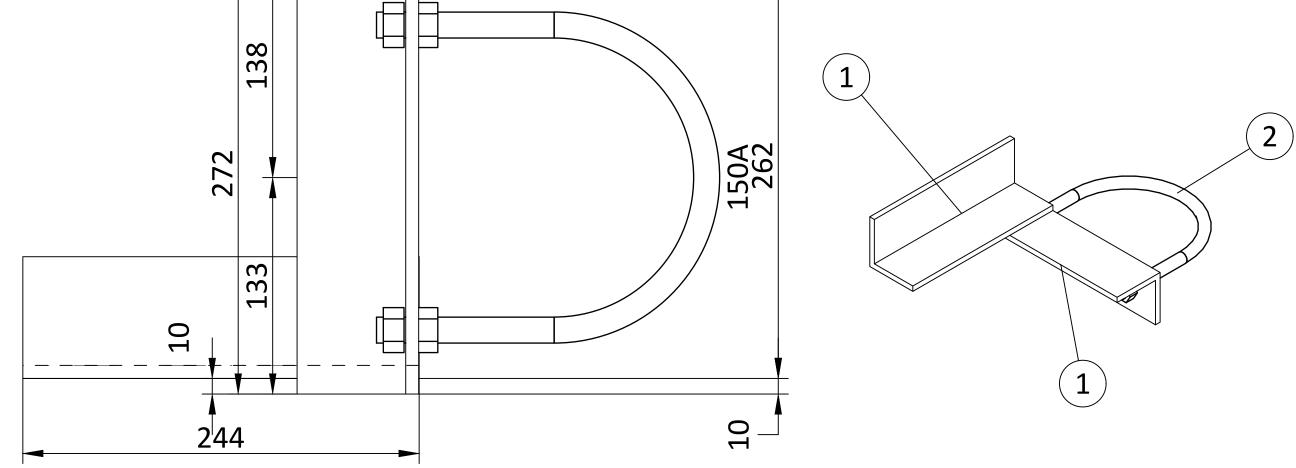
В

09

27

7.038 Kg

138



			I	<u> </u>	1				1	
					US					
					EOL					
					AN-					
1	L 75 x 75 x 8.0	Steel	516.0	4.64	MISC	2	U-Bolt with Double Nuts-(DN150)	Galv. Steel	1	2.40
PART NO.	DESCRIPTION	MATERIAL	LEN(mm)	WT(Kg)	2	PART NO.	DESCRIPTION	MATERIAL	QTY.	WT(Kg)



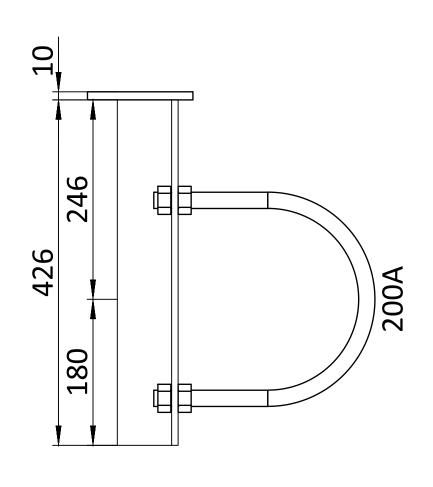
WEIGHT REV.

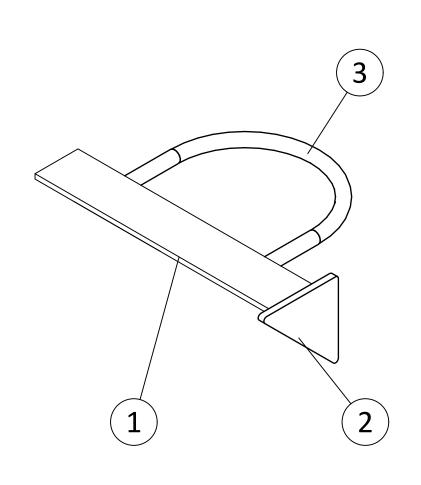
7.337 Kg

10

27

В





1	L 75 x 75 x 8.0	Steel	426.0	3.83
PART NO.	DESCRIPTION	MATERIAL	LEN(mm)	WT(Kg)

_		
	JS	
	EOL	
	AN	
	CELI	
	MISCEI	
	_	D

S					
EOI					
Ā Ā					
CELI	3	U-Bolt with Double Nuts-(DN200)	Galv. Steel	1	2.90
MISCELLANEOUS	2	Pad-(130 x 130 x 10)	Steel	1	0.61
_	PART NO.	DESCRIPTION	MATERIAL	QTY.	WT(Kg)



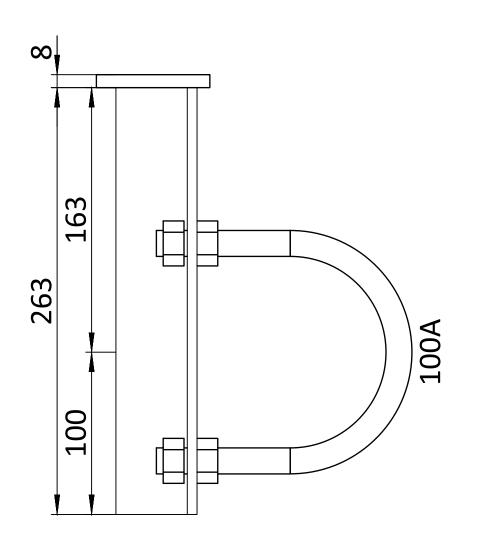
WEIGHT

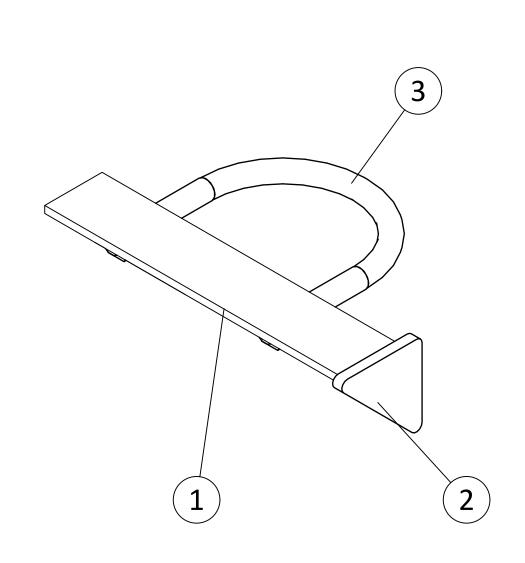
REV. В

2.135 Kg

11

27





1	L 50 x 50 x 6.0	Steel	263.0	1.18
PART NO.	DESCRIPTION	MATERIAL	LEN(mm)	WT(Kg)

IEOUS	
ISCELLANE	
MIS	P

JS					
ELLANEOUS					
AN					
SEL	3	U-Bolt with Double Nuts-(DN100)	Galv. Steel	1	0.80
MISCI	2	Pad-(70 x 70 x 8)	Steel	1	0.16
	PART NO.	DESCRIPTION	MATERIAL	QTY.	WT(Kg)



WEIGHT

REV.

