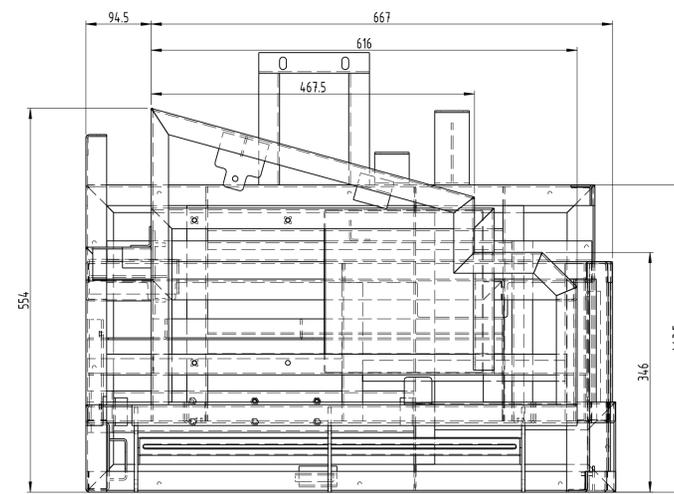
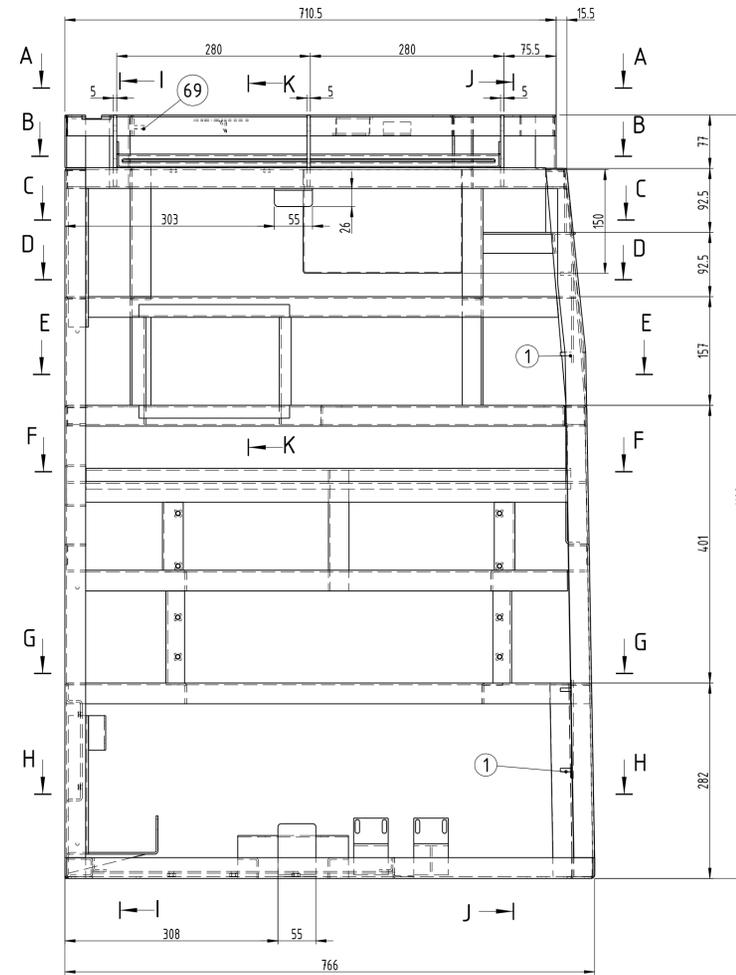
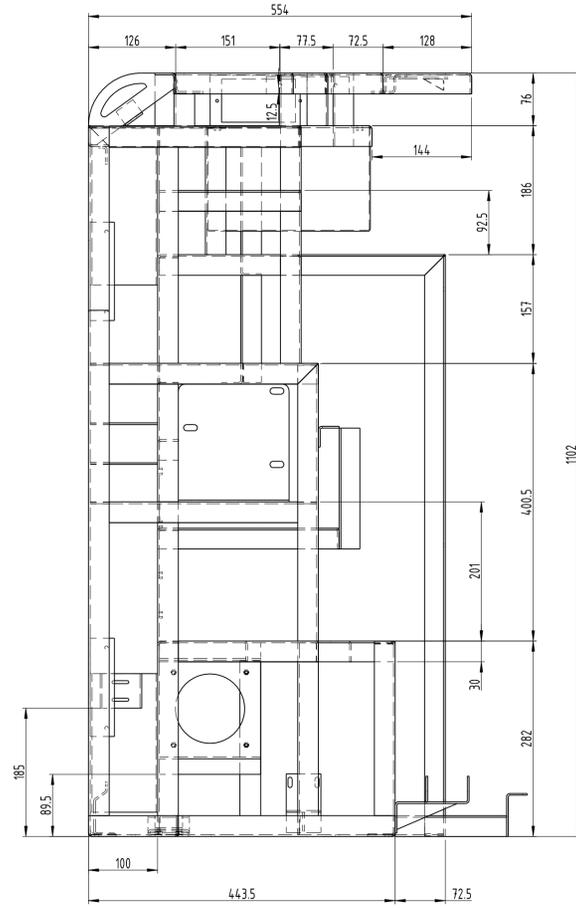


MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	RANGE	0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000	ABOVE 4000	RA
TOLERANCE		±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	~
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227										
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (PT-3) (MEDIUM)										
QUALITY OF WELD JOINTS REF. 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:									PROTO/PRODUCTION	



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

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./IS	Wt. (Kg)
△			PRODUCT	MUMBAI METRO CARS - L2 & L7		
△			REF DRG			
△			MATERIAL	SUS304/AISI304-2B FINISH		
△			HEAT TREAT		APPD	18.07.2019
△			SURFACE TREAT		REV D	18.07.2019
△			TITLE	AUX, DESK FRAME	CHKD	18.07.2019
△					DRWN	18.07.2019
△			SCALE	1:5	SHEET	1 OF 6
△			ORG No.		ALT	
ALT No.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	

BEML LIMITED 525-18126

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	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	~	

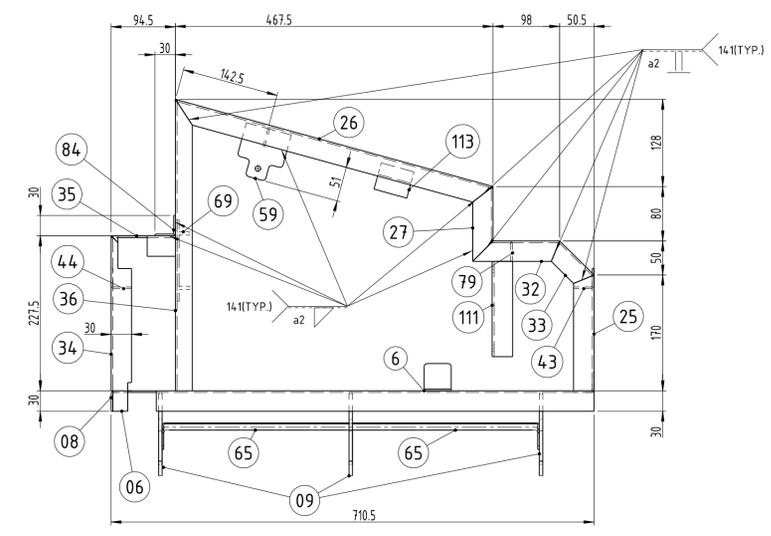
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227

UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (PT-1) (MEDIUM)

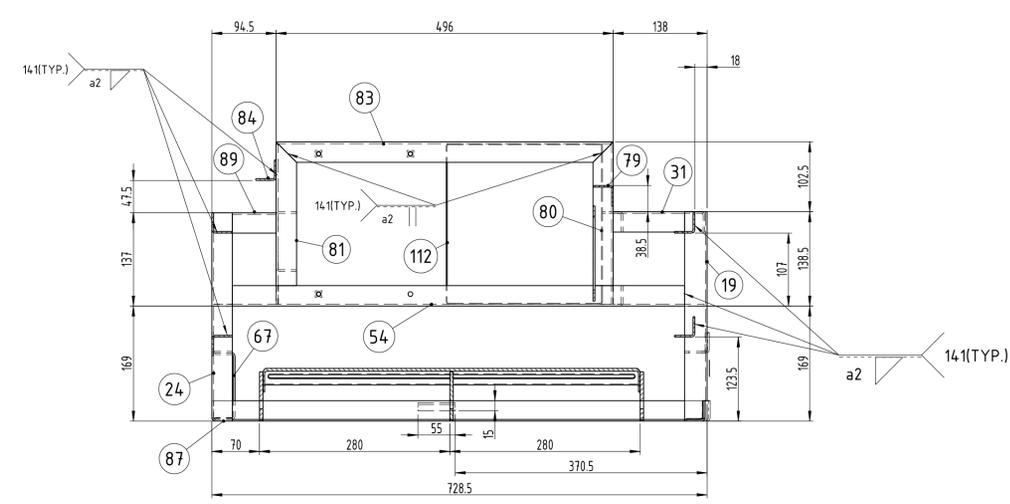
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD. DS. 1012.C

WELDING SHALL BE CARRIED OUT AS PER IS. 9595-96

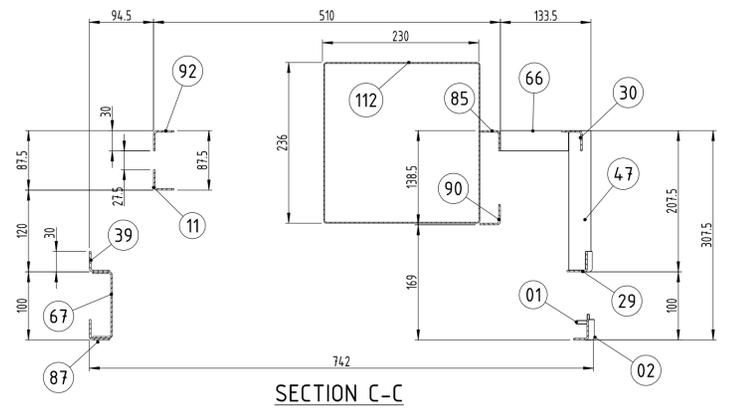
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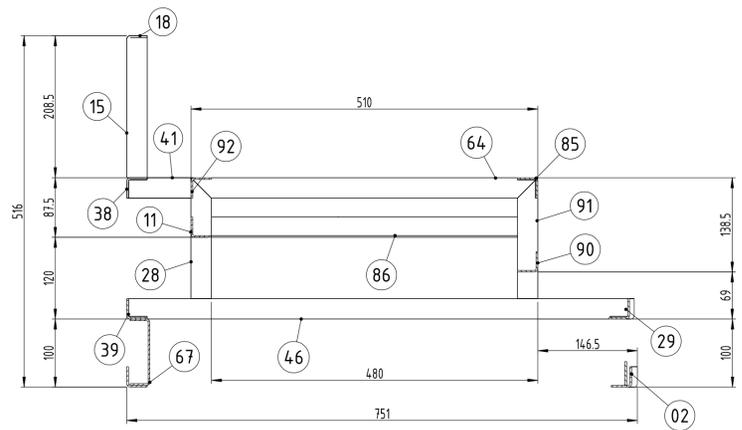
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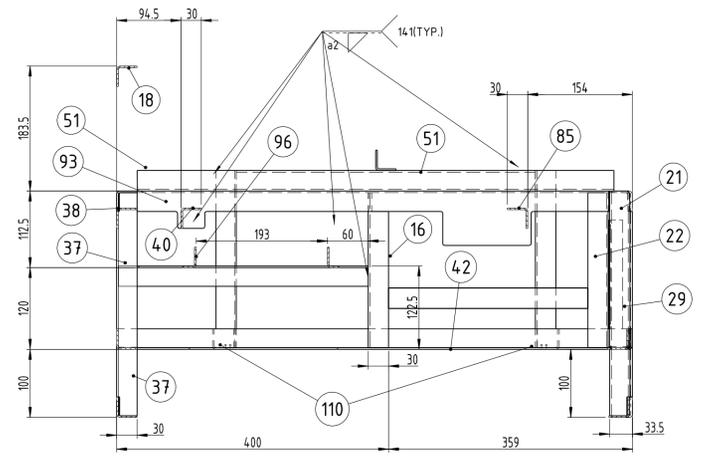
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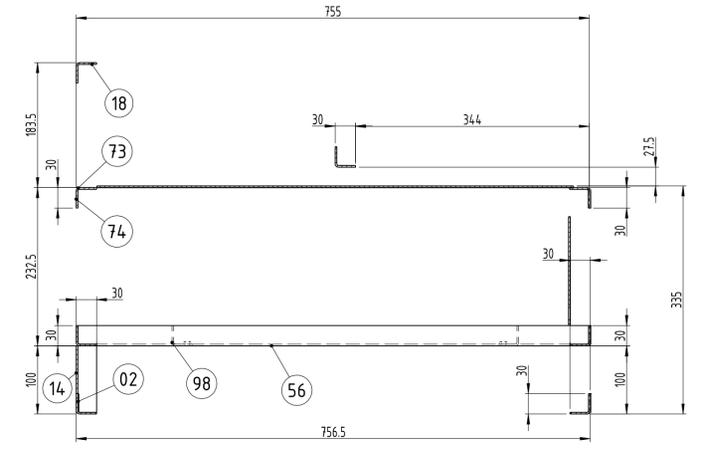
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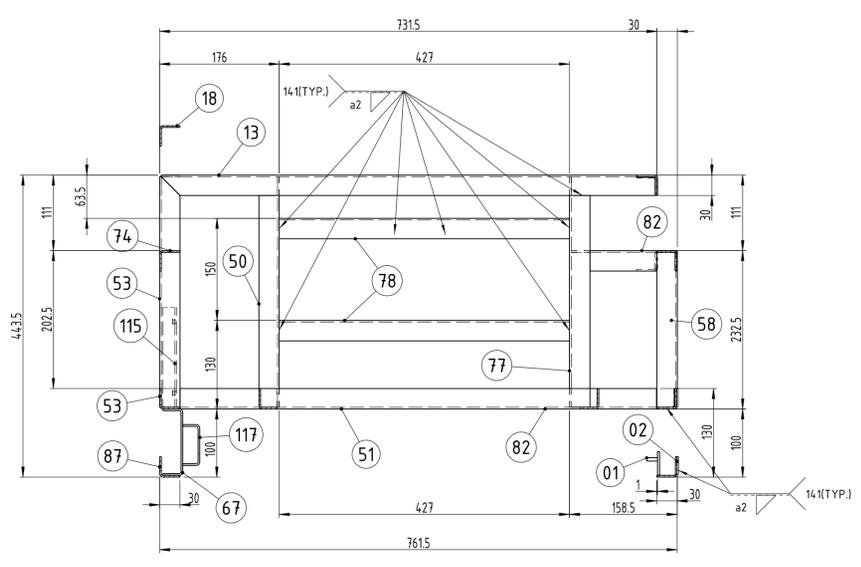
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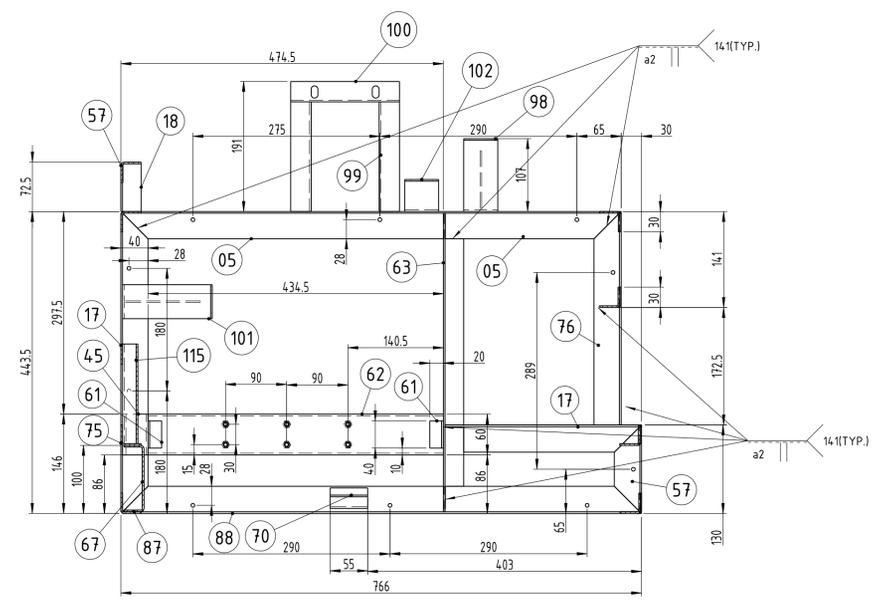
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SECTION F-F



SECTION G-G



SECTION H-H

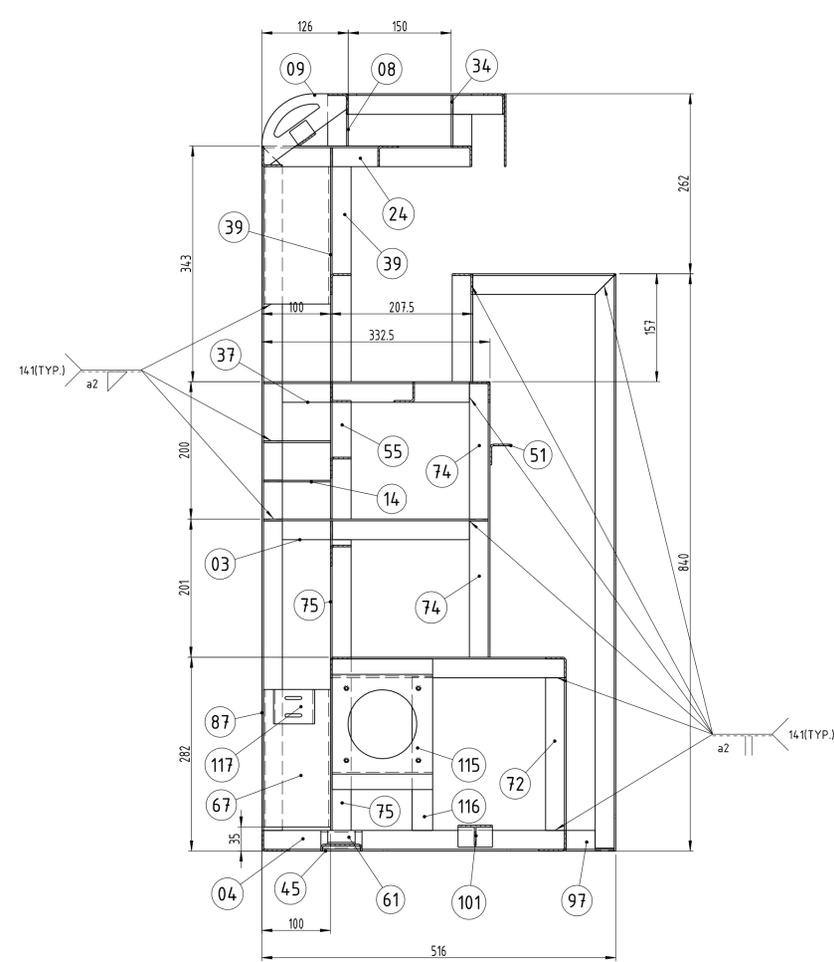
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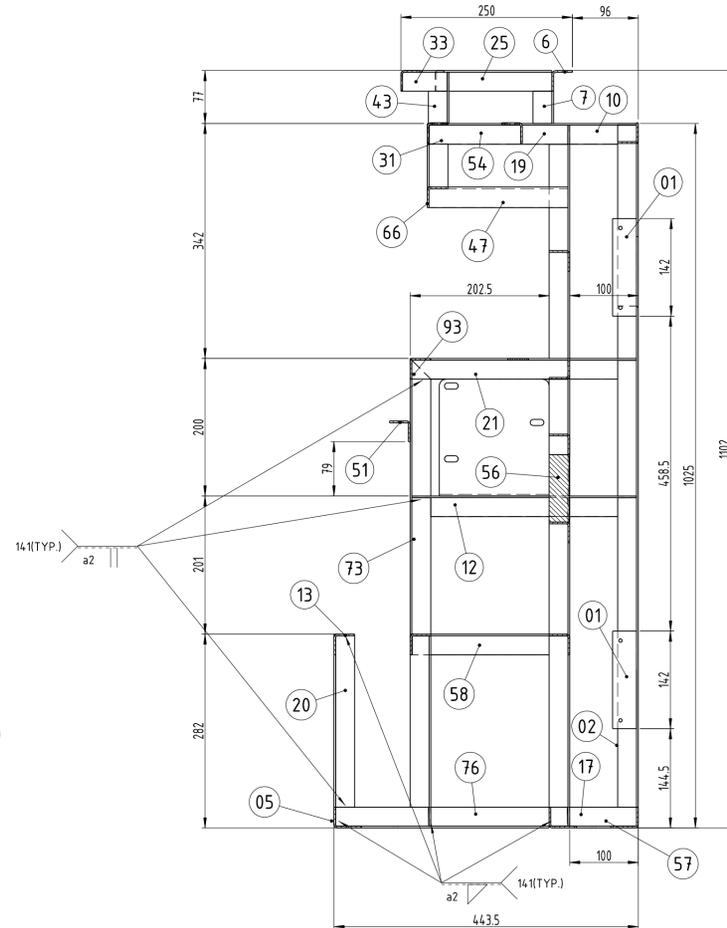
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./IS	Wt. (kg)
△			PRODUCT	MUMBAI METRO CARS - L2 & L7		
△			REF DRG			
△			MATERIAL	SUS304/AISI304-2B FINISH		
△			HEAT TREAT	APPD		18.07.2019
△			SURFACE TREAT	REVD		18.07.2019
△			TITLE	CHKD		18.07.2019
△				DRWN		18.07.2019
△			SCALE	1:5	SHEET	WT.
△			DRG No.	2	OF 6	
ALT						

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 525-18126

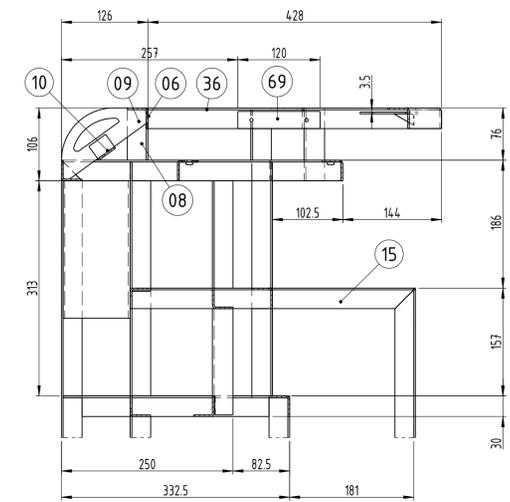
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	RANGE	TOLERANCE						RA		
		0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000		2000-4000	ABOVE 4000
		±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	~
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227								QUALITY OF WELD JOINTS 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: PROTO/PRODUCTION		



SECTION I-I



SECTION J-J



SECTION K-K

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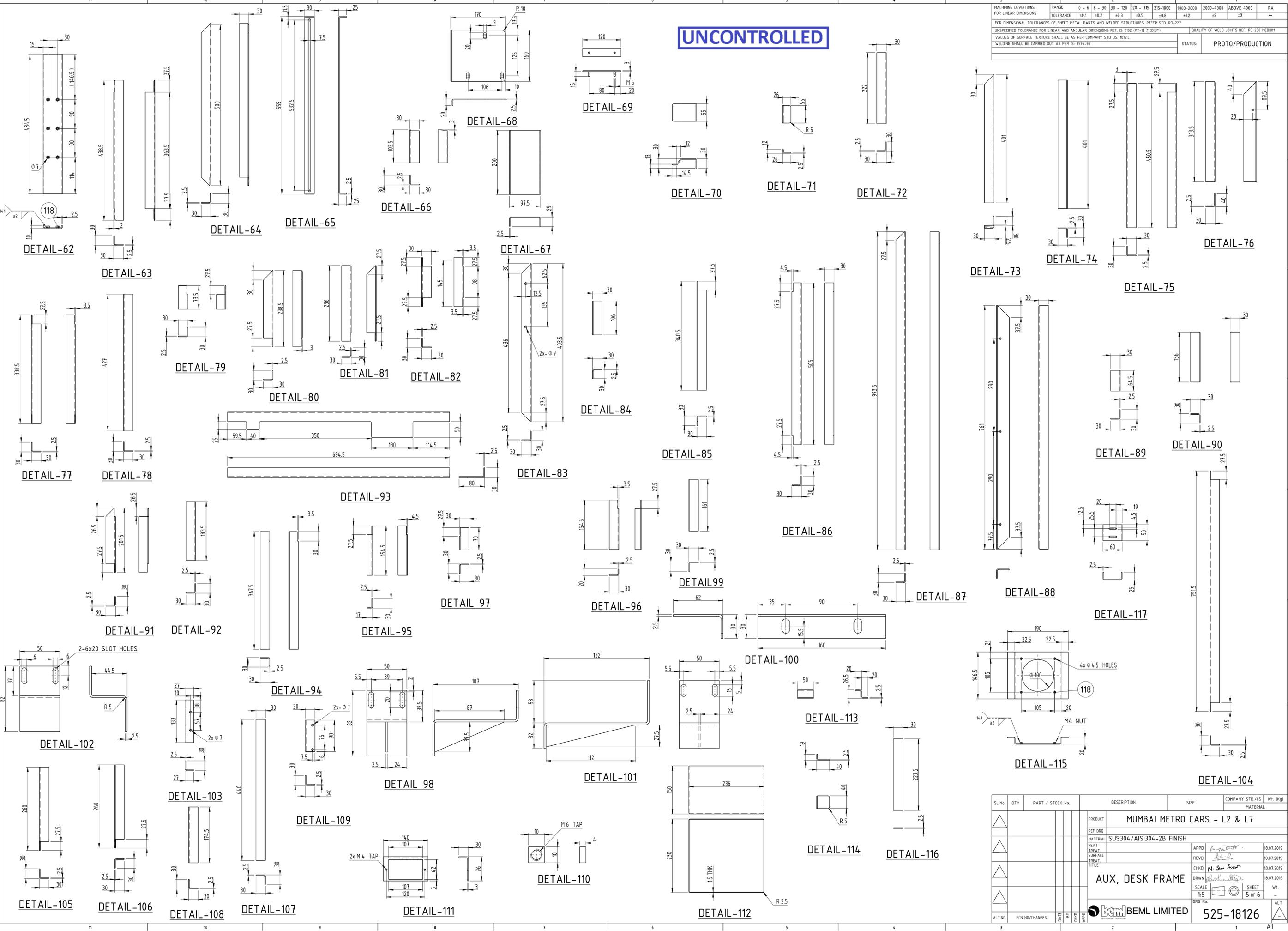
SL No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./IS	WT. (Kgs)
△			PRODUCT	MUMBAI METRO CARS - L2 & L7		
△			REF. DRG			
△			MATERIAL	SUS304/AISI304-2B FINISH		
△			HEAT TREAT.	APPD		18.07.2019
△			SURFACE TREAT.	REVD		18.07.2019
△			TITLE	CHKD		18.07.2019
△			AUX, DESK FRAME	DRWN		18.07.2019
△			SCALE	1:5	SHEET	3 OF 6
△			DRG No.	525-18126		ALT
△			ALT. NO.	ECN NO/CHANGES	DATE	BY
			APPD	CHKD	DATE	BY



