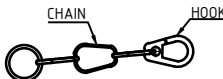


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DRAWING RELEASED WITHOUT PHYSICAL SIGNATURE NOT REQUIRED

GRADE No.
VALUE
SYMBOL
SURFACE
ROUGHNESS

- NOTES:
- BATTERY BOX SHALL CONFORM TO PTS DOC NO. GR/TD/4946
 - SAMPLE SHALL BE APPROVED BEFORE MASS PRODUCTION
 - SEALANT SHALL BE APPLIED AT ALL THE JOINTS
 - TOLERANCES FOR WELDED CONSTRUCTIONS SHALL BE AS PER ISO:13920
 - ITEM-22 SHALL BE OF STAINLESS STEEL MAKE, WITH LOWER END PERMANENT FIX TYPE.
 - APPROXIMATE WEIGHT OF THE BATTERY BOX = 265 kg
 - TIGHTENING TORQUE :
M5 = 5.1 nm
M8 = 21.4 nm

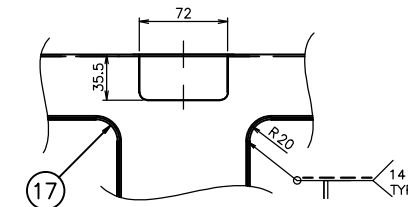
UNCONTROLLED



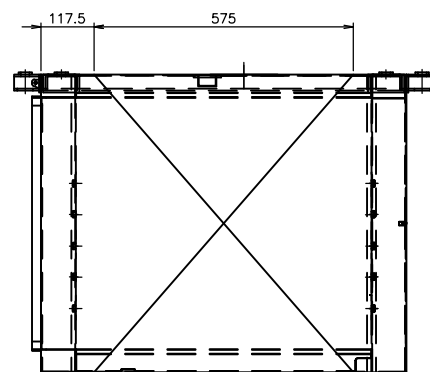
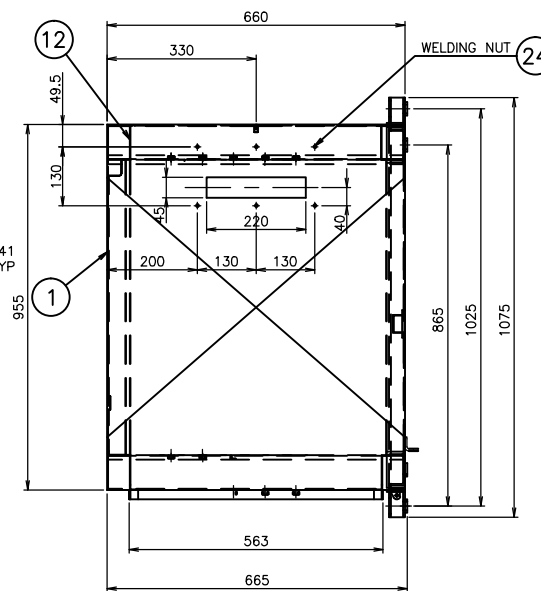
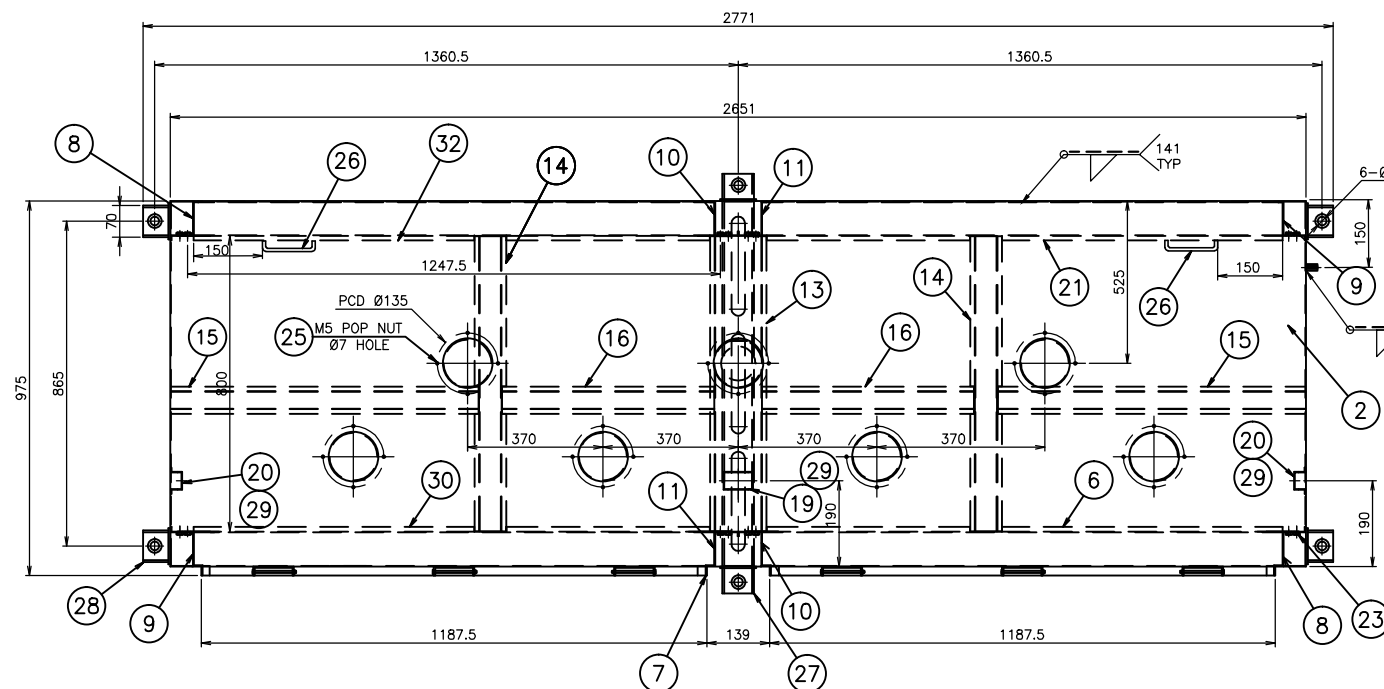
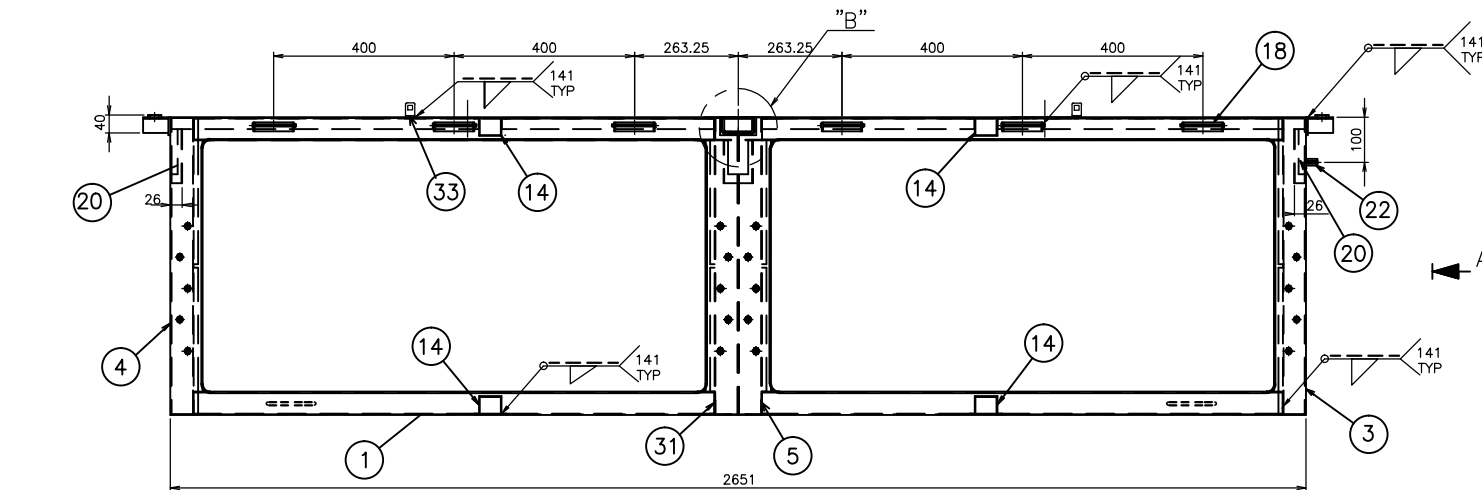
DETAIL-22

3		2						1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS		RANGE	0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000	ABOVE 4000	RA
TOLERANCE		±0.1	±0.2	±0.3	±0.5	±0.8	±12	±2	±3	~	
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227								QUALITY OF WELD JOINTS REF. RD 230 MEDIUM			
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (PT-1) (MEDIUM)								STATUS:			
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS. 1012.C								PRODUCTION			
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96											

3		2						1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS		RANGE	0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000	ABOVE 4000	RA
		TOLERANCE	+0.1	+0.2	+0.3	+0.5	+0.8	+1.2	+2	+3	~
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD RD-227											
UNSPECIFIED TOLERANCES FOR LINEAR AND ANGULAR DIMENSIONS ARE: ± 0.02 (PT-1) (MEDIUM)								QUALITY OF WELD JOINTS REF. RD. 230 MEDIUM			
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS. 1017.C								STATUS:			
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96											

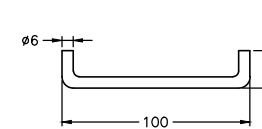


DETAIL-B

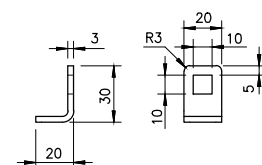


VIEW A

UNCONTROLLED



DETAIL -26

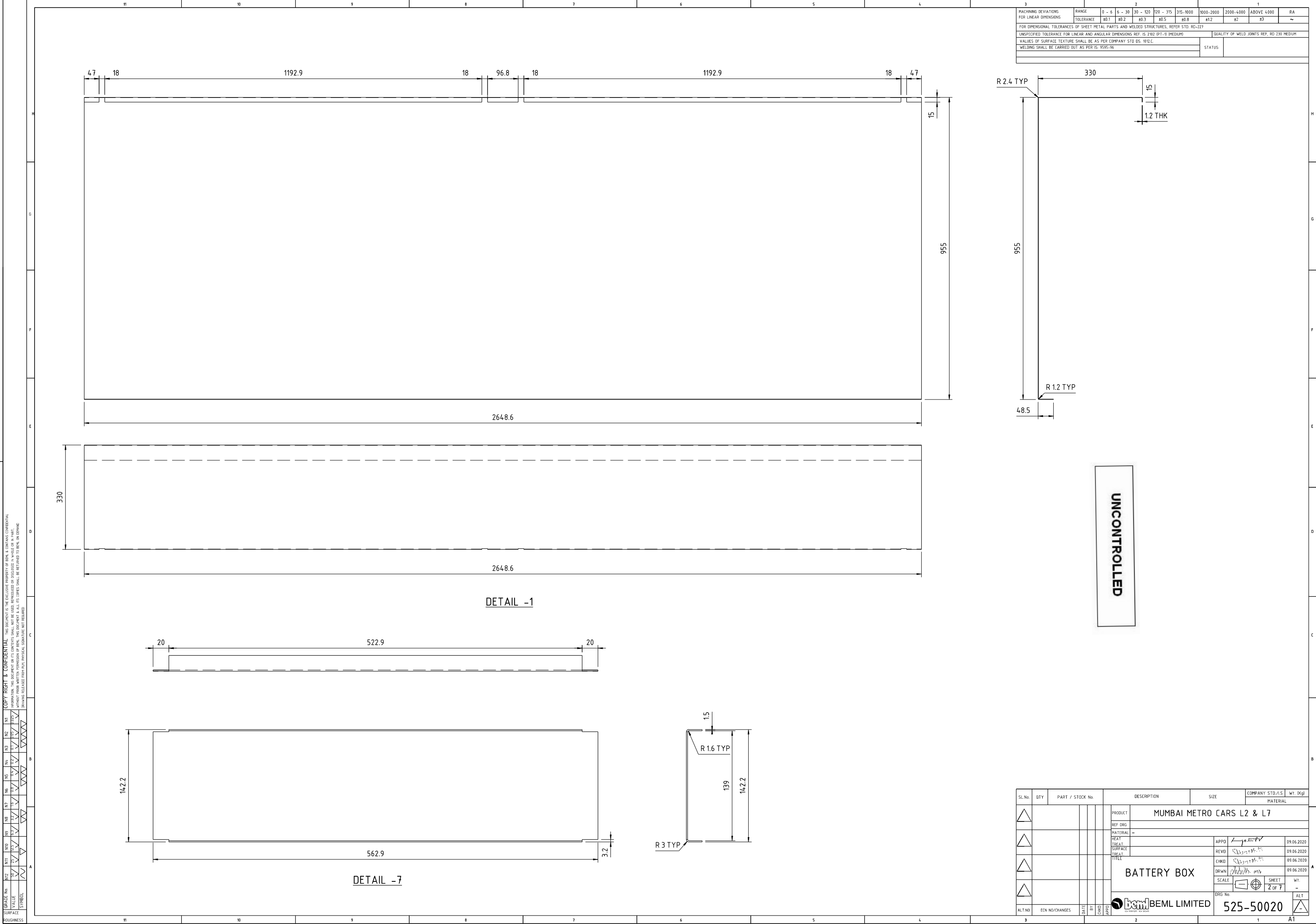


DETAIL -33

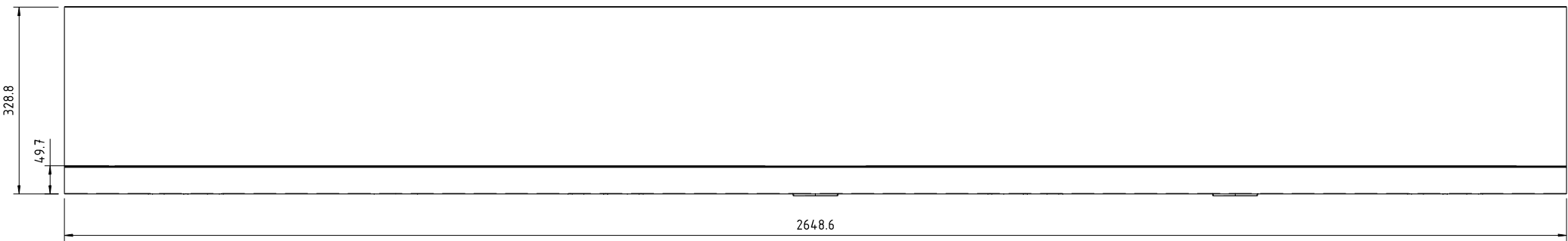
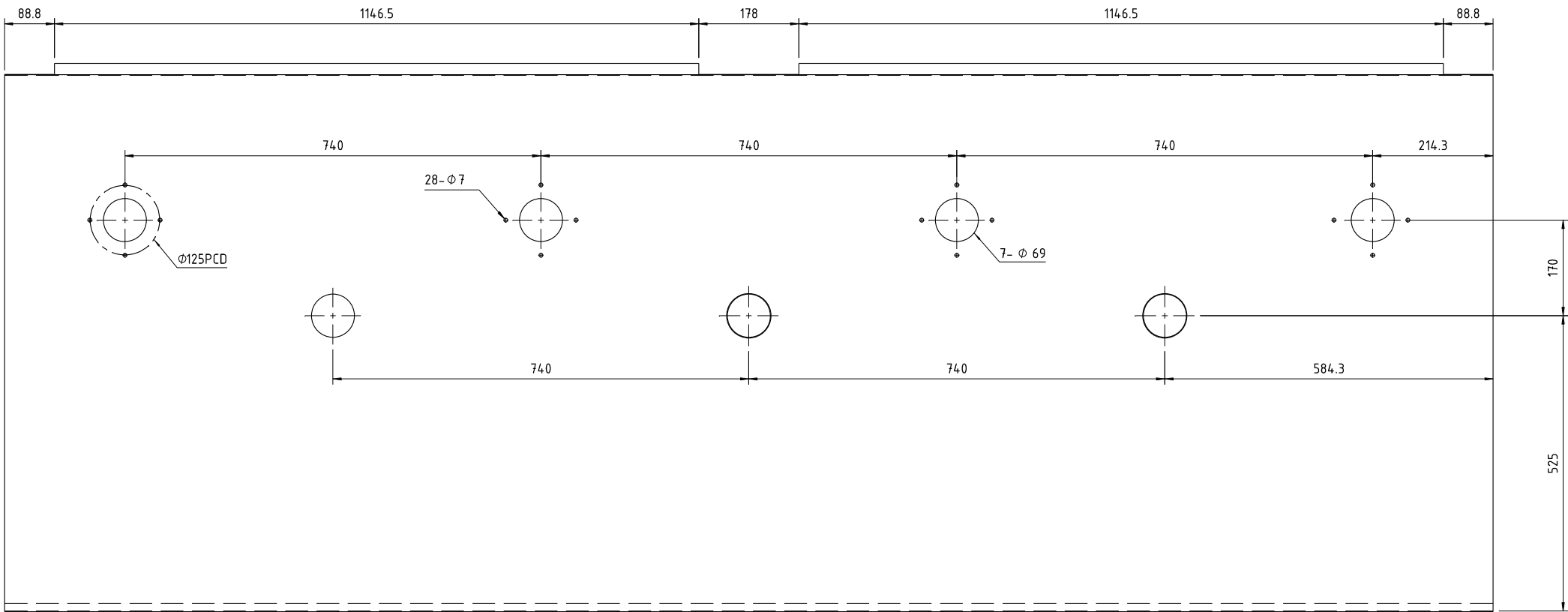
- NOTES:**
1. REMOVE ALL SHARP EDGES AND BURRS
 2. THIS PRODUCT IS WELDED ASSEMBLY
 2. WELD SYMBOLS: ACCORDING TO ISO 2553
 3. ALL WELDS SHALL BE PICKLED & PASSIVATED
 4. TOLERANCES FOR WELDED CONSTRUCTIONS SHALL BE AS PER ISO:13920

33	2	525-50020-33	CHAIN CLIT		3 THK	SUS304L / AISI304L- 2B FINISH		
32	1	525-50020-32	BRACKET		1.5 THK	SUS304L / AISI304L- 2B FINISH		
31	1	525-50020-31	BRACKET		1.5 THK	SUS304L / AISI304L- 2B FINISH		
30	1	525-50020-30	BRACKET		1.5 THK	SUS304L / AISI304L- 2B FINISH		
29	8		POP NUT			SS		
28	4	525-50110	FIXING BRACKET		ASSY			
27	2	525-50111	FIXING BRACKET		ASSY			
26	2		WIRE SUPPORT		100X20XØ6	SS		
25	24		POP NUT			SS		
24	6		HEX HEAD NUT		M6	IS-1364-(PART-3)-2002 /MATL IS-1367 (P-14)-B4,Gr-A2-70,SS		
23	40		HEX HEAD NUT		M8	IS-1364-(PART-3)-2002 /MATL IS-1367 (P-14) -B4, Gr-A2-70,SS		
22	1		EARTH PAD		Ø15X25	SUS304L / AISI304L- 2B FINISH		
21	1	525-50020-21	BRACKET		1.5 THK	SUS304L / AISI304L- 2B FINISH		
20	2	525-50020-20	DRAG CHAIN BRKT-2		1.5 THK	SUS304L / AISI304L- 2B FINISH		
19	1	525-50020-19	DRAG CHAIN BRKT-1		3 THK	SUS304L / AISI304L- 2B FINISH		
18	6	525-50020-18	HINGE BRACKET		3 THK	SUS304L / AISI304L- 2B FINISH		
17	8	525-50020-17	CORNER BRACKET		1.5 THK	SUS304L / AISI304L- 2B FINISH		
16	2	525-50020-16	BRACKET		1.5 THK	SUS304L / AISI304L- 2B FINISH		
15	2	525-50020-15	BRACKET		1.5 THK	SUS304L / AISI304L- 2B FINISH		
14	4	525-50020-14	BRACKET		1.5 THK	SUS304L / AISI304L- 2B FINISH		
13	1	525-50020-13	BRACKET		1.5 THK	SUS304L / AISI304L- 2B FINISH		
12	2	525-50020-12	BRACKET		1.5 THK	SUS304L / AISI304L- 2B FINISH		
11	2	525-50020-11	BRACKET		1.5 THK	SUS304L / AISI304L- 2B FINISH		
10	2	525-50020-10	BRACKET		1.5 THK	SUS304L / AISI304L- 2B FINISH		
9	2	525-50020-09	BRACKET		1.5 THK	SUS304L / AISI304L- 2B FINISH		
8	2	525-50020-08	BRACKET		1.5 THK	SUS304L / AISI304L- 2B FINISH		
7	1	525-50020-07	BRACKET		1.5 THK	SUS304L / AISI304L- 2B FINISH		
6	1	525-50020-06	BRACKET		1.5 THK	SUS304L / AISI304L- 2B FINISH		
5	1	525-50020-05	BRACKET		1.5 THK	SUS304L / AISI304L- 2B FINISH		
4	1	525-50020-04	SIDE PANEL-2		1.2 THK	SUS304L / AISI304L- 2B FINISH		
3	1	525-50020-03	SIDE PANEL-1		1.2 THK	SUS304L / AISI304L- 2B FINISH		
2	1	525-50020-02	TOP PANEL		1.2 THK	SUS304L / AISI304L- 2B FINISH		
1	1	525-50020-01	BOTTOM PANEL		1.2 THK	SUS304L / AISI304L- 2B FINISH		
SL.No.	QTY	PART / STOCK No.	DESCRIPTION		SIZE	COMPANY STD./S MATERIAL	Wt.(Kg)	
				PRODUCT	MUMBAI METRO CARS L2 & L7			
				REF DRG				
				MATERIAL				
				HEAT TREAT	APPO	PVG	12.06.2020	
				SURFACE TREAT	REVD	PVG	12.06.2020	
				TITLE	CHKD	DINESH	12.06.2020	
				BATTERY BOX	DRWN	LOHITH	12.06.2020	
					SCALE		SHEET	Wt.(Kg)
					NTS	1 OF 7		-
					DRG No.			ALT
ALT NO	ECN NO/CHANGES		DATE	BY	APPROVED	BEML LIMITED		
						525-50020		
							ALT	