В

11.45 <sub>Kg</sub>

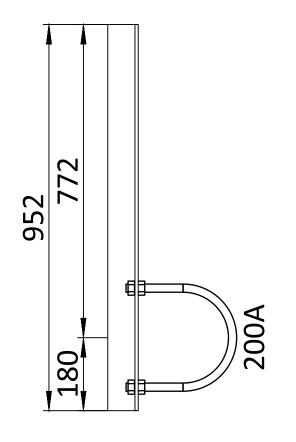
12

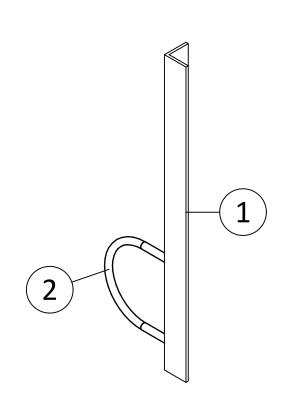
2.90

WT(Kg)

QTY.

27





	1	L 75 x 75 x 8.0	Steel	952.0	8.56
P	ART NO.	DESCRIPTION	MATERIAL	LEN(mm)	WT(Kg)

IEOUS	
LLAN	
MISCE	

2	U-Bolt with Double Nuts-(DN200)	Galv. Steel
PART NO.	DESCRIPTION	MATERIAL



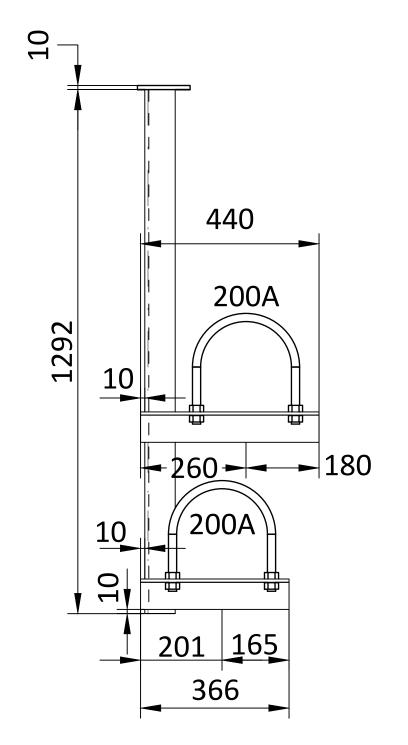
WEIGHT REV.

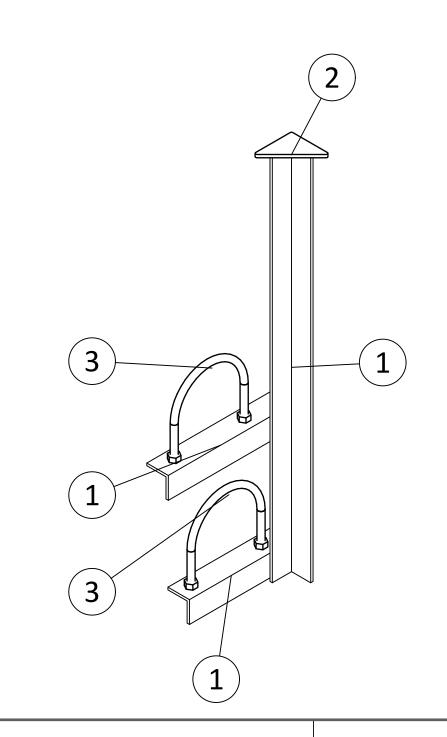
25.26 Kg

13

27

В





1	L 75 x 75 x 8.0	Steel	2098.0	18.86
PART NO.	DESCRIPTION	MATERIAL	LEN(mm)	WT(Kg)

US	
ANEOL	
AN-	
CELI	
MISCEI	ľ
_	

JS					
ANEOUS					
SEL	3	U-Bolt with Double Nuts-(DN200)	Galv. Steel	2	2.90
MISCELL	2	Pad-(130 x 130 x 10)	Steel	1	0.61
	PART NO.	DESCRIPTION	MATERIAL	QTY.	WT(Kg)



WEIGHT REV.