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MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	RANGE										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. RD-227											
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (PT-II) (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										PROTO/PRODUCTION	

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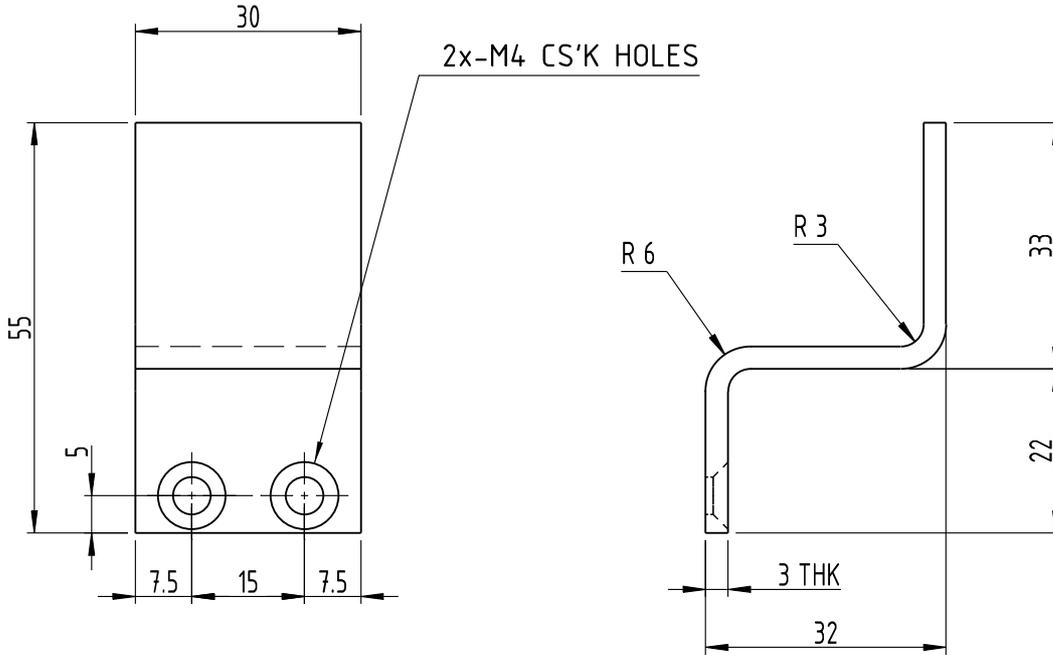
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./IS	WT. (kg)
			PRODUCT	MUMBAI METRO CARS - L2 & L7		
			REF. DRG			
			MATERIAL	SUS304/AISI304-2B FINISH		
			HEAT TREAT.	APPD		18.07.2019
			SURFACE TREAT.	REVD		18.07.2019
			TITLE	CHKD		18.07.2019
				DRWN		18.07.2019
				SCALE	1:5	SHEET 5 OF 6
				DRG No.		WT. -
						ALT -
ALT NO.	EEN NO/CHANGES	DATE	BY	CHKD	APPD	

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525-18126

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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:	PROTO/PRODUCTION		
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										



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NOTE:

1. ALL DIMENSIONS ARE IN mm.
2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
3. REMOVE SHARP EDGES AND BURRS.
4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

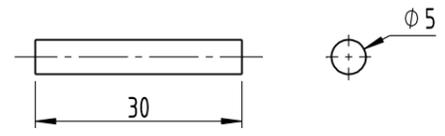
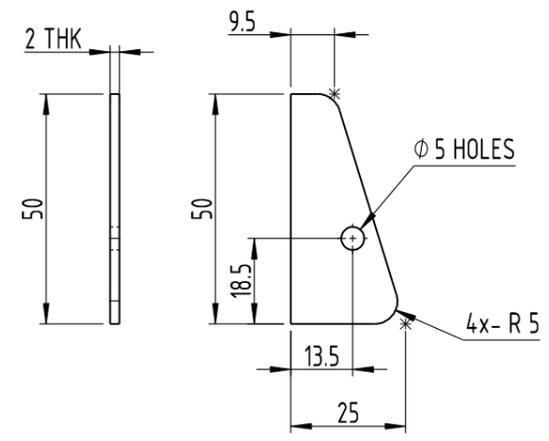
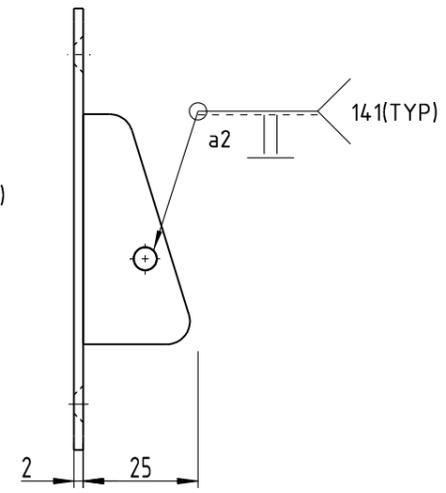
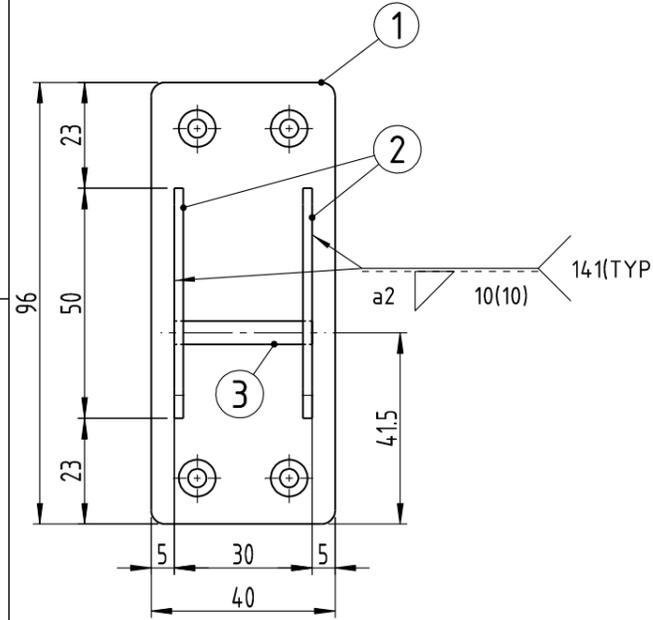
N1	0.025	▽
N2	0.05	▽
N3	0.1	▽
N4	0.2	▽
N5	0.4	▽
N6	0.8	▽
N7	1.6	▽
N8	3.2	▽
N9	6.3	▽
N10	12.5	▽
N11	25	▽
N12	50	▽
GRADE No.		▽
VALUE		▽
SYMBOL		▽
SURFACE ROUGHNESS		▽

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./IS	Wt. (Kg)	
					MATERIAL		
			PRODUCT	MUMBAI METRO CARS - L2 & L7			
			REF DRG				
			MATERIAL	SUS304 / AISI304-2B FINISH			
			HEAT TREAT.	APPD	<i>[Signature]</i>	11.06.2020	
			SURFACE TREAT.	REVD	<i>[Signature]</i>	11.06.2020	
			TITLE	CHKD	<i>[Signature]</i>	11.06.2020	
			TRCP-UTO BRACKET	DRWN	<i>[Signature]</i>	11.06.2020	
				SCALE		SHEET	Wt.
				1:1		1 OF 1	-
			DRG No.	525-18127		ALT	
					BEML LIMITED		
			ALT.NO.	ECN NO/CHANGES	DATE	BY	
						CHKD	
						APPD	

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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												

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: PROTO/PRODUCTION			
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										



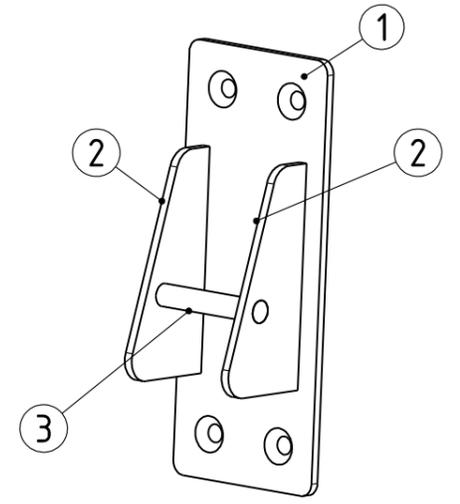
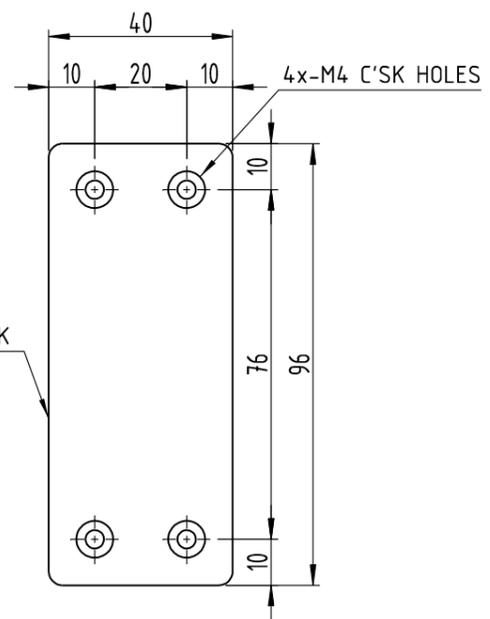
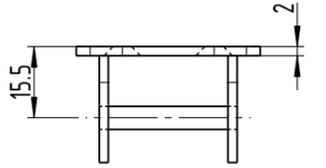
DETAIL 3

DETAIL 2

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NOTE:

1. ALL DIMENSIONS ARE IN mm.
2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
3. WELDING SYMBOLS ACCORDING TO ISO:2553.
4. WELD AREAS SHALL BE PICKLED AND PASSIVATED.
5. REMOVE SHARP EDGES AND BURRS.
6. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.



ISOMETRIC VIEW

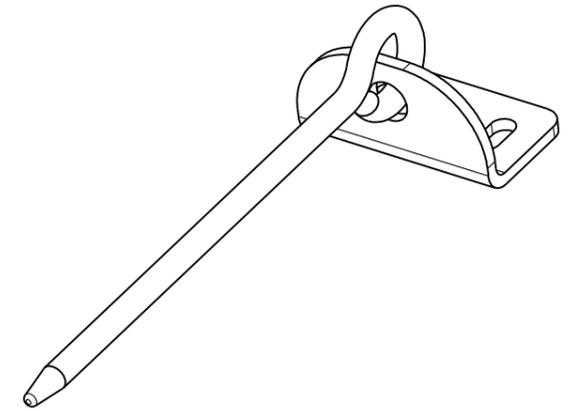
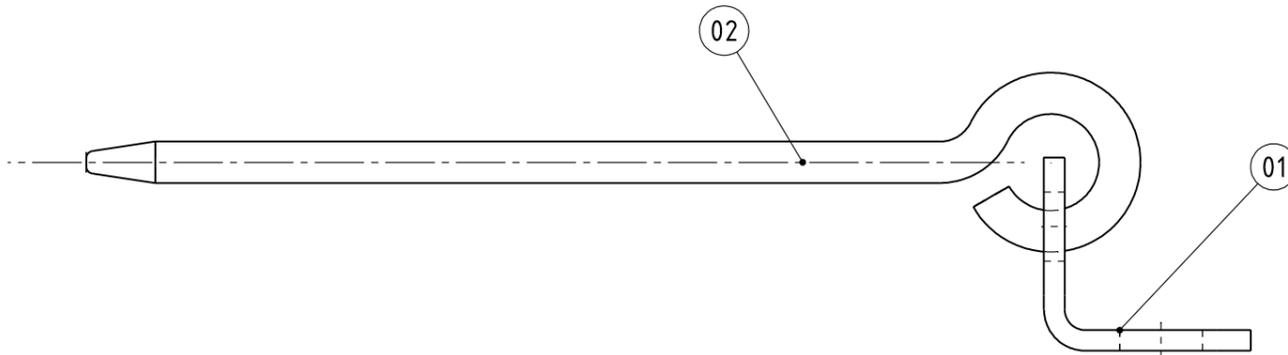
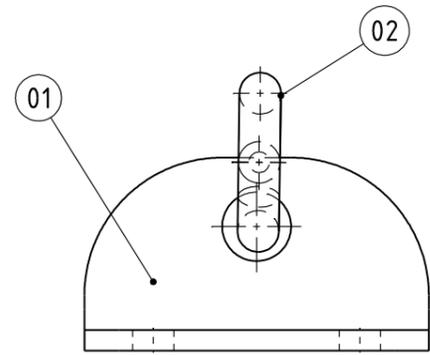
DETAIL-1

3	1	-	PIN	DIA. 5x30	SUS304/AISI304-2B FINISH	
2	2	-	BRACKET	2THK	SUS304/AISI304-2B FINISH	
1	1	-	PLATE	96x40x2THK	SUS304/AISI304-2B FINISH	
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)
			PRODUCT	MUMBAI METRO CARS - L2 & L7		
			REF DRG			
			MATERIAL	SUS304/AISI304-2B FINISH		
			HEAT TREAT.	APPD	<i>[Signature]</i>	10.06.2020
			SURFACE TREAT.	REVD	<i>[Signature]</i>	10.06.2020
			TITLE	CHKD	<i>[Signature]</i>	10.06.2020
			BRACKET ASSY	DRWN	<i>[Signature]</i>	10.06.2020
				SCALE		SHEET
				1:1.5	1 OF 1	-
			DRG No.	525-18134		ALT
			BEML LIMITED			

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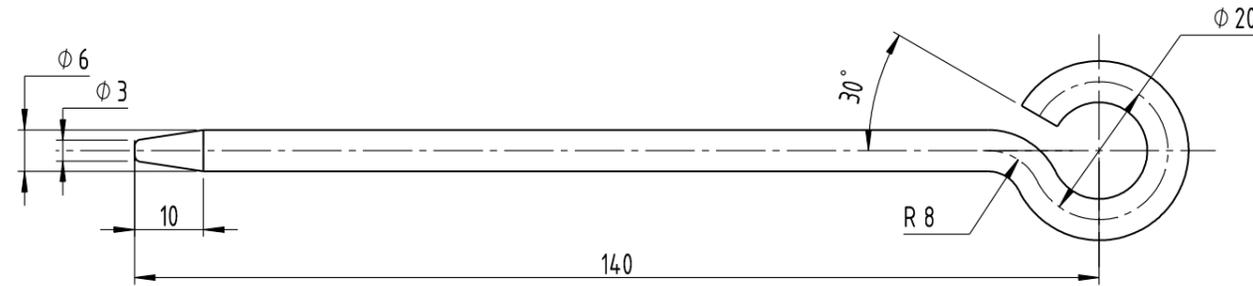
GRADE No.	N1	0.025
VALUE	N2	0.05
SYMBOL	N3	0.1
	N4	0.2
	N5	0.4
	N6	0.8
	N7	1.6
	N8	3.2
	N9	6.3
	N10	12.5
	N11	25
	N12	50
SURFACE ROUGHNESS		

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										
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: PROTO/PRODUCTION
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										



ISOMETRIC VIEW

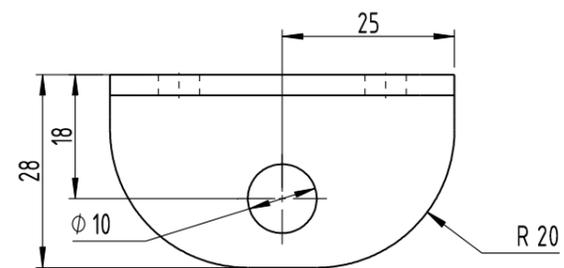
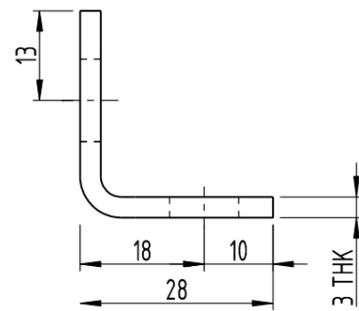
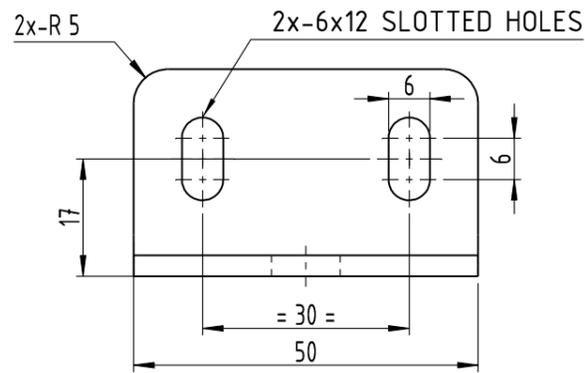
UNCONTROLLED



DETAIL '2'

NOTE:

1. ALL DIMENSIONS ARE IN mm.
2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
3. REMOVE SHARP EDGES AND BURRS.
4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.



DETAIL '1'

2	1	-	SUPPORT	Ø6	SUS304/AISI304-2B FINISH	
1	1	-	BRACKET	PL 30x28x3t,L=50	SUS304/AISI304-2B 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	SUS304/AISI304-2B FINISH		
			HEAT TREAT.	APPD	<i>[Signature]</i>	11.06.2020
			SURFACE TREAT.	REVD	<i>[Signature]</i>	11.06.2020
			TITLE	CHKD	<i>[Signature]</i>	11.06.2020
			BRACKET ASSY	DRWN	<i>[Signature]</i>	11.06.2020
				SCALE	1:1	SHEET 1 OF 1
			DRG No.	525-18135		
ALT.No.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	ALT
			BEML LIMITED <small>NEW FRONTIERS. NEW DREAMS</small>			

Beml BEML LIMITED
NEW FRONTIERS. NEW DREAMS

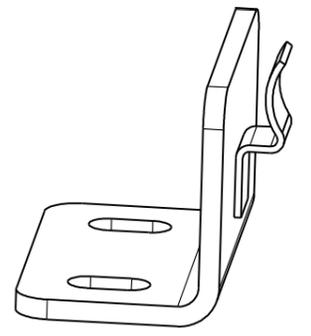
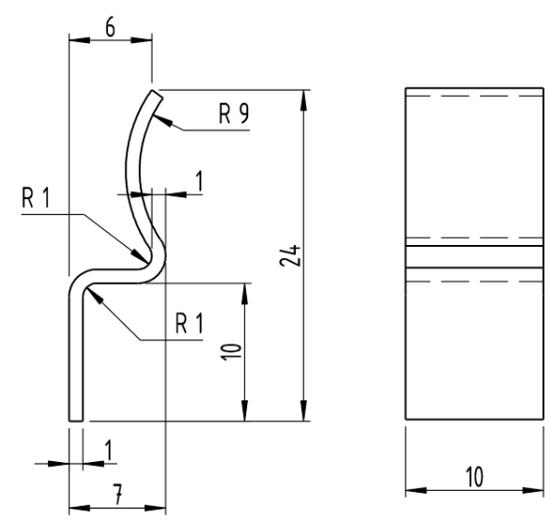
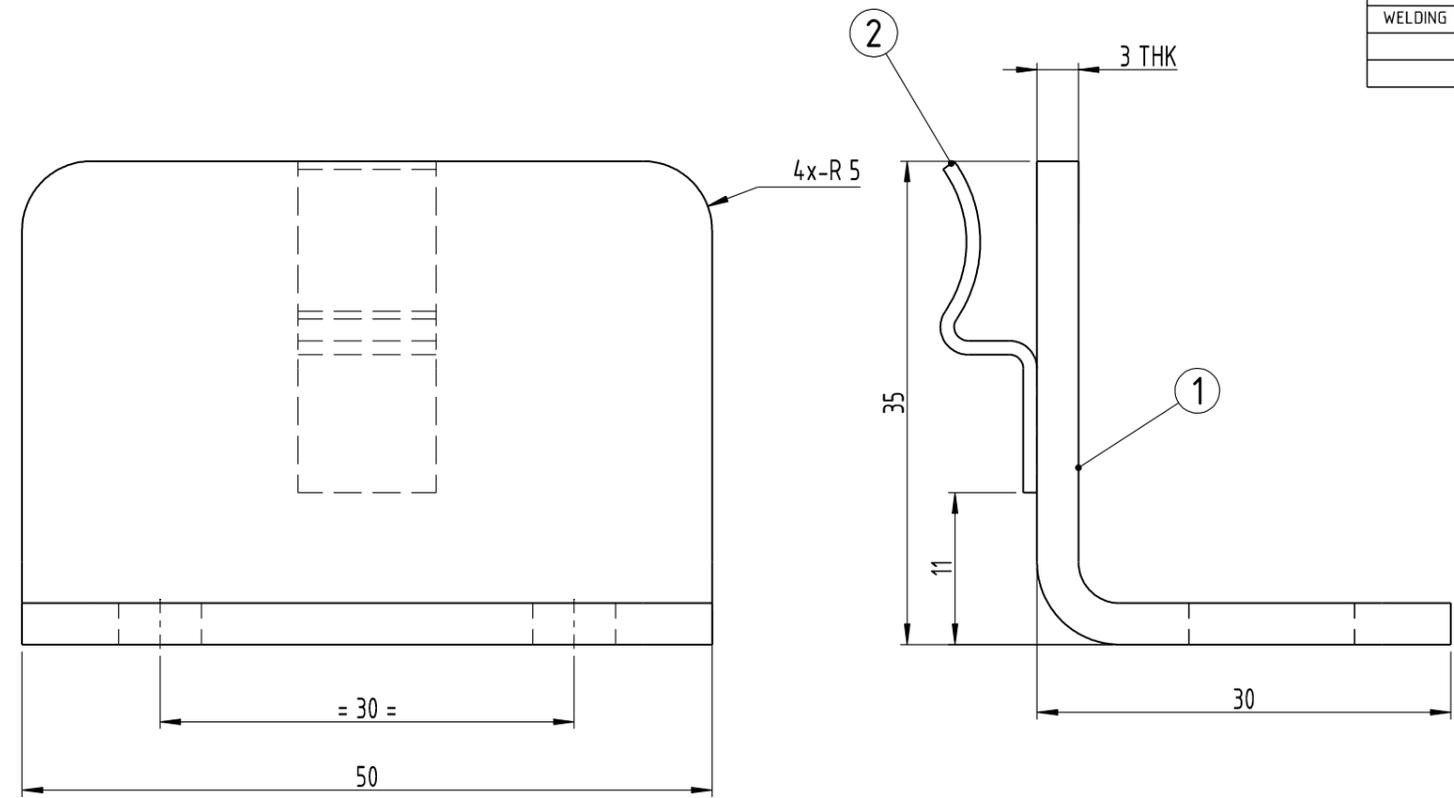
525-18135



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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												

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.								WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96		
								STATUS:		PROTO/PRODUCTION

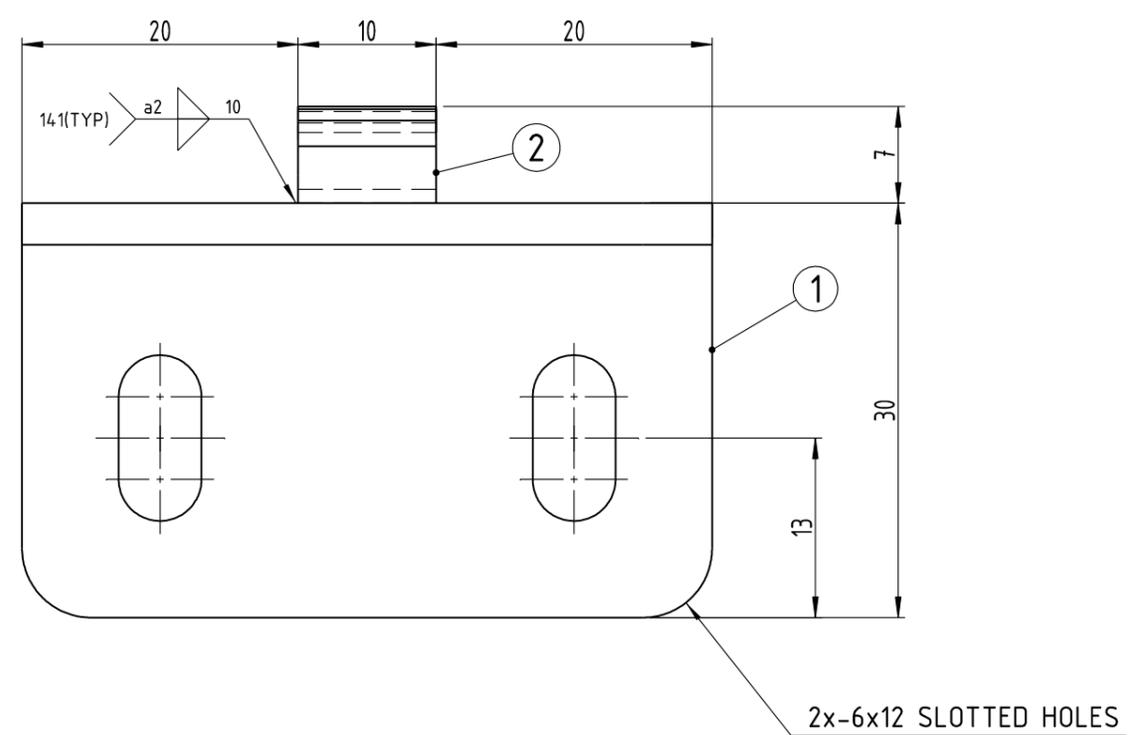


ISOMETRIC VIEW

DETAIL '2'

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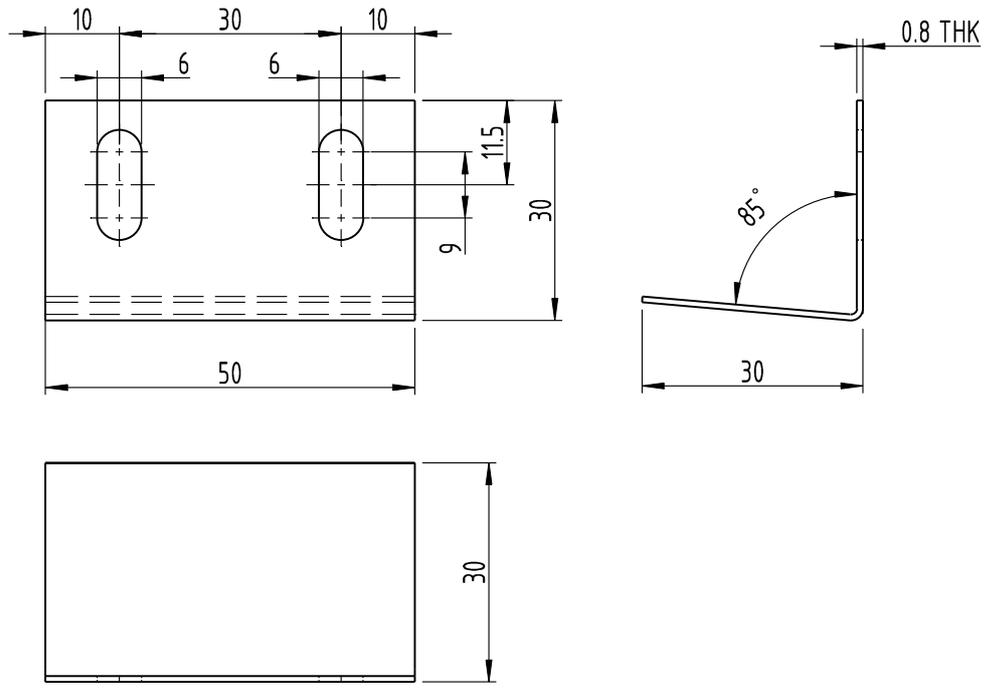
- NOTE:
1. ALL DIMENSIONS ARE IN mm.
 2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
 3. WELDING SYMBOLS ACCORDING TO ISO:2553.
 4. WELD AREAS SHALL BE PICKLED & PASSIVATED.
 5. REMOVE SHARP EDGES AND BURRS.
 6. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.