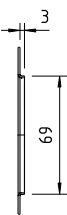
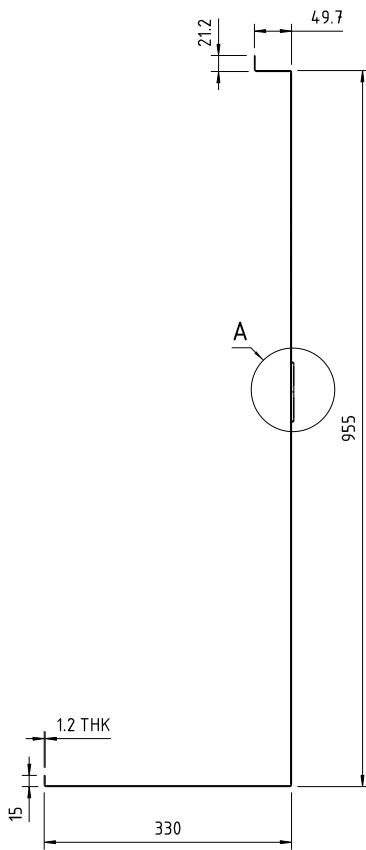
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MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	RANGE	2					1			RA
		0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000	ABOVE 4000	
TOLERANCE		±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	~
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RC-227										
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (PT-3) (MEDIUM)							QUALITY OF WELD JOINTS REF. RD 230 MEDIUM			
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS. 1012.C							STATUS:			
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										



DETAIL -2

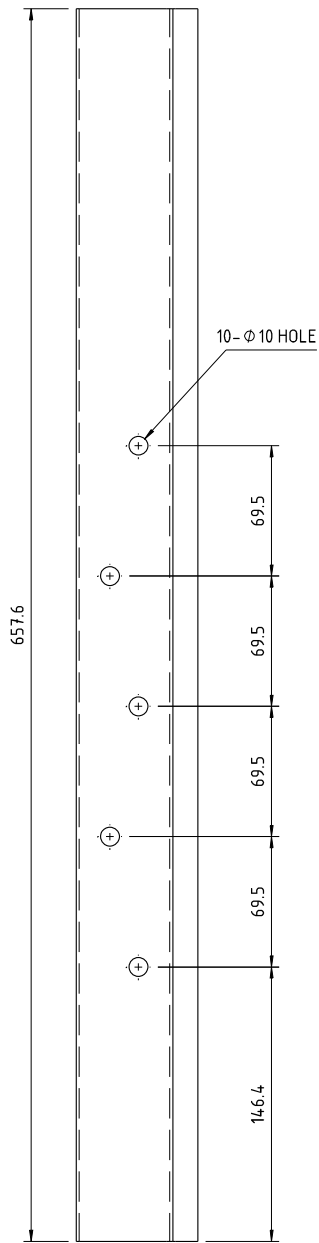
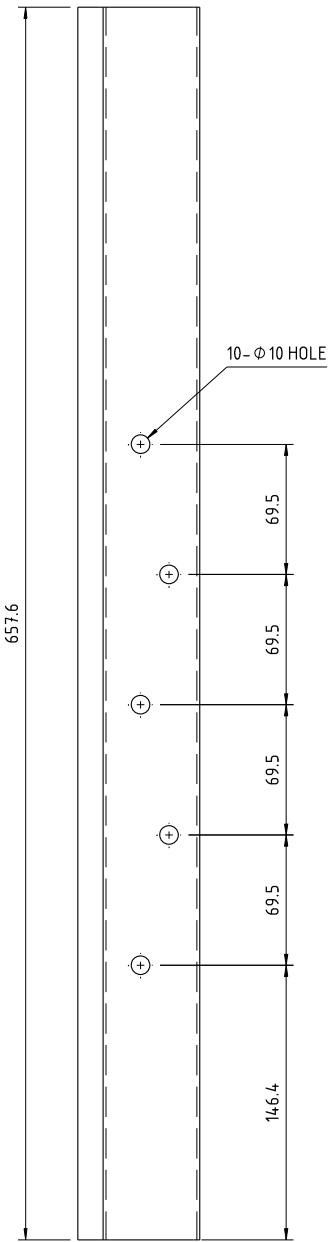
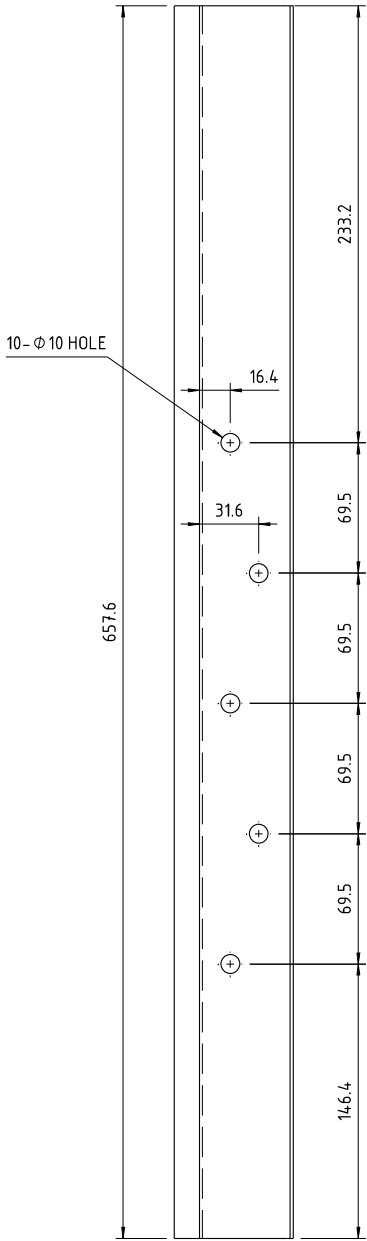
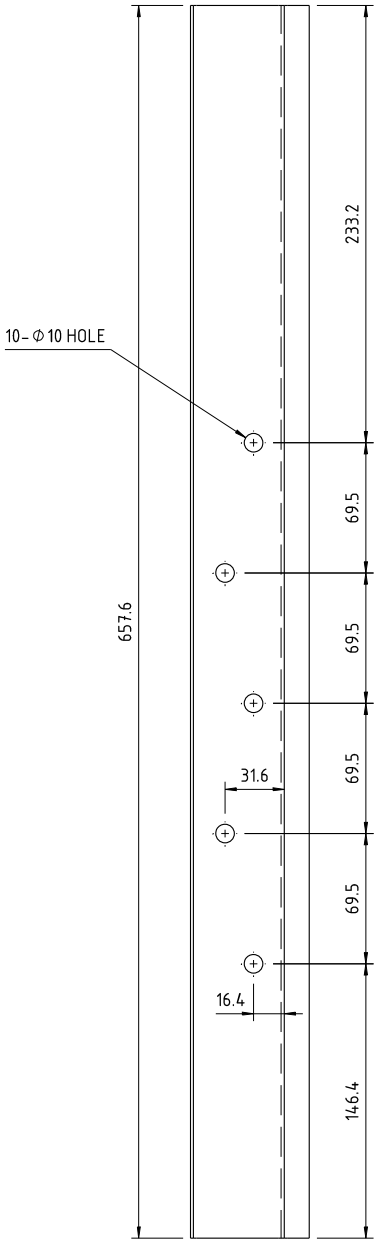


DETAIL-A

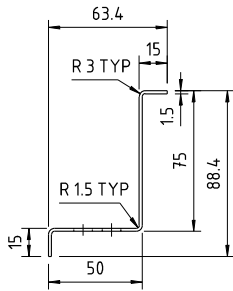
UNCONTROLLED

SL.No	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./IS	Wt. (Kg)
△			PRODUCT	MUMBAI METRO CARS L2 & L7		
			REF. ORG			
△			MATERIAL	-		
			HEAT TREAT			
△			APPRO	APPRO	09.06.2020	09.06.2020
			REV'D	REV'D	09.06.2020	09.06.2020
△			CHK'D	CHK'D	09.06.2020	09.06.2020
			DRWN	DRWN	09.06.2020	09.06.2020
△			SCALE	SCALE	3 OF 7	Wt.
			ALT	ALT	-	-
ALT.NO	ECN NO/CHANGES	DATE	BY	CHKD	APPRO	ALT
			BESL BEML LIMITED			525-50020
			3 OF 7			ALT

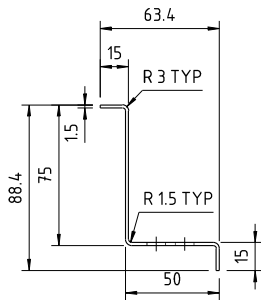
3		2					1				
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS		RANGE	0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000	ABOVE 4000	RA
TOLERANCE			±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	~
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227											
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (PT-1) (MEDIUM)								QUALITY OF WELD JOINTS REF. RD 230 MEDIUM			
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS. 1012.C								STATUS:			
WELDING SHALL BE CARRIED OUT AS PER IS 9595-96											



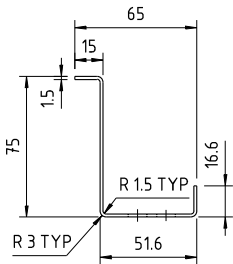
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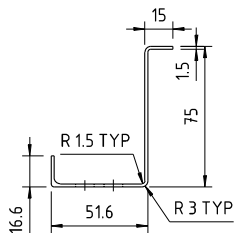
DETAIL -8



DETAIL -9



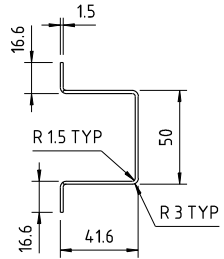
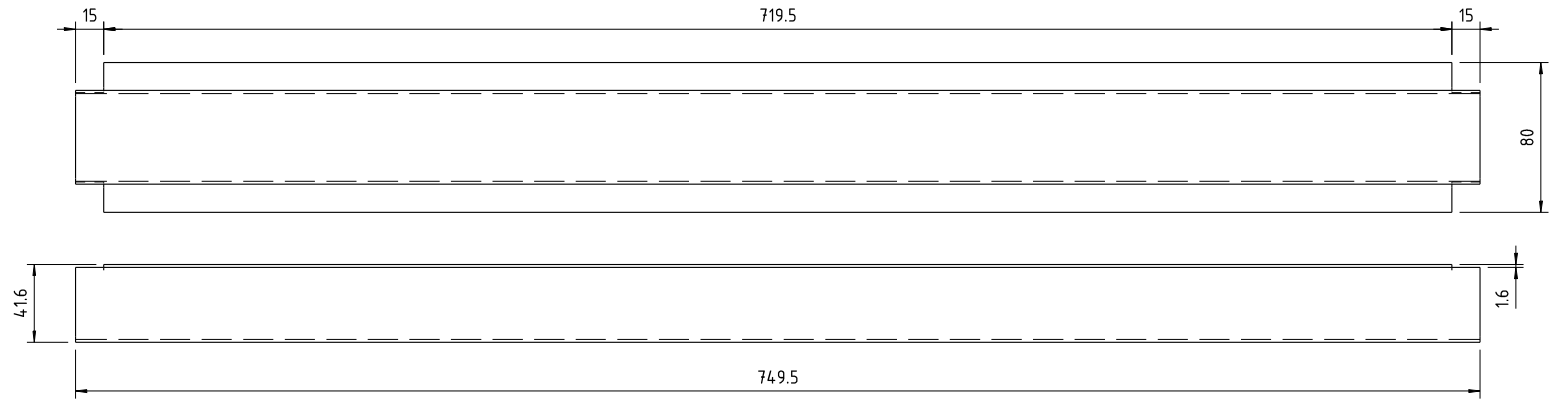
DETAIL -10



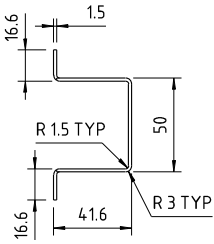
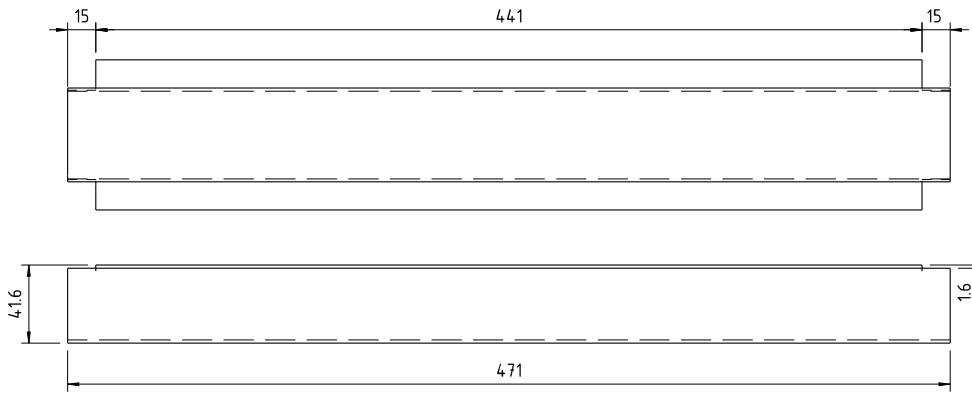
DETAIL -11

SL.No	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I/S	Wt. (Kg)
△			PRODUCT	MUMBAI METRO CARS L2 & L7		
			REF. DRG			
△			MATERIAL	-		
			HEAT TREAT			
△			APPRO	APPRO		
			REVD	REVD		
△			CHKD	CHKD		
			DRWN	DRWN		
△			SCALE	SCALE		
			SHEET	SHEET		
ALT.NO	ECN NO/CHANGES	DATE	BY	CHKD	APPRO	ALT
BOM BEML LIMITED					525-50020	

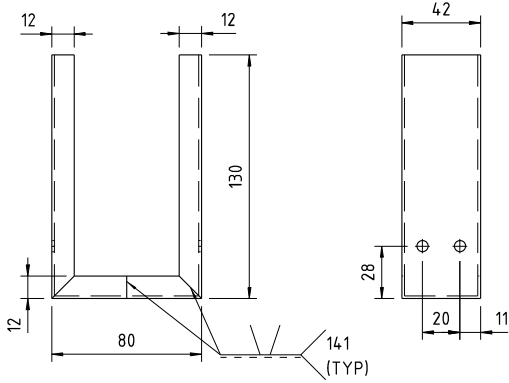
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	RANGE	2					1			RA
		0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000	ABOVE 4000	
TOLERANCE		±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	~
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RC-227										
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (PT-3) (MEDIUM)							QUALITY OF WELD JOINTS REF. RD 230 MEDIUM			
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS-1012.C							STATUS:			
WELDING SHALL BE CARRIED OUT AS PER IS-9595-96										



DETAIL -15

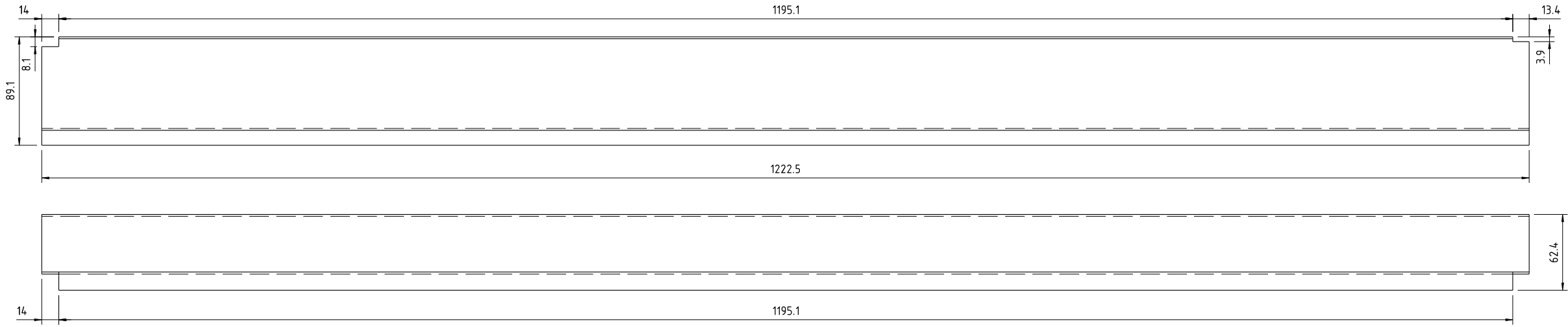


DETAIL -16

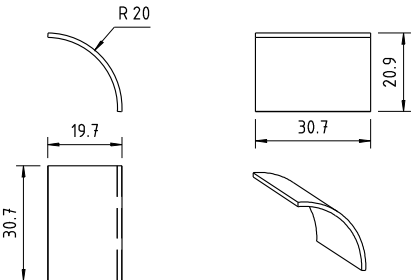
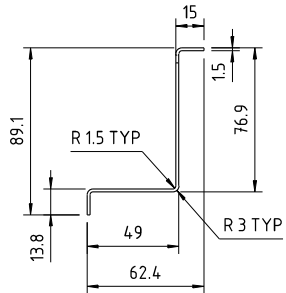


DETAIL -19

UNCONTROLLED

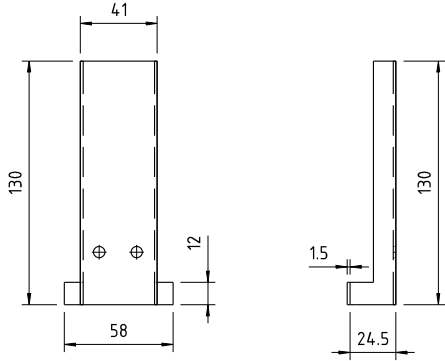


DETAIL -21

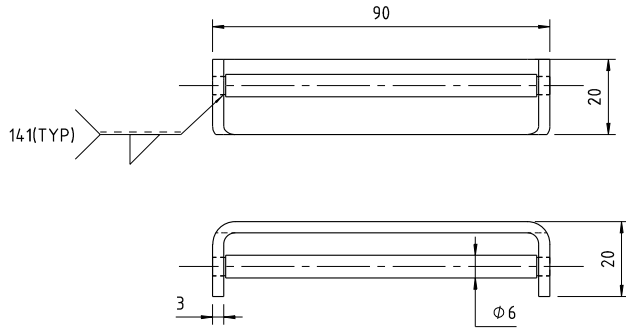


ISOMETRIC VIEW

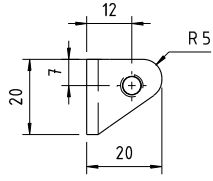
DETAIL -17








DETAIL -20



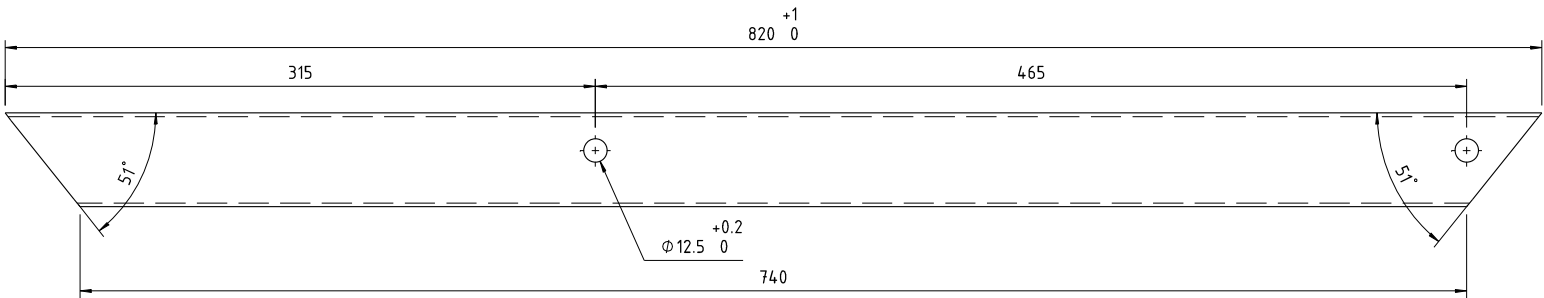
DETAIL -18



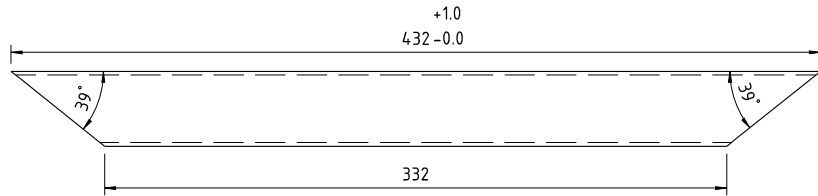
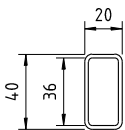
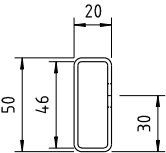
SL.No.	QTY	PART / STOCK No.			DESCRIPTION	SIZE	COMPANY STD./IS		Wt. (Kg)
△					PRODUCT	MUMBAI METRO CARS L2 & L7			
					REF. SRC.				
△					MATERIAL	-			
					HEAT TREAT SURFACE TREAT TITLE				
△					BATTERY BOX	APPD		09.06.2020	
						REVD		09.06.2020	
△					BATTERY BOX	CHKD		09.06.2020	
						DRWN		09.06.2020	
△					BATTERY BOX	SCALE		SHEET	Wt.
							7 of 7	-	-
BOM BOM LIMITED						DRG No.	525-50020		ALT
ALT NO	ECN NO/CHANGES			DATE	BY	CHKD	APPD	A1	