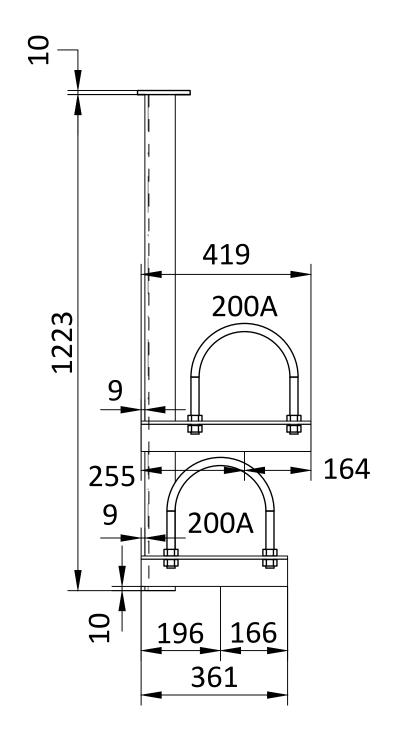
24.41 Kg

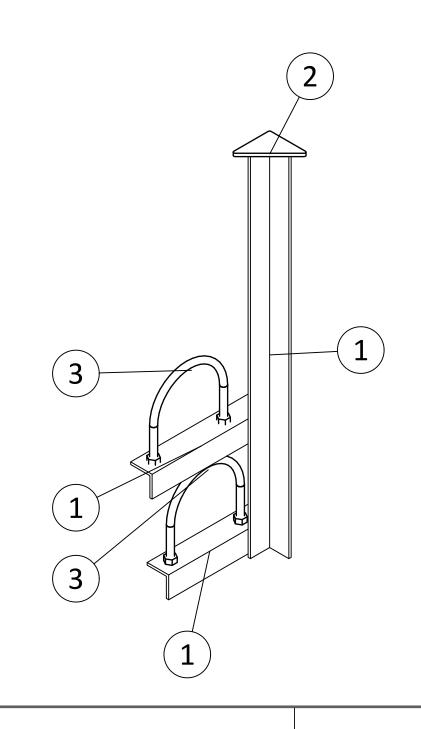
B

14

27

SUPPORT NO: BA-S-14





1	L 75 x 75 x 8.0	Steel	2003.0	18.01
PART NO.	DESCRIPTION	MATERIAL	LEN(mm)	WT(Kg)

3	U-Bolt wi
2	Pa
PART NO	DES

MISCELLANEOUS

3	U-Bolt with Double Nuts-(DN200)	Galv. Steel	2	2.90
2	Pad-(130 x 130 x 10)	Steel	1	0.61
PART NO.	DESCRIPTION	MATERIAL	QTY.	WT(Kg)



REV. WEIGHT

1.732 Kg

15

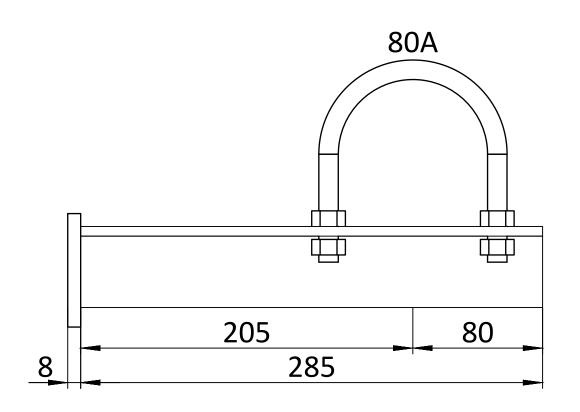
0.30 0.16

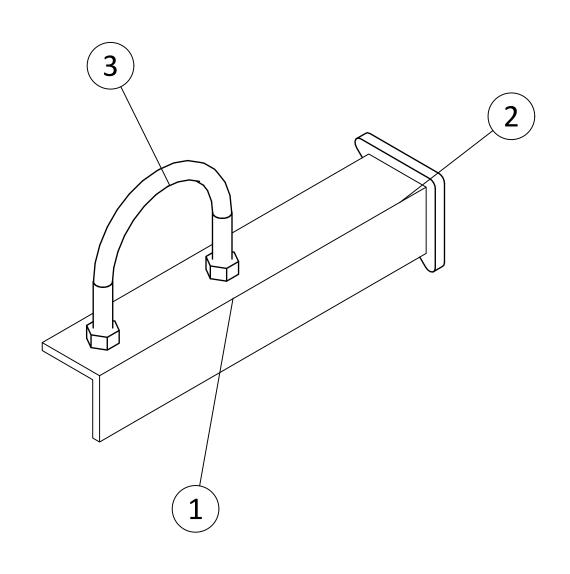
WT(Kg)

QTY.

27

B





1	L 50 x 50 x 6.0	Steel	285.0	1.27
PART NO.	DESCRIPTION	MATERIAL	LEN(mm)	WT(Kg)

SC			
EOL			
A			
CELI	3	U-Bolt with Double Nuts-(DN80)	Galv. Steel
MISCELLANEOUS	2	Pad-(70 x 70 x 8)	Steel
_	PART NO.	DESCRIPTION	MATERIAL



MISCELLANEOUS

WEIGHT REV. 16

1.671 Kg

В

, |

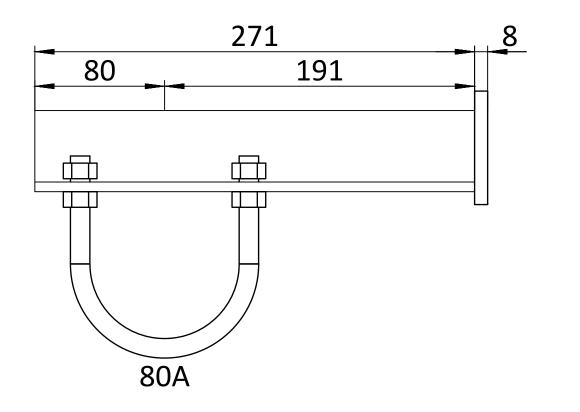
27

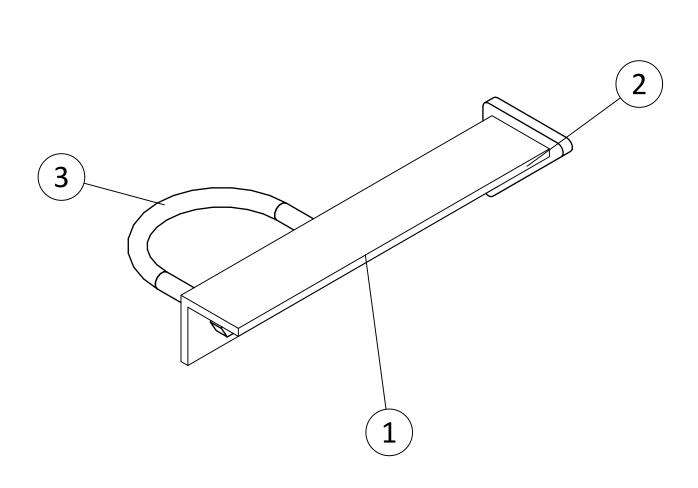
0.30

0.16

QTY.