2	1	-	BRACKET	1†	SUS304/AISI304-2B FINISH		
1	1	-	BRACKET	65x50x3†	SUS304/AISI304-2B FINISH		
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)	
			PRODUCT	MUMBAI METRO CARS - L2 & L7			
			REF DRG				
			MATERIAL	SUS304/AISI304-2B FINISH			
			HEAT TREAT.	APPD	<i>[Signature]</i>	11.06.2020	
			SURFACE TREAT.	REVD	<i>[Signature]</i>	11.06.2020	
			TITLE	CHKD	<i>[Signature]</i>	11.06.2020	
				DRWN	<i>[Signature]</i>	11.06.2020	
				SCALE		SHEET	Wt.
				1:1		1 OF 1	-
				DRG No.	525-18136		
ALT.No.	ECN NO/CHANGES	DATE	BY	CHKD	APPD		
			BEML LIMITED		525-18136		

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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.										
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96							STATUS:	PROTO/PRODUCTION		



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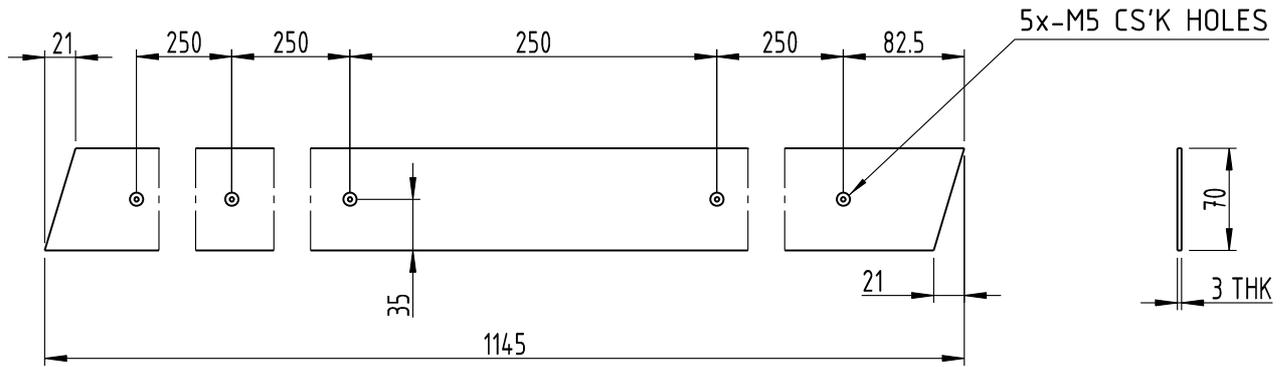
- NOTE:**
1. ALL DIMENSIONS ARE IN mm.
 2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
 3. REMOVE SHARP EDGES AND BURRS.
 4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

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

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)
			PRODUCT	MUMBAI METRO CARS - L2 & L7		
			REF DRG			
			MATERIAL	SUS304/AISI304-2B FINISH		
			HEAT TREAT.	APPD	<i>[Signature]</i>	11.06.2020
			SURFACE TREAT.	REVD	<i>[Signature]</i>	11.06.2020
			TITLE	CHKD	<i>[Signature]</i>	11.06.2020
			BRACKET	DRWN	<i>[Signature]</i>	11.06.2020
				SCALE	1:1	SHEET
				Wt.		-
			DRG No.	525-18137		ALT
			BEML LIMITED			

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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.										
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96							STATUS:	PROTO/PRODUCTION		



SL NO.	PART NO.	DESCRIPTION	WT (KG)	REMARKS
1	525-18155-300	PANEL PLATE-LH	1.89	AS DRAWN
2	525-18155-301	PANEL PLATE-RH	1.89	OPPOSITE

UNCONTROLLED

NOTE:

1. ALL DIMENSIONS ARE IN mm.
2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
3. REMOVE SHARP EDGES AND BURRS.
4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

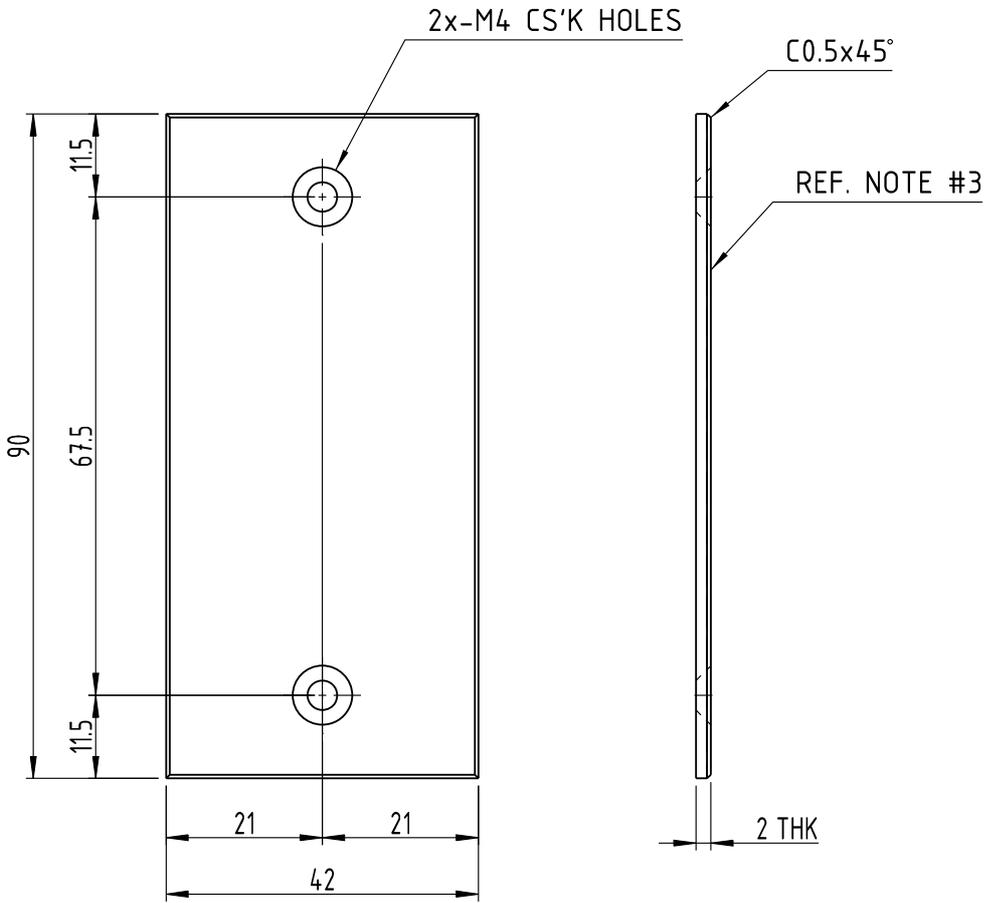
N1	0.025	▽
N2	0.05	▽
N3	0.1	▽
N4	0.2	▽
N5	0.4	▽
N6	0.8	▽
N7	1.6	▽
N8	3.2	▽
N9	6.3	▽
N10	12.5	▽
N11	25	▽
N12	50	▽
GRADE No.		▽
VALUE		▽
SYMBOL		▽
SURFACE		▽
ROUGHNESS		▽

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)
					MATERIAL	
			PRODUCT	MUMBAI METRO CARS - L2 & L7		
			REF DRG			
			MATERIAL	SUS304/AISI304-2B FINISH		
			HEAT TREAT.	APPD	<i>[Signature]</i>	21.04.2020
			SURFACE TREAT.	REVD	<i>[Signature]</i>	21.04.2020
			TITLE	CHKD	<i>[Signature]</i>	21.04.2020
				DRWN	<i>[Signature]</i>	21.04.2020
				SCALE		SHEET Wt.
				NTS		1 OF 1 -
				DRG No.	525-18155	
						ALT

BEML LIMITED
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: PROTO/PRODUCTION			
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										



UNCONTROLLED

- NOTE:**
1. ALL DIMENSIONS ARE IN mm.
 2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
 3. THE EXPOSED SURFACE SHALL BE BRUSH FINISHED TO ASTM A480. NO.6 FINISH.
 4. REMOVE SHARP EDGES AND BURRS.
 5. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

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

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	90x42x2THK	COMPANY STD./I.S	Wt. (Kg)
						MATERIAL	
			PRODUCT	MUMBAI METRO CARS - L2 & L7			
			REF DRG				
			MATERIAL	SUS304/AISI304-BRUSH FINISH AS PER ASTM A480 NO.6 FINISH			
			HEAT TREAT.	APPD	<i>[Signature]</i>	12.05.2020	
			SURFACE TREAT.	REVD	<i>[Signature]</i>	12.05.2020	
			TITLE	CHKD	<i>[Signature]</i>	12.05.2020	
			COVER PLATE	DRWN	<i>[Signature]</i>	12.05.2020	
				SCALE		SHEET	Wt.
				1:1		1 OF 1	0.059 kg
			DRG No.	525-18163			ALT
					BEML 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												
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

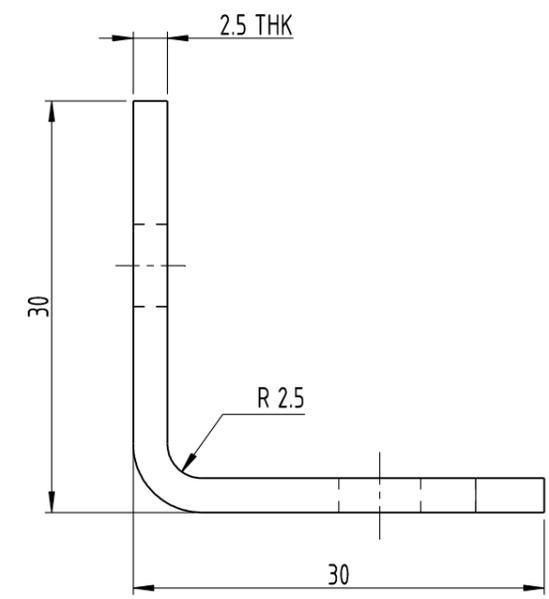
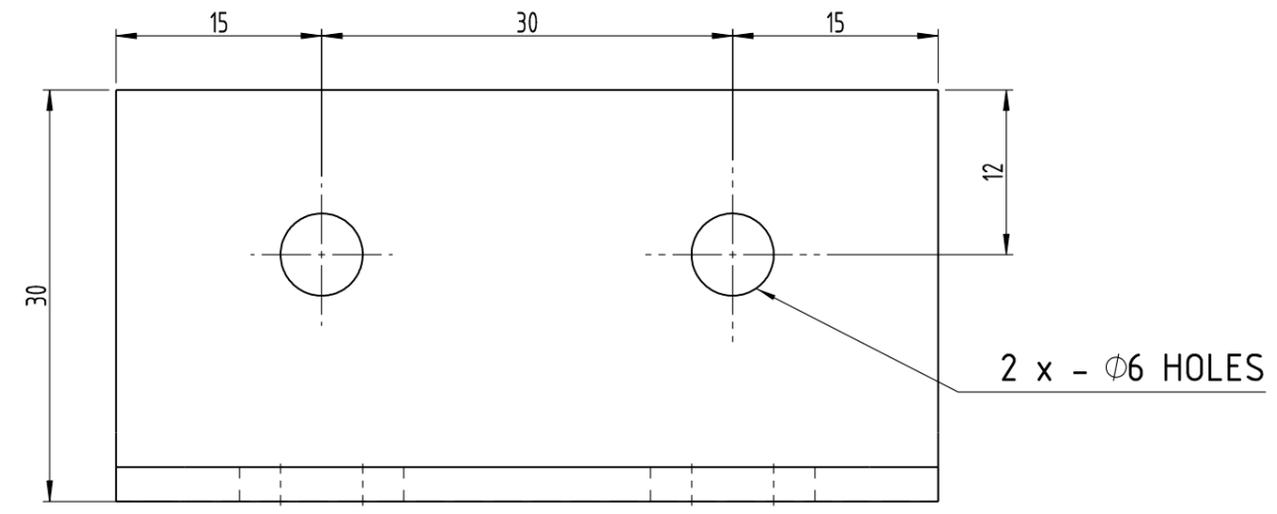
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227

UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (PT-1) (MEDIUM) QUALITY OF WELD JOINTS REF, RD 230 MEDIUM

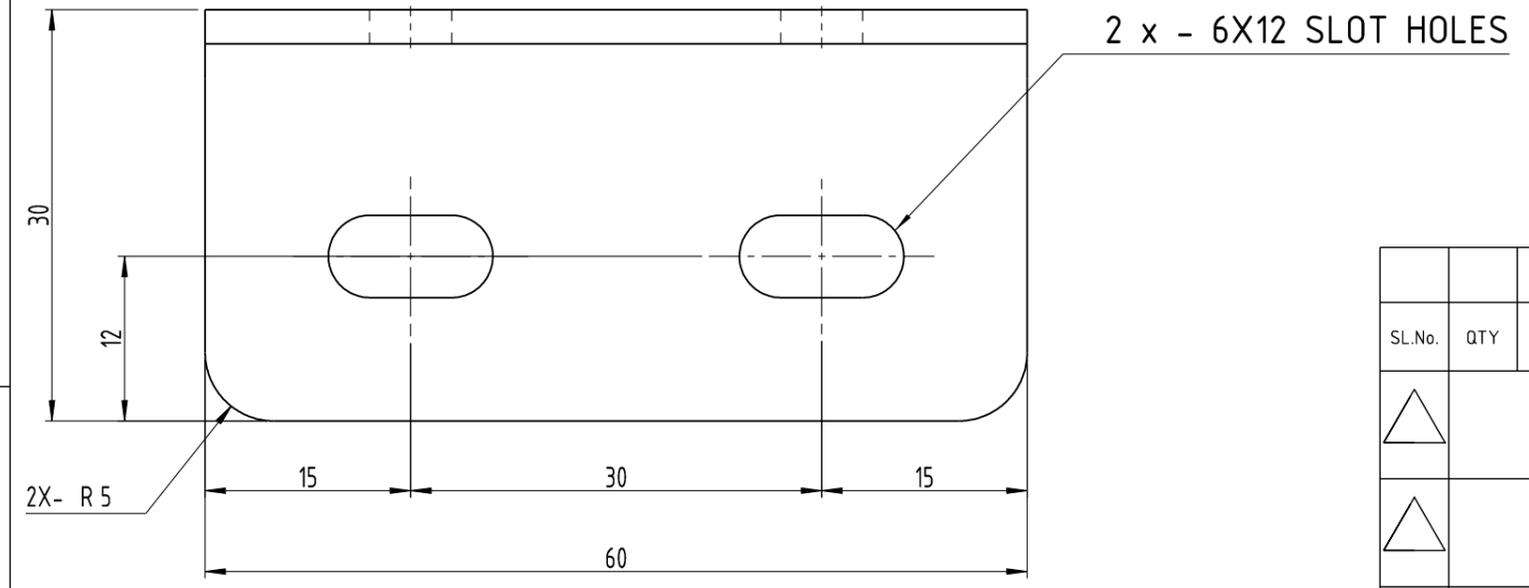
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS. 1012.C.

WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96

STATUS: **PROTO/PRODUCTION**



UNCONTROLLED



- NOTE:**
1. ALL DIMENSIONS ARE IN mm.
 2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
 3. REMOVE SHARP EDGES AND BURRS.
 4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)
			PRODUCT	MUMBAI METRO CARS - L2 & L7		
			REF DRG			
			MATERIAL	SUS304/AISI304-2B FINISH		
			HEAT TREAT.	APPD	<i>[Signature]</i>	11.06.2020
			SURFACE TREAT.	REVD	<i>[Signature]</i>	11.06.2020
			TITLE	CHKD	<i>[Signature]</i>	11.06.2020
				DRWN	<i>[Signature]</i>	11.06.2020
				SCALE	1:1	
				SHEET	1 OF 1	
				DRG No.	525-18165	
ALT.No.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	



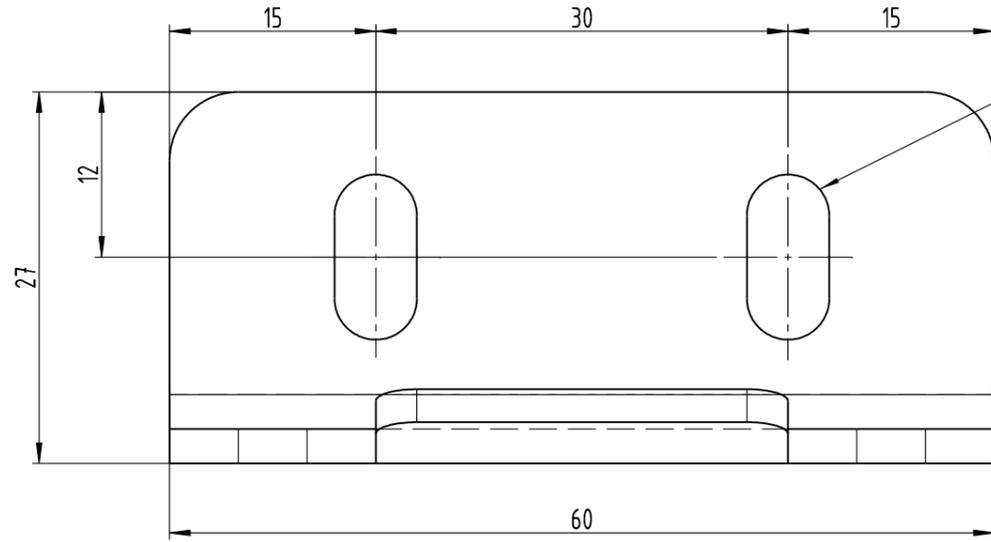
BRACKET

ALT

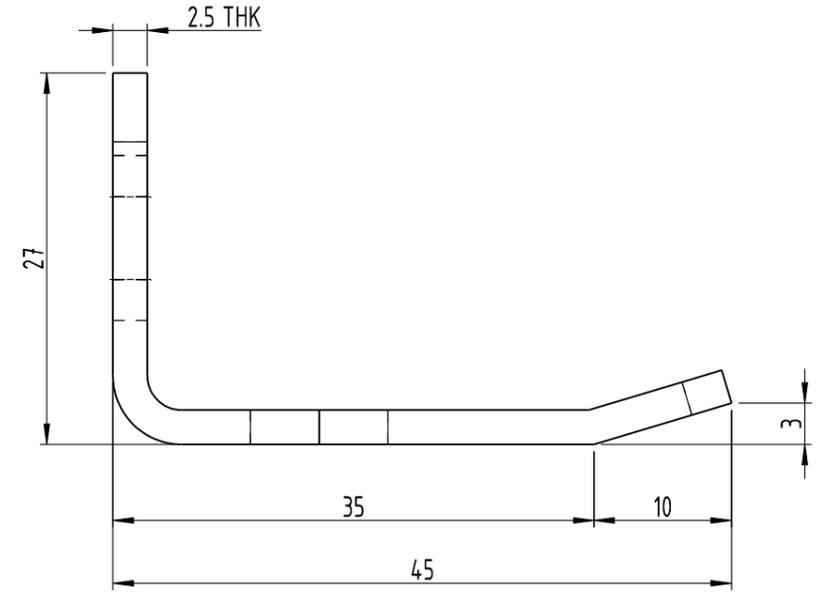
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GRADE No.	N1	0.025
VALUE	N2	0.05
SYMBOL	N3	0.1
	N4	0.2
SYMBOL	N5	0.4
	N6	0.8
SYMBOL	N7	1.6
	N8	3.2
SYMBOL	N9	6.3
	N10	12.5
SYMBOL	N11	25
	N12	50
SURFACE ROUGHNESS		

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										
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.										
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										
STATUS:									PROTO/PRODUCTION	



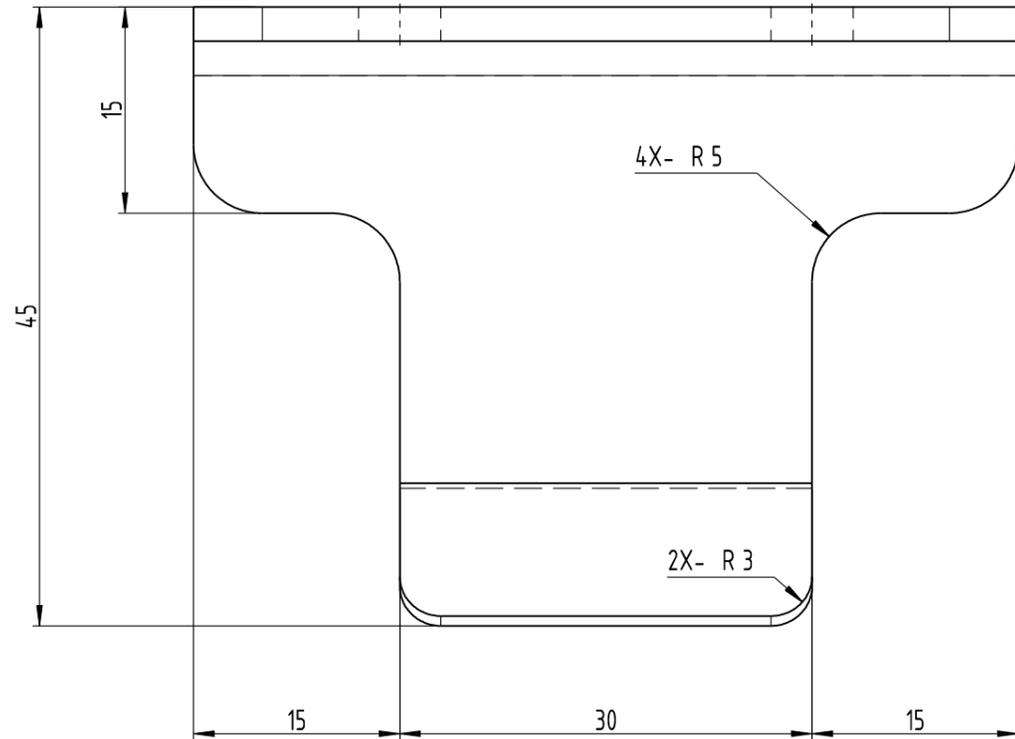
2 x - 6X12 SLOT HOLES



UNCONTROLLED

NOTE:

1. ALL DIMENSIONS ARE IN mm.
2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
3. REMOVE SHARP EDGES AND BURRS.
4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.