3			2			1						
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS			RANGE	0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000	ABOVE 4000	RA
TOLERANCE			±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	±3	~
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227												
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF IS 202 (PT-1) (MEDIUM)										QUALITY OF WELD JOINTS REF. RD 230 MEDIUM		
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD. 05. 101.C										STATUS		
WELDING SHALL BE CARRIED OUT AS PER IS 9595-96												

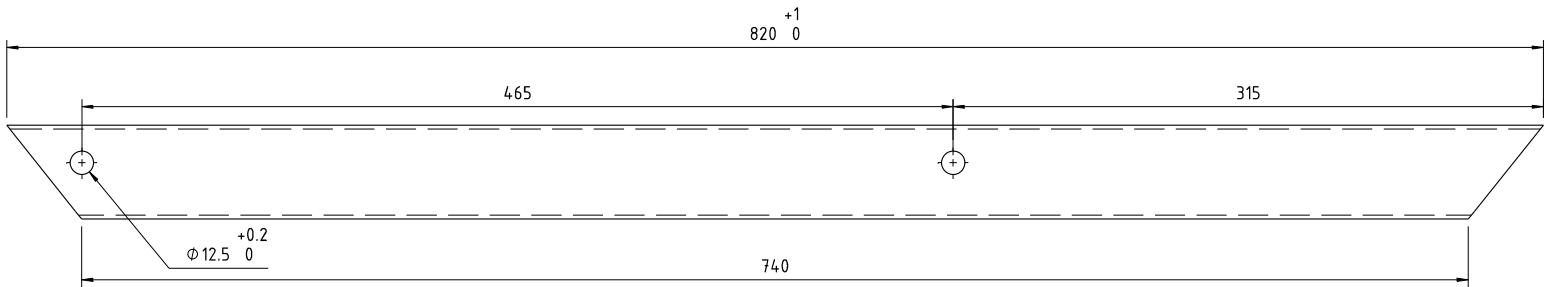
3		2					1				
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS		RANGE	0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000	ABOVE 4000	RA
		TOLERANCE	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	~
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RC-227											
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (PT-II) (MEDIUM)								QUALITY OF WELD JOINTS REF. RD 230 MEDIUM			
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS. 1012.C								STATUS:			
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96											



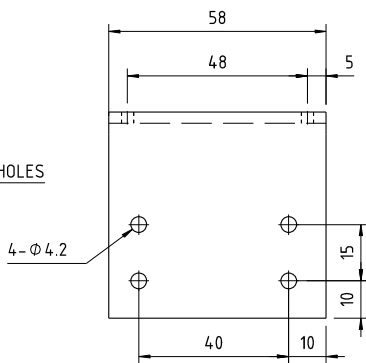
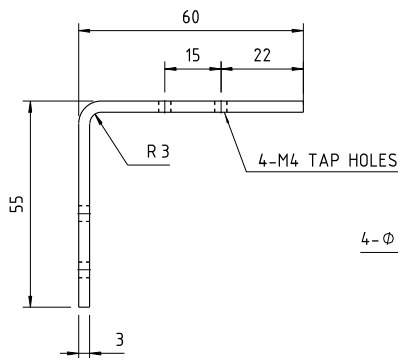
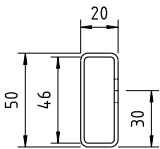
DETAIL - 1
(SCALE 1:2)



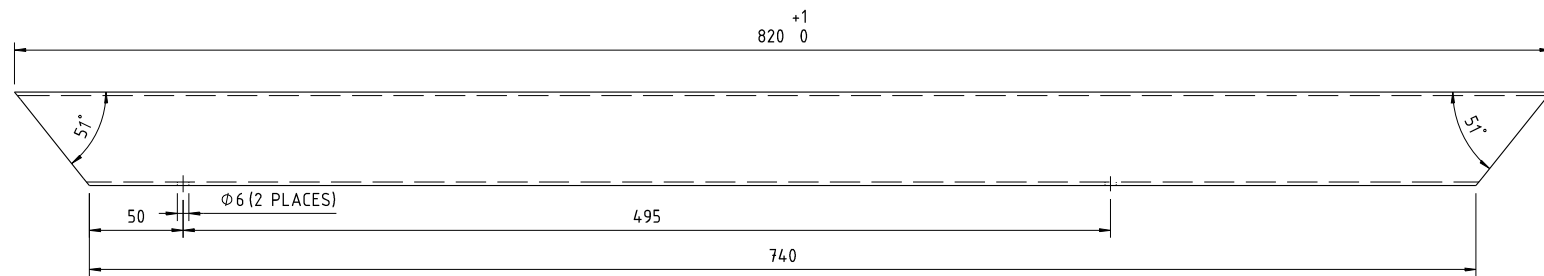
DETAIL - 4
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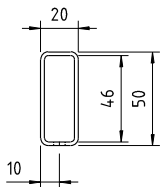
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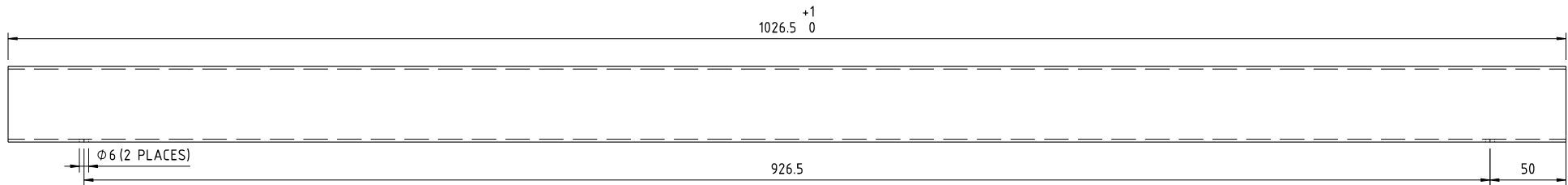
DETAIL - 10
(SCALE 1:1)



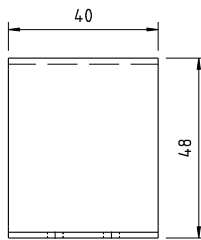
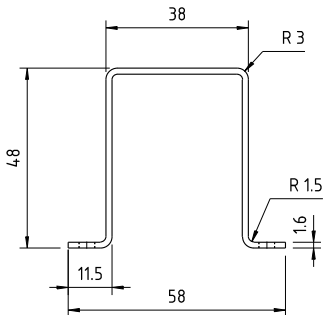
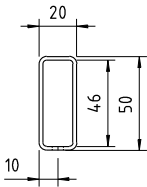
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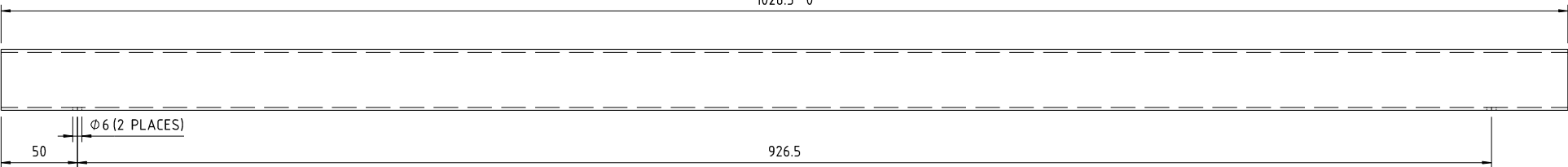
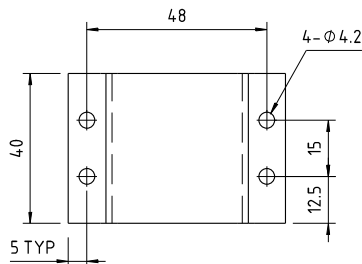
UNCONTROLLED



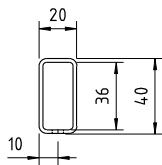
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(SCALE 1:2)



DETAIL - 11
(SCALE 1:1)



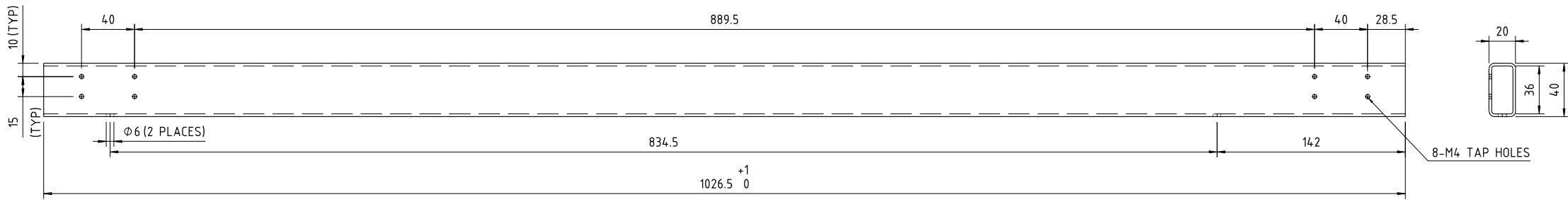
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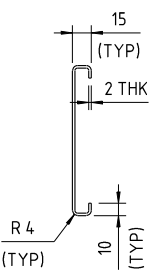
SL.No	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./IS	Wt. (Kg)
△			PRODUCT	MUMBAI METRO CARS L2 & L7		
			REF. ORG			
△			MATERIAL			
			HEAT TREAT			
△			REVD			
			CHKD			
△			DRWN			
			SCALE			
△			TITLE	TRAILER ASSY		
			SCALE			
ALT.NO	ECN NO/CHANGES	DATE	BY	CHKD	APPR	
BOM BEML LIMITED						525-50021
SHEET 2 OF 3						ALT

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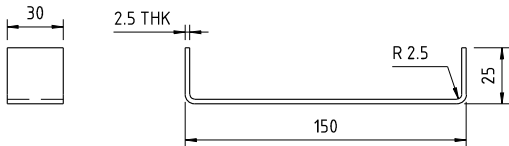
11 10 9 8 7 6 5 4 3 2 1 A1



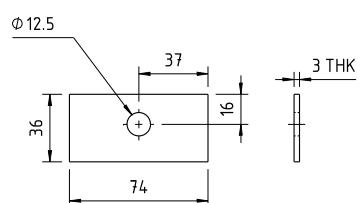
DETAIL - 7
(SCALE 1:2)



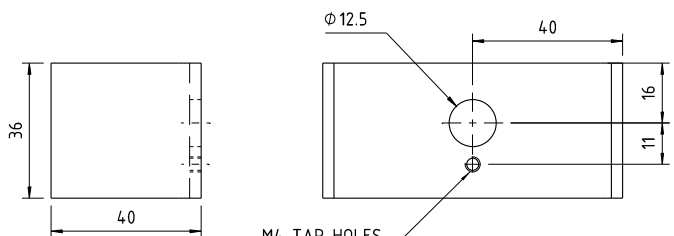
DETAIL - 8
(SCALE 1:3)



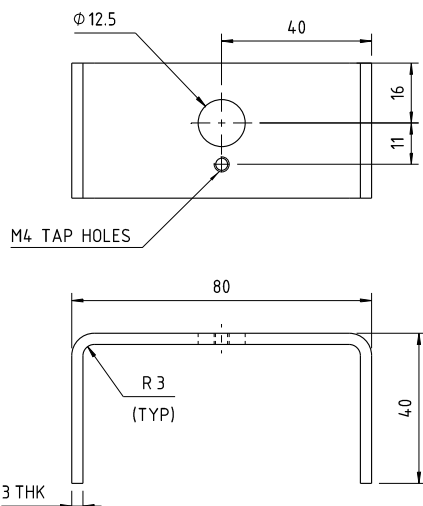
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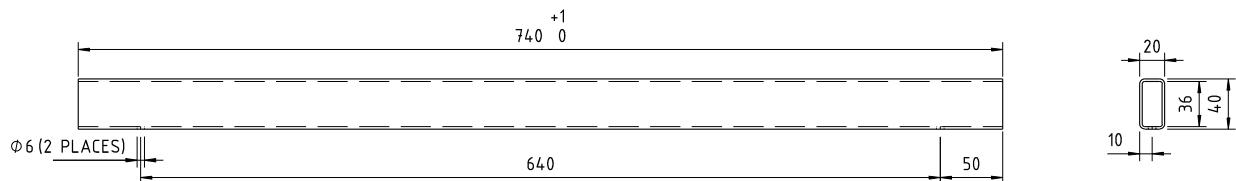
DETAIL - 17
(SCALE 1:2)



DETAIL - 18
(SCALE 1:1)



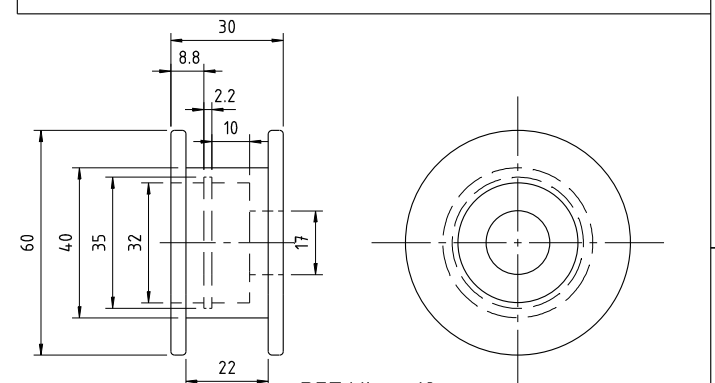
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(SCALE 1:1)



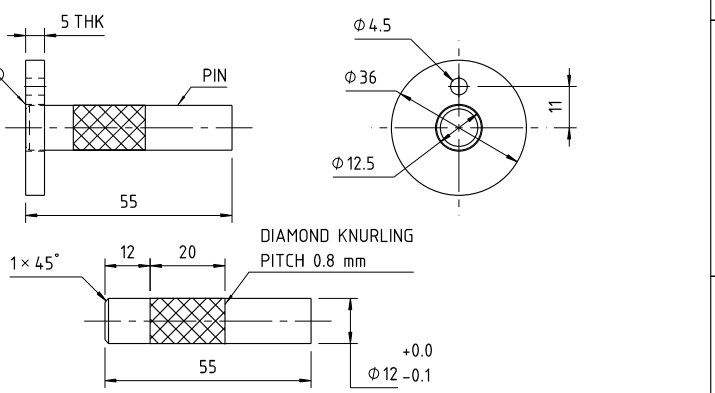
DETAIL - 9
(SCALE 1:5)

DETAIL - 22
(SCALE 1:3)

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	RANGE	0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000	ABOVE 4000	RA
TOLERANCE		±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	~
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227										
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (PT-3) (MEDIUM)										
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS-1012.C										
WELDING SHALL BE CARRIED OUT AS PER IS-9595-96										
STATUS:										



DETAIL - 12
(SCALE 1:1)



DETAIL - 13
(SCALE 1:1)

SL.No	QTY	PART / STOCK No	DESCRIPTION	SIZE	MATERIAL
24	2	525-50021-24	SUPPORT SHEET	203X1025X0.8THK	SUS304L / AISI304L -2B FINISH
23	2	525-50021-23	SUPPORT SHEET	203X708X0.8THK	SUS304L / AISI304L -2B FINISH
22	2	525-50021-22	RECT. TUBE(40X20X2)	L=740	SUS304L / AISI304L -2B FINISH
21	16	RFS7620410	CR PAN HEAD SCREW	M4X10	IS:7483/ MATL : ISO:3506-79, Gr-A2-70,SS
20	1	525-50021-20	FRONT MID HANDLE	80X20X2.5THK	SUS304L / AISI304L -2B FINISH
19	1	525-50021-19	BOTTOM HANDLE	190X30X2.5THK	SUS304L / AISI304L -2B FINISH
18	4	525-50021-18	ROLLER BRKT COVER	148X36X3THK	SUS304L / AISI304L -2B FINISH
17	4	525-50021-17	ROLLER BRKT PLATE	74X36X3THK	SUS304L / AISI304L -2B FINISH
16	4	-	CIRCLIP	ID Ø34	-
15	4	-	BEARING	6201ZZ	ASSY
14	4	RFS6640410	SLOTTED CSK HEAD SCREW	M4X10	IS: 1365 TYPE-A / IS 1367(P-14), GR-A2-71
13	4	525-50021-13	ROLLER PIN	Ø12XL55	SUS304L / AISI304L -2B FINISH
12	4	525-50021-12	ROLLER	Ø60XL30	SUS304L / AISI304L -2B FINISH
11	2	525-50021-11	CHAIN CLAMP	144X40X1.6THK	SUS304L / AISI304L -2B FINISH
10	2	525-50021-10	BRACKET	110X58X3THK	SUS304L / AISI304L -2B FINISH
9	1	525-50021-09	BOTTOM SHEET	1026x780	SUS304L / AISI304L -2B FINISH
8	4	525-50021-08	BOTTOM SUPPORT BRKT	L=1026.5	SUS304L / AISI304L -2B FINISH
7	1	525-50021-07	RECT.TUBE(40X20X2)	L=1026.5	SUS304L / AISI304L -2B FINISH
6	2	525-50021-06	RECT.TUBE(40X20X2)	L=1026.5	SUS304L / AISI304L -2B FINISH
5	2	525-50021-05	RECT.TUBE(50X20X2)	L=1026.5	SUS304L / AISI304L -2B FINISH
4	4	525-50021-04	RECT.TUBE(40X20X2)	L=432	SUS304L / AISI304L -2B FINISH
3	2	525-50021-03	RECT.TUBE(50X20X2)	L=820	SUS304L / AISI304L -2B FINISH
2	1	525-50021-02	RECT.TUBE(50X20X2)	L=820	SUS304L / AISI304L -2B FINISH
1	1	525-50021-01	RECT.TUBE(50X20X2)	L=820	SUS304L / AISI304L -2B FINISH

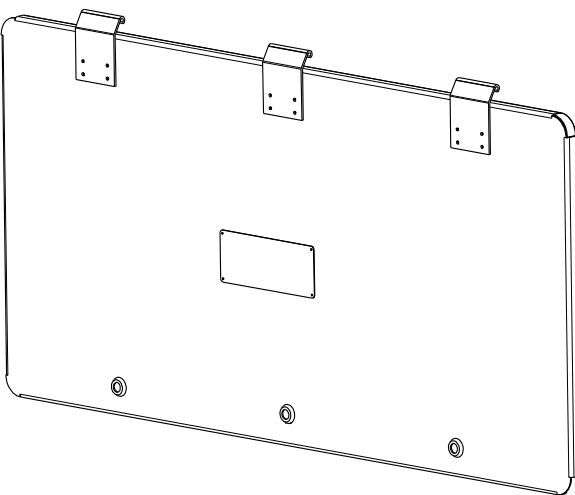
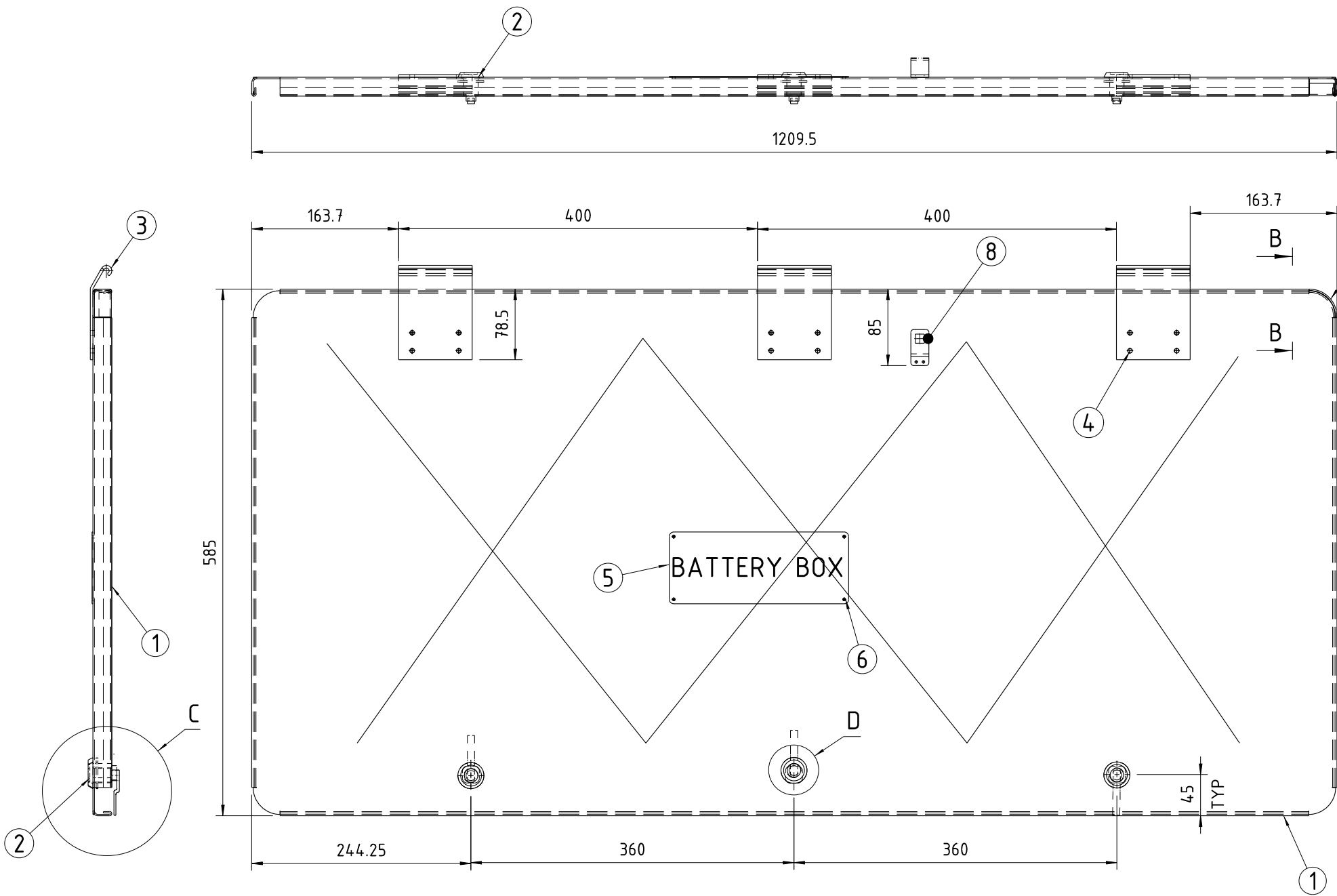
SL.No	QTY	PART / STOCK No	DESCRIPTION	SIZE	MATERIAL
1	1	525-50021-01	RECT.TUBE(50X20X2)	L=820	SUS304L / AISI304L -2B FINISH
2	1	525-50021-02	RECT.TUBE(50X20X2)	L=820	SUS304L / AISI304L -2B FINISH
3	2	525-50021-03	RECT.TUBE(50X20X2)	L=820	SUS304L / AISI304L -2B FINISH
4	4	525-50021-04	RECT.TUBE(40X20X2)	L=432	SUS304L / AISI304L -2B FINISH
5	2	525-50021-05	RECT.TUBE(50X20X2)	L=1026.5	SUS304L / AISI304L -2B FINISH
6	2	525-50021-06	RECT.TUBE(40X20X2)	L=1026.5	SUS304L / AISI304L -2B FINISH
7	1	525-50021-07	RECT.TUBE(40X20X2)	L=1026.5	SUS304L / AISI304L -2B FINISH
8	4	525-50021-08	BOTTOM SUPPORT BRKT	L=1026.5	SUS304L / AISI304L -2B FINISH
9	1	525-50021-09	BOTTOM SHEET	1026x780	SUS304L / AISI304L -2B FINISH
10	2	525-50021-10	BRACKET	110X58X3THK	SUS304L / AISI304L -2B FINISH
11	2	525-50021-11	CHAIN CLAMP	144X40X1.6THK	SUS304L / AISI304L -2B FINISH
12	4	525-50021-12	ROLLER	Ø60XL30	SUS304L / AISI304L -2B FINISH
13	4	525-50021-13	ROLLER PIN	Ø12XL55	SUS304L / AISI304L -2B FINISH
14	4	RFS6640410	SLOTTED CSK HEAD SCREW	M4X10	IS: 1365 TYPE-A / IS 1367(P-14), GR-A2-71
15	4	-	BEARING	6201ZZ	ASSY
16	4	-	CIRCLIP	ID Ø34	-
17	4	525-50021-17	ROLLER BRKT PLATE	74X36X3THK	SUS304L / AISI304L -2B FINISH
18	4	525-50021-18	ROLLER BRKT COVER	148X36X3THK	SUS304L / AISI304L -2B FINISH
19	1	525-50021-19	BOTTOM HANDLE	190X30X2.5THK	SUS304L / AISI304L -2B FINISH
20	1	525-50021-20	FRONT MID HANDLE	80X20X2.5THK	SUS304L / AISI304L -2B FINISH
21	16	RFS7620410	CR PAN HEAD SCREW	M4X10	IS:7483/ MATL : ISO:3506-79, Gr-A2-70,SS
22	2	525-50021-22	RECT. TUBE(40X20X2)	L=740	SUS304L / AISI304L -2B FINISH
23	2	525-50021-23	SUPPORT SHEET	203X708X0.8THK	SUS304L / AISI304L -2B FINISH
24	2	525-50021-24	SUPPORT SHEET	203X1025X0.8THK	SUS304L / AISI304L -2B FINISH