WT(Kg)





1	L 50 x 50 x 6.0	Steel	271.0	1.21
PART NO.	DESCRIPTION	MATERIAL	LEN(mm)	WT(Kg)

)			
) 			
' : i			
	3	U-Bolt with Double Nuts-(DN80)	Galv. Steel
)	2	Pad-(70 x 70 x 8)	Steel
•	PART NO.	DESCRIPTION	MATERIAL



MISCELLANEOUS

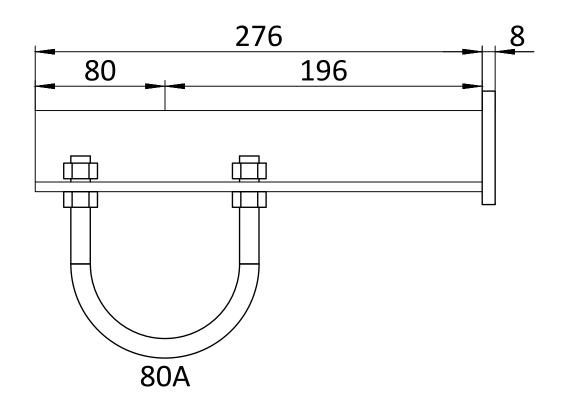
WEIGHT REV.

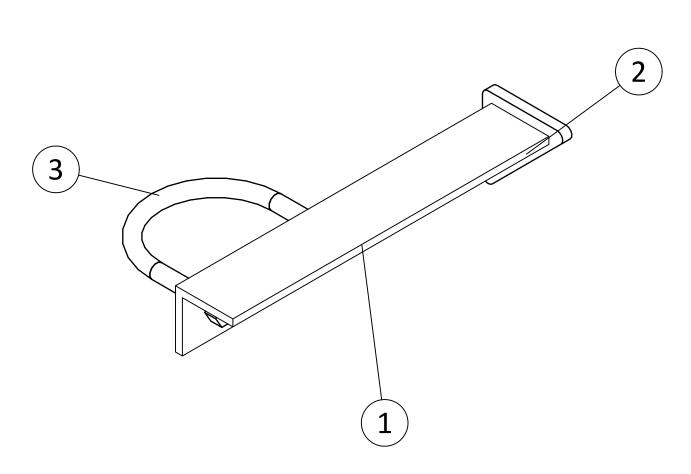
1.691 Kg

17

27

В





1	L 50 x 50 x 6.0	Steel	276.0	1.23
PART NO.	DESCRIPTION	MATERIAL	LEN(mm)	WT(Kg)

3	U-Bolt with Double Nuts-(DN
2	Pad-(70 x 70 x 8)
PART NO.	DESCRIPTION

N80)	Galv. Steel	1	0.30
	Steel	1	0.16
	MATERIAI	ОТУ	W/T(Kø)



WEIGHT

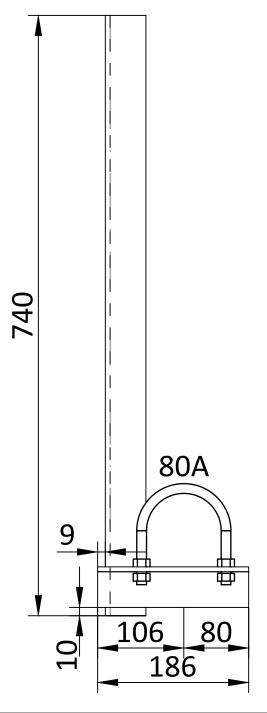
REV.

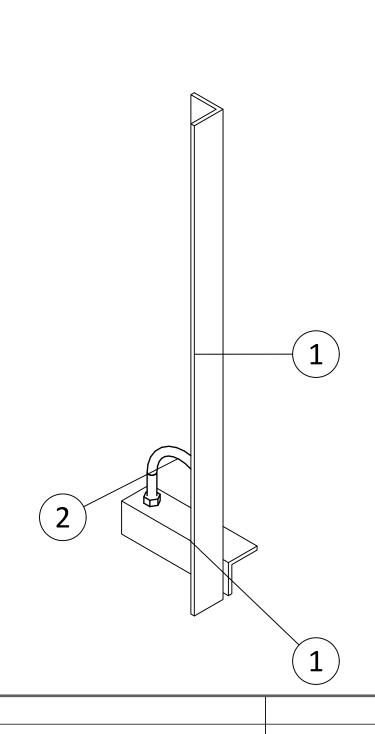
18

27

В

4.439 Kg





1	L 50 x 50 x 6.0	Steel	926.0	4.14
PART NO.	DESCRIPTION	MATERIAL	LEN(mm)	WT(Kg)

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ISCELL	
MIS	
	F

JS					
EOU					
LAN					
CELI					
MISCI	2	U-Bolt with Double Nuts-(DN80)	Galv. Steel	1	0.30
	PART NO.	DESCRIPTION	MATERIAL	QTY.	WT(Kg)



WEIGHT REV.

4.439 Kg

19

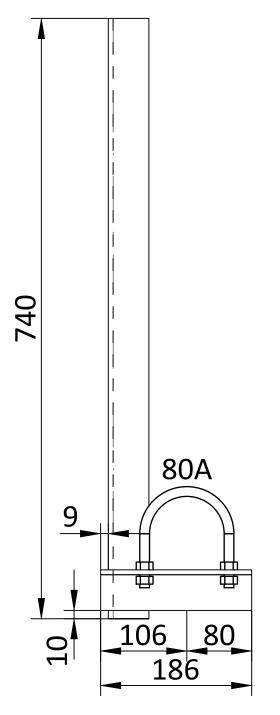
0.30

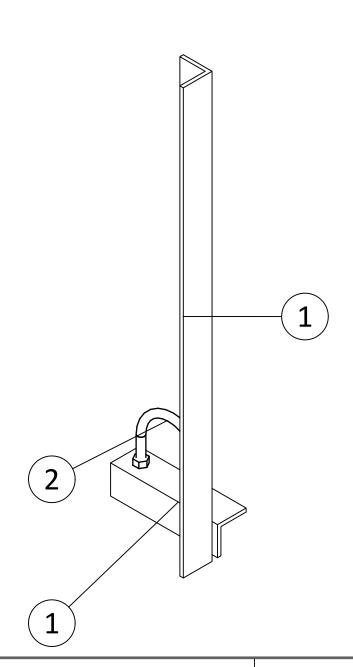
WT(Kg)

QTY.