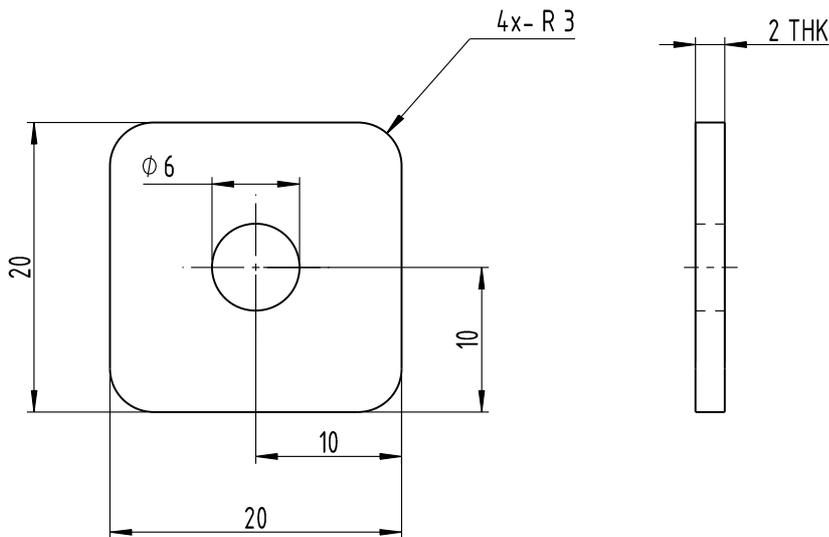
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)
					MATERIAL	
			PRODUCT	MUMBAI METRO CARS - L2 & L7		
			REF DRG			
			MATERIAL	SUS304/AISI304-2B FINISH		
			HEAT TREAT.	APPD	<i>[Signature]</i>	11.06.2020
			SURFACE TREAT.	REVD	<i>[Signature]</i>	11.06.2020
			TITLE	CHKD	<i>[Signature]</i>	11.06.2020
				DRWN	<i>[Signature]</i>	11.06.2020
				SCALE	1:1	
				SHEET	1 OF 1	
				DRG No.	525-18166	
ALT.NO.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	

beml BEML LIMITED
NEW FRONTIERS. NEW DREAMS

ALT
-

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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: PROTO/PRODUCTION			
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										



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NOTE:

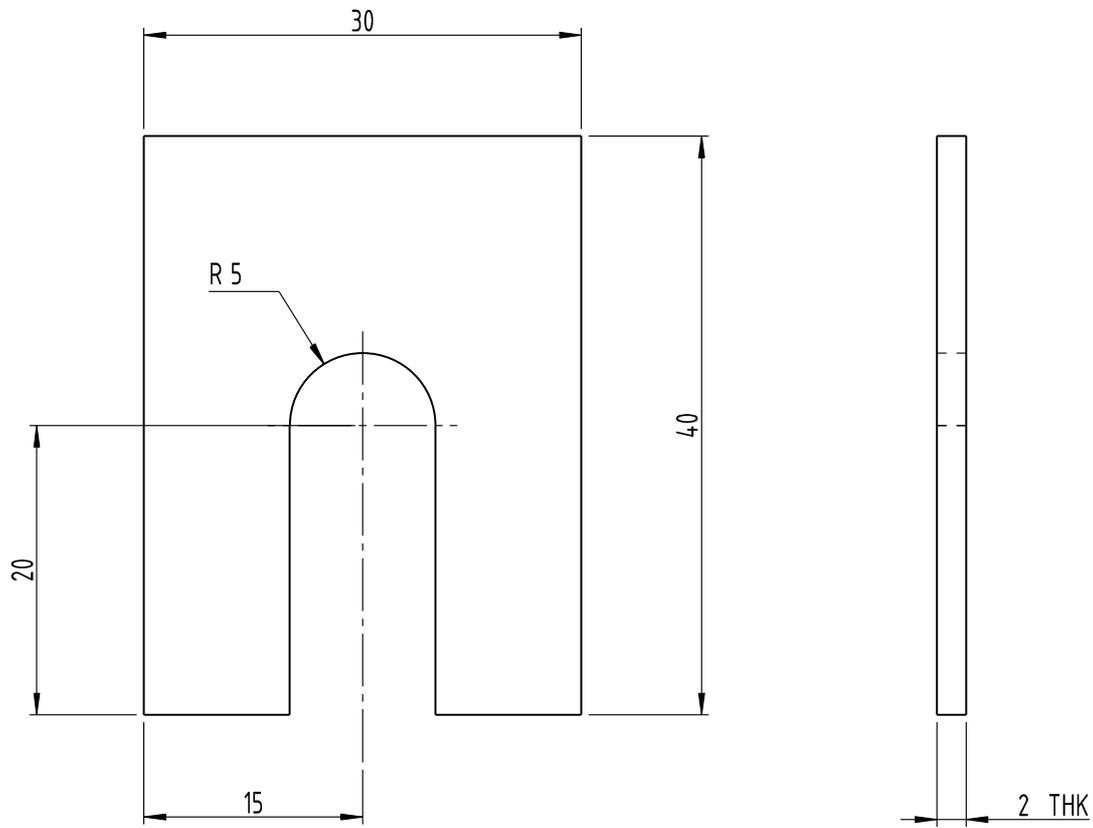
1. ALL DIMENSIONS ARE IN mm.
2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
3. REMOVE SHARP EDGES AND BURRS.
4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

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	▽
GRADE No.		
VALUE		
SYMBOL		
SURFACE		
ROUGHNESS		

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)	
					MATERIAL		
			PRODUCT	MUMBAI METRO CARS - L2 & L7			
			REF DRG				
			MATERIAL	SUS304/AISI304-2B FINISH			
			HEAT TREAT.	APPD	<i>[Signature]</i>	01.07.2019	
			SURFACE TREAT.	REVD	<i>[Signature]</i>	01.07.2019	
			TITLE	CHKD	<i>[Signature]</i>	01.07.2019	
			LINER	DRWN	<i>[Signature]</i>	01.07.2019	
				SCALE		SHEET	Wt.
				NTS		1 OF 1	0.0063 kg
				DRG No.	525-18181		
				BEML LIMITED		ALT	
				<small>NEW FRONTIERS. NEW DREAMS</small>			

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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:	PROTO/PRODUCTION		
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										



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NOTE:

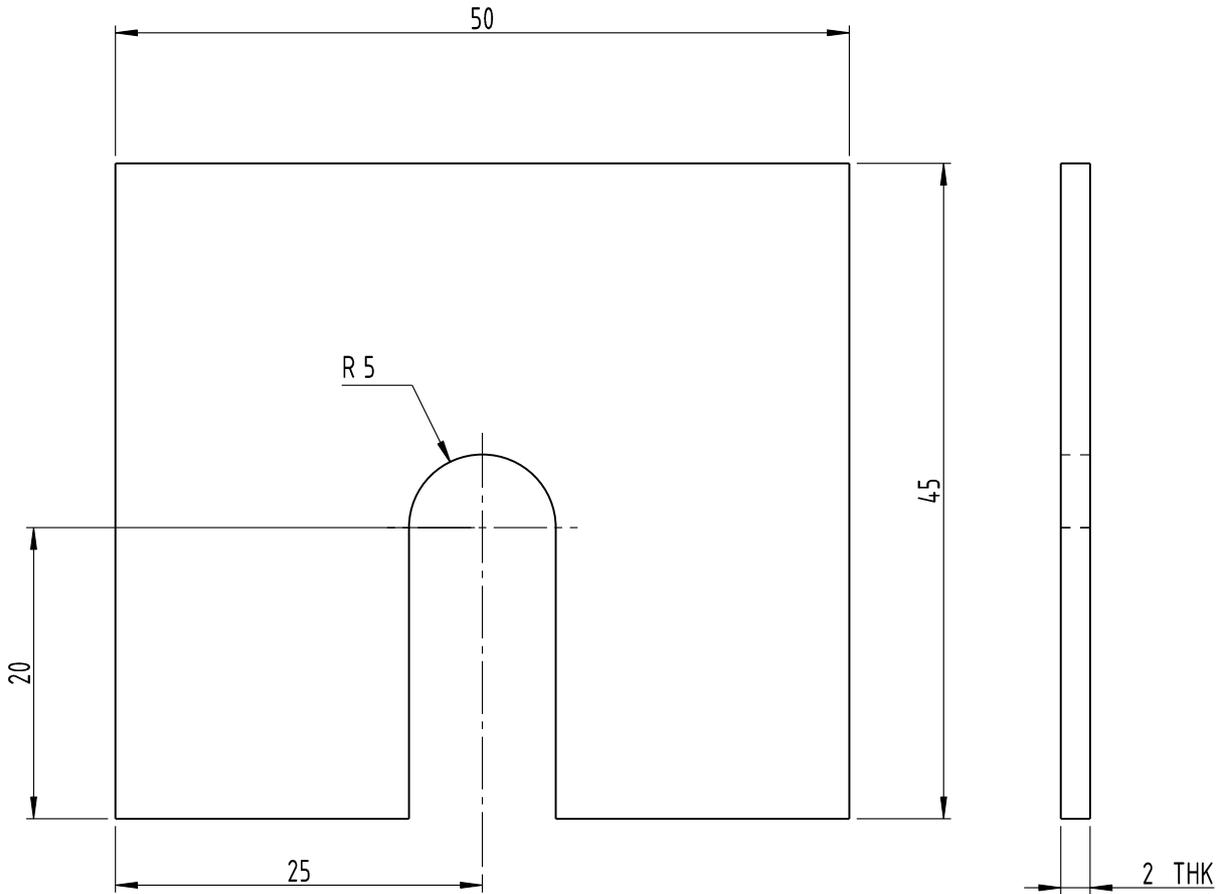
1. ALL DIMENSIONS ARE IN mm.
2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
3. REMOVE SHARP EDGES AND BURRS.
4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

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	▽
GRADE No.		▽
VALUE		▽
SYMBOL		▽
SURFACE		▽
ROUGHNESS		▽

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)
			PRODUCT	MUMBAI METRO CARS - L2 & L7		
			REF DRG			
			MATERIAL	SUS304/AISI304-2B FINISH		
			HEAT TREAT.	APPD	<i>[Signature]</i>	20.04.2020
			SURFACE TREAT.	REVD	<i>[Signature]</i>	20.04.2020
			TITLE	CHKD	<i>[Signature]</i>	20.04.2020
				DRWN	<i>[Signature]</i>	20.04.2020
				SCALE		SHEET
				NTS		1 OF 1
				DRG No.	525-18192	
					ALT	
BEML LIMITED <small>NEW FRONTIERS. NEW DREAMS</small>						

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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.										
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96							STATUS:	PROTO/PRODUCTION		



UNCONTROLLED

NOTE:

1. ALL DIMENSIONS ARE IN mm.
2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
3. REMOVE SHARP EDGES AND BURRS.
4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

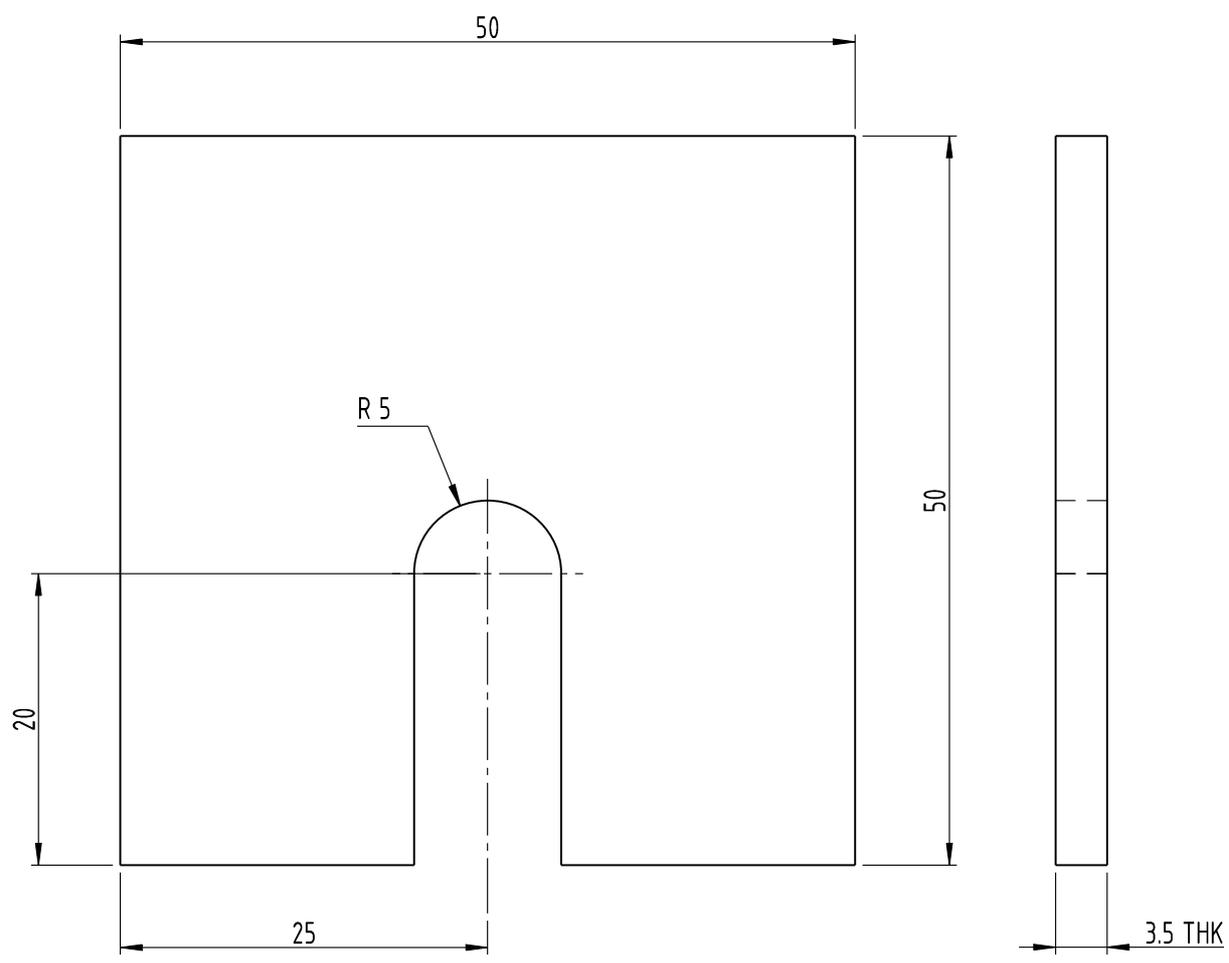
N1	0.025	▽
N2	0.05	▽
N3	0.1	▽
N4	0.2	▽
N5	0.4	▽
N6	0.8	▽
N7	1.6	▽
N8	3.2	▽
N9	6.3	▽
N10	12.5	▽
N11	25	▽
N12	50	▽
GRADE No.		▽
VALUE		▽
SYMBOL		▽
SURFACE		▽
ROUGHNESS		▽

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)
					MATERIAL	
			PRODUCT	MUMBAI METRO CARS - L2 & L7		
			REF DRG			
			MATERIAL	SUS304/AISI304-2B FINISH		
			HEAT TREAT.	APPD	<i>[Signature]</i>	20.04.2020
			SURFACE TREAT.	REVD	<i>[Signature]</i>	20.04.2020
			TITLE	CHKD	<i>[Signature]</i>	20.04.2020
				DRWN	<i>[Signature]</i>	20.04.2020
				SCALE		SHEET
				NTS		1 OF 1
				DRG No.	525-18193	
					ALT	

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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:	PROTO/PRODUCTION		
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										



UNCONTROLLED

NOTE:

1. ALL DIMENSIONS ARE IN mm.
2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
3. REMOVE SHARP EDGES AND BURRS.
4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

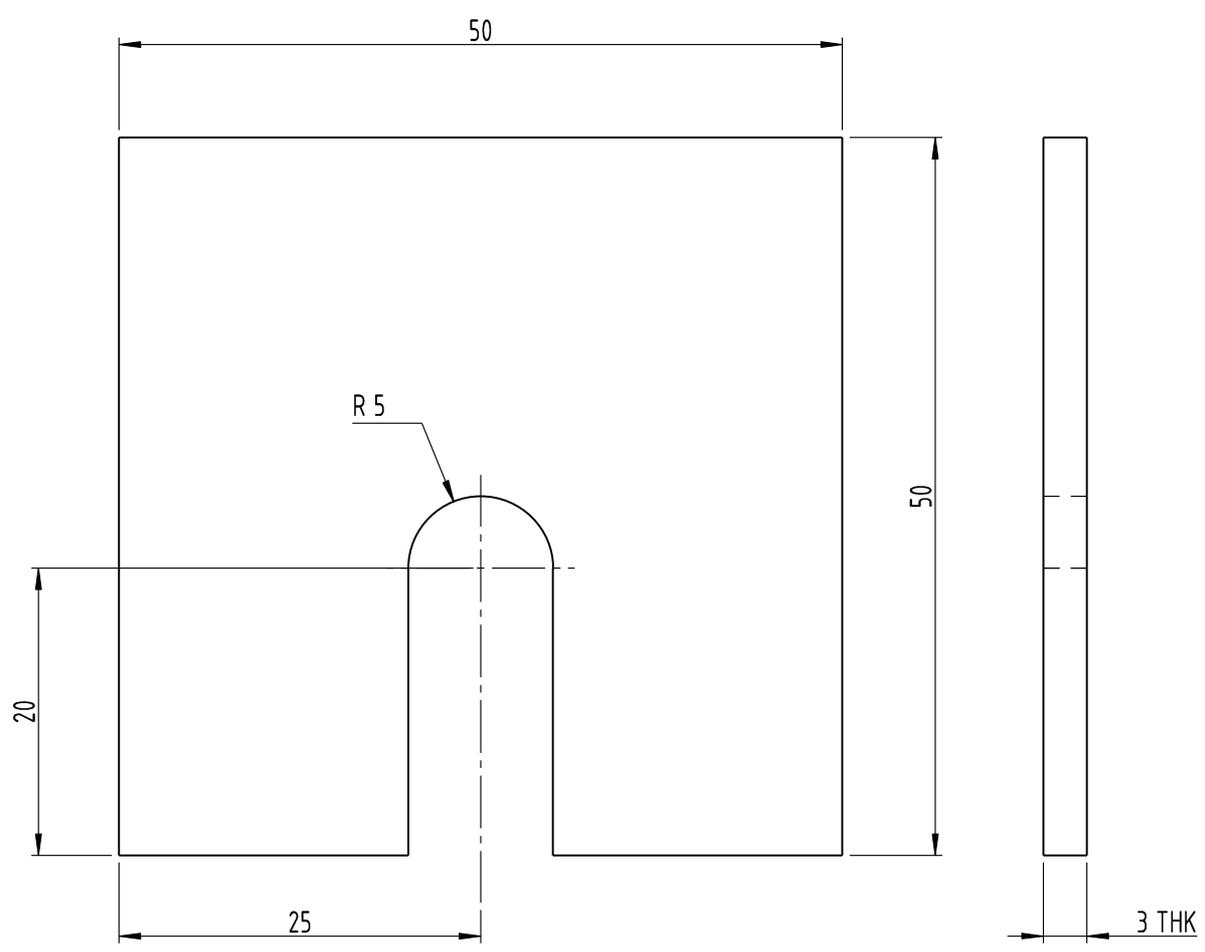
N1	0.025	▽
N2	0.05	▽
N3	0.1	▽
N4	0.2	▽
N5	0.4	▽
N6	0.8	▽
N7	1.6	▽
N8	3.2	▽
N9	6.3	▽
N10	12.5	▽
N11	25	▽
N12	50	▽
GRADE No.		▽
VALUE		▽
SYMBOL		▽
SURFACE		▽
ROUGHNESS		▽

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)	
					MATERIAL		
			PRODUCT	MUMBAI METRO CARS - L2 & L7			
			REF DRG				
			MATERIAL	SUS304/AISI304-2B FINISH			
			HEAT TREAT.	APPD	<i>[Signature]</i>	20.04.2020	
			SURFACE TREAT.	REVD	<i>[Signature]</i>	20.04.2020	
			TITLE	CHKD	<i>[Signature]</i>	20.04.2020	
			LINER	DRWN	<i>[Signature]</i>	20.04.2020	
				SCALE		SHEET	Wt.
				NTS		1 OF 1	0.07kg
				DRG No.	525-18194		
						ALT	

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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: PROTO/PRODUCTION			
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										



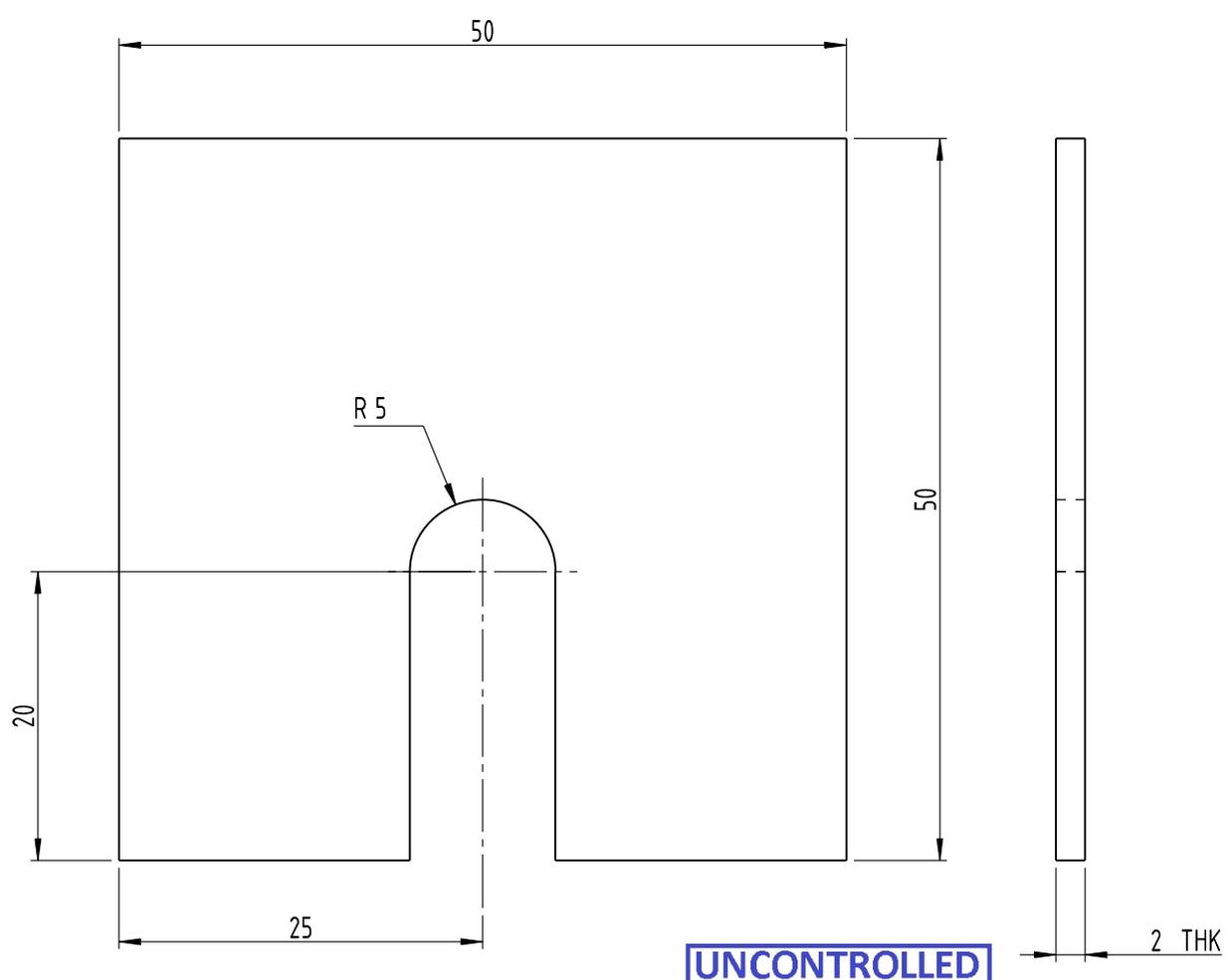
UNCONTROLLED

- NOTE:**
1. ALL DIMENSIONS ARE IN mm.
 2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
 3. REMOVE SHARP EDGES AND BURRS.
 4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

GRADE No.	VALUE	SYMBOL	SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)	
								MATERIAL		
N1	0.025	▽				PRODUCT	MUMBAI METRO CARS - L2 & L7			
N2	0.05	▽				REF DRG				
N3	0.1	▽				MATERIAL	SUS304/AISI304-2B FINISH			
N4	0.2	▽				HEAT TREAT.	APPD	<i>[Signature]</i>	20.04.2020	
N5	0.4	▽				SURFACE TREAT.	REVD	<i>[Signature]</i>	20.04.2020	
N6	0.8	▽				TITLE	CHKD	<i>[Signature]</i>	20.04.2020	
N7	1.6	▽				LINER	DRWN	<i>[Signature]</i>	20.04.2020	
N8	3.2	▽					SCALE		SHEET	Wt.
N9	6.3	▽					NTS		1 OF 1	0.06kg
N10	12.5	▽				DRG No.	525-18195		ALT	
N11	25	▽						BEML LIMITED		
N12	50	▽				SURFACE ROUGHNESS		ALT.NO.	ECN NO/CHANGES	
							DATE	BY	CHKD	
									APPD	

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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:	PROTO/PRODUCTION		
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										



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NOTE:

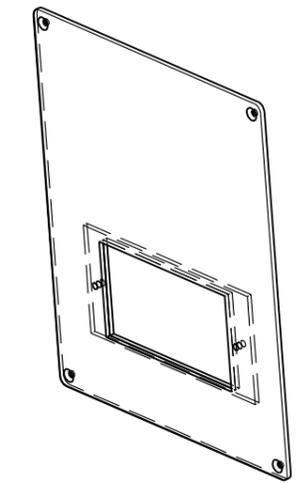
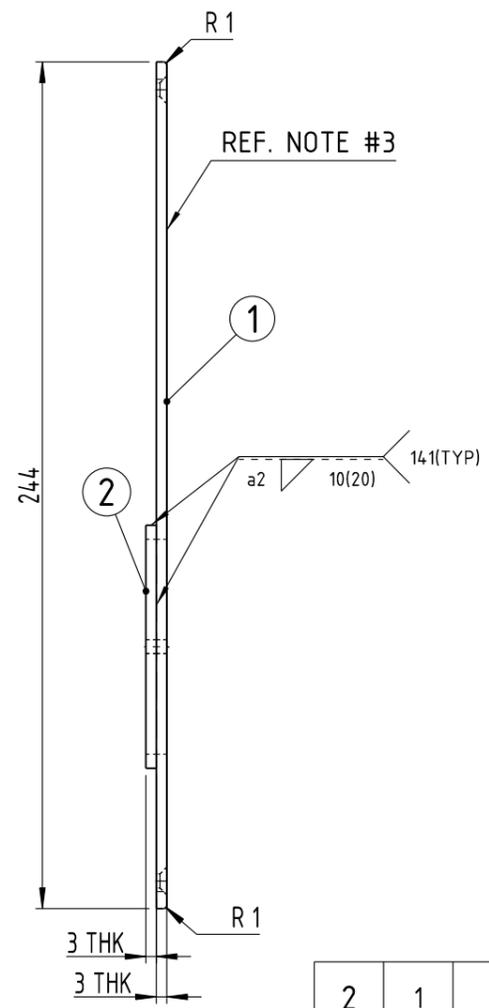
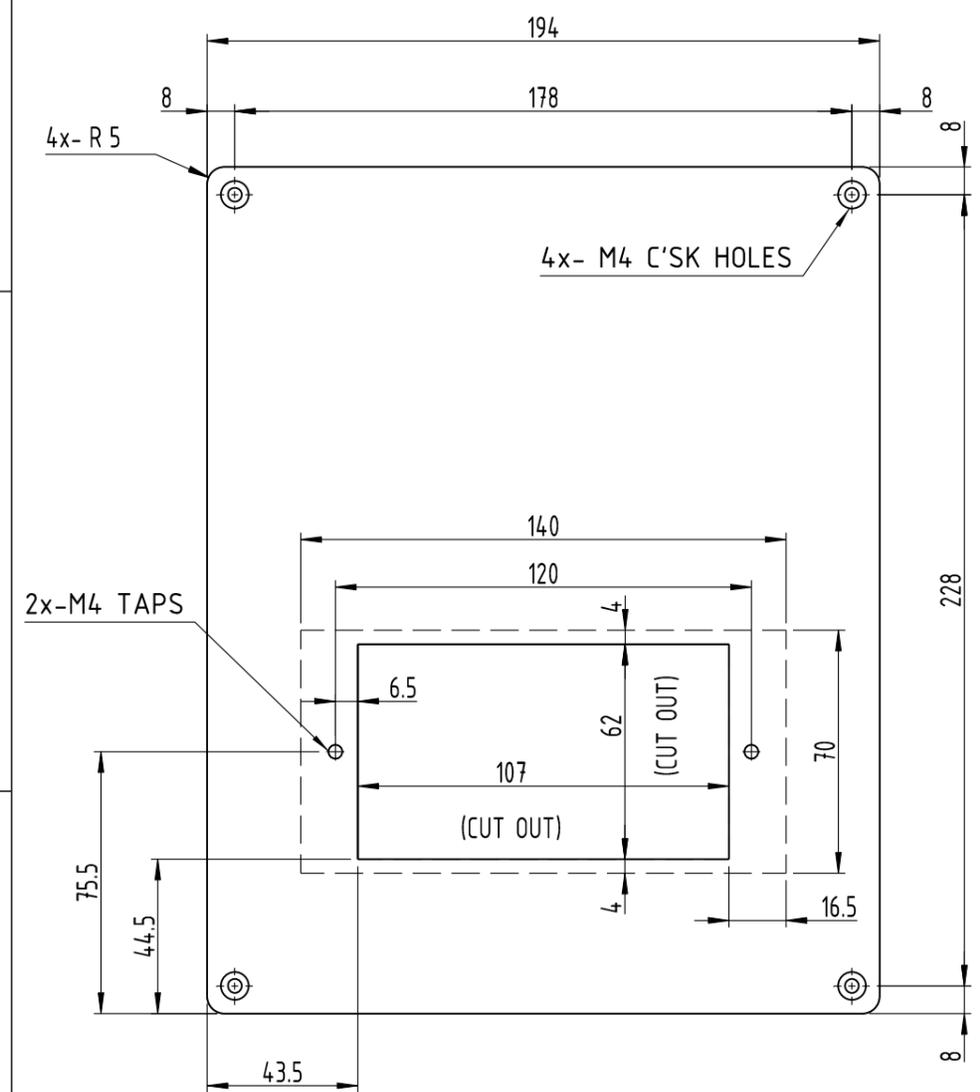
1. ALL DIMENSIONS ARE IN mm.
2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
3. REMOVE SHARP EDGES AND BURRS.
4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

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	▽
GRADE No.		▽
VALUE		▽
SYMBOL		▽
SURFACE ROUGHNESS		▽

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)
			PRODUCT	MUMBAI METRO CARS - L2 & L7		
			REF DRG			
			MATERIAL	SUS304/AISI304-2B FINISH		
			HEAT TREAT.	APPD	<i>[Signature]</i>	20.04.2020
			SURFACE TREAT.	REVD	<i>[Signature]</i>	20.04.2020
			TITLE	CHKD	<i>[Signature]</i>	20.04.2020
				DRWN	<i>[Signature]</i>	20.04.2020
				SCALE		SHEET
				NTS		1 OF 1
				DRG No.	525-18196	
					ALT	
BEML LIMITED <small>NEW FRONTIERS NEW DREAMS</small>						

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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												



ISOMETRIC VIEW

UNCONTROLLED

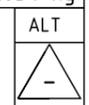
- NOTE:**
1. ALL DIMENSIONS ARE IN mm.
 2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
 3. THE EXPOSED SURFACE SHALL BE BRUSH FINISHED TO ASTM A480, NO.6 FINISH.
 4. THE WELDING SYMBOLS ACCORDING TO ISO:2553.
 5. REMOVE SHARP EDGES AND BURRS.
 6. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

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: PROTO/PRODUCTION		
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										

2	1	-	NUT PLATE	140x70x3t	SUS304/AISI304	
1	1	-	COVER PLATE	224x194x3t	SUS304/AISI304	
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)
					MATERIAL	
			PRODUCT	MUMBAI METRO CARS - L2 & L7		
			REF DRG			
			MATERIAL	SUS304/AISI304-BRUSH FINISH AS PER ASTM A480 NO.6 FINISH		
			HEAT TREAT.	APPD	<i>[Signature]</i>	12.05.2020
			SURFACE TREAT.	REVD	<i>[Signature]</i>	12.05.2020
			TITLE	CHKD	<i>[Signature]</i>	12.05.2020
			COVER PLATE, SOCKET	DRWN	<i>[Signature]</i>	12.05.2020
				SCALE		SHEET
			1:1		1 OF 1	1.034 kg
			DRG No.	525-18203		
ALT.No.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	ALT

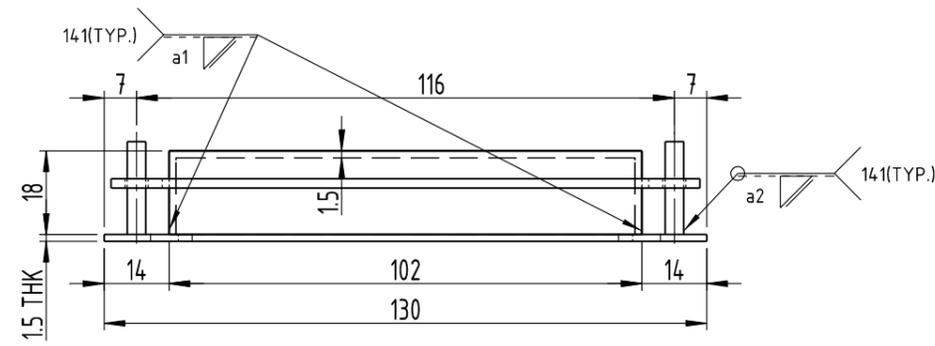
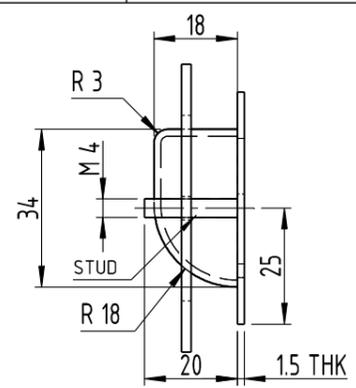
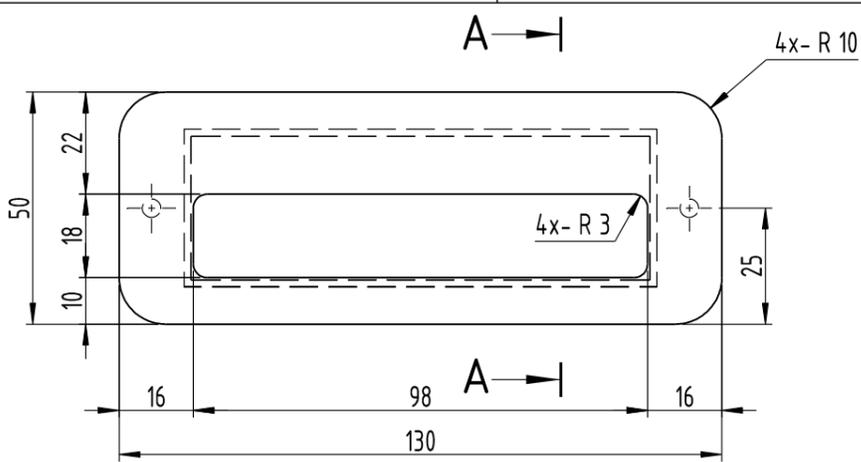
beml BEML LIMITED
NEW FRONTIERS. NEW DREAMS

525-18203

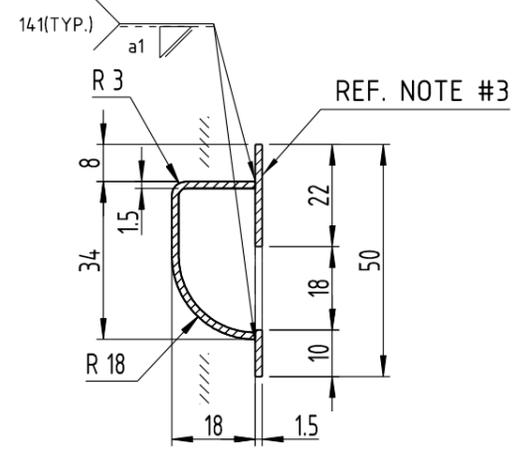


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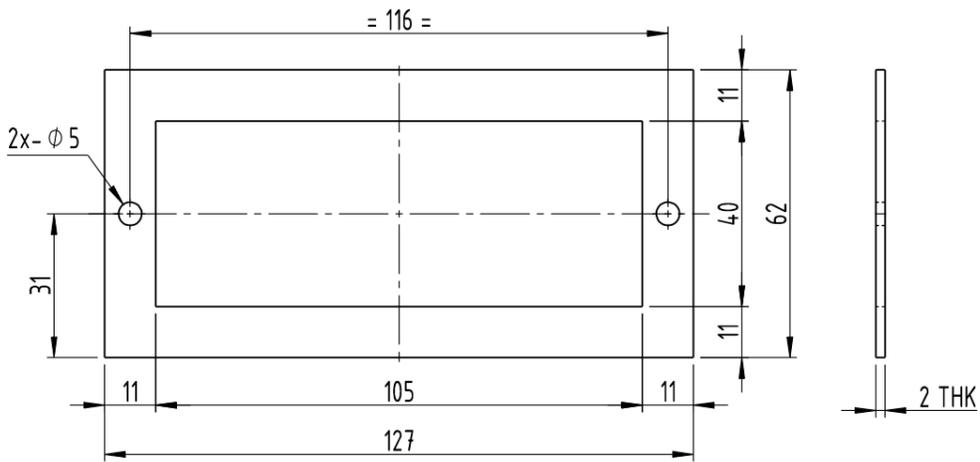
GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12
VALUE	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
SYMBOL												
ROUGHNESS												



DETAIL-1



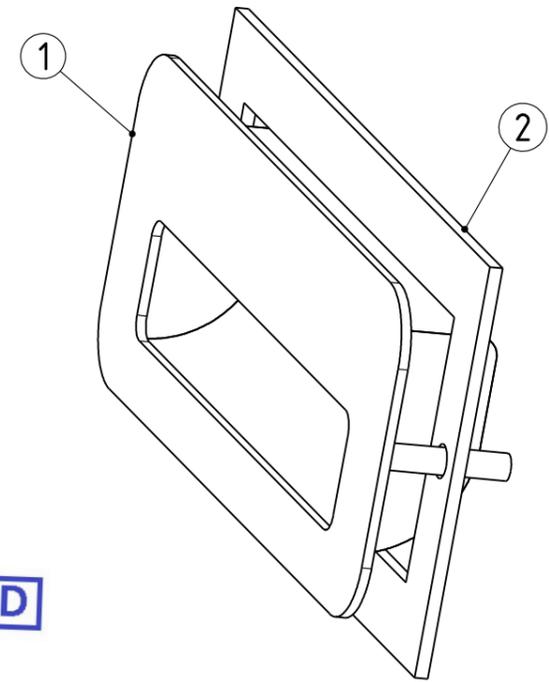
SECTION A-A



DEATIL-2

- NOTE:
1. ALL DIMENSIONS ARE IN mm.
 2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
 3. THE EXPOSED SURFACE SHALL BE BRUSH FINISHED TO ASTM A480. NO.6 FINISH.
 4. WELDING SYMBOLS ACCORDING TO ISO:2553.
 5. WELD AREAS SHALL BE GROUND FINISH, PICKLED & PASSIVATED.
 6. REMOVE SHARP EDGES AND BURRS.
 7. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

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: PROTO/PRODUCTION
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										



ISOMETRIC VIEW

UNCONTROLLED

2	1	-	SUPPORT PLATE	2t	SUS304/AISI304	0.057
1	1	-	FRONT PLATE	1.5t	SUS304/AISI304	0.274
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)
					MATERIAL	
			PRODUCT	MUMBAI METRO CARS - L2 & L7		
			REF DRG			
			MATERIAL	SUS304/AISI304-BRUSH FINISH AS PER ASTM A480 NO.6 FINISH		
			HEAT TREAT.	APPD	<i>[Signature]</i>	15.05.2020
			SURFACE TREAT.	REVD	<i>[Signature]</i>	15.05.2020
			TITLE	CHKD	<i>[Signature]</i>	15.05.2020
			HANDLE	DRWN	<i>[Signature]</i>	15.05.2020
				SCALE		SHEET
				1:1.5	1 OF 1	0.331 kg
ALT.No.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	
					BEML LIMITED NEW FRONTIERS. NEW DREAMS	
					525-18211 ALT	

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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	▽

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

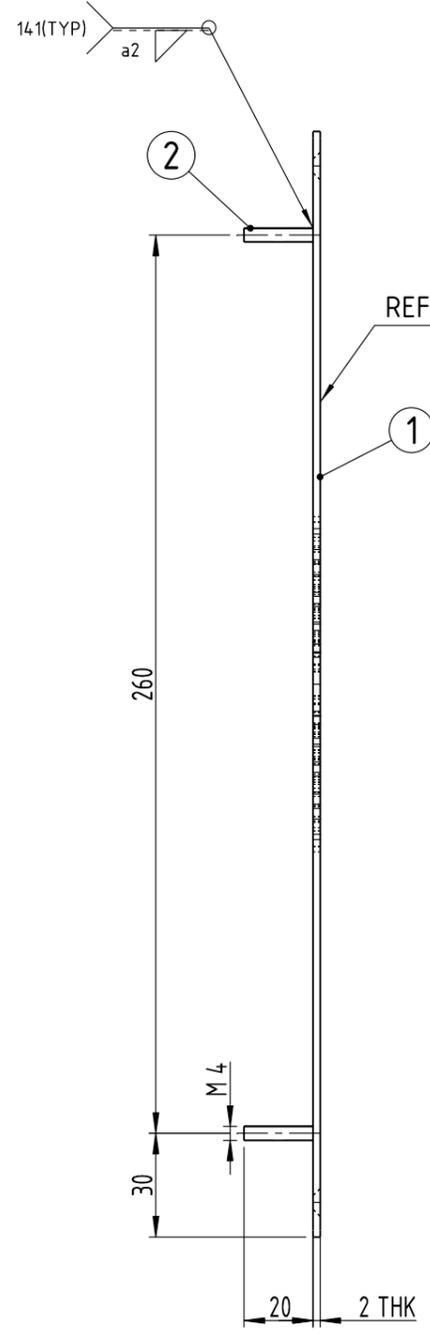
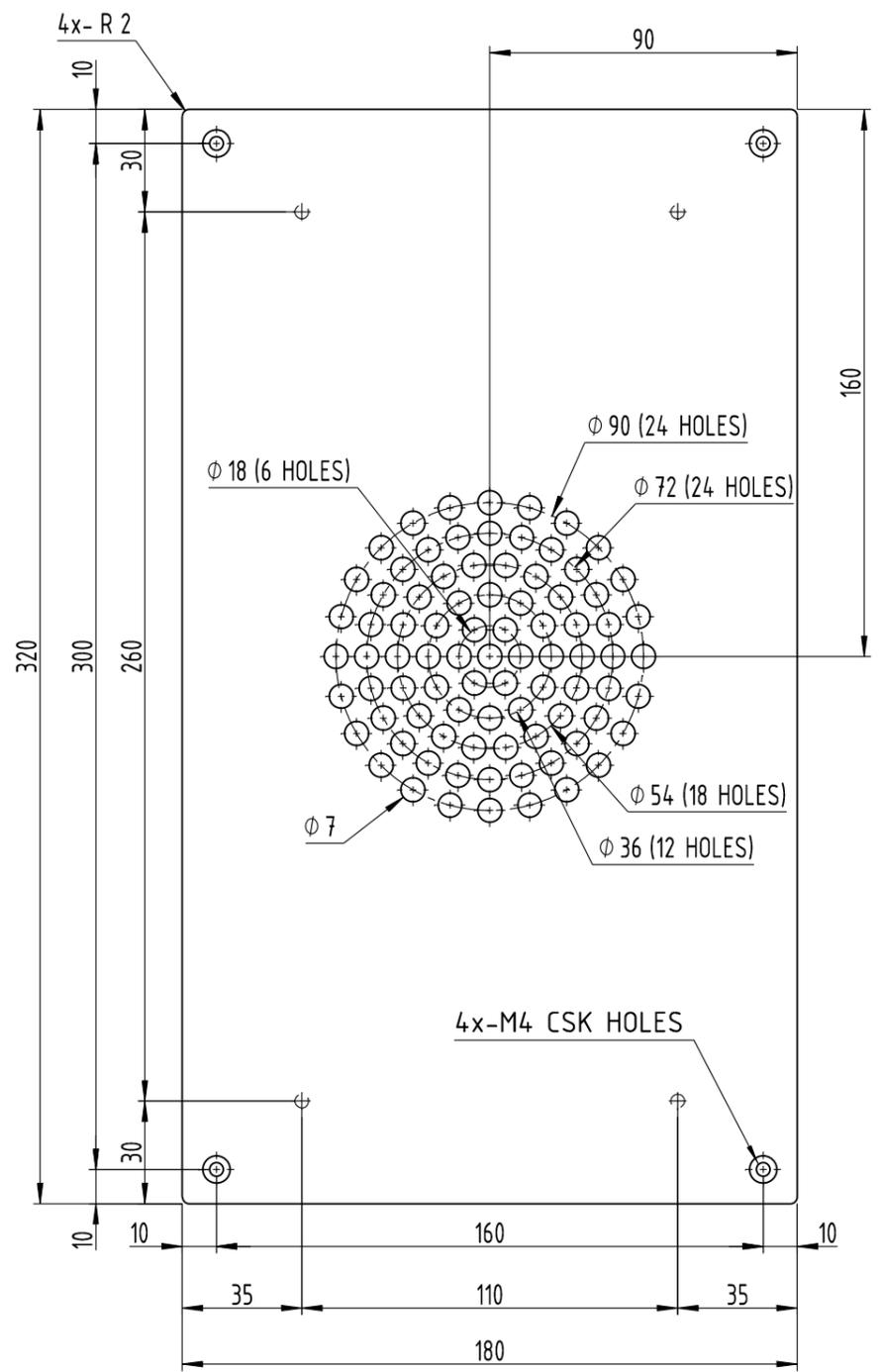
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227

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.

WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96

STATUS: **PROTO/PRODUCTION**



UNCONTROLLED

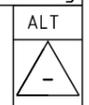
- NOTE:**
- ALL DIMENSIONS ARE IN mm.
 - THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
 - THE EXPOSED SURFACE SHALL BE BRUSH FINISHED TO ASTM A480. NO.6 FINISH.
 - WELDING SYMBOLS ACCORDING TO ISO:2553
 - REMOVE SHARP EDGES AND BURRS.
 - SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)
2	4	-	STUD BOLT	M4x20	Gr A2-70, SS	
1	1	-	PLATE	320x180x2t	SUS304/AISI304	

PRODUCT	MUMBAI METRO CARS - L2 & L7		
REF DRG			
MATERIAL	SUS304/AISI304-BRUSH FINISH AS PER ASTM A480 NO.6 FINISH		
HEAT TREAT.	APPD	<i>[Signature]</i>	15.05.2020
SURFACE TREAT.	REVD	<i>[Signature]</i>	15.05.2020
TITLE	CHKD	<i>[Signature]</i>	15.05.2020
	DRWN	<i>[Signature]</i>	15.05.2020
	SCALE	1:1	SHEET
	NTS	1 OF 1	Wt.
	DRG No.	525-18230	ALT

BEML LIMITED
NEW FRONTIERS. NEW DREAMS.

525-18230



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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	~

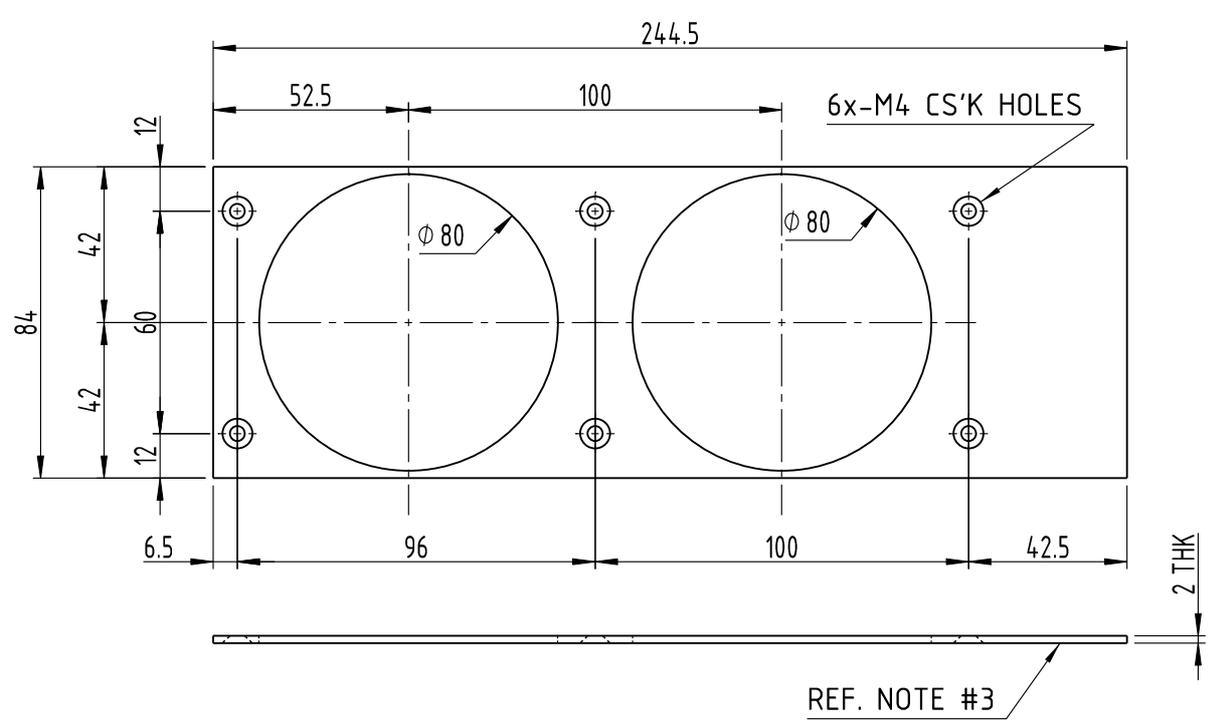
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227

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.

WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96

STATUS: **PROTO/PRODUCTION**



UNCONTROLLED

NOTE:

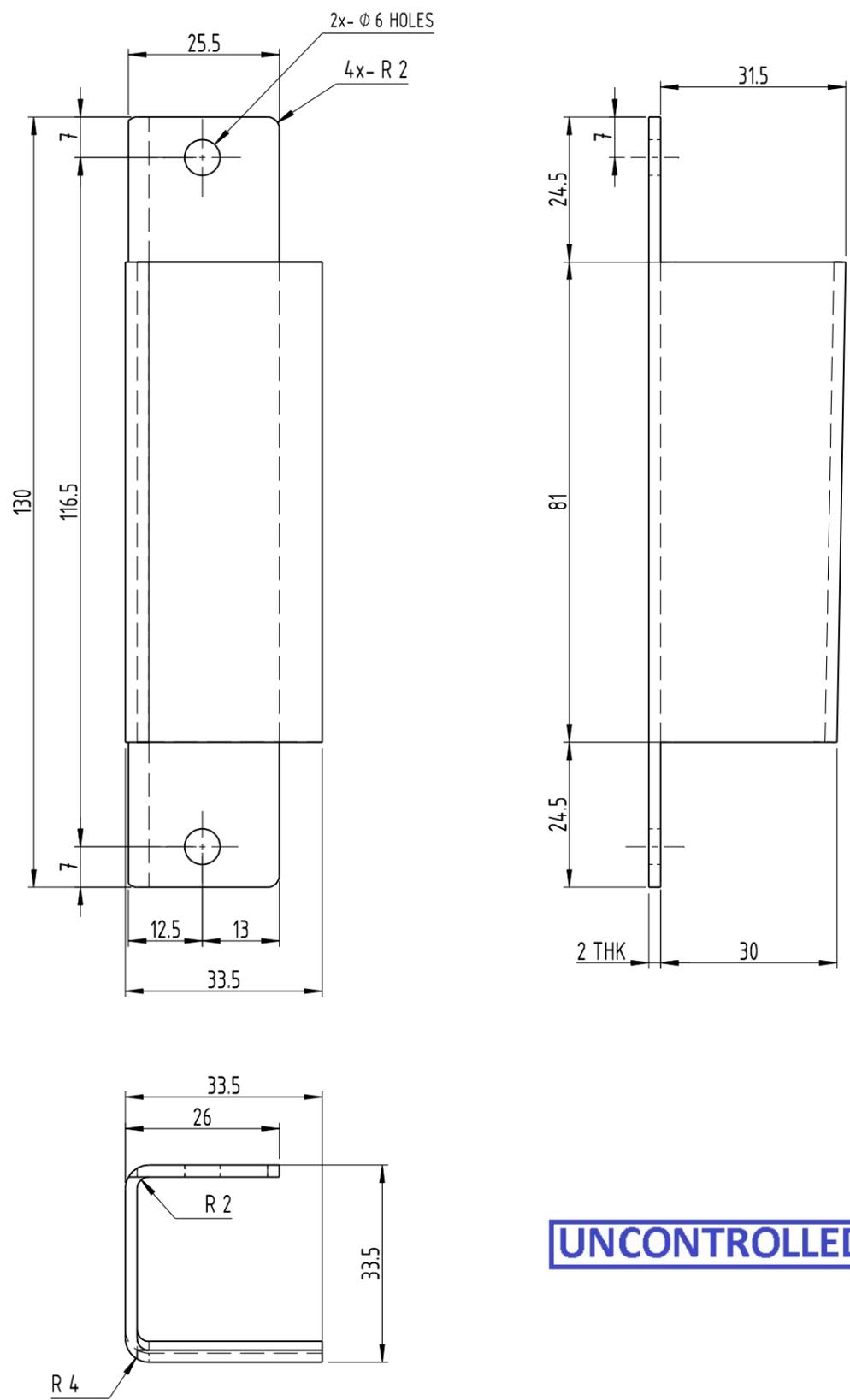
1. ALL DIMENSIONS ARE IN mm.
2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
3. THE EXPOSED SURFACE SHALL BE BRUSH FINISHED TO ASTM A480. NO.6 FINISH.
4. REMOVE SHARP EDGES AND BURRS.
5. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

GRADE No.	N1	0.075	▽
VALUE	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			▽

						244.5x84x2THK			
SL.No.	QTY	PART / STOCK No.	DESCRIPTION			SIZE	COMPANY STD./I.S		Wt. (Kg)
							MATERIAL		
			PRODUCT	MUMBAI METRO CARS - L2 & L7					
			REF DRG						
			MATERIAL	SUS304/AISI304-BRUSH FINISH AS PER ASTM A480 NO.6 FINISH					
			HEAT TREAT.	APPD	<i>[Signature]</i>				15.05.2020
			SURFACE TREAT.	REVD	<i>[Signature]</i>				15.05.2020
			TITLE	CHKD	<i>[Signature]</i>				15.05.2020
			GUAGE PLATE	DRWN	<i>[Signature]</i>				15.05.2020
				SCALE	1:1.5		SHEET	1 OF 1	
				DRG No.	525-18263				Wt.
									0.163 kg
									ALT
									▽
ALT.NO.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	BEML LIMITED			

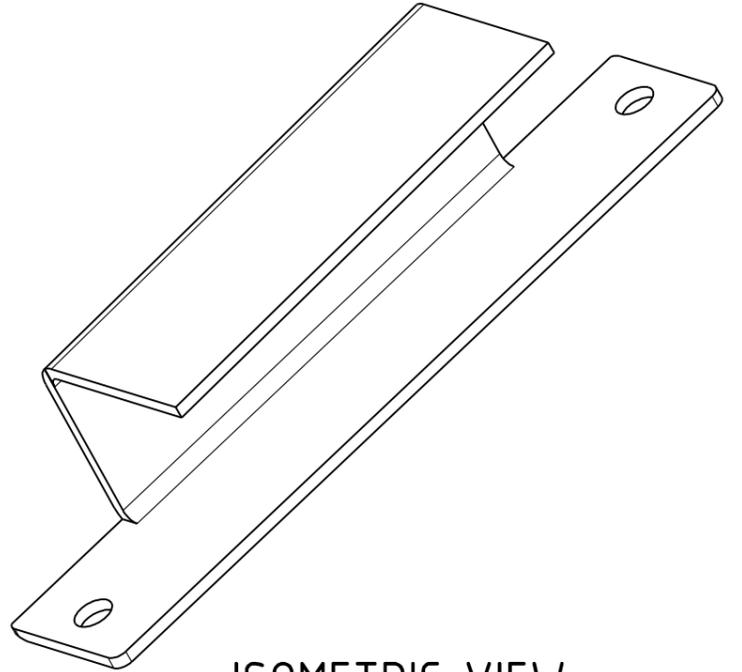
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GRADE No.	VALUE	SYMBOL
N1	0.025	▽
N2	0.05	▽
N3	0.1	▽
N4	0.2	▽
N5	0.4	▽
N6	0.8	▽
N7	1.6	▽
N8	3.2	▽
N9	6.3	▽
N10	12.5	▽
N11	25	▽
N12	50	▽
SURFACE ROUGHNESS		



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: PROTO/PRODUCTION
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										



ISOMETRIC VIEW

- NOTE:**
1. ALL DIMENSIONS ARE IN mm.
 2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
 3. REMOVE SHARP EDGES AND BURRS.
 4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)
△			PRODUCT	MUMBAI METRO CARS - L2 & L7		
△			REF DRG			
△			MATERIAL	SUS304/AISI304-2B FINISHED		
△			HEAT TREAT.	APPD	<i>[Signature]</i>	02.05.2020
△			SURFACE TREAT.	REVD	<i>[Signature]</i>	02.05.2020
△			TITLE	CHKD	<i>[Signature]</i>	02.05.2020
△			HINGE MIDDLE BRACKET	DRWN	<i>[Signature]</i>	02.05.2020
△				SCALE	1:1	SHEET 1 OF 1
ALT.No.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	DRG No. 525-18265
beml BEML LIMITED						ALT

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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	~

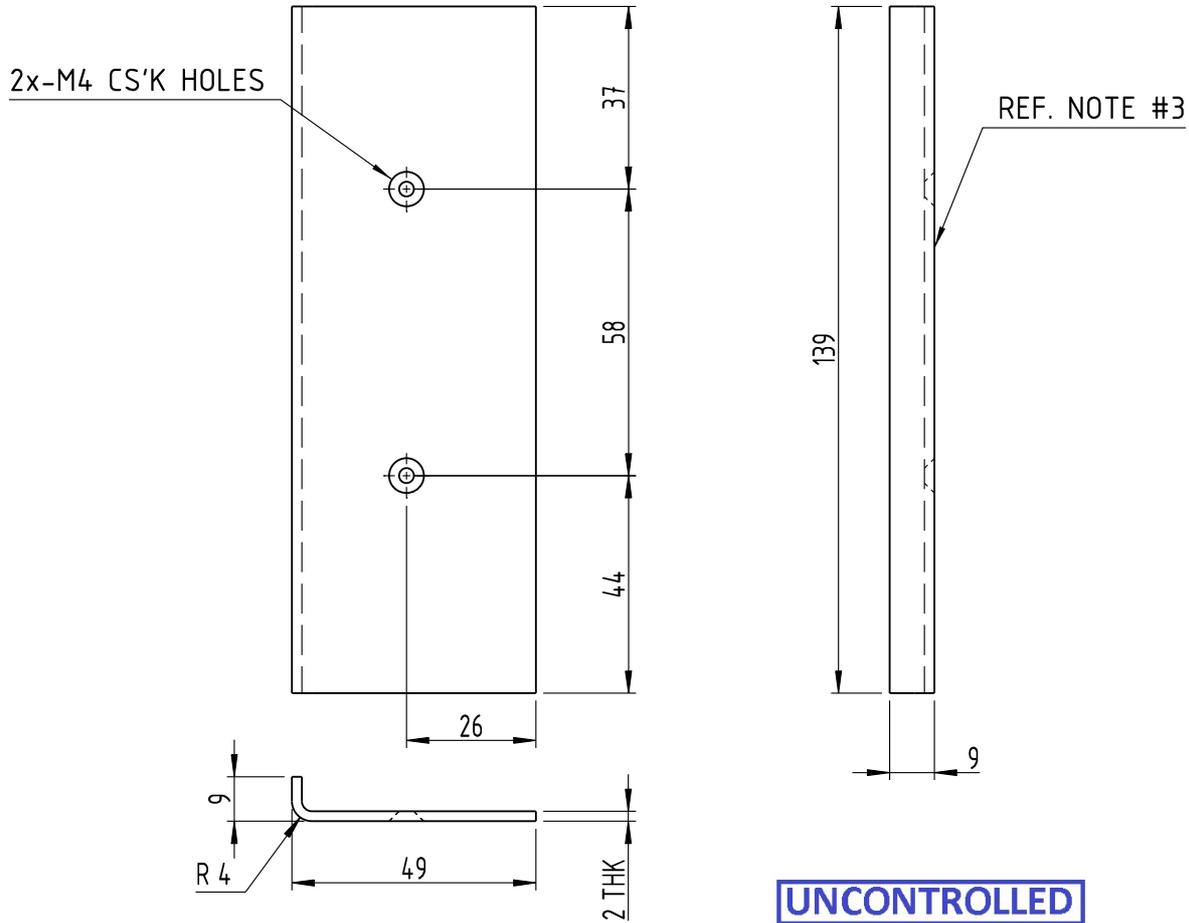
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227

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.

WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96

STATUS: **PROTO/PRODUCTION**



UNCONTROLLED

NOTE:

1. ALL DIMENSIONS ARE IN mm.
2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
3. THE EXPOSED SURFACE SHALL BE BRUSH FINISHED TO ASTM A480. NO.6 FINISH.
4. REMOVE SHARP EDGES AND BURRS.
5. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

GRADE No.	N1	0.025	▽
VALUE	N2	0.05	▽
SYMBOL	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			▽

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)
					MATERIAL	

PRODUCT		MUMBAI METRO CARS - L2 & L7				
REF DRG						
MATERIAL		SUS304/AISI304-BRUSH FINISH AS PER ASTM A480 NO.6 FINISH				
HEAT TREAT.				APPD	<i>[Signature]</i>	02.05.2020
SURFACE TREAT.				REVD	<i>[Signature]</i>	02.05.2020
TITLE		COVER PLATE, HINGE		CHKD	<i>[Signature]</i>	02.05.2020
				DRWN	<i>[Signature]</i>	02.05.2020
SCALE		1:1.5		SHEET	1 OF 1	Wt. 0.145 kg
DRG No.		525-18266				ALT
SURFACE ROUGHNESS		ALT.NO.	ECN NO/CHANGES	DATE	BY	CHKD
						APPD



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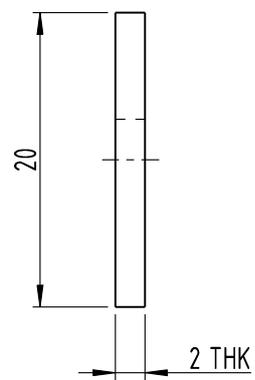
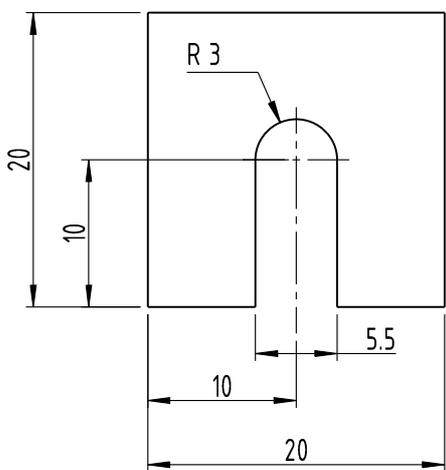
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	RANGE	0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000	ABOVE 4000	RA
	TOLERANCE	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	~

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.

WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96 STATUS: **PROTO/PRODUCTION**



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NOTE:

1. ALL DIMENSIONS ARE IN mm.
2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
3. REMOVE SHARP EDGES AND BURRS.
4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

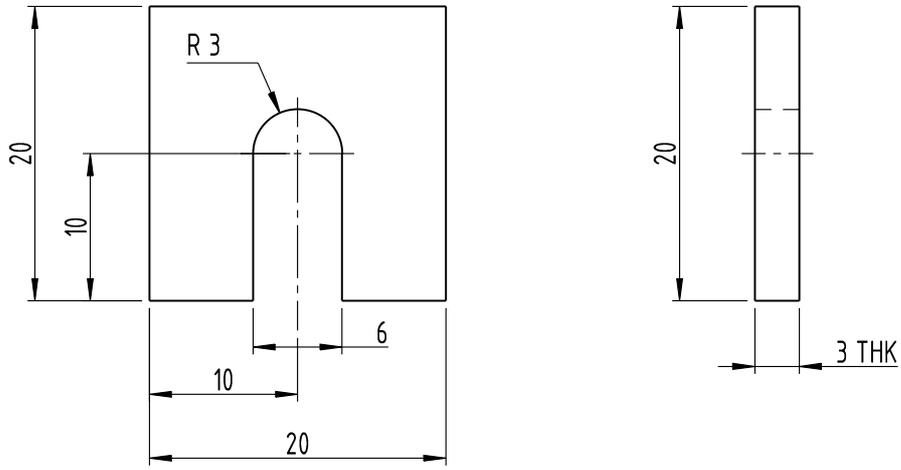
GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12
VALUE	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
SYMBOL	▽	▽	▽	▽	▽	▽	▽	▽	▽	▽	▽	▽
SURFACE ROUGHNESS												

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)
						MATERIAL
			PRODUCT	MUMBAI METRO CARS - L2 & L7		
			REF DRG			
			MATERIAL	SUS304/AISI304 2B FINISH		
			HEAT TREAT.	APPD	<i>[Signature]</i>	28.04.2020
			SURFACE TREAT.	REVD	<i>[Signature]</i>	28.04.2020
			TITLE	CHKD	<i>[Signature]</i>	28.04.2020
			LINER 2T	DRWN	<i>[Signature]</i>	28.04.2020
				SCALE		SHEET
				1:0.5	1 OF 1	0.0063kg
			DRG No.			ALT
			525-18296			-



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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: PROTO/PRODUCTION			
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										



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- NOTE:**
1. ALL DIMENSIONS ARE IN mm.
 2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
 3. REMOVE SHARP EDGES AND BURRS.
 4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

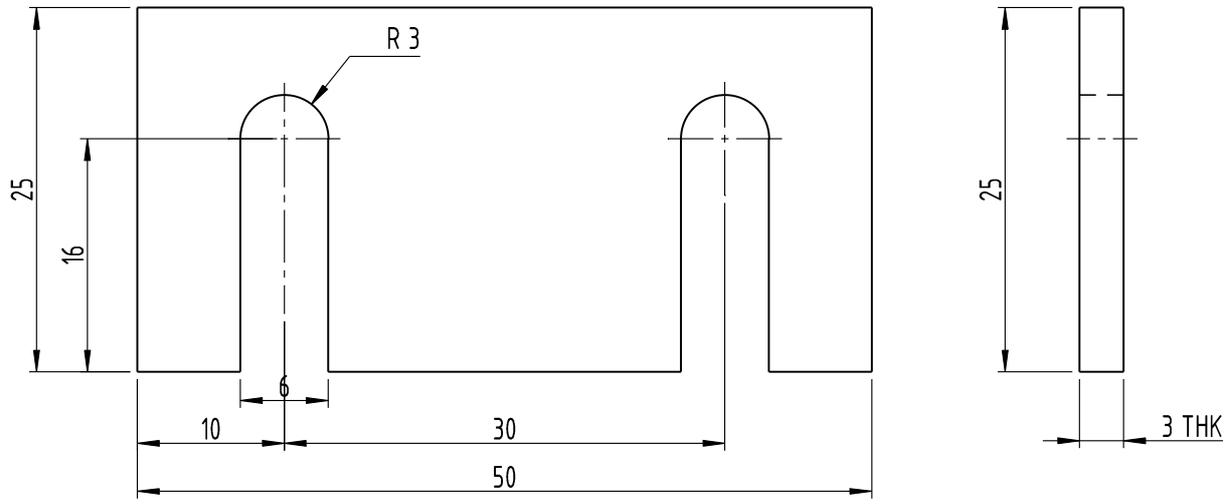
N1	0.025	▽
N2	0.05	▽
N3	0.1	▽
N4	0.2	▽
N5	0.4	▽
N6	0.8	▽
N7	1.6	▽
N8	3.2	▽
N9	6.3	▽
N10	12.5	▽
N11	25	▽
N12	50	▽
GRADE No.		▽
VALUE		▽
SYMBOL		▽
SURFACE ROUGHNESS		▽

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)
			PRODUCT	MUMBAI METRO CARS - L2 & L7		
			REF DRG			
			MATERIAL	SUS304/AISI304 2B FINISH		
			HEAT TREAT.	APPD	<i>[Signature]</i>	28.04.2020
			SURFACE TREAT.	REVD	<i>[Signature]</i>	28.04.2020
			TITLE	CHKD	<i>[Signature]</i>	28.04.2020
				DRWN	<i>[Signature]</i>	28.04.2020
				SCALE	1:0.5	
				SHEET	1 OF 1	
				Wt.	0.0094kg	
				DRG No.	525-18297	
				ALT	-	



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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:	PROTO/PRODUCTION		
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										



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- NOTE:**
1. ALL DIMENSIONS ARE IN mm.
 2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
 3. REMOVE SHARP EDGES AND BURRS.
 4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

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	✓
GRADE No.		✓
VALUE		✓
SYMBOL		✓
SURFACE		✓
ROUGHNESS		✓

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)	
					MATERIAL		
			PRODUCT	MUMBAI METRO CARS - L2 & L7			
			REF DRG				
			MATERIAL	SUS304/AISI304 2B FINISH			
			HEAT TREAT.	APPD	<i>[Signature]</i>	27.04.2020	
			SURFACE TREAT.	REVD	<i>[Signature]</i>	27.04.2020	
			TITLE	CHKD	<i>[Signature]</i>	27.04.2020	
			LINER SIDE FIXING	DRWN	<i>[Signature]</i>	27.04.2020	
				SCALE		SHEET	Wt.
				1:0.5	1 OF 1	0.03kg	
			DRG No.	525-18298		ALT	
			BEML LIMITED 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	~

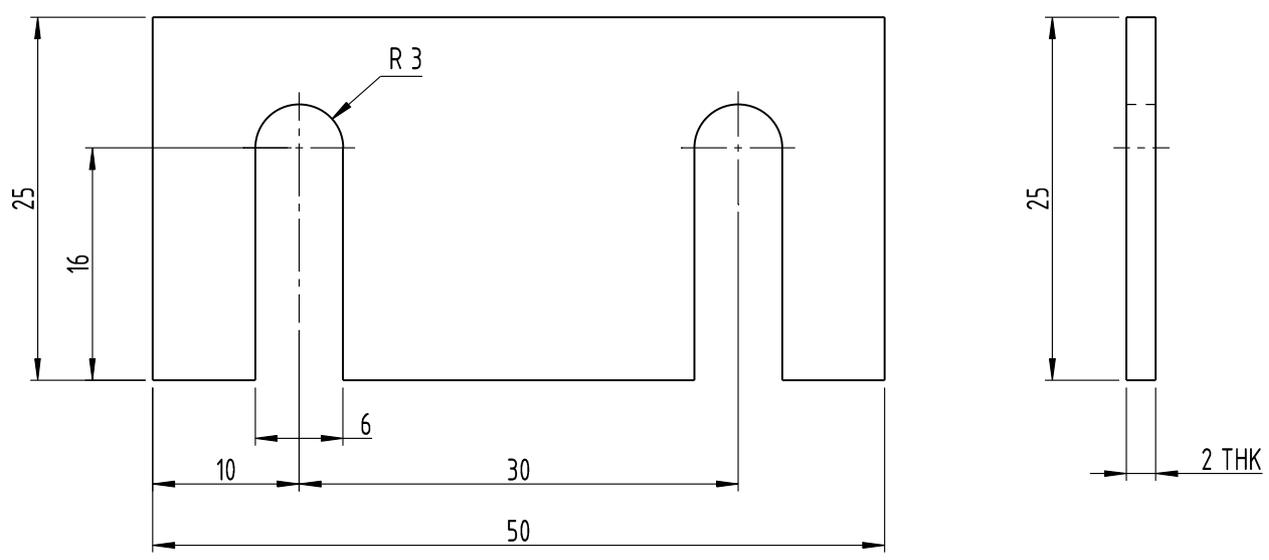
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227

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.

WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96

STATUS: **PROTO/PRODUCTION**



UNCONTROLLED

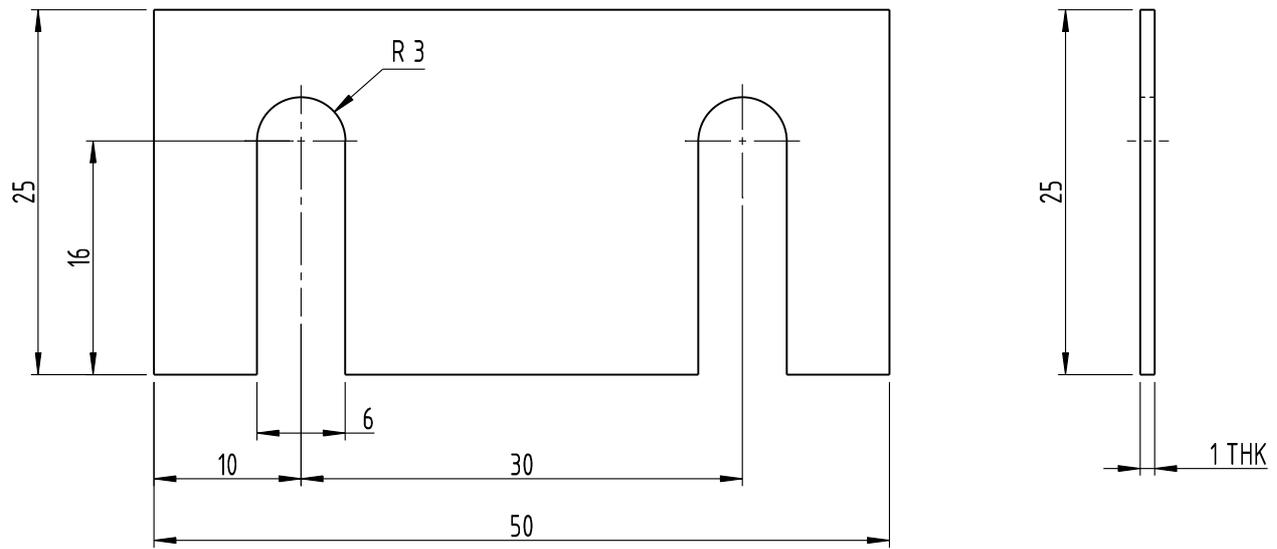
- NOTE:**
1. ALL DIMENSIONS ARE IN mm.
 2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
 3. REMOVE SHARP EDGES AND BURRS.
 4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

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	▽
GRADE No.		▽
VALUE		▽
SYMBOL		▽
SURFACE ROUGHNESS		▽

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)	
			PRODUCT	MUMBAI METRO CARS - L2 & L7			
			REF DRG				
			MATERIAL	SUS304/AISI304 2B FINISH			
			HEAT TREAT.	APPD	<i>[Signature]</i>	27.04.2020	
			SURFACE TREAT.	REVD	<i>[Signature]</i>	27.04.2020	
			TITLE	CHKD	<i>[Signature]</i>	27.04.2020	
			LINER SIDE FIXING	DRWN	<i>[Signature]</i>	27.04.2020	
				SCALE	1:0.5	SHEET	1 OF 1
				DRG No.	525-18299	Wt.	0.02 kg
						ALT	▽
			BEML LIMITED				
			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.										
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96							STATUS:	PROTO/PRODUCTION		



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NOTE:

1. ALL DIMENSIONS ARE IN mm.
2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
3. REMOVE SHARP EDGES AND BURRS.
4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

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	▽
GRADE No.		▽
VALUE		▽
SYMBOL		▽
SURFACE ROUGHNESS		▽

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)
			PRODUCT	MUMBAI METRO CARS - L2 & L7		
			REF DRG			
			MATERIAL	SUS304/AISI304 2B FINISH		
			HEAT TREAT.	APPD	<i>[Signature]</i>	27.04.2020
			SURFACE TREAT.	REVD	<i>[Signature]</i>	27.04.2020
			TITLE	CHKD	<i>[Signature]</i>	27.04.2020
			LINER SIDE FIXING	DRWN	<i>[Signature]</i>	27.04.2020
				SCALE	1:0.5	SHEET
					Wt.	0.01 kg
				DRG No.	525-18300	
					ALT	▽
			BEML LIMITED <small>NEW FRONTIERS. NEW DREAMS</small>			

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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	~

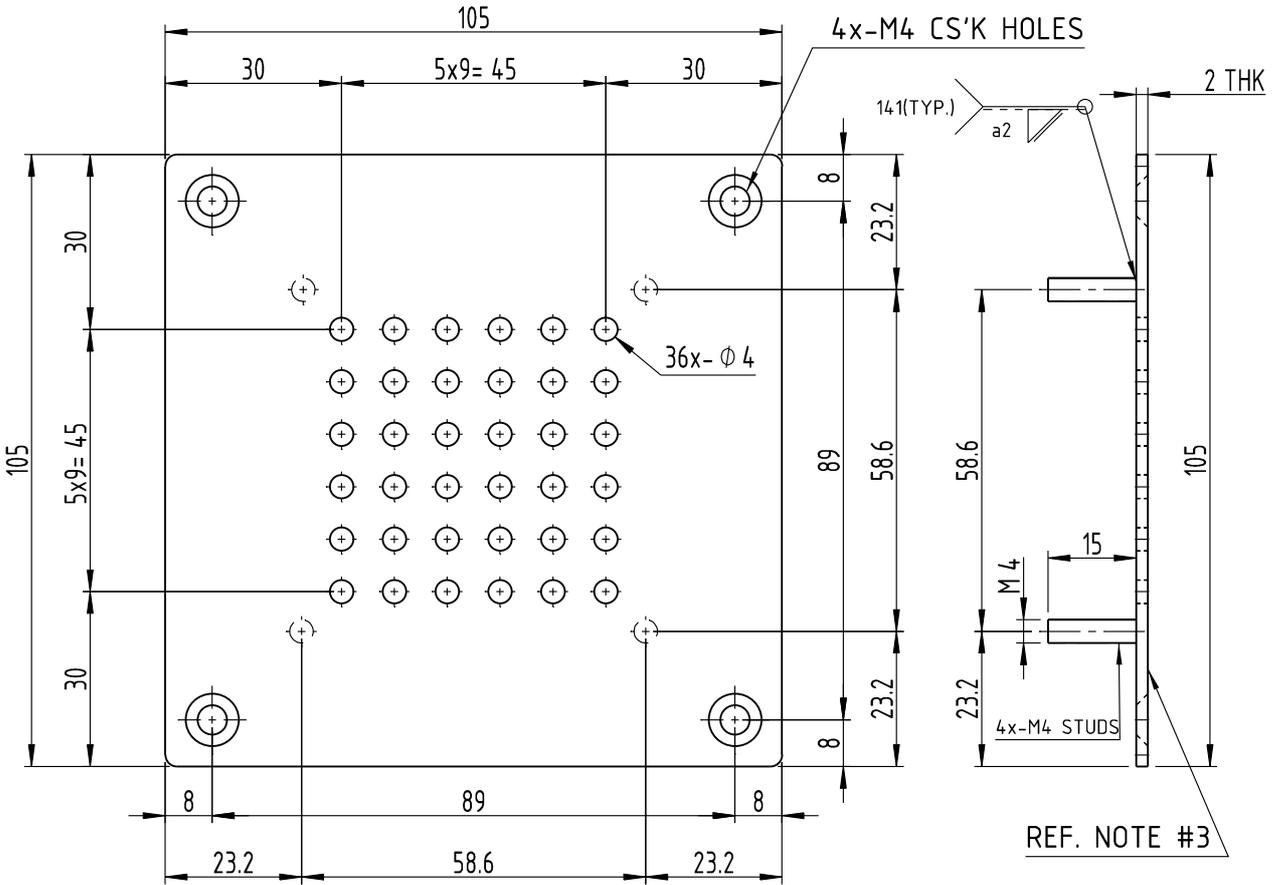
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227

UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (PT-1) (MEDIUM)

VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS. 1012.C.

WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96

STATUS: **PROTO/PRODUCTION**



- NOTE:**
1. ALL DIMENSIONS ARE IN mm.
 2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
 3. THE EXPOSED SURFACE SHALL BE BRUSH FINISHED TO ASTM A480. NO.6 FINISH.
 4. WELDING SYMBOLS ACCORDING TO ISO:2553
 5. REMOVE SHARP EDGES AND BURRS.
 6. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

UNCONTROLLED

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	▽
GRADE No.		▽
VALUE		▽
SYMBOL		▽
SURFACE ROUGHNESS	ALT.NO.	ECN NO/CHANGES

				105X105X2THK			
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)	
				MUMBAI METRO CARS - L2 & L7			
				SUS304/AISI304-BRUSH FINISH AS PER ASTM A480 NO.6 FINISH			
				HEAT TREAT.	APPD	16.05.2020	
				SURFACE TREAT.	REVD	16.05.2020	
				TITLE	CHKD	16.05.2020	
					DRWN	16.05.2020	
				PLATE, BUZZER SPEAKER		SCALE	SHEET
						1:1	1 OF 1
						Wt.	0.17 kg
						DRG No.	ALT
				BEML LIMITED		525-18313	
						▽	

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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	~	

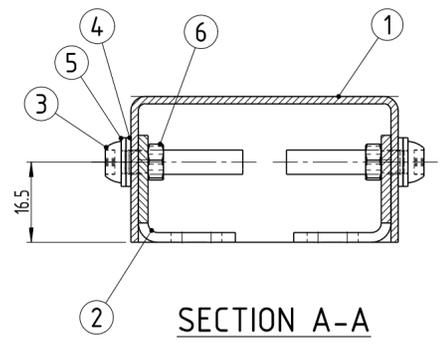
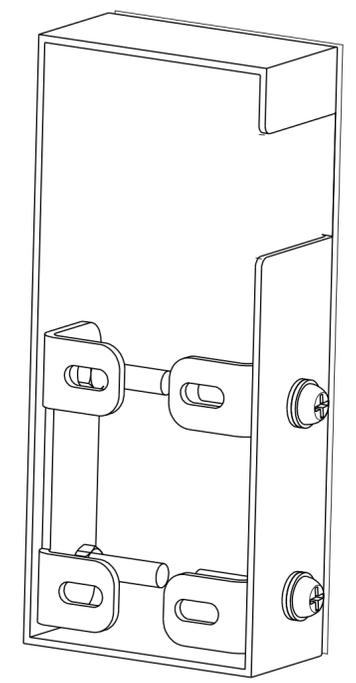
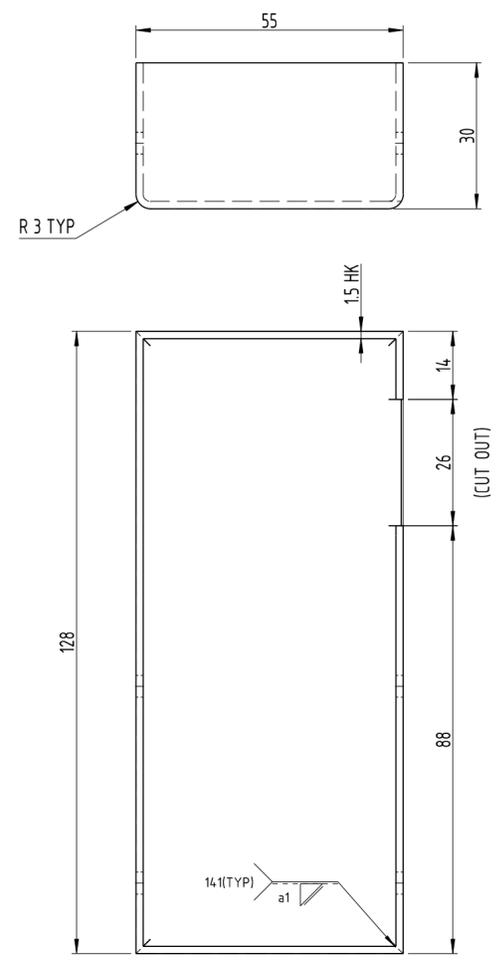
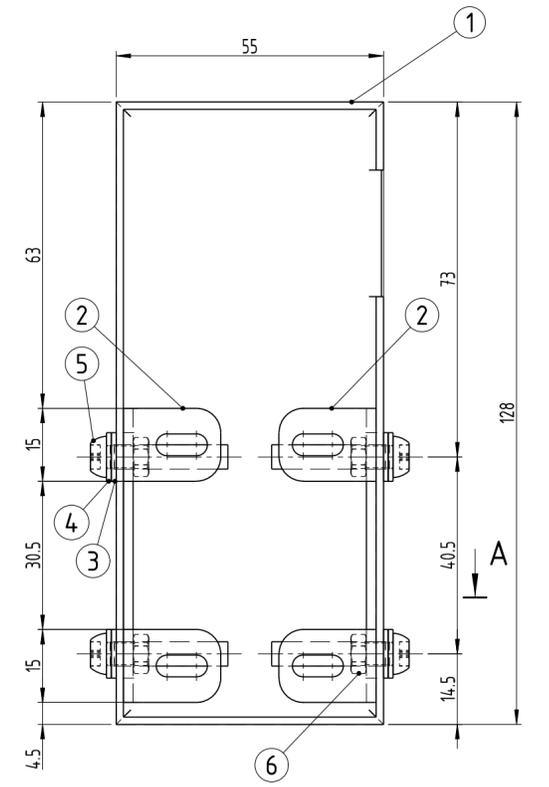
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227

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.

WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96

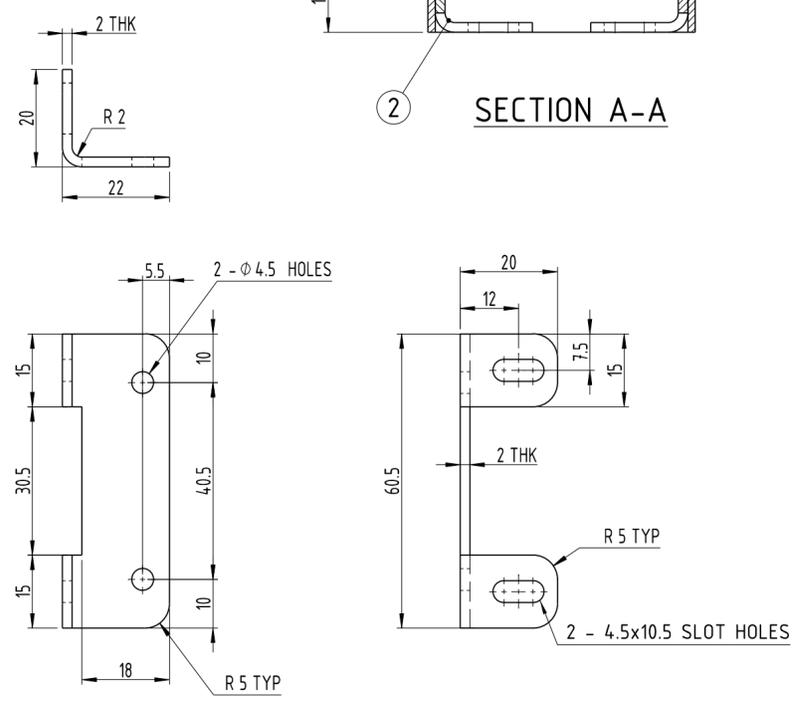
STATUS: **PROTO/PRODUCTION**



DETAIL-1

UNCONTROLLED

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	MATERIAL
6	4	-	HEX. HEAD FLANGE NUT	M4	ISO: 7044 / MAT'L : ISO :3506, Gr. A2-70, SS
5	4	-	SPRING WASHER	B4 (FOR M4 SCREW)	IS : 3063 / MAT'L IS: 1367 (P-14), AISI304 Gr. A2-70, SS
4	4	-	MACHINED WASHER	4.3 (FOR M4 SCREW)	IS : 2016 (TAB-1) / MAT'L IS: 1367(P-14), AISI304 Gr. A2-70, SS
3	4	-	CROSS RESESSED PAN HEAD SCREW	M4x14	IS:7483 -1985 / MATL : ISO:3506-79, Gr-A2-70,SS, WITH NYLOC BLUE PATCH
2	2	525-18316-02	NUT BRACKET	2t	SUS304/AISI304 -2B FINISH
1	1	525-18316-01	COVER	1.5t	SUS304/AISI304 BRUSH FINISH



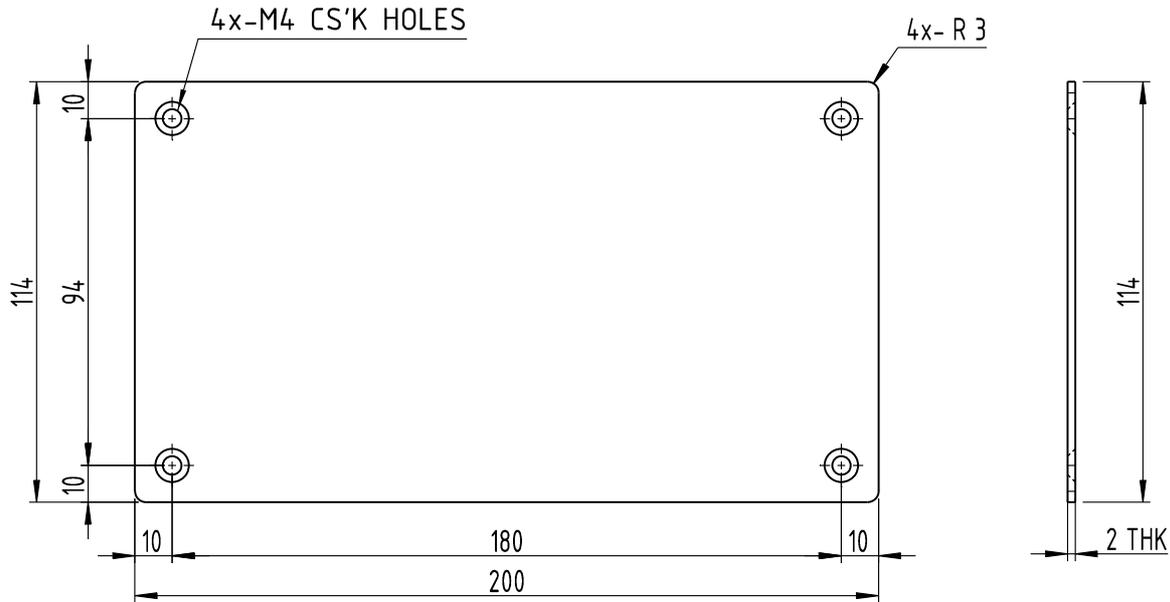
ASSY OF 2 & 6

- NOTE:
- ALL DIMENSIONS ARE IN mm.
 - THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
 - THE OUTER EXPOSED SURFACE SHALL BE BRUSH FINISHED TO ASTM A480. NO.6 FINISH.
 - ITEM 6 NUTS SHALL BE WELDED TO ITEM 2.
 - THE WELDING SYMBOLS ACCORDING TO ISO:2553.
 - WELD AREAS SHALL BE PICKLED & PASSIVATED.
 - REMOVE SHARP EDGES AND BURRS.
 - ITEM SHALL BE SUPPLIED IN ASSEMBLED CONDITION.
 - SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

PRODUCT	MUMBAI METRO CARS - L2 & L7		
REF DRG			
MATERIAL	SUS304/AISI304-BRUSH FINISH AS PER ASTM A480 NO.6 FINISH		
HEAT TREAT.	APPD	<i>[Signature]</i>	23.05.2020
SURFACE TREAT.	REVD	<i>[Signature]</i>	23.05.2020
TITLE	CHKD	<i>[Signature]</i>	23.05.2020
COVER LIMIT SWITCH			
SCALE	DRWN	<i>[Signature]</i>	23.05.2020
1:1	1 OF 1	SHEET	WT.
DRG No.			ALT
BEML LIMITED			525-18316

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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.										
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96							STATUS:		PROTO/PRODUCTION	



UNCONTROLLED

NOTE:

1. ALL DIMENSIONS ARE IN mm.
2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
3. REMOVE SHARP EDGES AND BURRS.
4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

GRADE No.	N1	0.025	▽			
VALUE	N2	0.05	▽			
SYMBOL	N3	0.1	▽			
	N4	0.2	▽			
SYMBOL	N5	0.4	▽			
	N6	0.8	▽			
SYMBOL	N7	1.6	▽			
	N8	3.2	▽			
SYMBOL	N9	6.3	▽			
	N10	12.5	▽			
SYMBOL	N11	25	▽			
	N12	50	▽			
ROUGHNESS	ALT.NO.	ECN NO/CHANGES	DATE	BY	CHKD	APPD

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)
					MATERIAL	
			PRODUCT	MUMBAI METRO CARS - L2 & L7		
			REF DRG			
			MATERIAL	SUS304/AISI304, 2B FINISH		
			HEAT TREAT.	APPD	<i>[Signature]</i>	16.04.2020
			SURFACE TREAT.	REVD	<i>[Signature]</i>	16.04.2020
			TITLE	CHKD	<i>[Signature]</i>	16.04.2020
			BLOCKING PLATE, CEM	DRWN	<i>[Signature]</i>	16.04.2020
				SCALE		SHEET
				1:2	1 OF 1	0.36 kg
			DRG No.	525-18342		ALT
			BEML LIMITED <small>NEW FRONTIERS. NEW DREAMS</small>			

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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	~

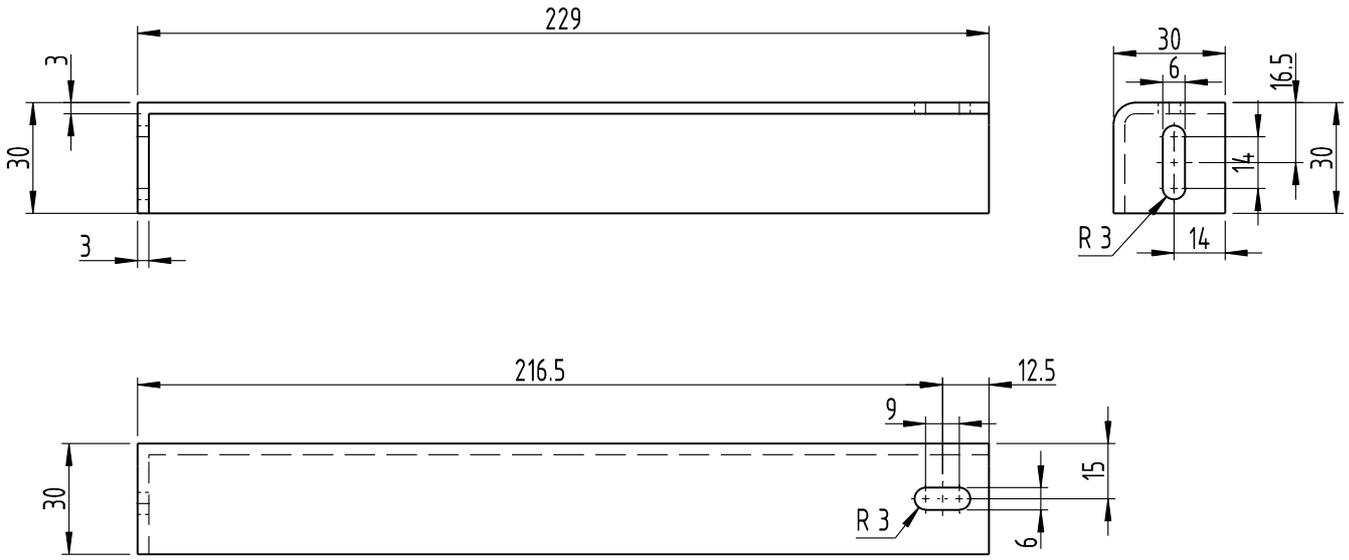
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227

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.

WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96

STATUS: **PROTO/PRODUCTION**



UNCONTROLLED

- NOTE:**
1. ALL DIMENSIONS ARE IN mm.
 2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
 3. REMOVE SHARP EDGES AND BURRS.
 4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

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												

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)
			PRODUCT	MUMBAI METRO CARS - L2 & L7		
			REF DRG			
			MATERIAL	SUS304/AISI304-2B FINISH		
			HEAT TREAT.	APPD	<i>[Signature]</i>	27.04.2020
			SURFACE TREAT.	REVD	<i>[Signature]</i>	27.04.2020
			TITLE	CHKD	<i>[Signature]</i>	27.04.2020
			SUPPORT BRACKET	DRWN	<i>[Signature]</i>	27.04.2020
				SCALE		SHEET
				NTS	1 OF 1	0.25kg
				DRG No.	525-18344	
						ALT

BEML LIMITED
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	~

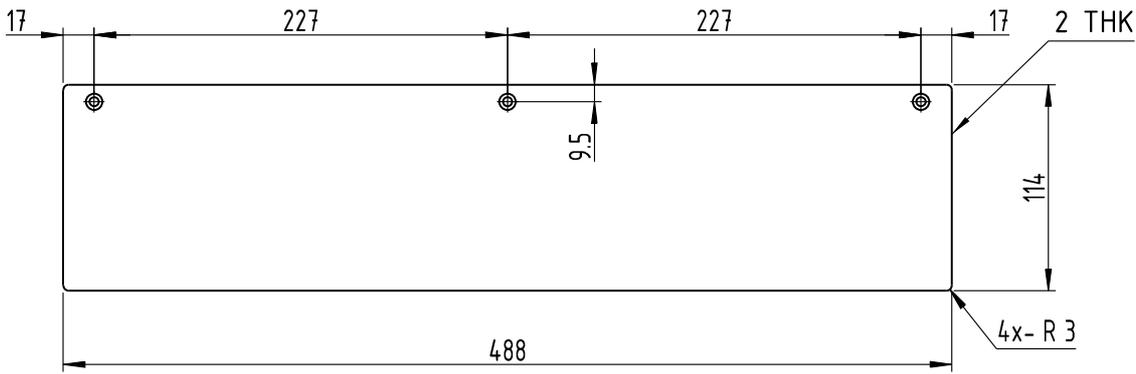
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227

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.

WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96

STATUS: **PROTO/PRODUCTION**



UNCONTROLLED

- NOTE:**
1. ALL DIMENSIONS ARE IN mm.
 2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
 3. REMOVE SHARP EDGES AND BURRS.
 4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

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												

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)	
			PRODUCT	MUMBAI METRO CARS - L2 & L7			
			REF DRG				
			MATERIAL	SUS304/AISI304-2B FINISH			
			HEAT TREAT.	APPD	<i>[Signature]</i>	02.05.2020	
			SURFACE TREAT.	REVD	<i>[Signature]</i>	02.05.2020	
			TITLE	CHKD	<i>[Signature]</i>	02.05.2020	
			COVER PLATE	DRWN	<i>[Signature]</i>	02.05.2020	
				SCALE		SHEET	Wt.
				NTS		1 OF 1	0.87 kg
				DRG No.	525-18346		
					ALT		

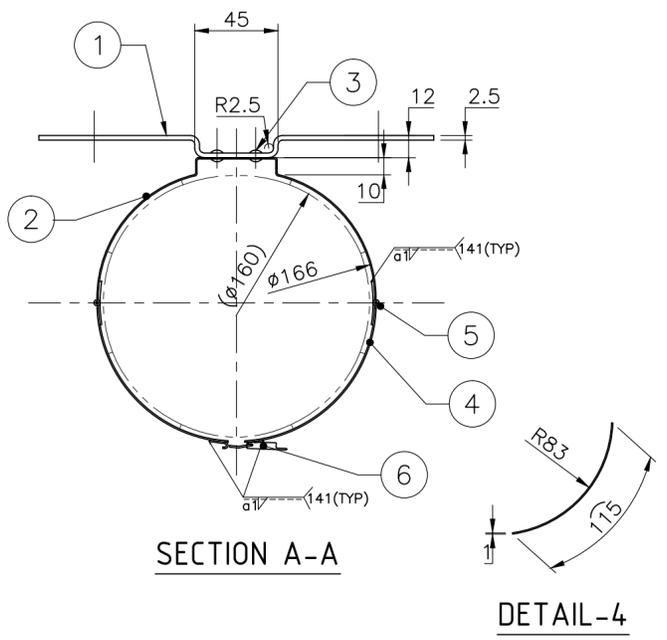
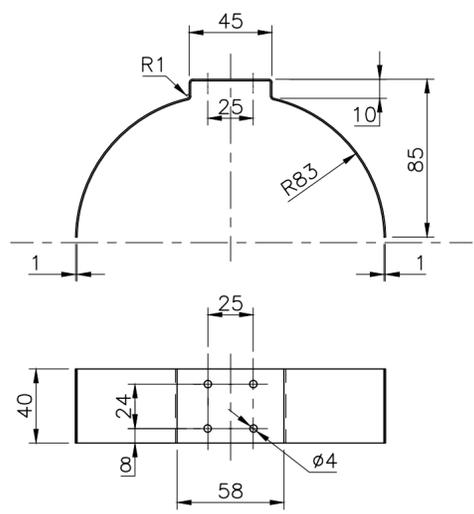
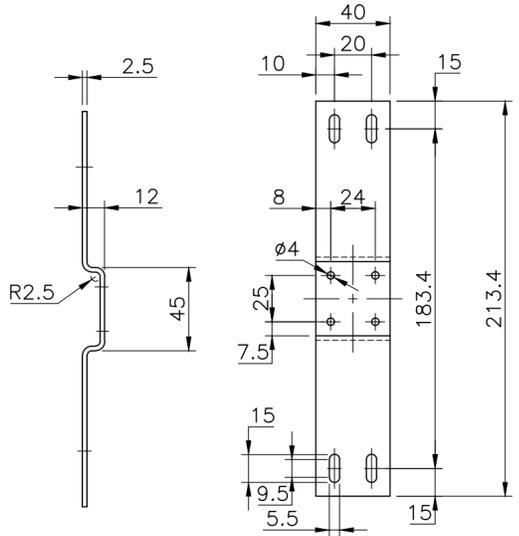
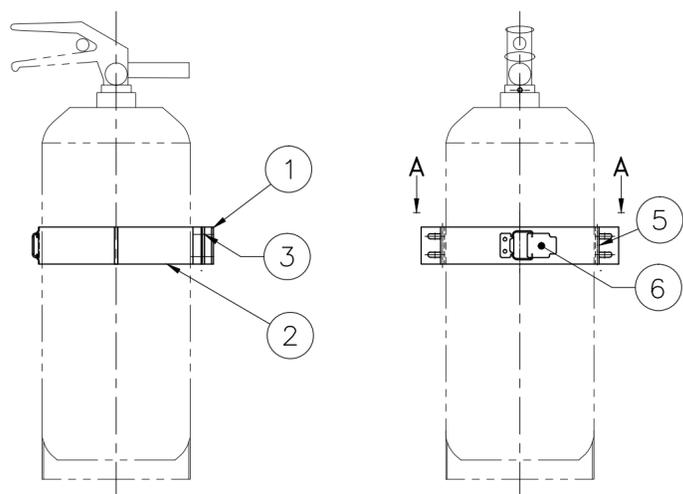


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NT1	0.025
N2	0.05
N3	0.1
N4	0.2
N5	0.4
N6	0.8
N7	1.6
N8	3.2
N9	6.3
N10	12.5
N11	25
N12	50

GRADE No.	VALUE	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)										
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS. 1012.C										
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										
									STATUS:	PROTO/PRODUCTION



- NOTE:**
- ALL DIMENSIONS ARE IN mm.
 - THE ASSY SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
 - REMOVE ALL SHARP EDGES AND BURRS.
 - PLUG/SPOT WELD ITEM NO 5 & 6 WITH ITEM 2 & 4 SUITABLY.
 - WELD AREAS SHALL BE PICKLED & PASSIVATED.
 - RIVET ITEM 2 TO ITEM 1 USING ITEM 3.
 - THE BRACKET ASSY SHALL BE BRUSH FINISHED AS PER ASTM A480 TO NO. 6 FINISH.
 - THIS ITEM SHALL BE APPROVED BEFORE MASS PRODUCTION.