11 10 9 8 7 6 5 4 3 2 1 A1

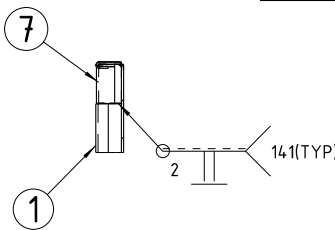
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DRAWING RELEASED FROM PPL, PHYSICAL SIGNATURE NOT REQUIRED

GRADE No.	VALUE	SYMBOL
N1	0.025	▽
N2	0.05	▽
N3	0.1	▽
N4	0.2	▽
N5	0.4	▽
N6	0.8	▽
N7	1.6	▽
N8	3.2	▽
N9	6.3	▽
N10	12.5	▽
N11	25	▽
N12	50	▽
SURFACE ROUGHNESS		

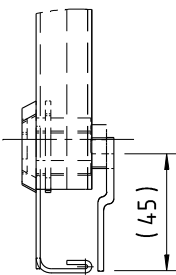
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	RANGE	0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000	ABOVE 4000	RA
	TOLERANCE	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	~
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227							QUALITY OF WELD JOINTS REF. RD 230 MEDIUM			
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (PT-1) (MEDIUM)							VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS. 1012.C.			
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96							STATUS: MOCKUP/PROTO/PRODUCTION			



ISOMETRIC VIEW



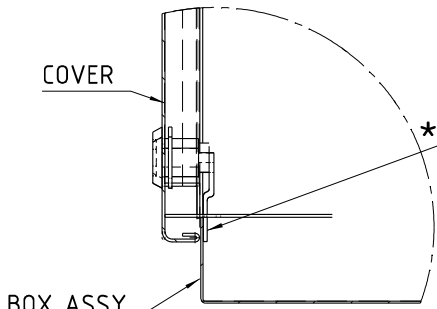
SECTION B-B



DETAIL - C

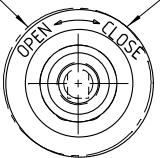
UNCONTROLLED

- NOTES:
1. WELDING SYMBOLS : ACCORDING ISO:2553
 2. REMOVE ALL SHARP EDGES AND BURRS
 - * 3. PAWL OF THE LOCK ASSY SHALL FIRMLY GRIP AGAINST WALL OF THE BATTERY BOX BRACKET.
 4. ALL WELDS SHALL BE PICKLED & PASSIVATED.
 5. TOLERANCES FOR WELDED CONSTRUCTIONS SHALL BE AS PER ISO:13920
 6. ALUMINIUM PARTS SHALL BE ANODISED TO GRADE AC25 OF IS:1868
 - # 7. LOCK OPEN-CLOSE POSITION MARKING SHALL BE ENGRAVED
 8. POINTED AREA ON THE ITEM-3 & 5 SHALL BE PAINTED ACCORDING TO PAINTING SPECIFICATION DOC GR-TD-4390



LOCKING DETAILS

REFER NOTE -5



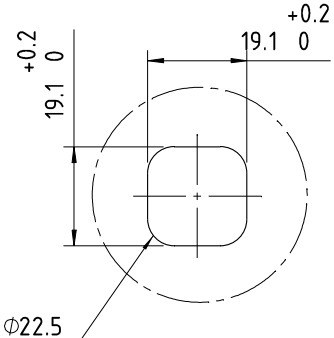
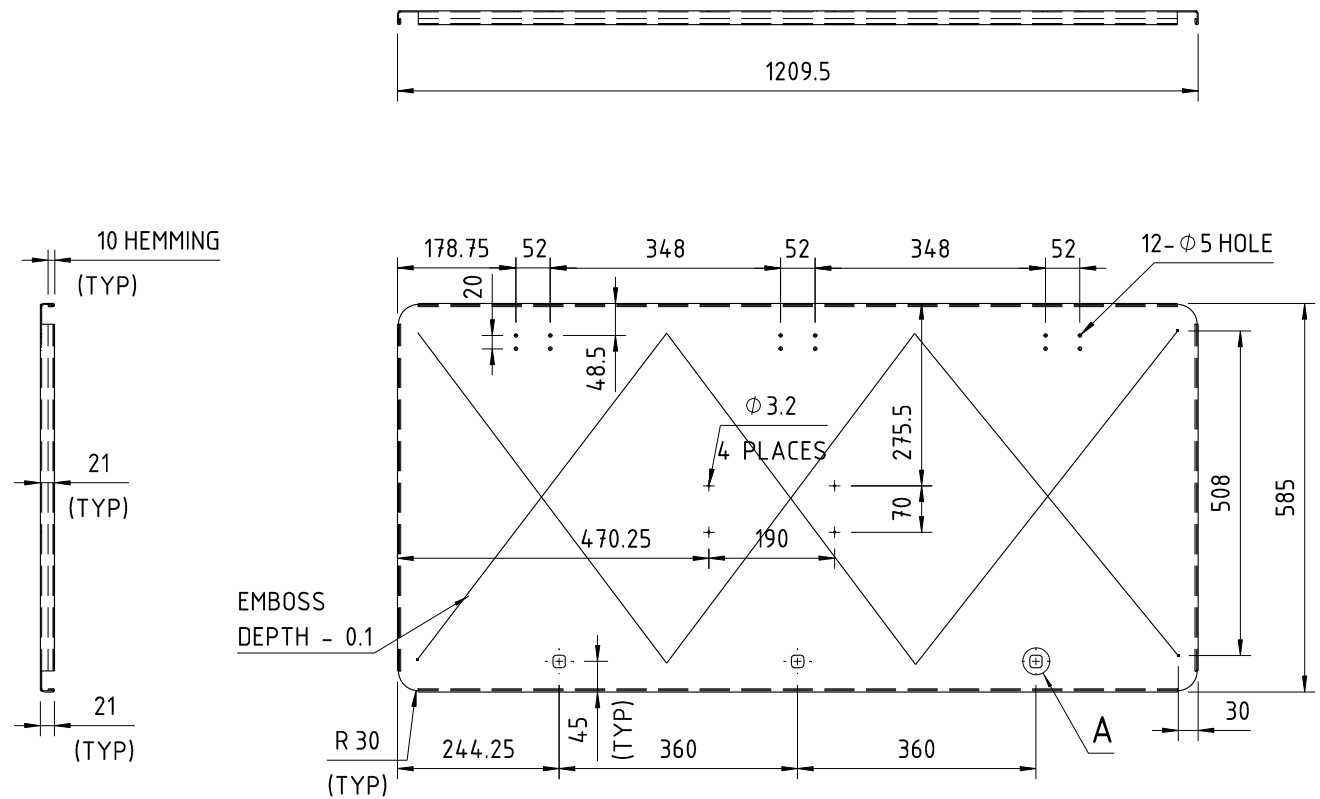
DETAIL-D

SL.No.	QTY	PART / STOCK No.				DESCRIPTION	SIZE	COMPANY STD./I.S		Wt. (Kg)	
								MATERIAL			
△						PRODUCT	MUMBAI METRO CARS L2 & L7				
						REF DRG					
△						MATERIAL	-				
						HEAT TREAT.	APPD			29.05.2020	
						SURFACE TREAT.	REVD			29.05.2020	
△						TITLE	CHKD			29.05.2020	
						COVER ASSY	DRWN			29.05.2020	
△							SCALE				
								SHEET	Wt.		
△								1 OF 2	4 Kg		
ALT.NO.	ECN NO/CHANGES				DATE	BY	CHKD	APPD	DRG No.		ALT
									525-50022		△ -
								BEML LIMITED			

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GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12
VALUE	0.05	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
SYMBOL												
SURFACE ROUGHNESS												

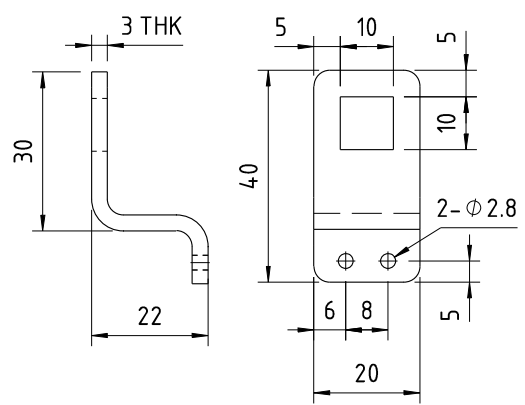
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	RANGE	0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000	ABOVE 4000	RA
	TOLERANCE	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	~
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227										
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (PT-1) (MEDIUM)							QUALITY OF WELD JOINTS REF. RD 230 MEDIUM			
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS. 1012.C.							STATUS:	MOCKUP/PROTO/PRODUCTION		
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										



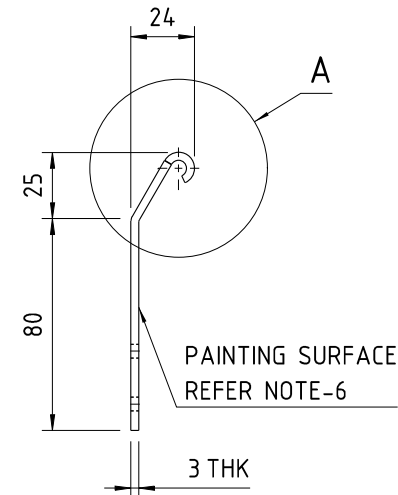
DETAIL - 1
(SCALE 1:8)

DETAIL-A

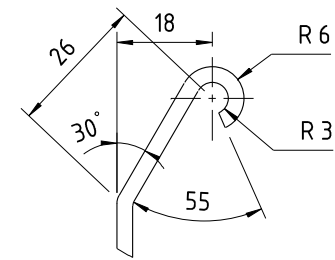
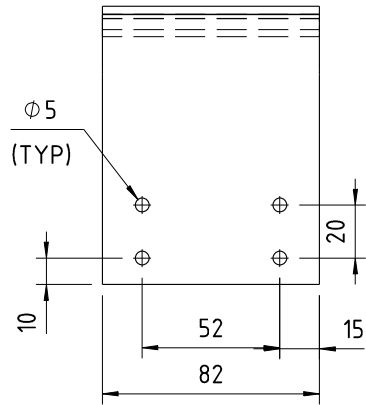
UNCONTROLLED



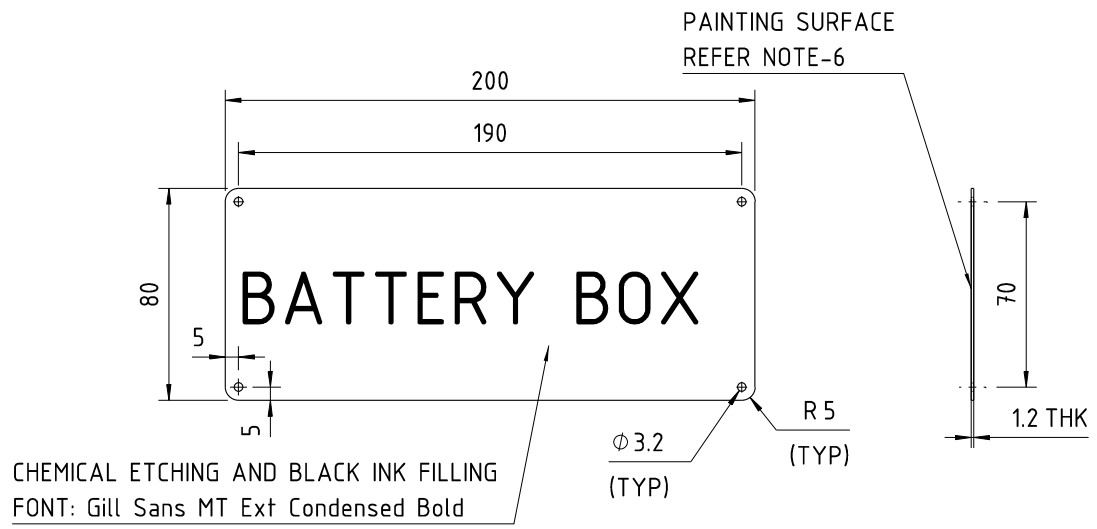
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SCALE 1:1



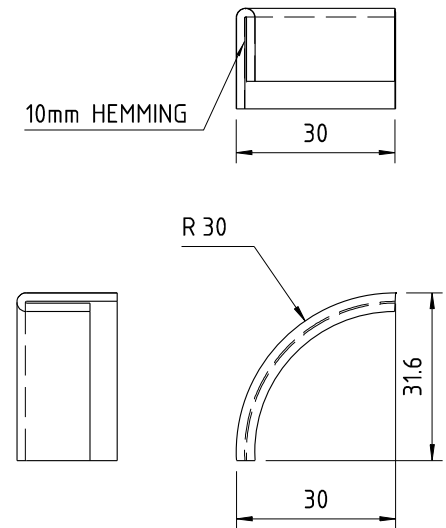
DETAIL - 3
(SCALE 1:2)



DETAIL A



DETAIL - 5
(SCALE 1:2)

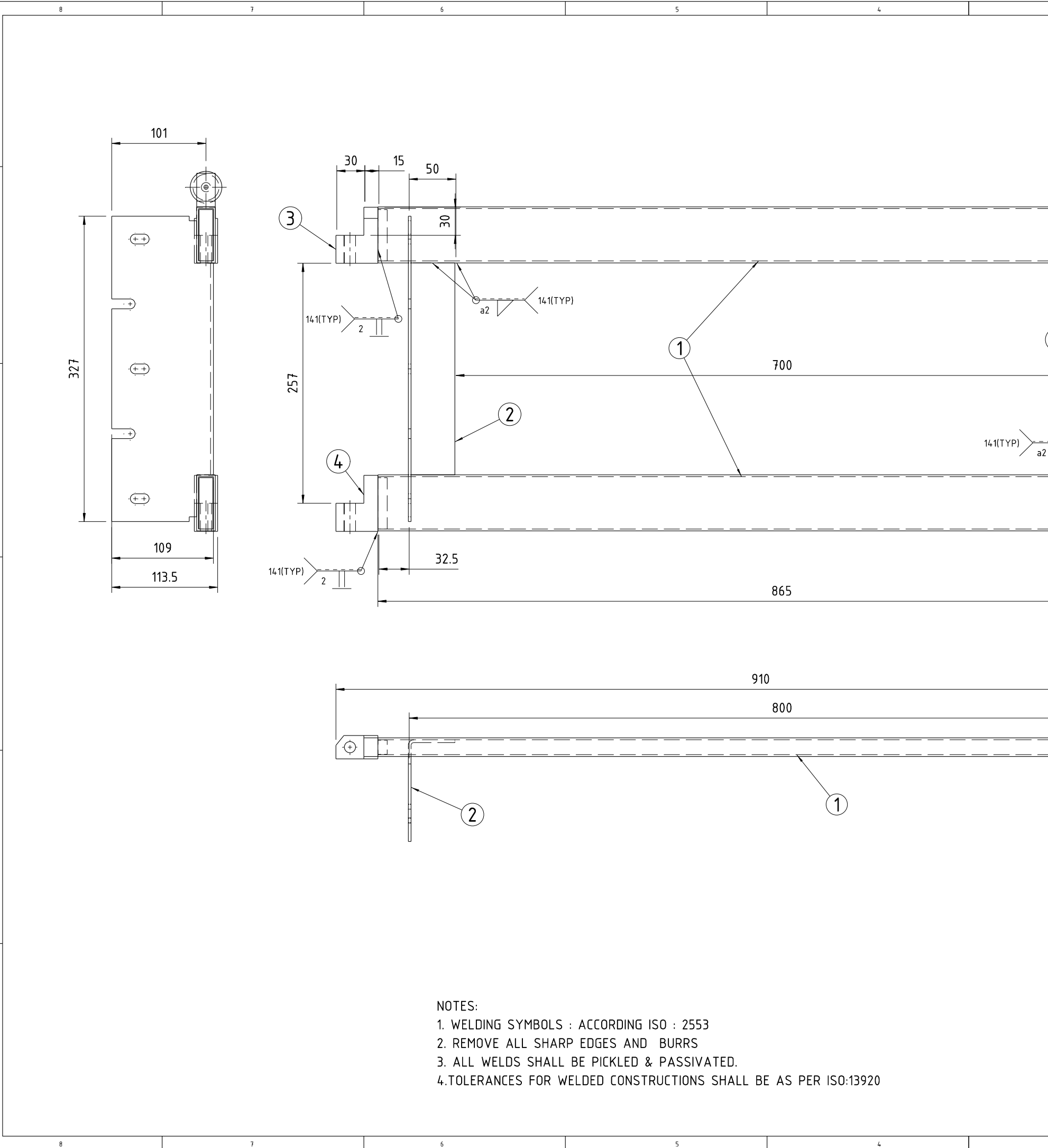


DETAIL - 7
(SCALE 1:1)

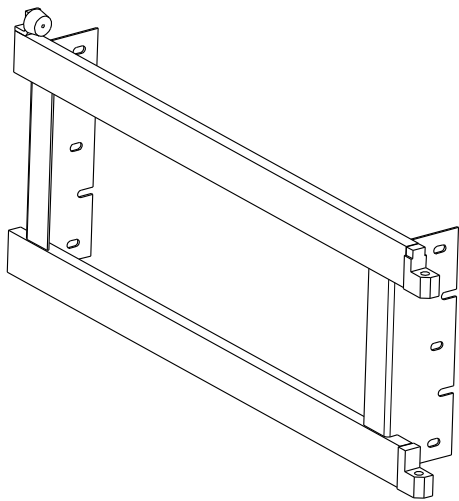
8	1	525-50022-08	CHAIN CLIT	T = 3	SUS304L/AISI304L	
7	4	525-50022-07	CORNER BRACKET	T = 1.6	AL- A5052-ASTM B209M / Gr- 52000 IS:737	
6	4	525-50022-06	RIVET	Ø3	SS	
5	1	525-50022-05	NAME PLATE	T = 1.2	SUS304L/AISI304L	
4	12	525-50022-04	RIVET	Ø5	SS	
3	3	525-50022-03	BRACKET	T = 3	SUS304L/AISI304L	
2	3	525-50022-02	LOCKING ASSY	DIRAK/SOUTHCO	ASSY-AISI 304	
1	1	525-50022-01	COVER	T = 2	AL- A5052-ASTM B209M / Gr- 52000 IS:737	
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)
					MATERIAL	
			MUMBAI METRO CARS L2 & L7			
			PRODUCT			
			REF DRG			
			MATERIAL -			
			HEAT TREAT.			
			SURFACE TREAT.			
			TITLE			
			COVER ASSY			
			SCALE			
			SHEET			
			Wt.			
			2 OF 2			
			-			
			DRG No.			
			ALT			
			525-50022			
			-			
ALT.NO.	ECN NO/CHANGES		DATE	BY	CHKD	APPD
 BEM LIMITED						