27

В





1	L 50 x 50 x 6.0	Steel	926.0	4.14
PART NO.	DESCRIPTION	MATERIAL	LEN(mm)	WT(Kg)

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ANEOUS			
Z Y			
CEL			
<u> </u>	2	U-Bolt with Double Nuts-(DN80)	Galv. Steel
_	PART NO.	DESCRIPTION	MATERIAL



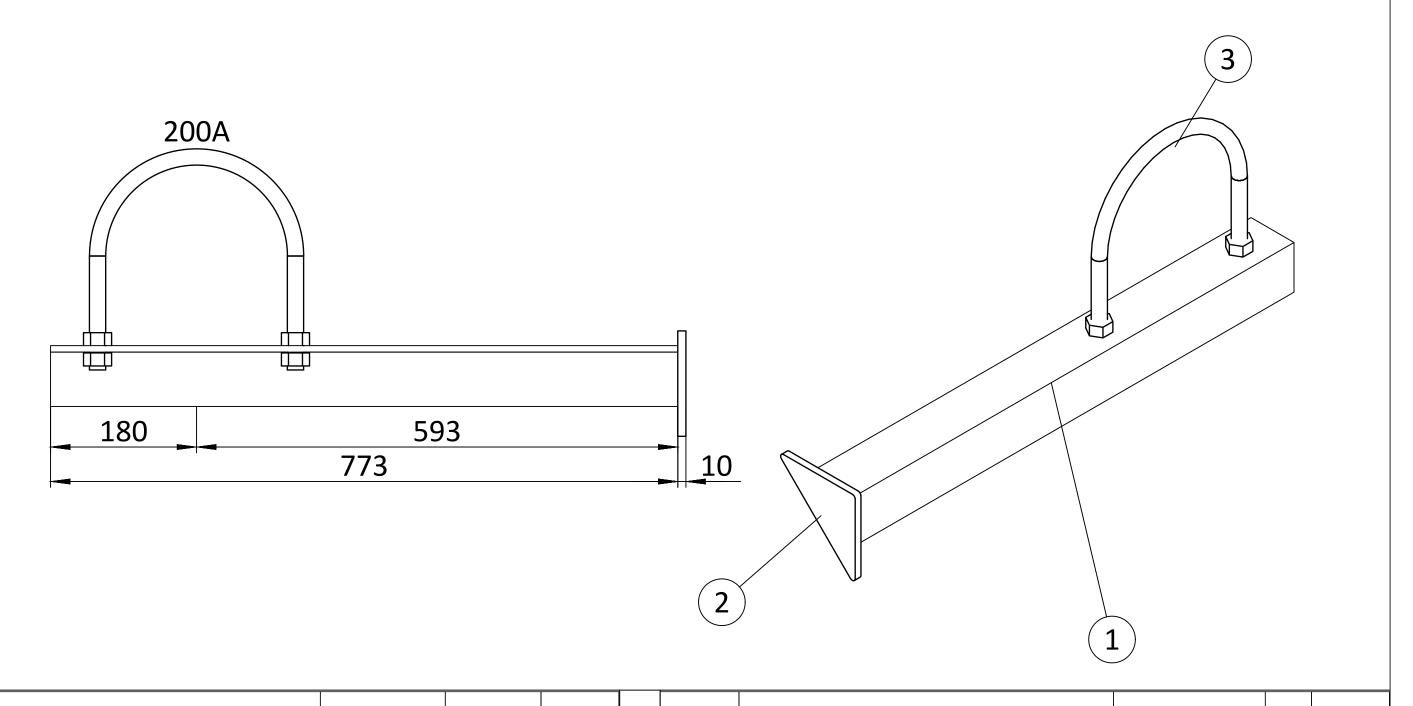
WEIGHT

REV.

В 10.46 Kg

20

27



1	L 75 x 75 x 8.0	Steel	773.0	6.95
PART NO.	DESCRIPTION	MATERIAL	LEN(mm)	WT(Kg)

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AN AN		
MISCELLANEOUS	3	
VIIS(	2	
_	P∆RT N∩	

3	U-Bolt with Double Nuts-(DN200)	Galv. Steel	1	2.90
2	Pad-(130 x 130 x 10)	Steel	1	0.61
ART NO.	DESCRIPTION	MATERIAL	QTY.	WT(Kg)



WEIGHT REV.

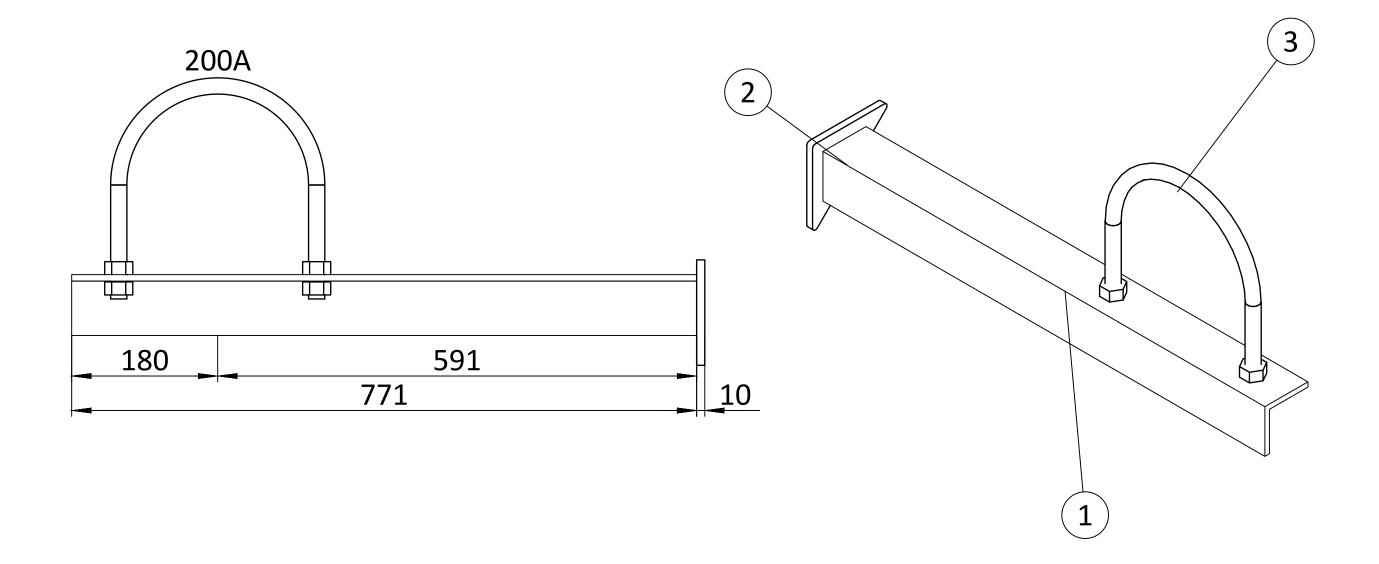
10.43 Kg B

27

21

2.90 0.61

WT(Kg)



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					EOI				
					] A				
						3	U-Bolt with Double Nuts-(DN200)	Galv. Steel	1
1	L 75 x 75 x 8.0	Steel	771.0	6.93	MISC	2	Pad-(130 x 130 x 10)	Steel	1
PART NO.	DESCRIPTION	MATERIAL	LEN(mm)	WT(Kg)		PART NO.	DESCRIPTION	MATERIAL	QTY.

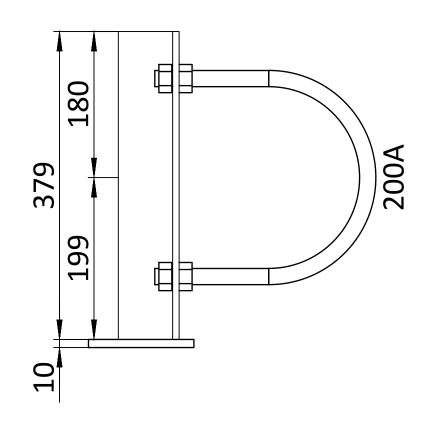


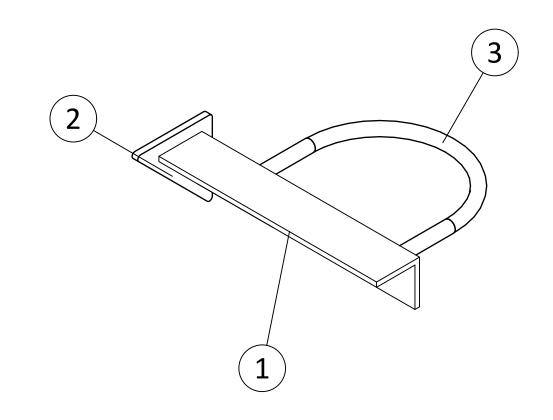
WEIGHT REV.

6.921 Kg B

22

27





1	L 75 x 75 x 8.0	Steel	379.0	3.41
PART NO.	DESCRIPTION	MATERIAL	LEN(mm)	WT(Kg)

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Z (		
,  -	3	
VIISCELLAINEOUS	2	
_	PART NO.	

3	U-Bolt with Double Nuts-(DN200)	Galv. Steel	1	2.90
2	Pad-(130 x 130 x 10)	Steel	1	0.61
ART NO.	DESCRIPTION	MATERIAL	QTY.	WT(Kg)



WEIGHT REV.

10.94 Kg

В

1

1

QTY.

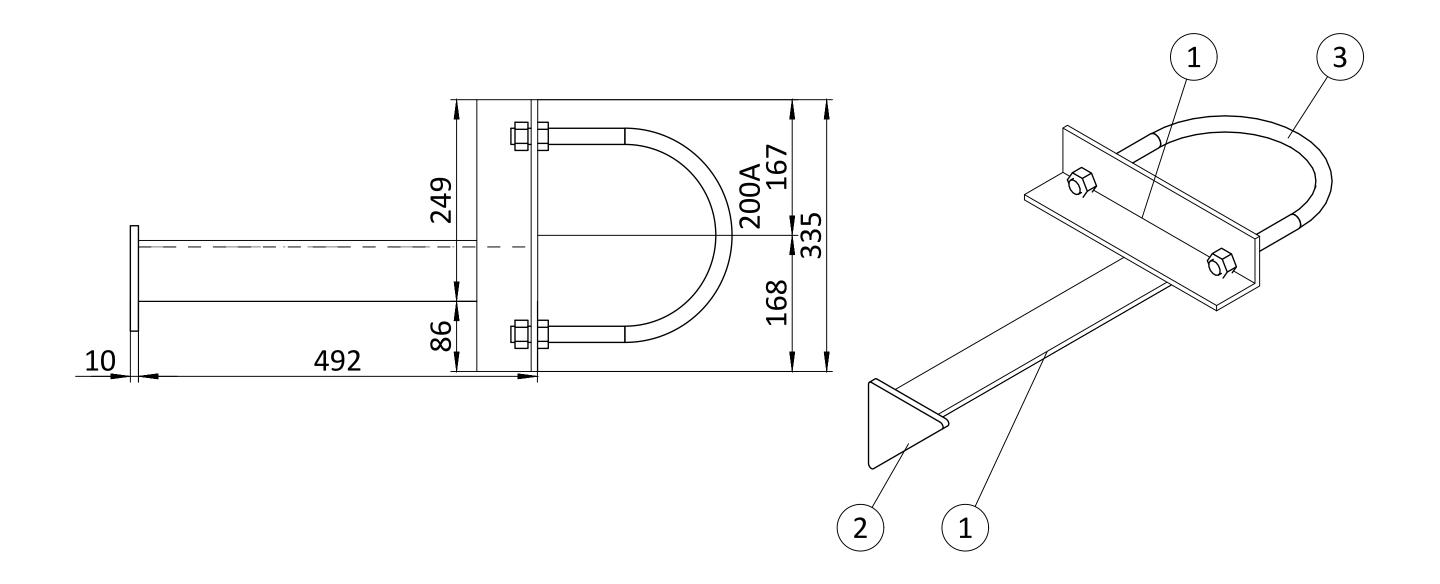
2.90 0.61

WT(Kg)

23

27

SUPPORT NO: BA-S-23



MISCELLANEOUS

1	L 75 x 75 x 8.0	Steel	827.0	7.43
PART NO.	DESCRIPTION	MATERIAL	LEN(mm)	WT(Kg)

3	U-Bolt with Double Nuts-(DN200)	Galv. Steel
2	Pad-(130 x 130 x 10)	Steel
PART NO.	DESCRIPTION	MATERIAL



WEIGHT

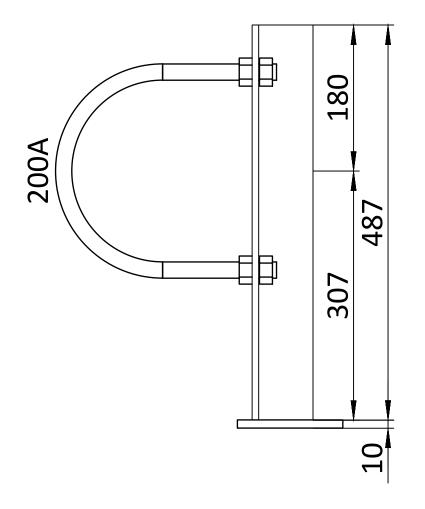
REV.