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GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12
VALUE	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
SYMBOL												
SURFACE ROUGHNESS												





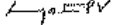
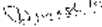

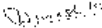
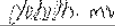





3		2					1				
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	RANGE	0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000	ABOVE 4000	RA	
	TOLERANCE	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	~	
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227											
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (PT-1) (MEDIUM)							QUALITY OF WELD JOINTS REF. RD 230 MEDIUM				
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS. 1012.C.							STATUS:				
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96											



ISOMETRIC VIEW

UNCONTROLLED

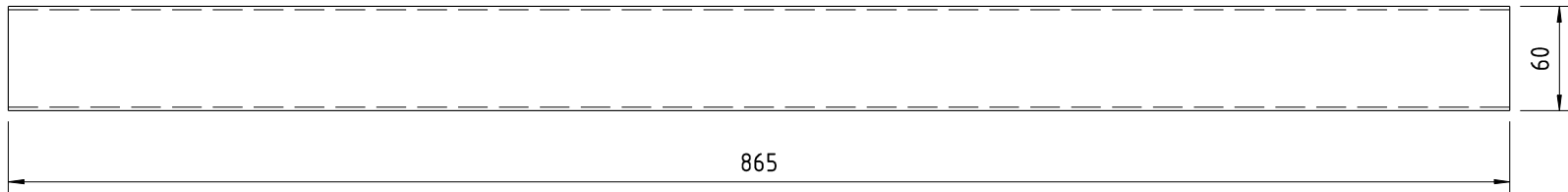
- NOTES:
1. WELDING SYMBOLS : ACCORDING ISO : 2553
 2. REMOVE ALL SHARP EDGES AND BURRS
 3. ALL WELDS SHALL BE PICKLED & PASSIVATED.
 - 4.TOLERANCES FOR WELDED CONSTRUCTIONS SHALL BE AS PER ISO:13920

SL.No.	QTY	PART / STOCK No.			DESCRIPTION	SIZE	COMPANY STD./I.S		Wt. (Kg)
							MATERIAL		
					PRODUCT	MUMBAI METRO CATS L2 & L7			
					REF DRG				
					MATERIAL	-			
					HEAT TREAT.	APPD		09.06.2020	
					SURFACE TREAT.	REVD		09.06.2020	
					TITLE	CHKO		09.06.2020	
					GUIDE SUPPORT RH	DRWN		09.06.2020	
						SCALE		SHEET	Wt.
								1 OF 2	7.4Kg
ALT.NO.	ECN NO/CHANGES	DATE	BY	CHKO	APPD	DRG No.			ALT
						 BEM LIMITED <small>HYDRAULIC PUMP DIVISION</small>			
						525-50023			

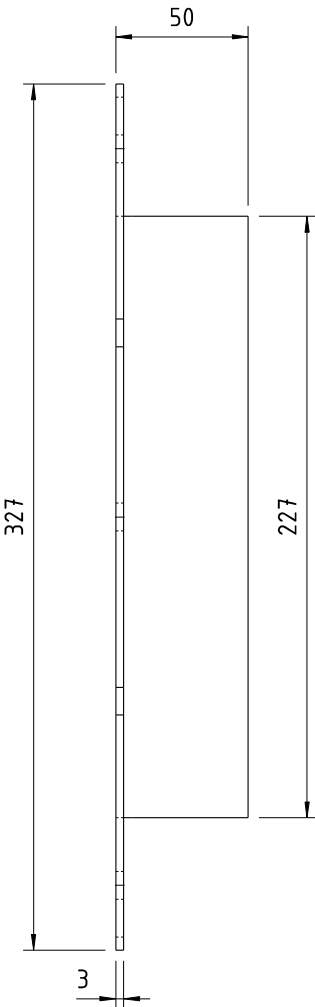
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GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12
VALUE	0.05	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
SYMBOL												
SURFACE ROUGHNESS												

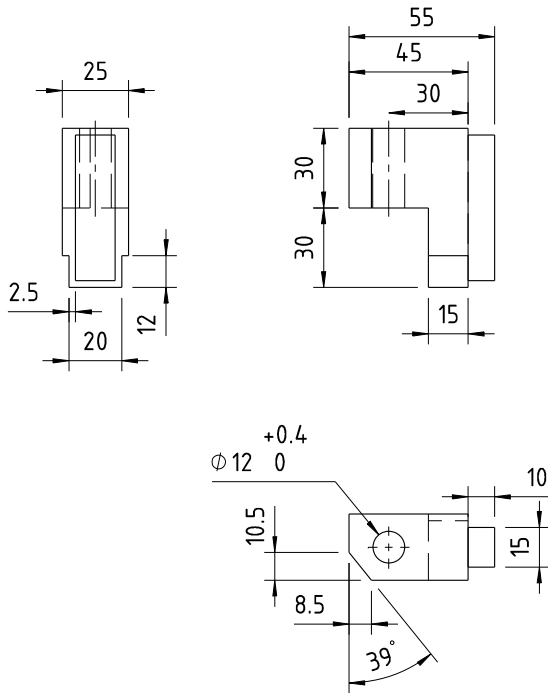
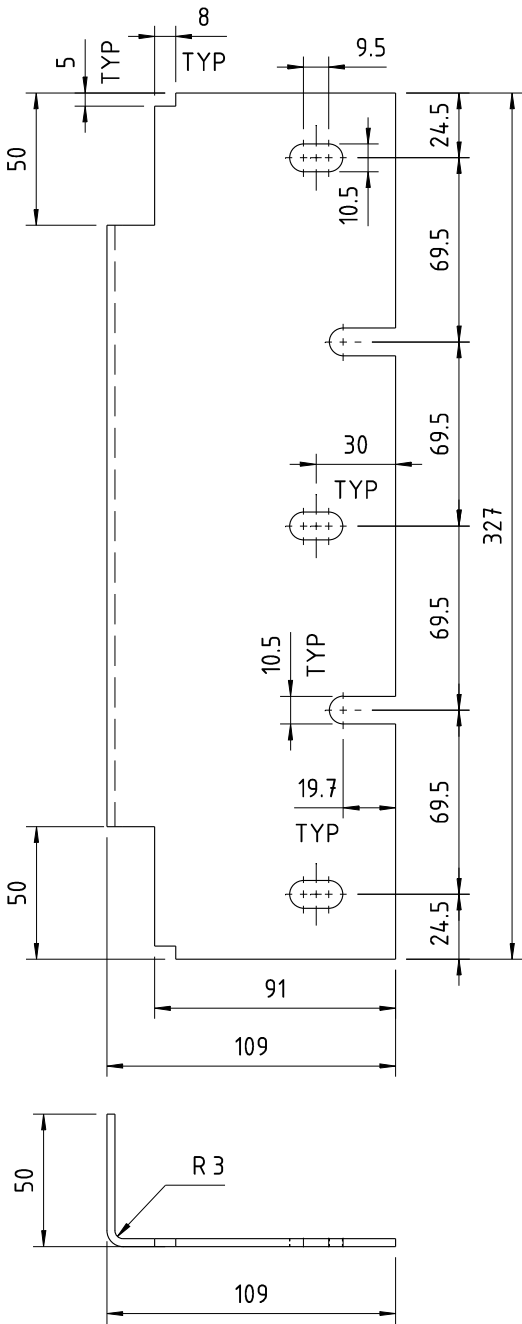
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	RANGE	0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000	ABOVE 4000	RA
	TOLERANCE	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	~
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227										
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (PT-1) (MEDIUM)							QUALITY OF WELD JOINTS REF. RD 230 MEDIUM			
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS. 1012.C.							STATUS:			
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										



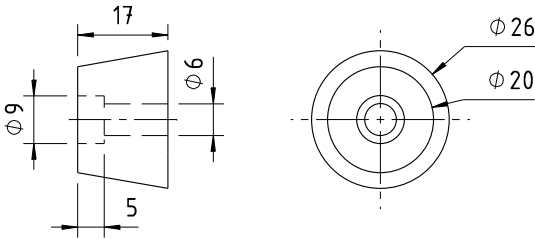
DETIAL - 1
(SCALE 1:3)



DETIAL - 2
(SCALE 1:2)

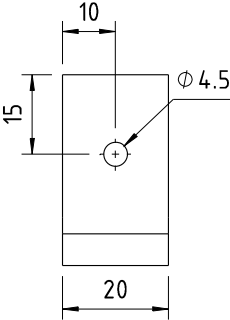


DETIAL - 3
(SCALE 1:2)

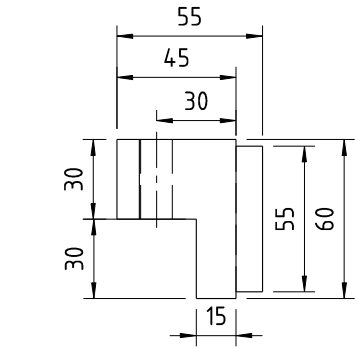
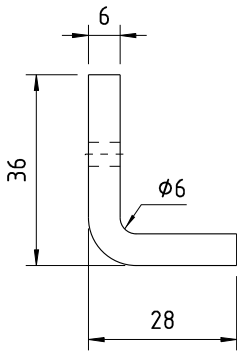


DETAIL - 6
(SCALE 1:1)

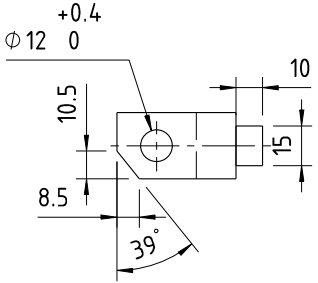
UNCONTROLLED








DETIAL - 5
(SCALE 1:1)



DETIAL - 4
(SCALE 1:2)

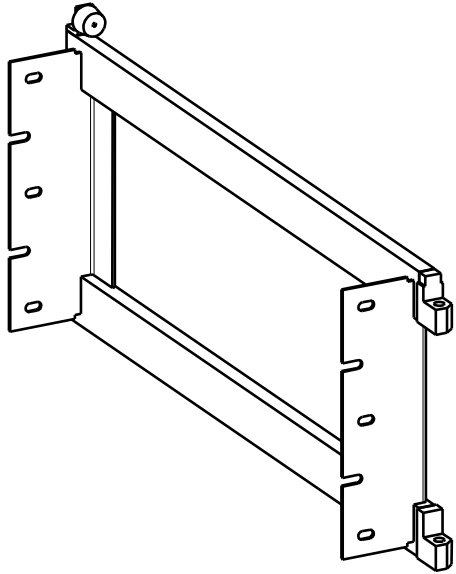
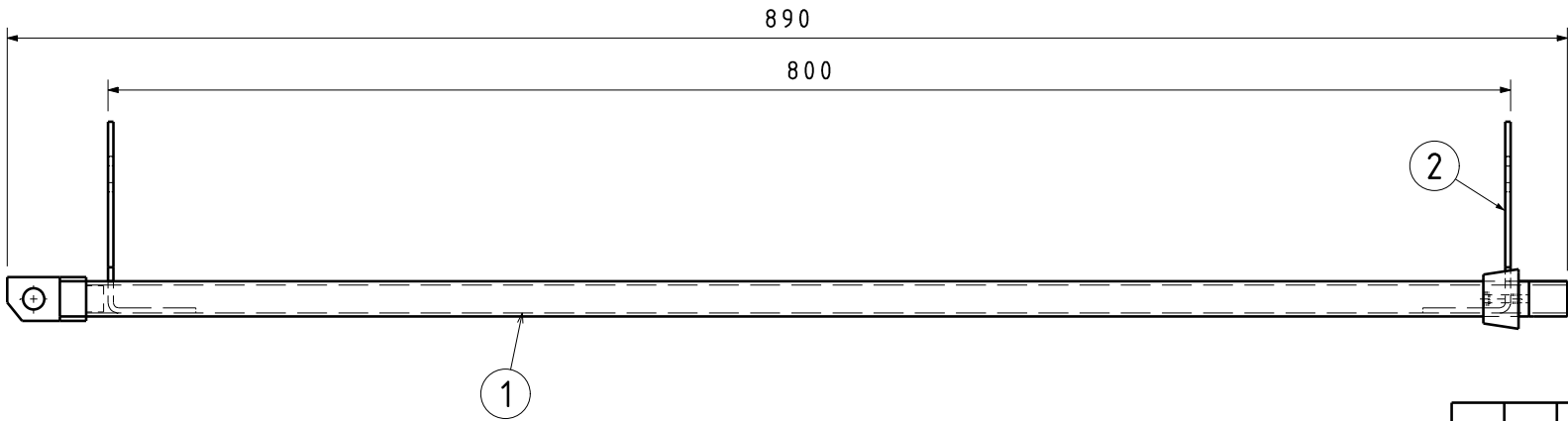
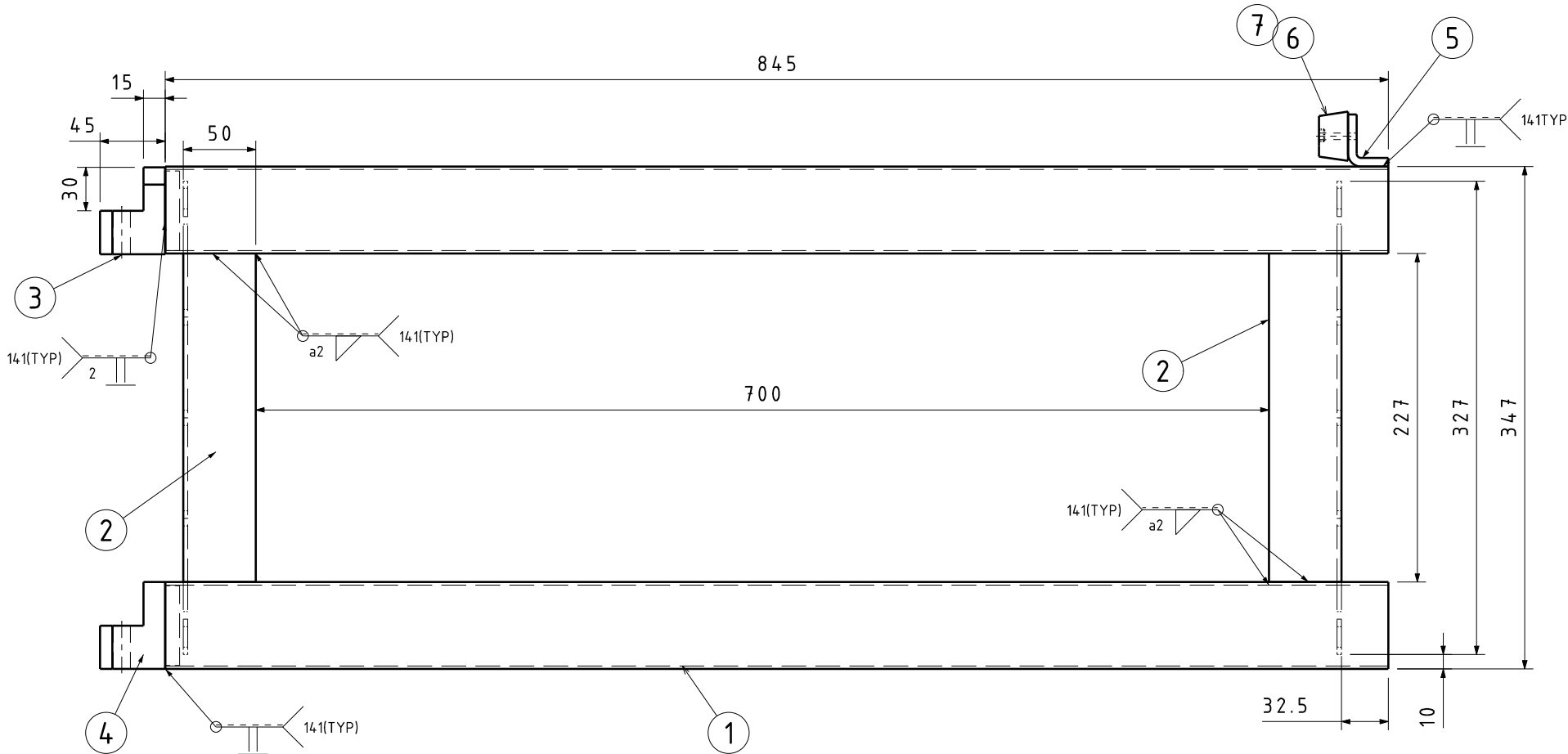
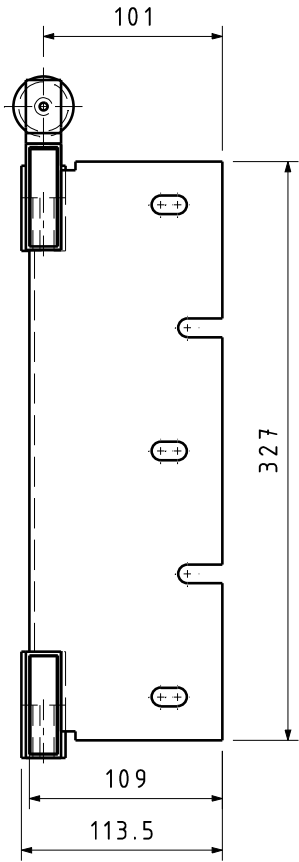


							IS:7483 / MATL: ISO:3506-79, Gr-A2-70 ,SS
7	1	RFS7620516	PAN HEAD SCREW		M5X16		
6	1	525-50023-06	STOPPER		STD		NYLON
5	1	525-50023-05	STOPPER PLATE				SUS304L/AISI304L - 2B FINISH
4	1	525-50023-04	JOINT BOTTOM		60X55X25		SUS304L/AISI304L - 2B FINISH
3	1	525-50023-03	JOINT TOP		60X55X25		SUS304L/AISI304L - 2B FINISH
2	2	525-50023-02	GUIDE SUPPORT		327X153X3THK		SUS304L/AISI304L - 2B FINISH
1	2	525-50023-01	RECT.TUBE (60X20X2)		L=865		SUS304L/AISI304L - 2B FINISH
SL.No.	QTY	PART / STOCK No.		DESCRIPTION		SIZE	COMPANY STD./I.S
							Wt. (Kg)
							MATERIAL
							MUMBAI METRO CARS L2 & L7
							
							
							
							

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GRADE No.	N12	N11	N10	N9	N8	N7	N6	N5	N4	N3	N2	N1
VALUE	20	25	25	25	25	25	25	25	25	25	25	25
SYMBOL												
SURFACE												
ROUGHNESS												

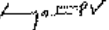
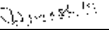
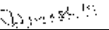
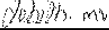


MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	RANGE	0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000	ABOVE 4000	RA
	TOLERANCE	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	~
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227										
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (PT-1) (MEDIUM)							QUALITY OF WELD JOINTS REF. RD 230 MEDIUM			
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS. 1012.C.							STATUS:			
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										



ISOMETRIC VIEW

UNCONTROLLED

- NOTES:
1. WELDING SYMBOLS : ACCORDING ISO : 2553
 2. REMOVE ALL SHARP EDGES AND BURRS
 3. ALL WELDS SHALL BE PICKLED & PASSIVATED.
 4. TOLERANCES FOR WELDED CONSTRUCTIONS SHALL BE AS PER ISO:13920

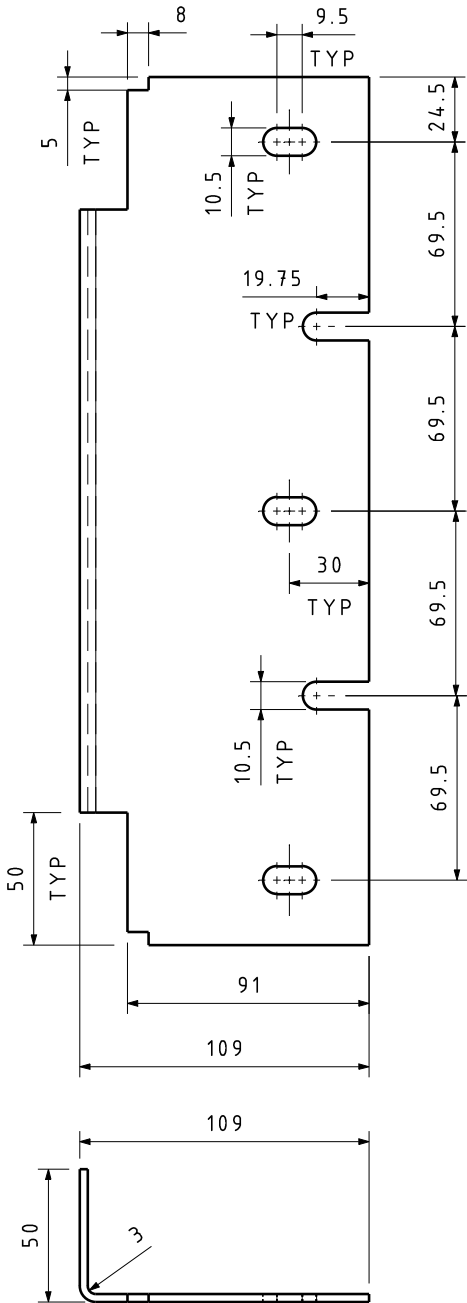
SL.No.	QTY	PART / STOCK No.				DESCRIPTION	SIZE	COMPANY STD./I.S		Wt. (Kg)		
							MATERIAL					
△						PRODUCT	MUMBAI METRO CARS L2 & L7					
						REF DRG						
△						MATERIAL	-					
						HEAT TREAT.		APPD		09.06.2020		
						SURFACE TREAT.		REVD		09.06.2020		
△						TITLE		CHKD		09.06.2020		
						GUIDE SUPPORT -LH		DRWN		09.06.2020		
								SCALE		SHEET	Wt.	
△									1 OF 2	7.2Kg		
ALT.NO.	ECN NO/CHANGES		DATE	BY	CHKD	APPD	 BEML LIMITED <small>NEW HYDRAULIC, NEW DELHI</small>			DRG No. 525-50024		ALT
											△	

BEML LIMITED

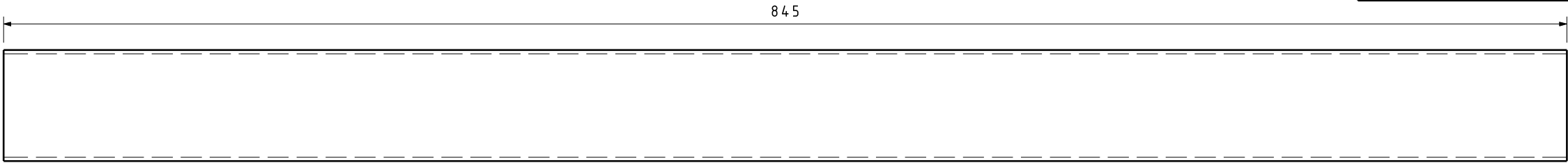
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GRADE No.	N12	N11	N10	N9	N8	N7	N6	N5	N4	N3	N2	N1
VALUE	20	25	25	25	25	25	25	25	25	25	25	25
SYMBOL												
ROUGHNESS												

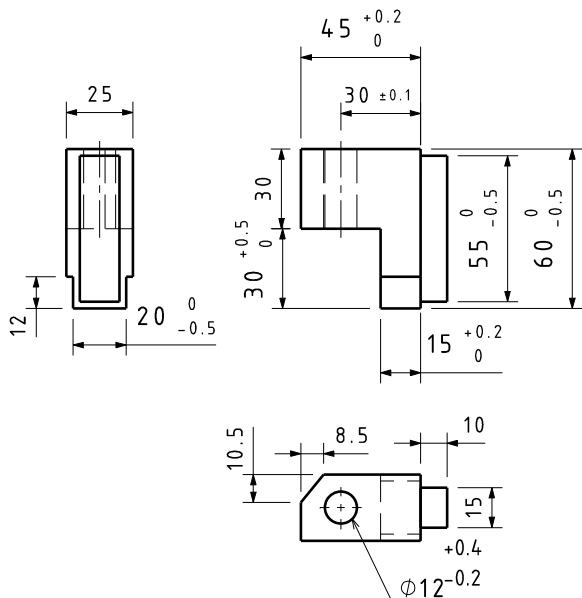
DETIAL - 2
(SCALE 1:2)



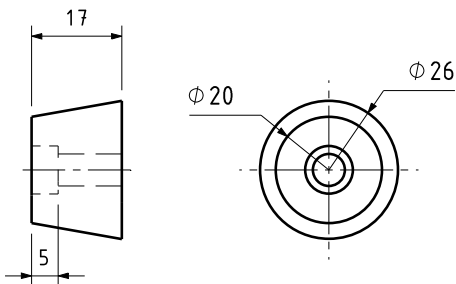
DETIAL - 1
(SCALE 1:2)



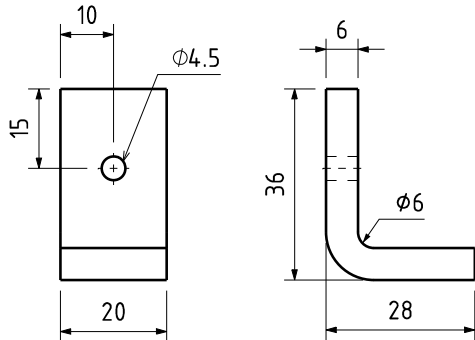
DETIAL - 3
(SCALE 1:2)



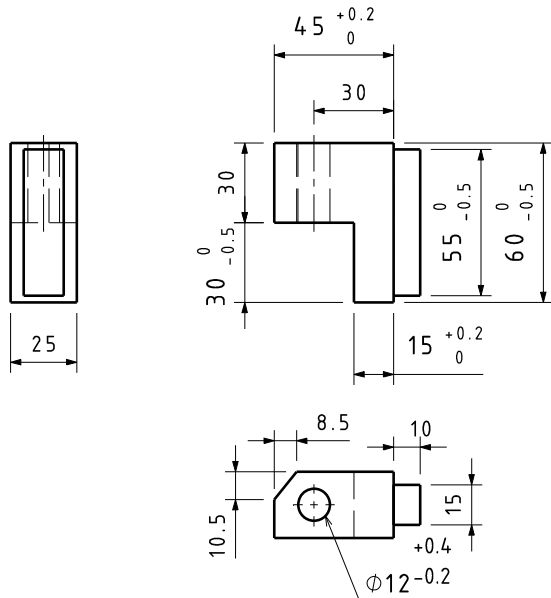
DETAIL - 6
(SCALE 1:1)





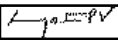
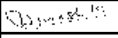

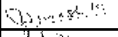
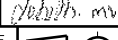




DETIAL - 5
(SCALE 1:1)



DETIAL - 4
(SCALE 1:2)



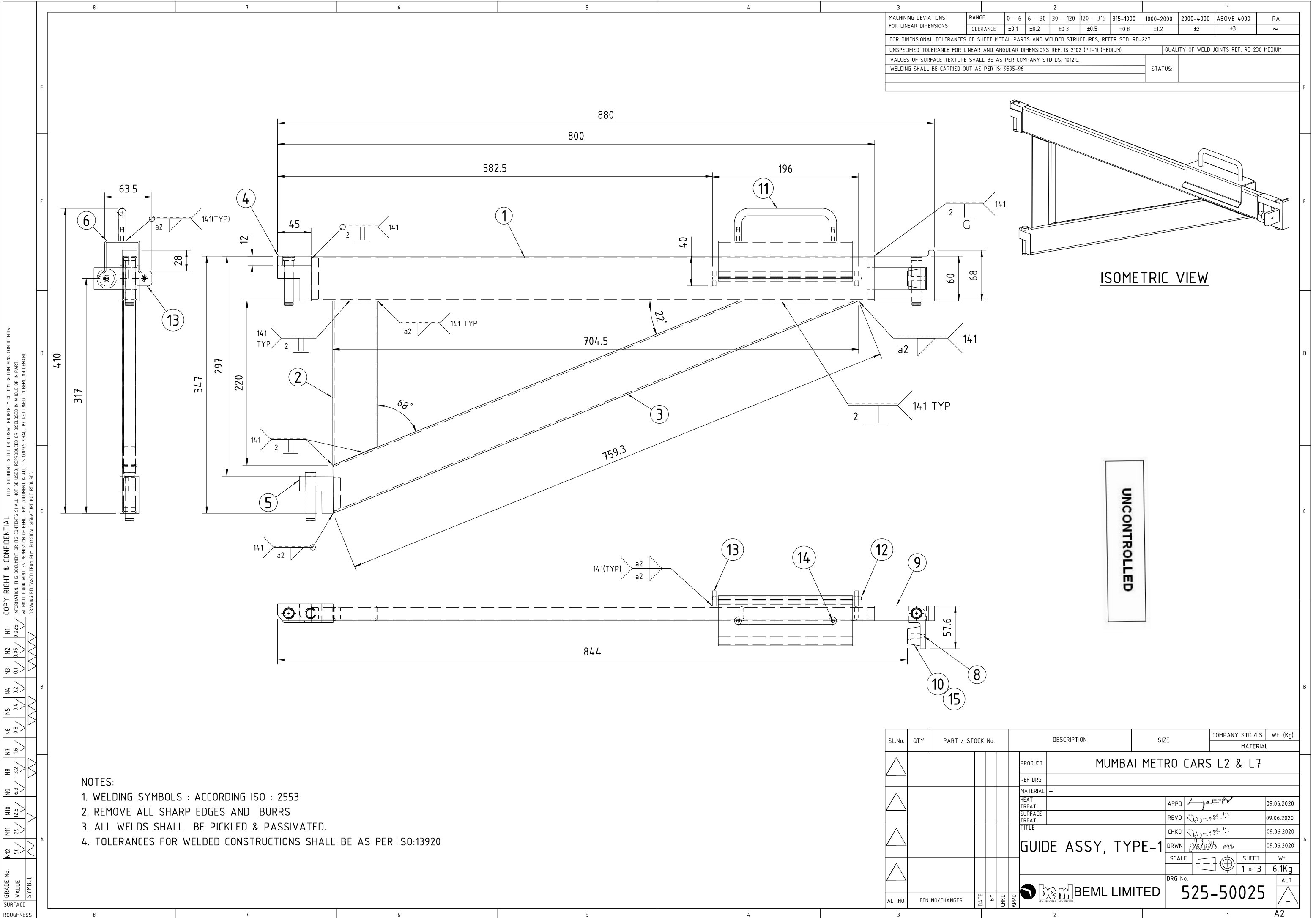
UNCONTROLLED

7	1	RFS7620516	PAN HEAD SCREW	M5X16	IS:7483 / MATL: ISO:3506-79, Gr-A2-70 SS		
6	1	525-50024-06	STOPPER	STD	NYLON		
5	1	525-50024-05	STOPPER PLATE		SUS304L/AISI304L-2B FINISH		
4	1	525-50024-04	JOINT BOTTOM	60X55X25	SUS304L/AISI304L-2B FINISH		
3	1	525-50024-03	JOINT TOP	60X55X25	SUS304L/AISI304L-2B FINISH		
2	2	525-50024-02	GUIDE SUPPORT	327X153X3THK	SUS304L/AISI304L-2B FINISH		
1	2	525-50024-01	RECT.TUBE (60X20X2)	L=845	SUS304L/AISI304L-2B FINISH		
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)	
					MATERIAL		
			PRODUCT	MUMBAI METRO CARS L2 & L7			
			REF DRG				
			MATERIAL	-			
			HEAT TREAT.	APPD		09.06.2020	
			SURFACE TREAT.	REVD		09.06.2020	
			TITLE	CHKD		09.06.2020	
			GUIDE SUPPORT -LH	DRWN		09.06.2020	
				SCALE		SHEET	Wt.
					2 OF 2	-	
ALT.NO.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	DRG No.	
						ALT	
				 BEM LIMITED		525-50024	
							

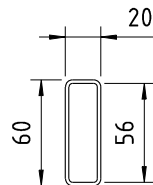
BEML LIMITED

525-50024

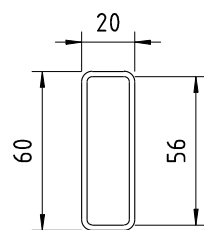
A2



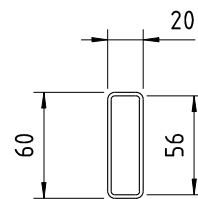
GRADE No.	VALUE	SYMBOL
SURFACE ROUGHNESS		



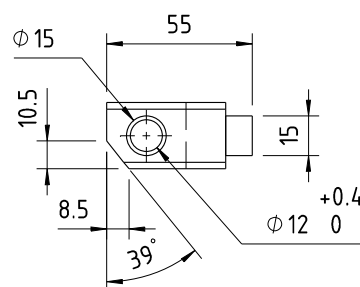
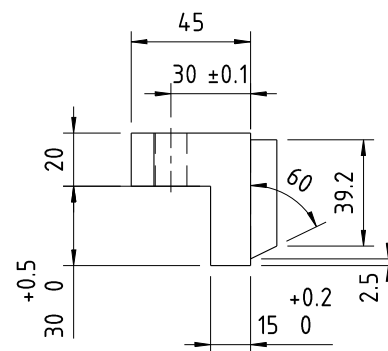
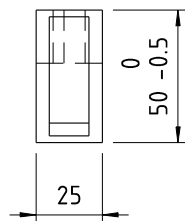
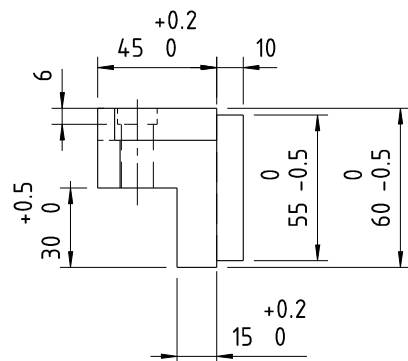
DETAIL - 01
(SCALE 1:3)



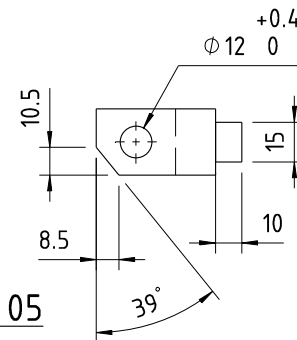
DETAIL - 02
(SCALE 1:2)



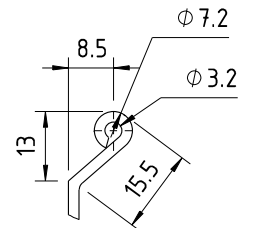
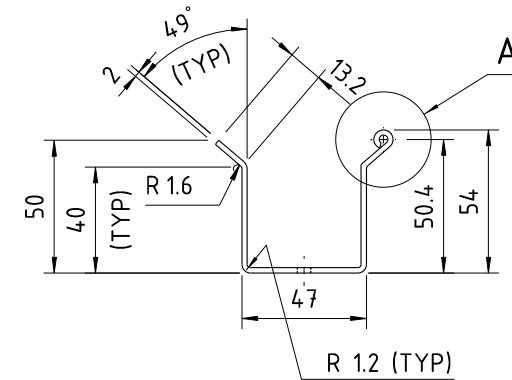
DETAIL - 03
(SCALE 1:3)



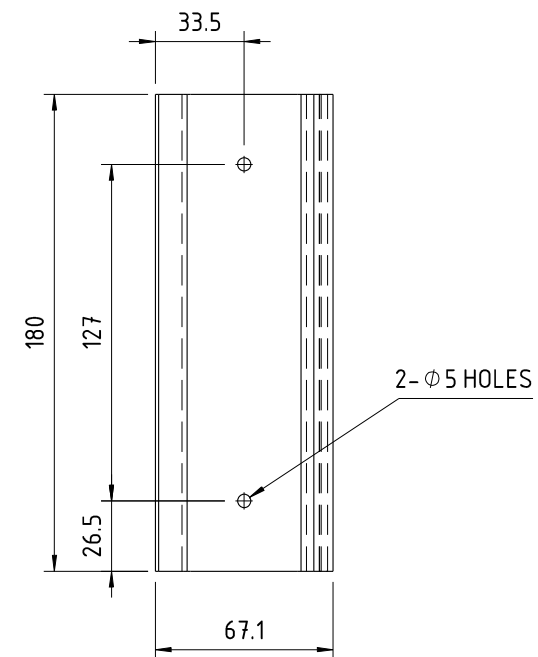
DETAIL - 04
(SCALE 1:2)



DETAIL - 05
(SCALE 1:2)



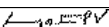
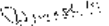

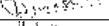
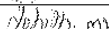






DETAIL - A

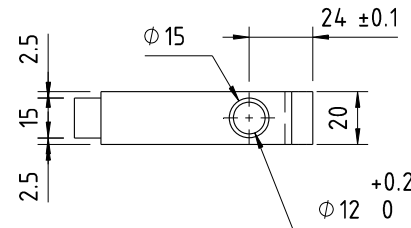
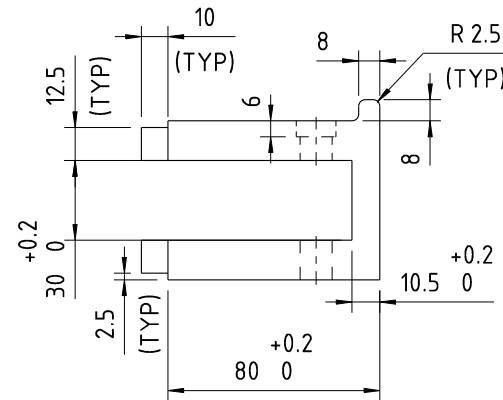
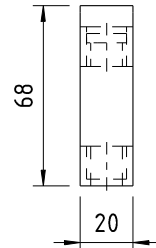


DETAIL - 06
(SCALE 1:2)

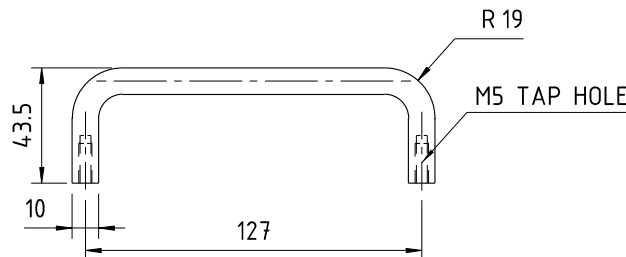
UNCONTROLLED

SL.No.	QTY	PART / STOCK No.				DESCRIPTION	SIZE	COMPANY STD./I.S		Wt. (Kg)	
								MATERIAL			
						PRODUCT	MUMBAI METRO CARS L2 & L7				
						REF DRG					
						MATERIAL	-				
						HEAT TREAT.		APPD		09.06.2020	
						SURFACE TREAT.		REVD		09.06.2020	
						TITLE	GUIDE ASSY, TYPE-1				
								CHKD		09.06.2020	
								DRWN		09.06.2020	
								SCALE		SHEET 2 OF 3	Wt. -
ALT.NO.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	 BEML LIMITED <small>NEW PONTIAC, NEW ORLEANS</small>				DRG No.	525-50025
											 ALT -

DETAIL -08
(SCALE 1:2)



DETAIL - 11
(SCALE 1:2)



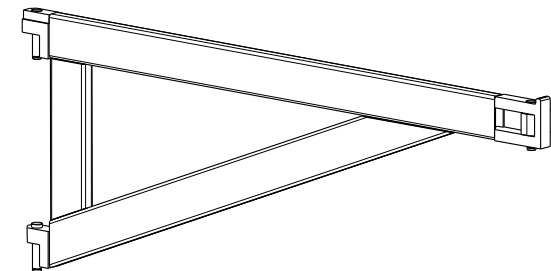
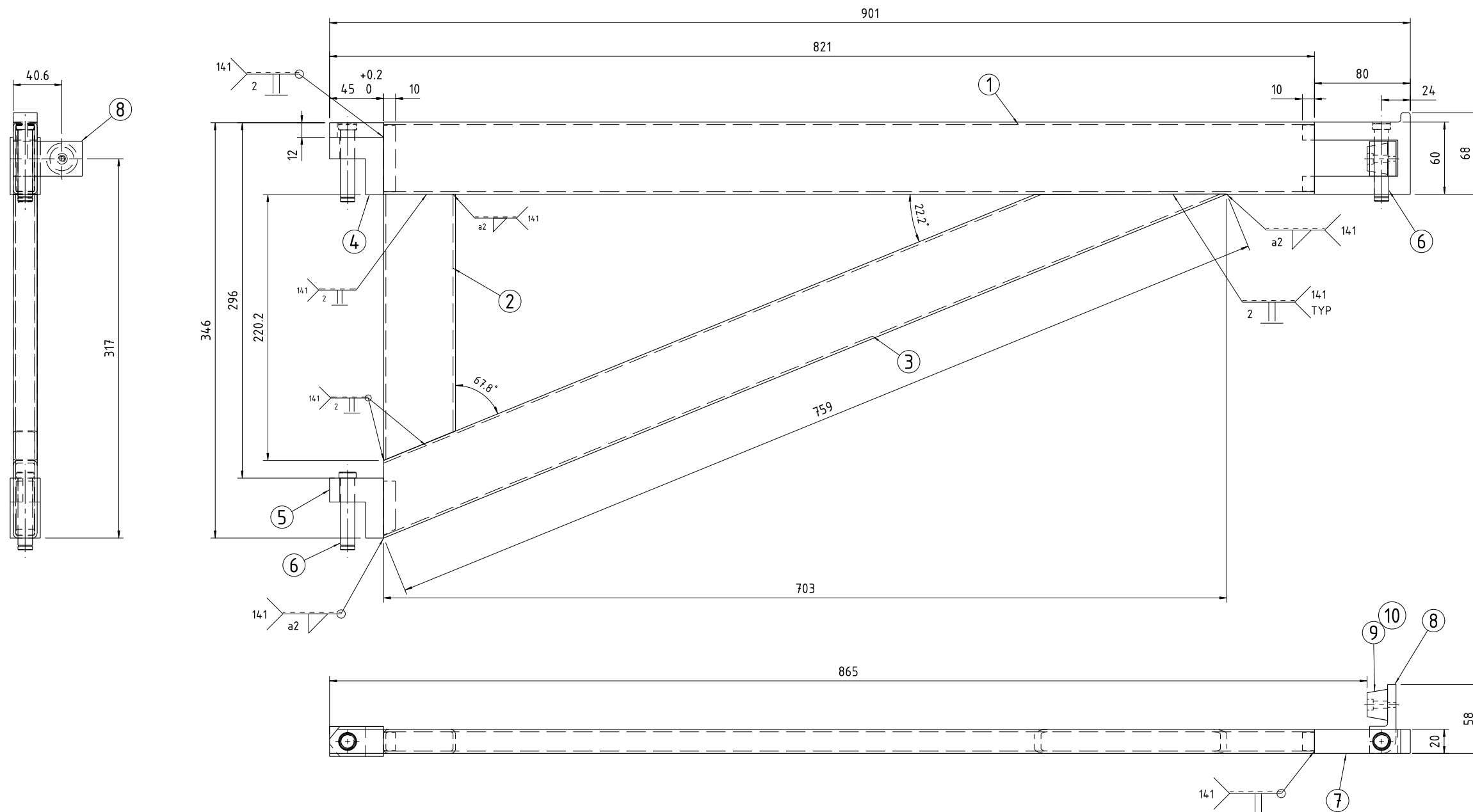
DETAIL - 12
(SCALE 1:2)

Technical drawing of a rectangular plate with a rounded corner and a central hole. The drawing includes dimensions: overall width 20, overall height 10, corner radius R5 (TYP), hole diameter 4.5, and a 5 THK thickness. A section line A-A is indicated.