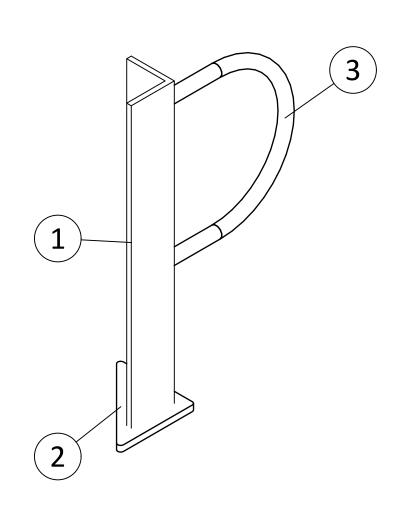
7.887 <sub>Kg</sub>

В

24

27





1	L 75 x 75 x 8.0	Steel	487.0	4.38
PART NO.	DESCRIPTION	MATERIAL	LEN(mm)	WT(Kg)

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	IISCEL	
	LAN	
	EOL	
	JS	

JS					
EO					
AN					
CELI	3	U-Bolt with Double Nuts-(DN200)	Galv. Steel	1	2.90
<b>MISCI</b>	2	Pad-(130 x 130 x 10)	Steel	1	0.61
_	PART NO.	DESCRIPTION	MATERIAL	QTY.	WT(Kg)



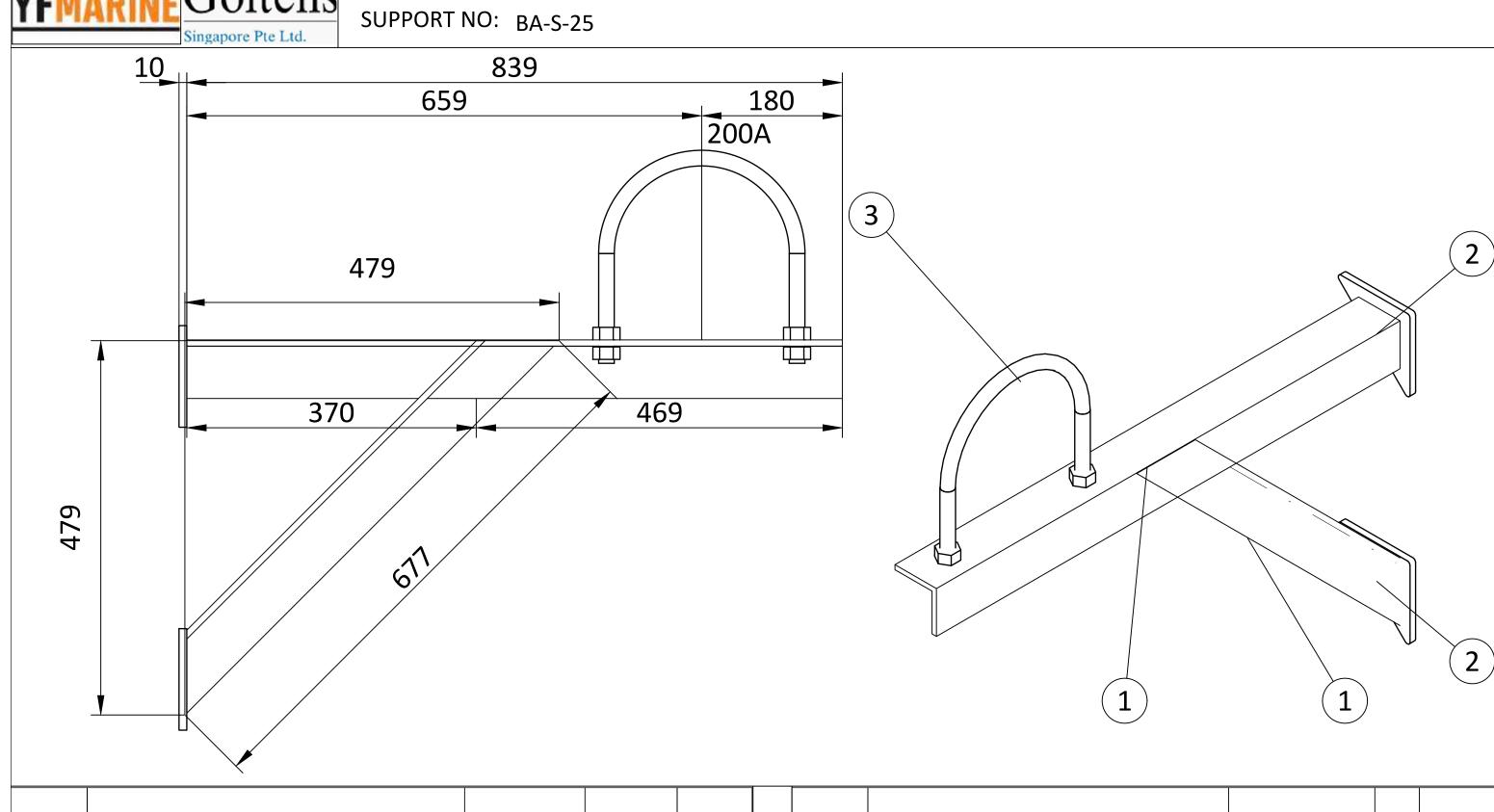
WEIGHT REV.

17.75 Kg

В

25

27



1	L 75 x 75 x 8.0	Steel	1516.0	13.63
ART NO	DESCRIPTION	MATERIAL	LEN(mm)	\/\T(Kg)

JS					
ANEOUS					
CELI	3	U-Bolt with Double Nuts-(DN200)	Galv. Steel	1	2.90
MISCELL	2	Pad-(130 x 130 x 10)	Steel	2	0.61
_	PART NO.	DESCRIPTION	MATERIAL	QTY.	WT(K



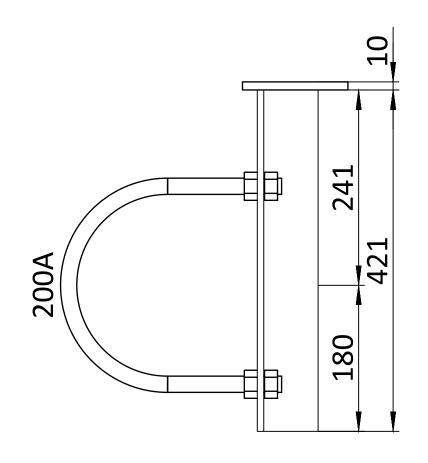
WEIGHT REV.

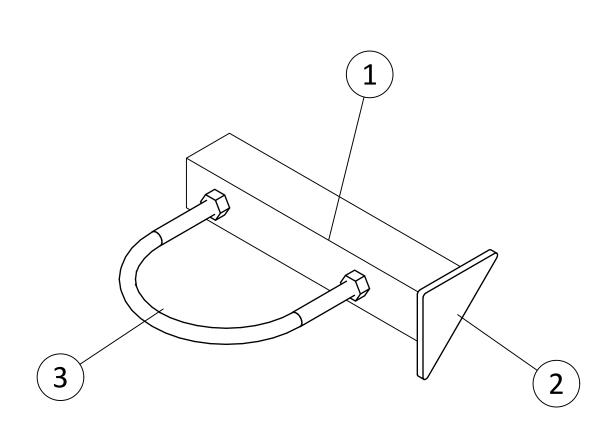
В

26

27

7.291 Kg





1	L 75 x 75 x 8.0	Steel	421.0	3.78
PART NO.	DESCRIPTION	MATERIAL	LEN(mm)	WT(Kg)

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AN	
EOL	
JS	

JS					
EOU					
A N					
ISCELL	3	U-Bolt with Double Nuts-(DN200)	Galv. Steel	1	2.90
MISC	2	Pad-(130 x 130 x 10)	Steel	1	0.61
	PART NO.	DESCRIPTION	MATERIAL	QTY.	WT(Kg)



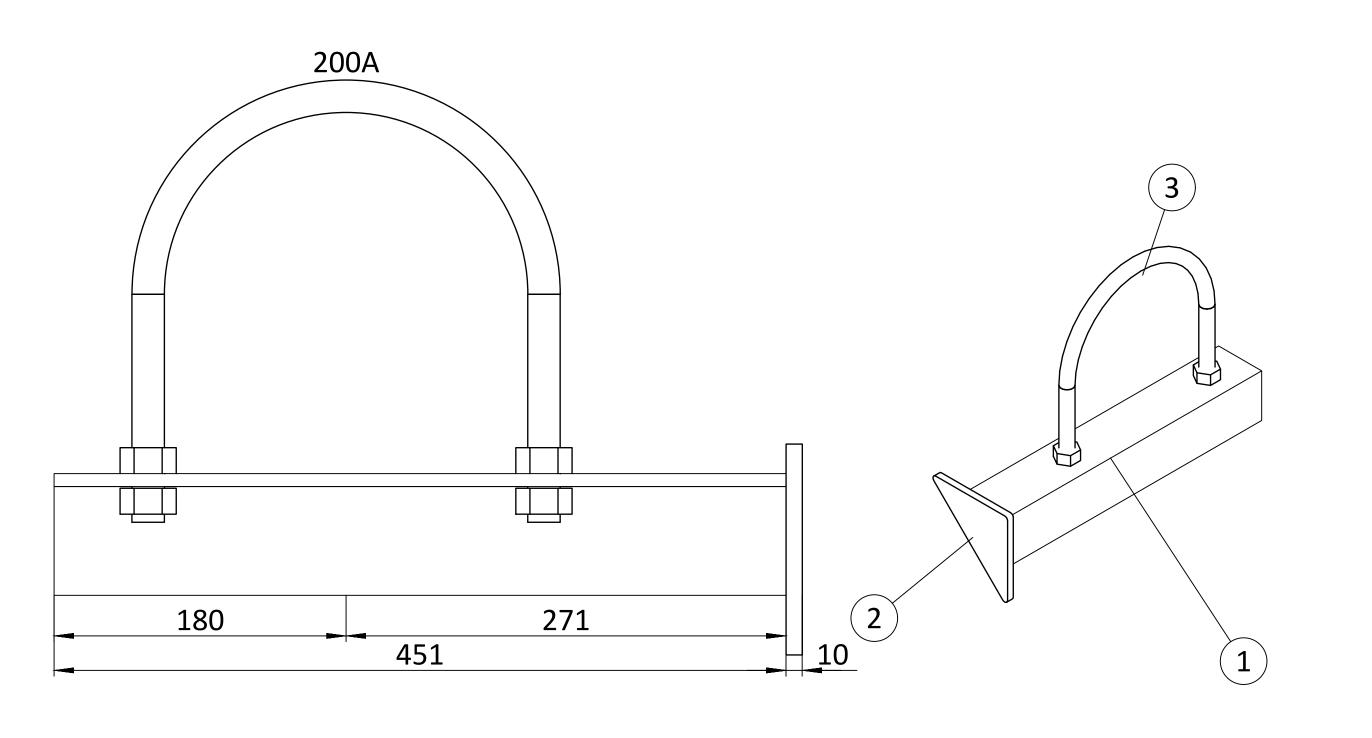
WEIGHT

REV.

7.565 Kg B

<sup>27</sup>

27



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					ANEOL					
					AN					
					CELI	3	U-Bolt with Double Nuts-(DN200)	Galv. Steel	1	2.90
1	L 75 x 75 x 8.0	Steel	451.0	4.05	MISC	2	Pad-(130 x 130 x 10)	Steel	1	0.61
PART NO.	DESCRIPTION	MATERIAL	LEN(mm)	WT(Kg)		PART NO.	DESCRIPTION	MATERIAL	QTY.	WT(Kg)