DETAIL - 13
(SCALE 1:1)













A2

3		2						1			
MACHINING DEVIATIONS		RANGE	0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000	ABOVE 4000	RA
FOR LINEAR DIMENSIONS		TOLERANCE	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2.0	±3	~
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227											
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REFER IS 202 (PT-1) (MEDIUM)								QUALITY OF WELD JOINTS REFER STD. RD. 230 MEDIUM			
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD. DS. 1012.C											
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96								STATUS:			

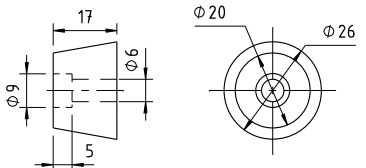
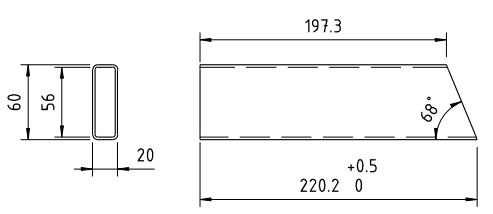
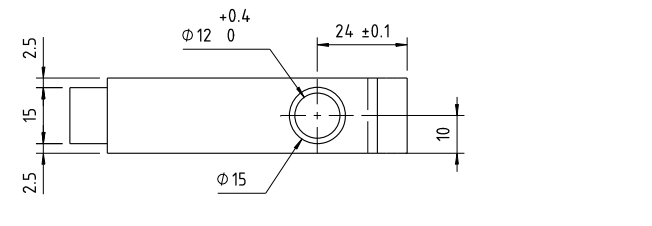
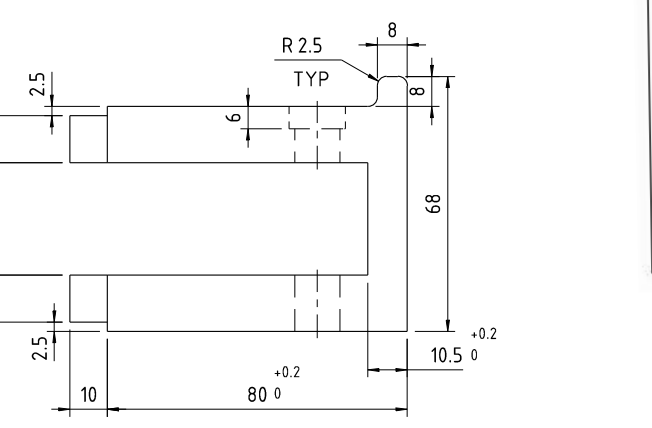
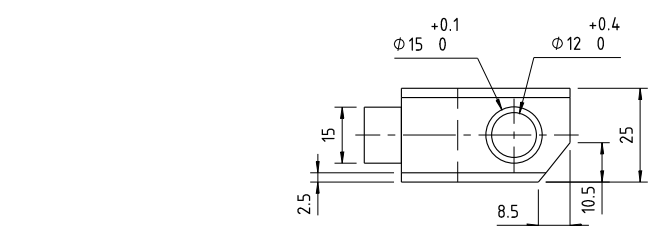
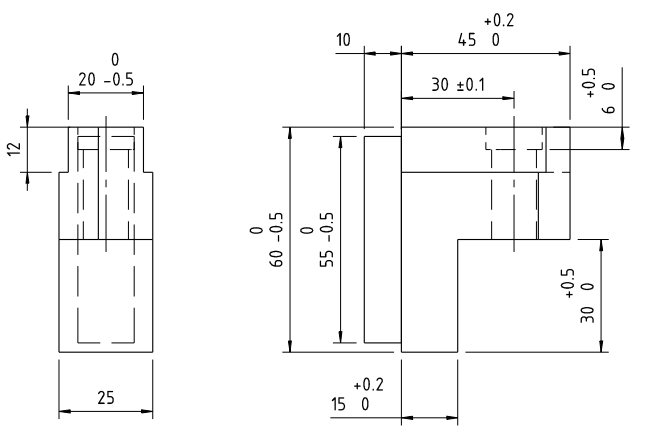
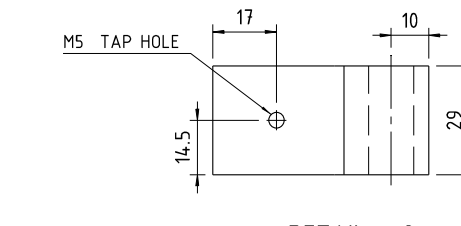
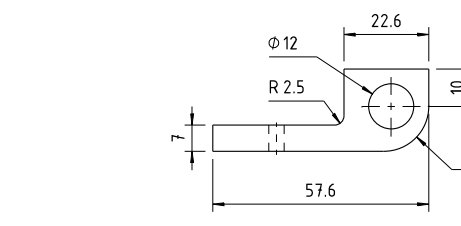
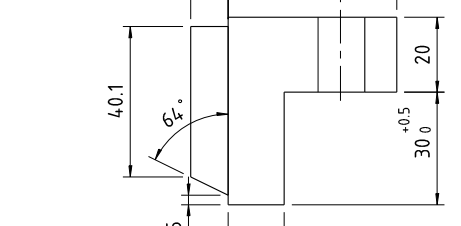
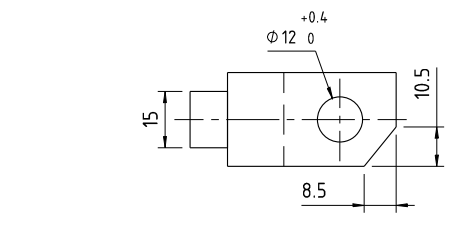
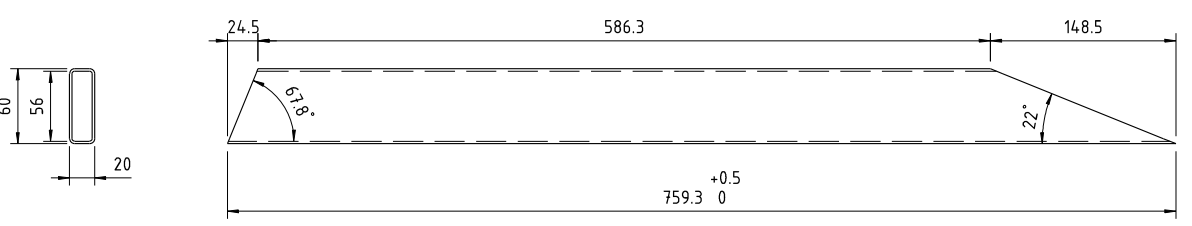
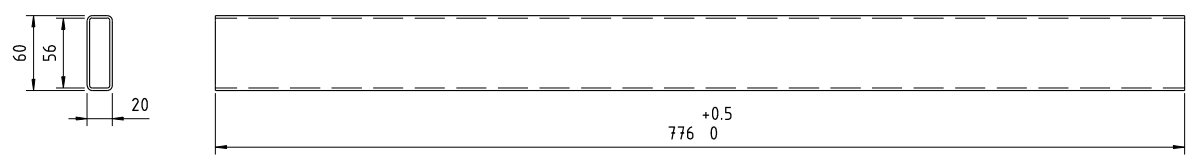
ISOMETRIC VIEW

UNCONTROLLED

- NOTES:
1. WELDING SYMBOLS : ACCORDING ISO : 2553
 2. REMOVE ALL SHARP EDGES AND BURRS
 3. ALL WELDS SHALL BE PICKLED & PASSIVATED.
 4. TOLERANCES FOR WELDED CONSTRUCTIONS SHALL BE AS PER ISO:13920

SL.No	QTY	PART / STOCK No.				DESCRIPTION	SIZE	COMPANY STD./I.S.		Wt. Kg
								MATERIAL		
						PRODUCT	MUMBAI METRO CARS L2 & L7			
						REF DRG				
						MATERIAL	-			
						HEAT TREAT	GUIDE ASSY, TYPE-2	APPD		09.06.2021
						SURFACE TREAT		REVD		09.06.2021
						TITLE		CHKD		09.06.2021
								SCALE		09.06.2021
										
									SHEET 1 OF 2	Wt. 5.4 Kg
ALT.NO	ECN NO/CHANGES	DATE	BY	CHKD	APPD	 BEM LIMITED				ALT
						525-50026				

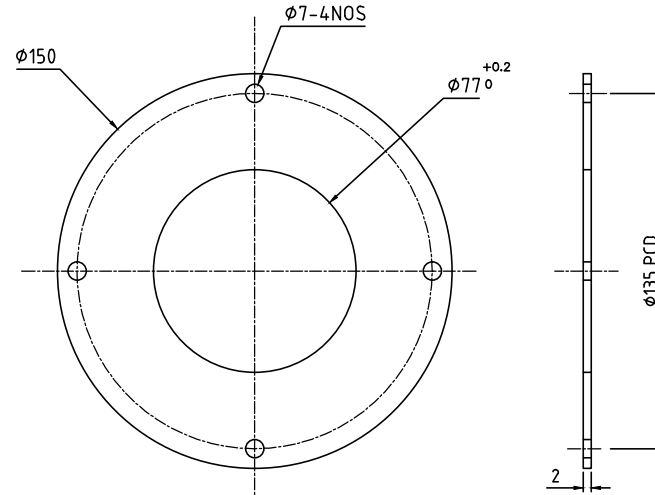
3		2					1		
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS		RANGE	0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000
TOLERANCE			±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RC-227									
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (PT-1) (MEDIUM)								QUALITY OF WELD JOINTS REF. RD 230 MEDIUM	
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS-1012.C								STATUS:	
WELDING SHALL BE CARRIED OUT AS PER IS-9595-96									



UNCONTROLLED

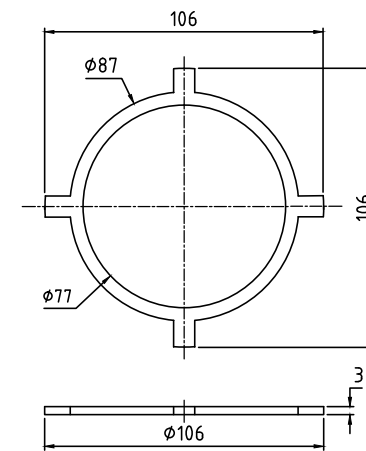
SL.No	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./IS	Wt. (Kg)
10	1	RFS7620516	PAN HEAD SCREW	M5X16	IS:7483 / MATL: ISO:3506-79, Gr-A2-70, SS	
9	1	525-50026-09	STOPPER	STD	NYLON-6	
8	1	525-50026-08	STOPPER BRKT	57.6X29X22	SUS304L/AISI304L-2B FINISH	
7	1	525-50026-07	STOPPER GUIDE	90X68X20	SUS304L/AISI304L-2B FINISH	
6	3	525-50112	HINGE PIN			
5	1	525-50026-05	JOINT BOTTOM	50X55X25	SUS304L/AISI304L-2B FINISH	
4	1	525-50026-04	JOINT TOP	60X55X25	SUS304L/AISI304L-2B FINISH	
3	1	525-50026-03	RECT.TUBE (60X20X2)	L=760	SUS304L/AISI304L-2B FINISH	
2	1	525-50026-02	RECT.TUBE (60X20X2)	L=221	SUS304L/AISI304L-2B FINISH	
1	1	525-50026-01	RECT.TUBE (60X20X2)	L=776	SUS304L/AISI304L-2B FINISH	
SL.No	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./IS	Wt. (Kg)
PRODUCT	MUMBAI METRO CARS L2 & L7					
REF. ORG						
MATERIAL						
HEAT TREAT						
SURFACE TREAT						
TITLE						
DRWN						
SCALE						
SHEET						
Wt.						
ALT						
ORG No.						
ECN NO/CHANGES						
DATE						
BY						
CHKD						
APPR						

5	1	525-50027-05	EXHAUST PIPE PLATE	Ø150X3THK	SUS304L/AISI904L - ZB FINISH
4	1	525-50027-04	FIXER	Ø106X3THK	SUS304L/AISI904L - ZB FINISH
3	1	525-50027-03	PACKING	2 THK	CHLOROPRENE RUBBER - CR4
2	1	525-50027-02	EXHAUST PIPE	ODØ76X3THK	SUS304L/AISI904L - ZB FINISH
1	1	525-50027-01	COVER	Ø110X2THK	SUS304L/AISI904L - ZB FINISH
SL No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./S MATERIAL
			Wt. (Kg)		
			MUMBAI METRO CARS L2 & L7		
			PRODUCT		
			REF DRG		
			MATERIAL		
			HEAT TREAT		
			SURFACE TREAT		
			TITLE		
			AIR VENT		
			APPD PVG 09.06.2020		
			REV D NINESH 09.06.2020		
			CHKD D NINESH 09.06.2020		
			DRWN LOHITH 09.06.2020		
			SCALE 1 OF 1		
			NTS 1.2Kg		
			DRG No.		
			ALT		
ALT NO			EEN NO/CHANGES		
DATE			BY		
CWD			APPD		
			BEM LIMITED		
			525-50027		



Technical drawing of a circular part with a central hole and four mounting holes. The outer diameter is labeled as $\phi 76.5$. The central hole has a diameter of $\phi 7.4 \text{ N0S}$. The four mounting holes are spaced at a pitch circle diameter (PCD) of $\phi 135 \text{ PCD}$. The part has a thickness of 3. The drawing includes a top view and a side view.

DETAIL - 2

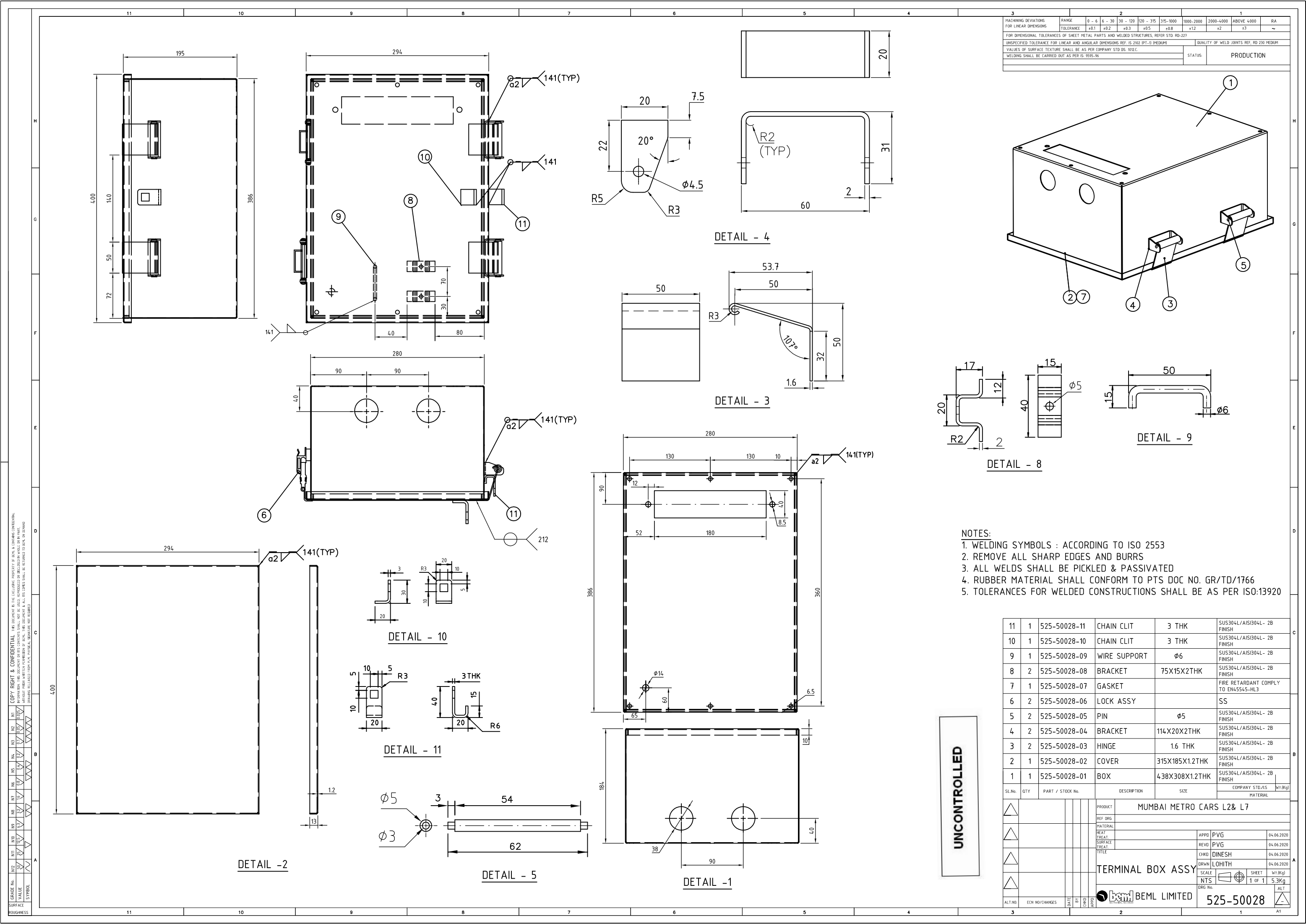


DETAIL - 4

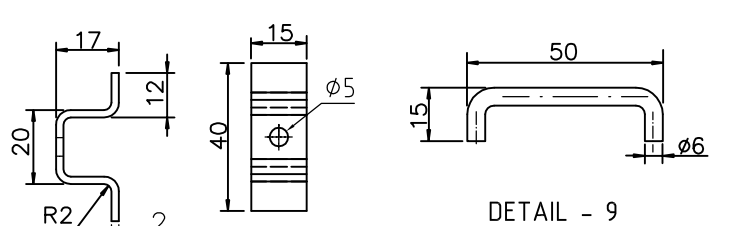
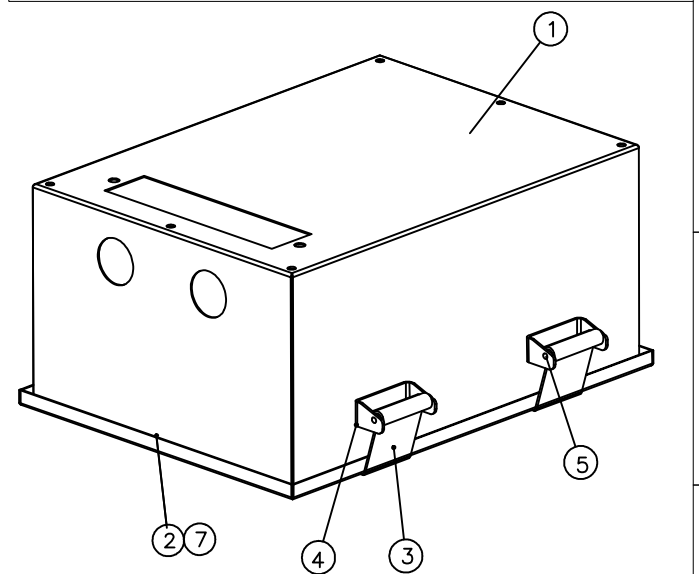
UNCONTROLLED

1. WELDING SYMBOLS : ACCORDING TO ISO 2553
2. REMOVE ALL SHARP EDGES AND BURRS
3. ALL WELDS SHALL BE PICKLED & PASSIVATED
4. RUBBER MATERIAL SHALL CONFORM TO PTS DOC NO. GR/TD/1766
5. TOLERANCES FOR WELDED CONSTRUCTIONS SHALL BE AS PER ISO:13920

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MACHINING DEVIATIONS FOR LINEAR DIMENSIONS		1									
RANGE	TOLERANCE	0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000	ABOVE 4000	RA	
		±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	~	
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. PD-227											
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2002 (PT-1) (MEDIUM)											
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS. 1012.C											
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96											
STATUS:										PRODUCTION	



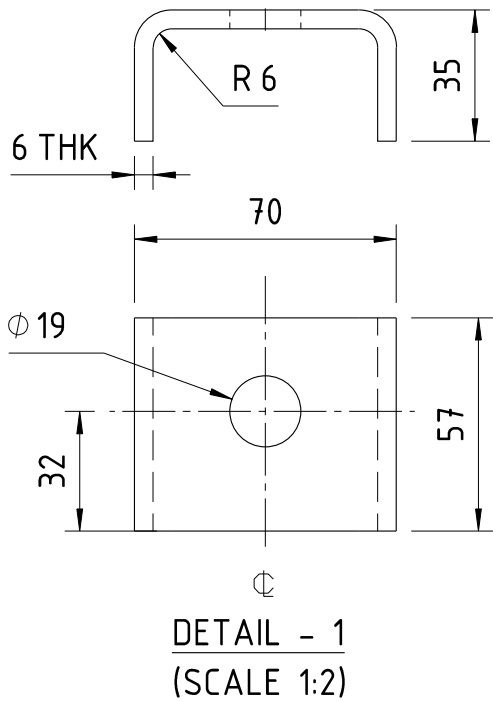
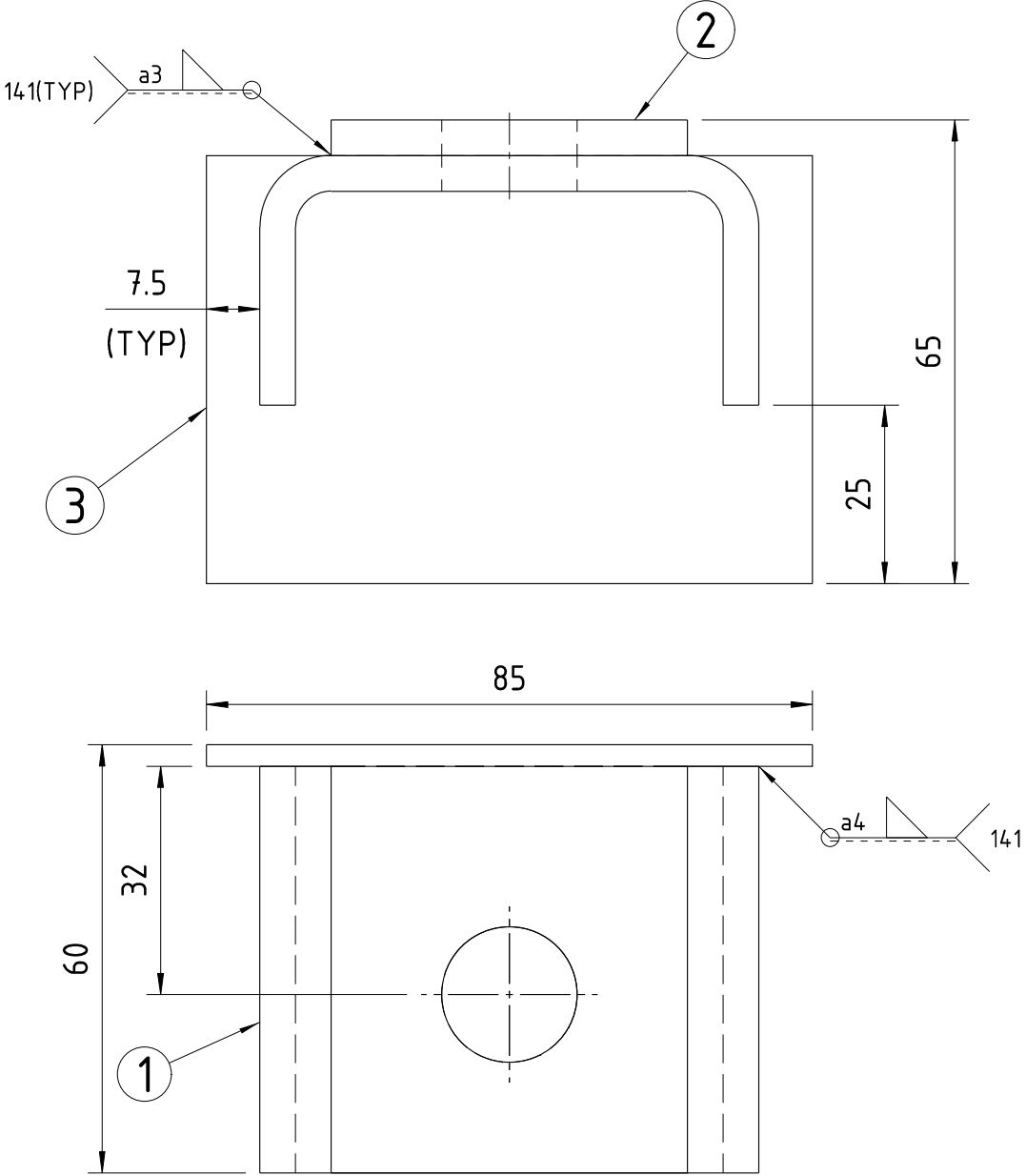
- NOTES:
1. WELDING SYMBOLS : ACCORDING TO ISO 2553
 2. REMOVE ALL SHARP EDGES AND BURRS
 3. ALL WELDS SHALL BE PICKLED & PASSIVATED
 4. RUBBER MATERIAL SHALL CONFORM TO PTS DOC NO. GR/TD/1766
 5. TOLERANCES FOR WELDED CONSTRUCTIONS SHALL BE AS PER ISO:13920

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	MATERIAL
11	1	525-50028-11	CHAIN CLIT	3 THK	SUS304L/AISI304L- 2B FINISH
10	1	525-50028-10	CHAIN CLIT	3 THK	SUS304L/AISI304L- 2B FINISH
9	1	525-50028-09	WIRE SUPPORT	Ø6	SUS304L/AISI304L- 2B FINISH
8	2	525-50028-08	BRACKET	75X15X2THK	SUS304L/AISI304L- 2B FINISH
7	1	525-50028-07	GASKET		FIRE RETARDANT COMPLY TO EN45545-HL3
6	2	525-50028-06	LOCK ASSY		SS
5	2	525-50028-05	PIN	Ø5	SUS304L/AISI304L- 2B FINISH
4	2	525-50028-04	BRACKET	114X20X2THK	SUS304L/AISI304L- 2B FINISH
3	2	525-50028-03	HINGE	1.6 THK	SUS304L/AISI304L- 2B FINISH
2	1	525-50028-02	COVER	315X185X1.2THK	SUS304L/AISI304L- 2B FINISH
1	1	525-50028-01	BOX	438X308X1.2THK	SUS304L/AISI304L- 2B FINISH
COMPANY STD./IS					Wt.(kg)
MATERIAL					
PRODUCT					
REF. DRG.					
MATERIAL					
HEAT TREAT.					
SURFACE TREAT.					
TITLE					
TERMIAL BOX ASSY					
SCALE					
NTS					
SHEET 1 OF 1					
Wt.(kg) 5.3Kg					
ALT					
BOML LIMITED					
525-50028					

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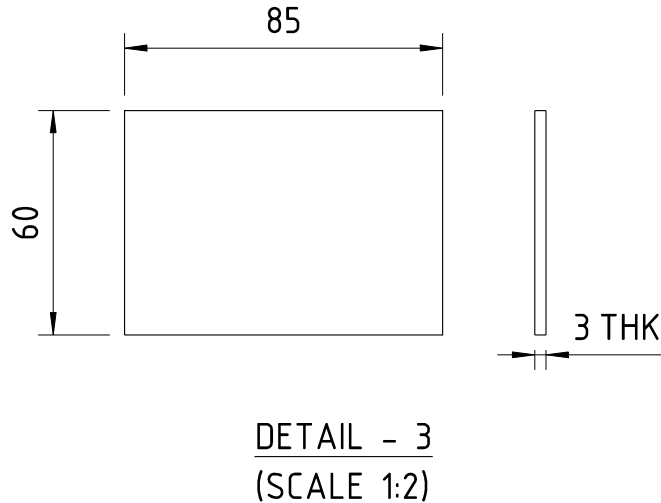
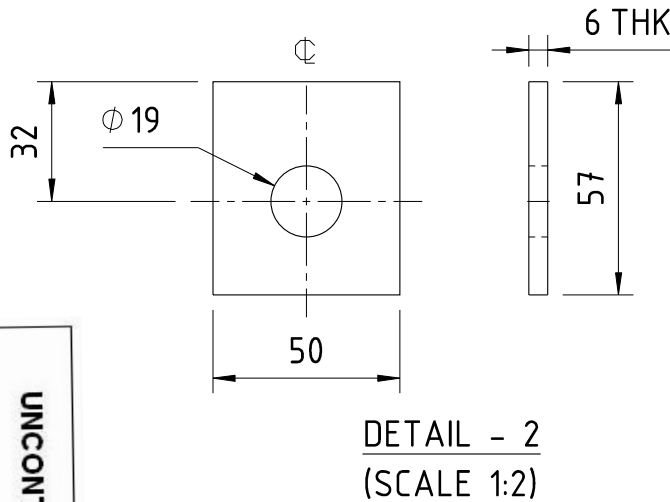
GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12
VALUE	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
SYMBOL												
SURFACE ROUGHNESS												




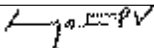
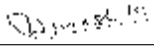

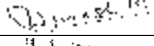
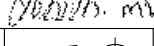

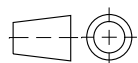



- NOTES:
1. WELDING SYMBOLS : ACCORDING ISO : 2553
 2. REMOVE ALL SHARP EDGES AND BURRS
 3. ALL WELDS SHALL BE PICKLED & PASSIVATED.
 - 4.TOLERANCES FOR WELDED CONSTRUCTIONS SHALL BE AS PER ISO:13920

UNCONTROLLED

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	RANGE	0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000	ABOVE 4000	RA
	TOLERANCE	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	~
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227										
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (PT-1) (MEDIUM)							QUALITY OF WELD JOINTS REF, RD 230 MEDIUM			
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS. 1012.C.						STATUS:				
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										



3	1	525-50110-03	PLATE		85X60X3THK	SUS304L/AISI304L- 2B FINISH			
2	1	525-50110-02	PAD		57X50X6THK	SUS304L/AISI304L- 2B FINISH			
1	1	525-50110-01	BRACKET		124X57X6THK	SUS304L/AISI304L- 2B FINISH			
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S		Wt. (Kg)		
					MATERIAL				
					PRODUCT	MUMBAI METRO CARS L2 & L7			
						REF DRG			
					MATERIAL	-			
						HEAT TREAT.			
					SURFACE TREAT.	APPD		09.06.2020	
						REVD		09.06.2020	
					TITLE	CHKD		09.06.2020	
						DRWN		09.06.2020	
						SCALE		SHEET	Wt.
						1:1	1 OF 1	0.4 Kg	
DRG No.						ALT			
BEML LIMITED						525-50110			
NEW FRONTIERS. NEW DREAMS									
ALT.NO.	ECN NO/CHANGES		DATE	BY	CHKD	APPD			

BEML LIMITED

525-50110

-

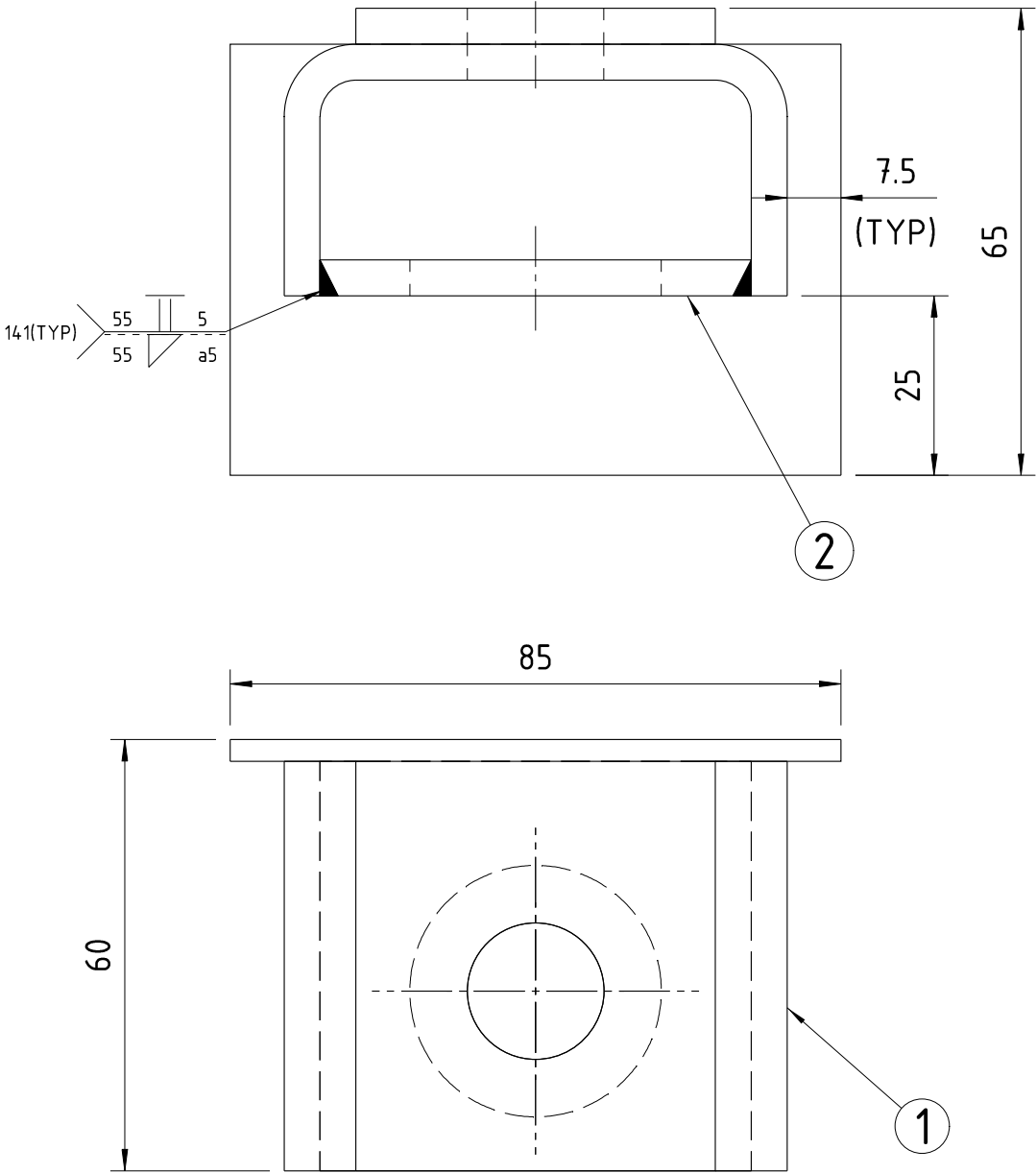
A3

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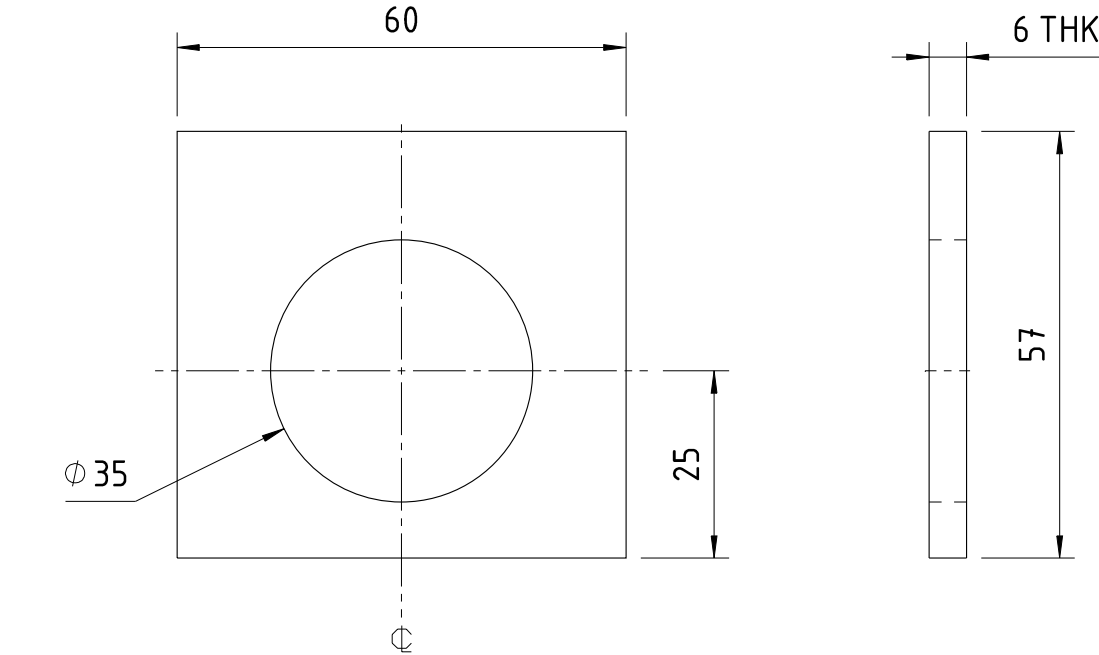
GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12
VALUE	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
SYMBOL												
SURFACE ROUGHNESS												

NOTES:



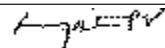

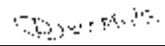
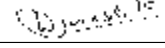

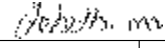
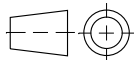



1. WELDING SYMBOLS : ACCORDING ISO : 2553
2. REMOVE ALL SHARP EDGES AND BURRS
3. TOLERANCES FOR WELDED CONSTRUCTIONS SHALL BE AS PER ISO:13920
4. ALL WELDS SHALL BE PICKLED & PASSIVATED.



UNCONTROLLED

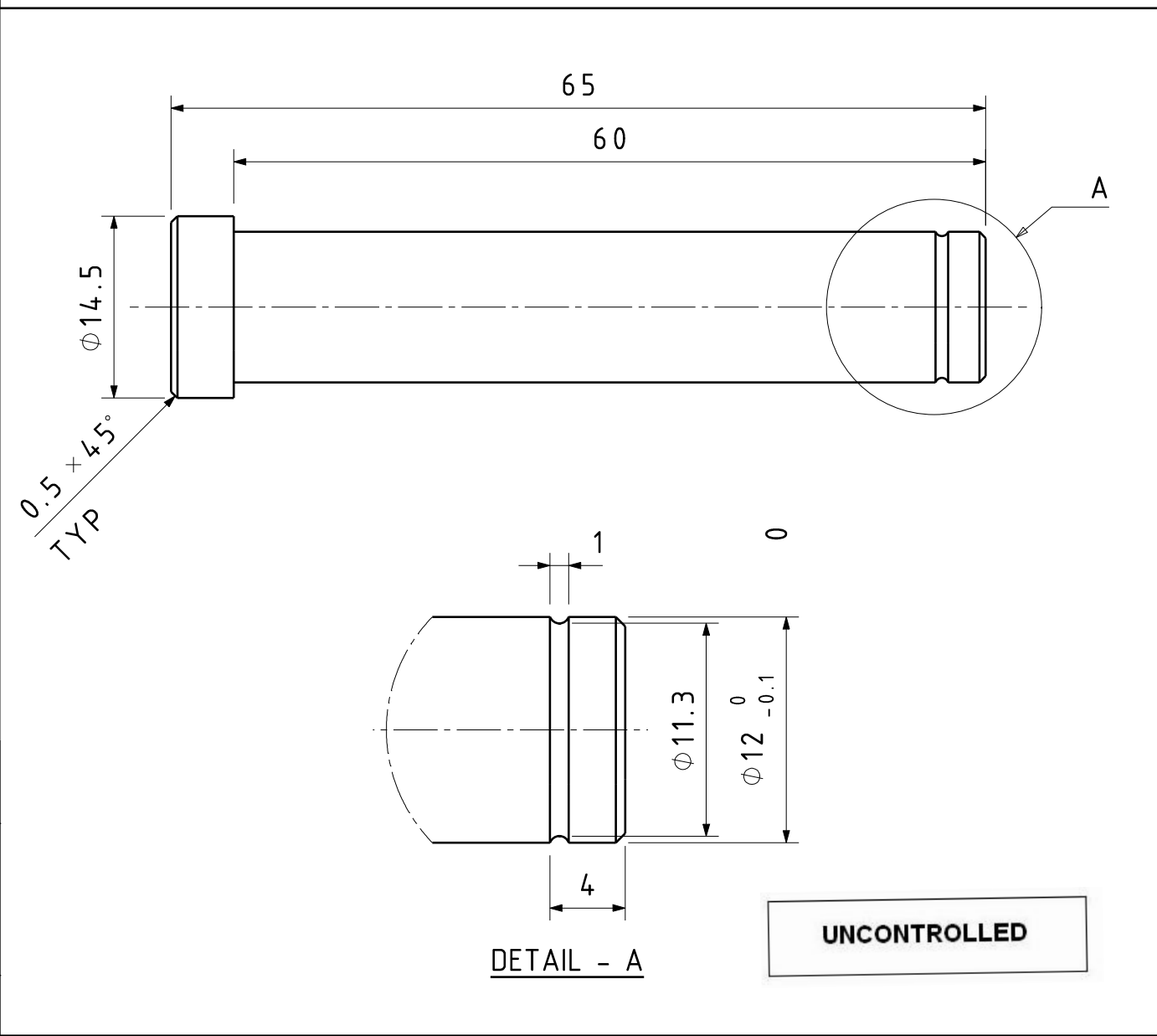


DETAIL - 2

2	1	525-50111-02	PAD			60X57X6THK		SUS304L-AISI304L- 2B FINISH		
1	1	525-50110	FIXING BRACKET			ASSY				
SL.No.	QTY	PART / STOCK No.	DESCRIPTION			SIZE	COMPANY STD./I.S		Wt. (Kg)	
							MATERIAL			
						PRODUCT	MUMBAI MTERO CARS L2 & L7			
						REF DRG				
						MATERIAL	-			
						HEAT TREAT.		APPD		09.06.2020
						SURFACE TREAT.			REVD	
						TITLE	CHKD			09.06.2020
						FIXING BRACKET		DRWN		09.06.2020
								SCALE		SHEET
						BEM BEML LIMITED		1:1	1 OF 1	0.5 Kg
								DRG No.		
ALT.NO.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	 BEML LIMITED		525-50111		
						NEW FRONTIERS. NEW DREAMS				-

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MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	RANGE	0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000	ABOVE 4000	RA
	TOLERANCE	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	~
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227										
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (PT-1) (MEDIUM)							QUALITY OF WELD JOINTS REF, RD 230 MEDIUM			
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS. 1012.C.						STATUS:				
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										



N6	N7	N8	N9	N10	N11	N12	GRADE No.	SURFACE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227		
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (PT-1) (MEDIUM)	QUALITY OF WELD JOINTS REF, RD 230 MEDIUM	
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS. 1012.C.	STATUS:	
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96		



1. ITEM SHALL CONFORM TO THE DIRAK PART NO:209-0201.00- A4872EN
2. RUBBER COLOR : BLACK
3. RUBBER MATERIAL SHALL CONFORM TO PTS DOC NO: GR/TD/1766.

A4