UNCONTROLLED

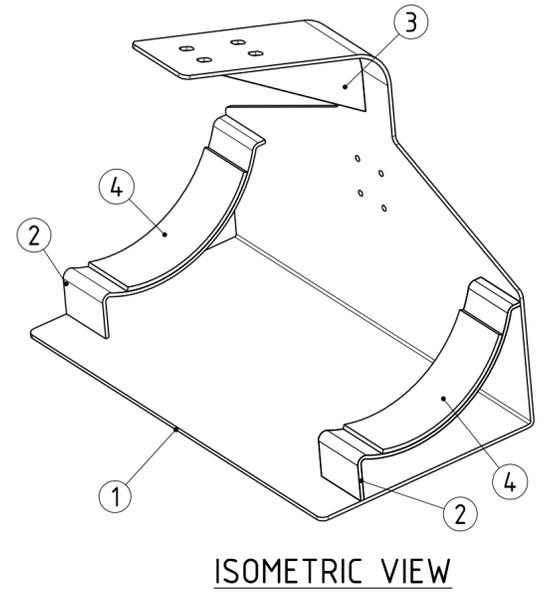
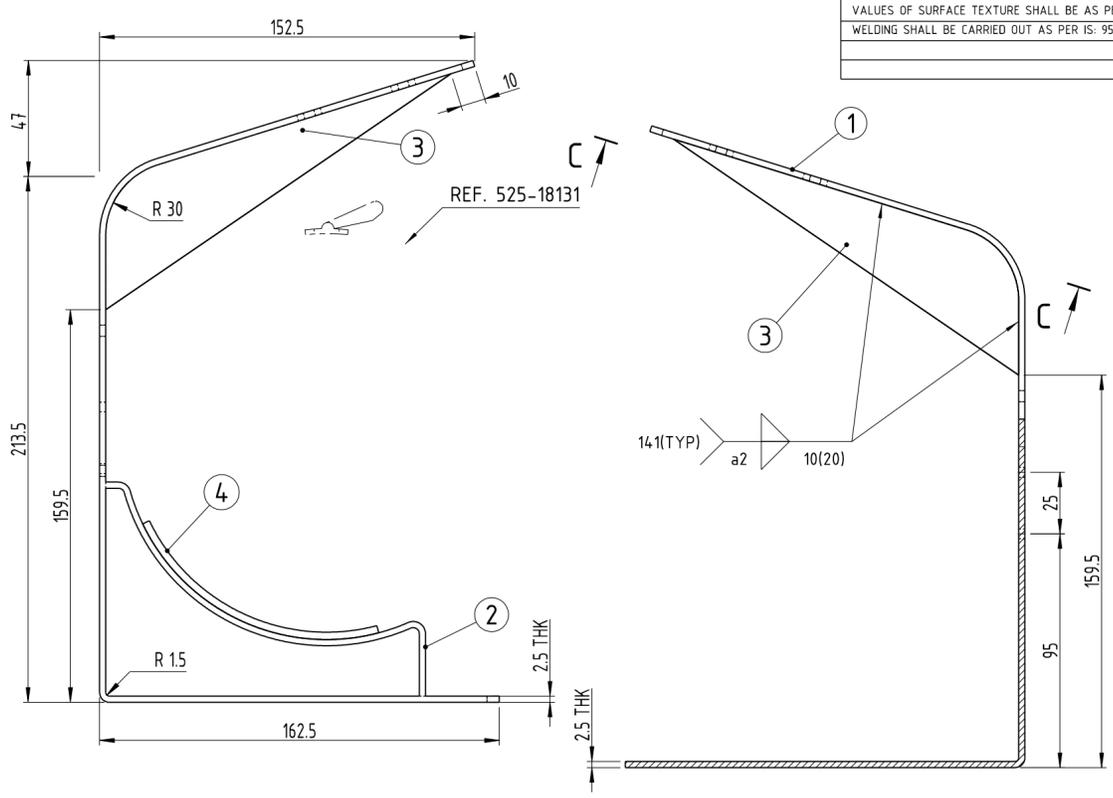
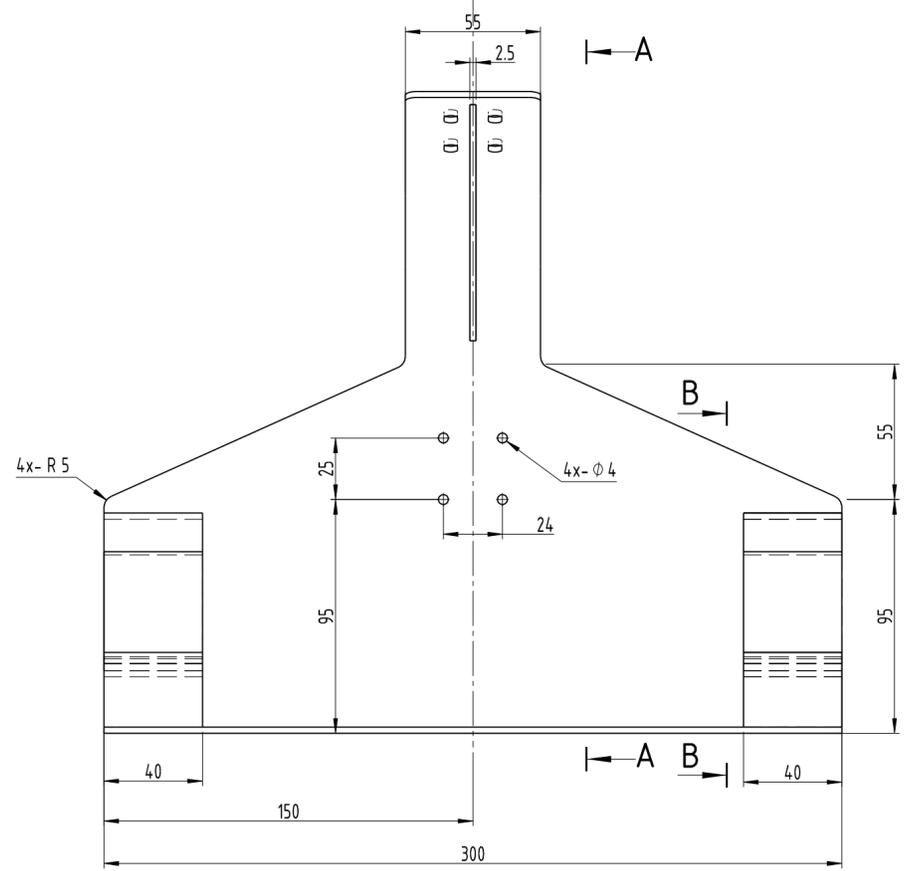
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./LS	Wt. (Kg)
6	1	-	SS LATCH-COMMERCIAL	-		SUS304/AISI304
5	2	-	SS HINGE-COMMERCIAL	40x40x1t		SUS304/AISI304
4	2	-	BAND	115x40x1t		SUS304/AISI304
3	4	-	RIVET	Ø4x8L		DIN 7337,TYPE-A,SS
2	1	-	BAND	280x40x1t		SUS304/AISI304
1	1	-	BRACKET	2.5t		SUS304/AISI304

PRODUCT		MUMBAI METRO CARS L2 & L7			
REF DRG					
MATERIAL		SUS304/AISI 304, BRUSH FINISHED AS PER ASTM A480 TO NO.6 FINISH			
HEAT TREAT.	APPD	APPROV	DATE	BY	CHKD
SURFACE TREAT.	REVD	DATE			
TITLE	CHKD	DATE			
BRACKET, FIRE EXTINGUISHER-6KG (NON-UTO)		DRWN	DATE		
SCALE	NTS	SHEET	1 OF 1	Wt.(Kg)	-
DRG No.		BEML LIMITED		525-18348	
ALT.No.	ECN NO/CHANGES	DATE	BY	CHKD	APPD

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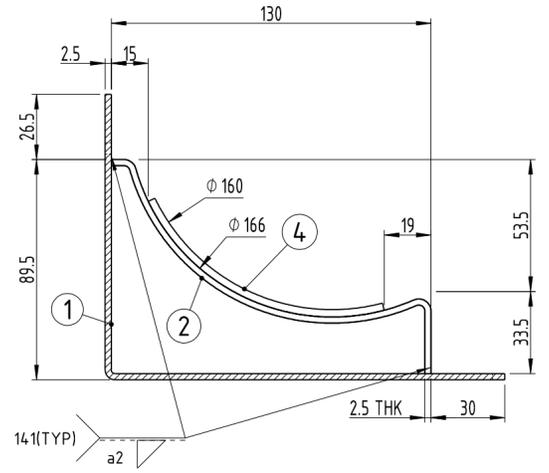
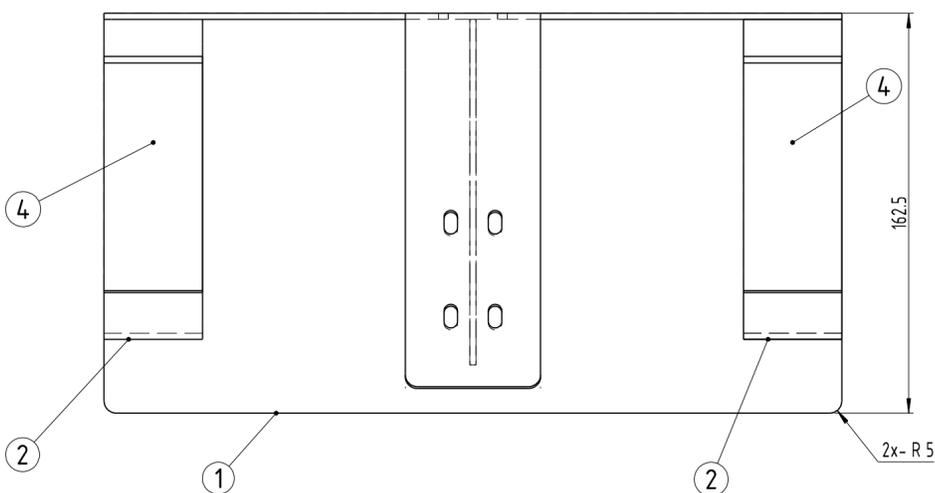
GRADE No.	VALUE	SYMBOL
N1	0.25	▽
N2	0.05	▽
N3	0.1	▽
N4	0.2	▽
N5	0.4	▽
N6	0.8	▽
N7	1.6	▽
N8	3.2	▽
N9	6.3	▽
N10	12.5	▽
N11	25	▽
N12	50	▽

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										
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										
STATUS:								PROTO/PRODUCTION		



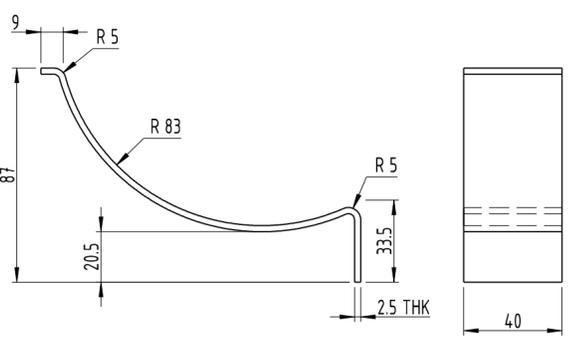
SECTION A-A

UNCONTROLLED

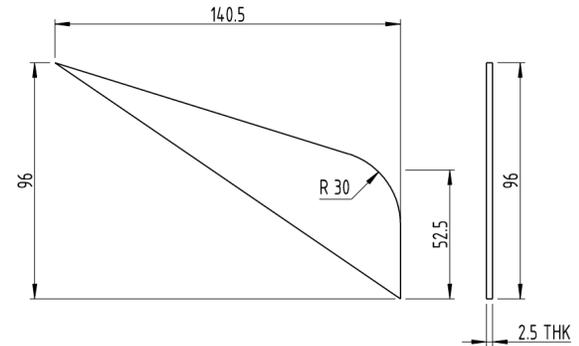


SECTION B-B

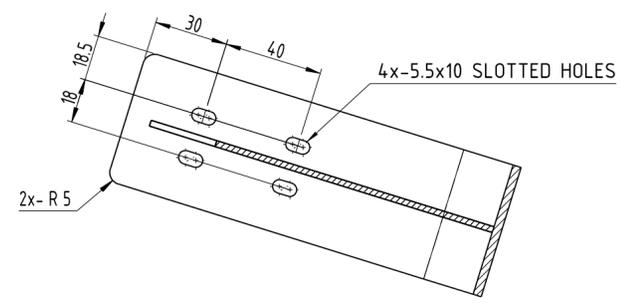
- NOTE:**
1. ALL DIMENSIONS ARE IN mm.
 2. THE BRACKET ASSY SHALL COMPLY WITH TDC DOC NO. GR/TD/5025.
 3. WELD SYMBOLS ACCORDING TO ISO :2553.
 4. ALL WELDS SHALL BE PICKLED AND PASSIVATED.
 5. THE BRACKET ASSY SHALL BE BRUSH FINISHED AS PER ASTM A480 TO NO.6 FINISH.
 6. ITEM 4, PACKING SHALL COMPLY TO FIRE SAFETY STANDARD EN 45545 HL3 REQUIREMENTS & FIRE SAFETY TEST REPORTS SHALL BE SUBMITTED ALONG WITH TECHNICAL BID.
 7. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE MASS PRODUCTION.
 8. THE ITEM 525-18131 SHALL BE RIVITTED TO BRACKET ASSY DURING INSTALLATION (BEML SCOPE).



DETAIL-2



DETAIL-3



SECTION C-C

4	2	525-18349-04	PACKING WITH SELF ADHESIVE	110x40x3THK	EPDM RUBBER
3	1	525-18349-03	RIB	2.5t	SUS304/AISI304
2	2	525-18349-02	SUPPORT	2.5t	SUS304/AISI304
1	1	525-18349-01	BRACKET	2.5t	SUS304/AISI304

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./IS	Wt. (Kg)
△						
△						
△						
△						
△						
△						
ALT.No.	ECN No./CHANGES	DATE	BY	CHKD	APPD	

PRODUCT				MUMBAI METRO CARS - L2 & L7	
REF DRG					
MATERIAL				SUS304/AISI304-BRUSH FINISH AS PER ASTM A480 NO.6 FINISH	
HEAT TREAT.				APPD	13.06.2020
SURFACE TREAT.				REVD	13.06.2020
TITLE				CHKD	13.06.2020
FIRE EXTINGUISHER BRACKET 6 KG(UTO)				DRWN	13.06.2020
SCALE				1:1	SHEET
DRG No.				1 OF 1	Wt.
BEML LIMITED				525-18349	ALT

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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	~

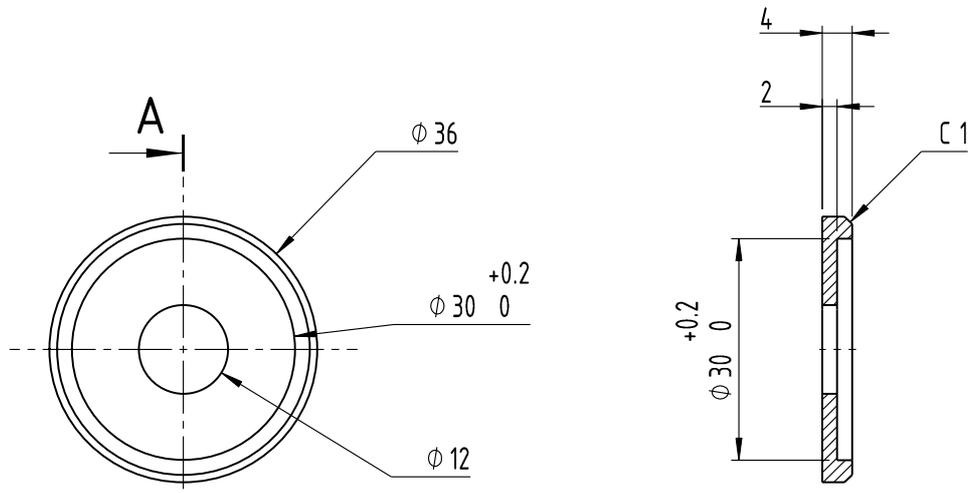
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227

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.

WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96

STATUS: **PROTO/PRODUCTION**



UNCONTROLLED

SECTION A-A

NOTE:

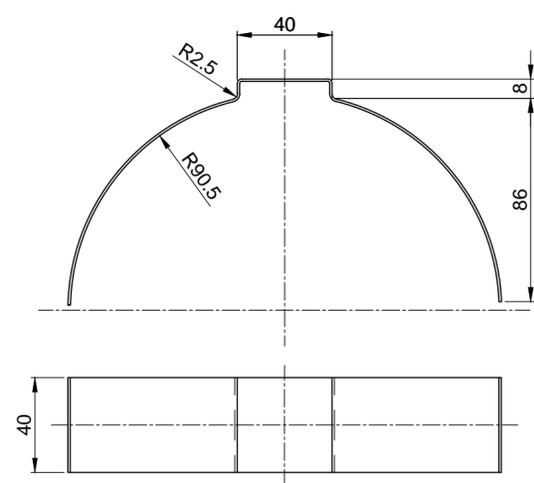
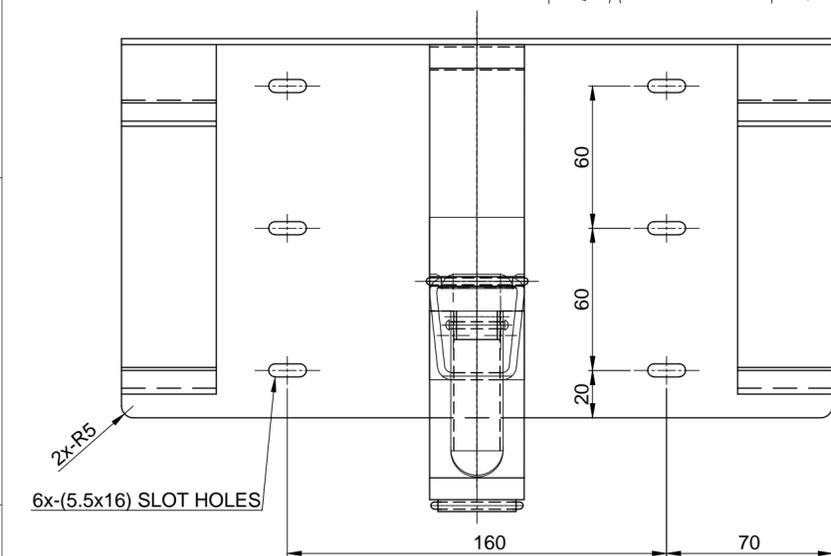
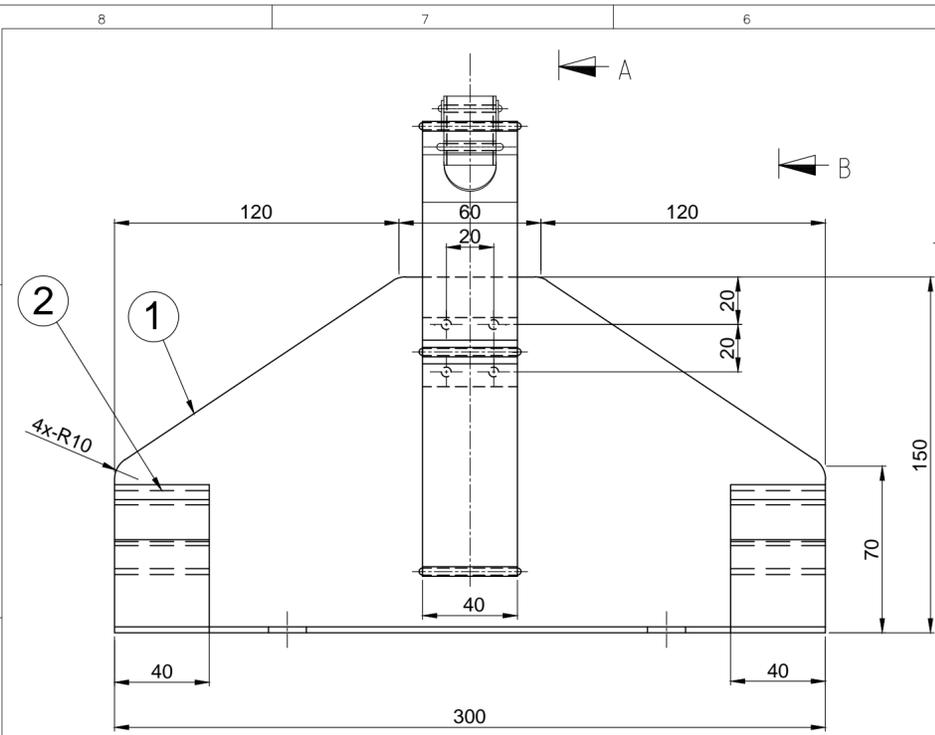
1. ALL DIMENSIONS ARE IN mm.
2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
3. THE EXPOSED SURFACE SHALL BE BRUSH FINISHED TO ASTM A480. NO.6 FINISH.
4. REMOVE SHARP EDGES AND BURRS.
5. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

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	▽
GRADE No.		▽
VALUE		▽
SYMBOL		▽
SURFACE ROUGHNESS		▽

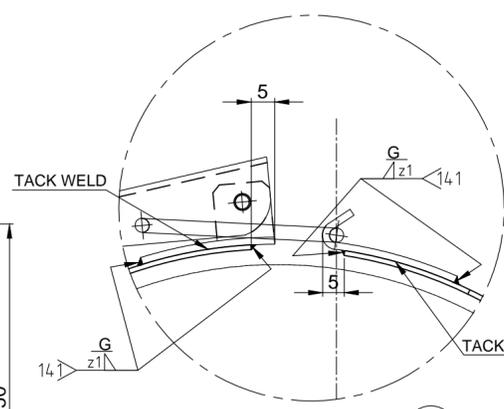
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)
					MATERIAL	
			PRODUCT	MUMBAI METRO CARS - L2 & L7		
			REF DRG			
			MATERIAL	SUS304/AISI304-BRUSH FINISH AS PER ASTM A480 NO.6 FINISH		
			HEAT TREAT.	APPD	<i>[Signature]</i>	20.05.2020
			SURFACE TREAT.	REVD	<i>[Signature]</i>	20.05.2020
			TITLE	CHKD	<i>[Signature]</i>	20.05.2020
			HAND RAIL SPACER	DRWN	<i>[Signature]</i>	20.05.2020
				SCALE		SHEET
				1:1	1 OF 1	-
				DRG No.	525-19128	
					ALT	
			BEML LIMITED <small>NEW FRONTIERS. NEW DREAMS</small>			

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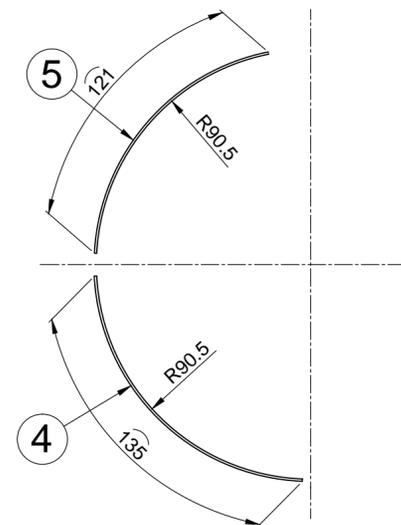
GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12
VALUE	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
SYMBOL												
SURFACE ROUGHNESS												



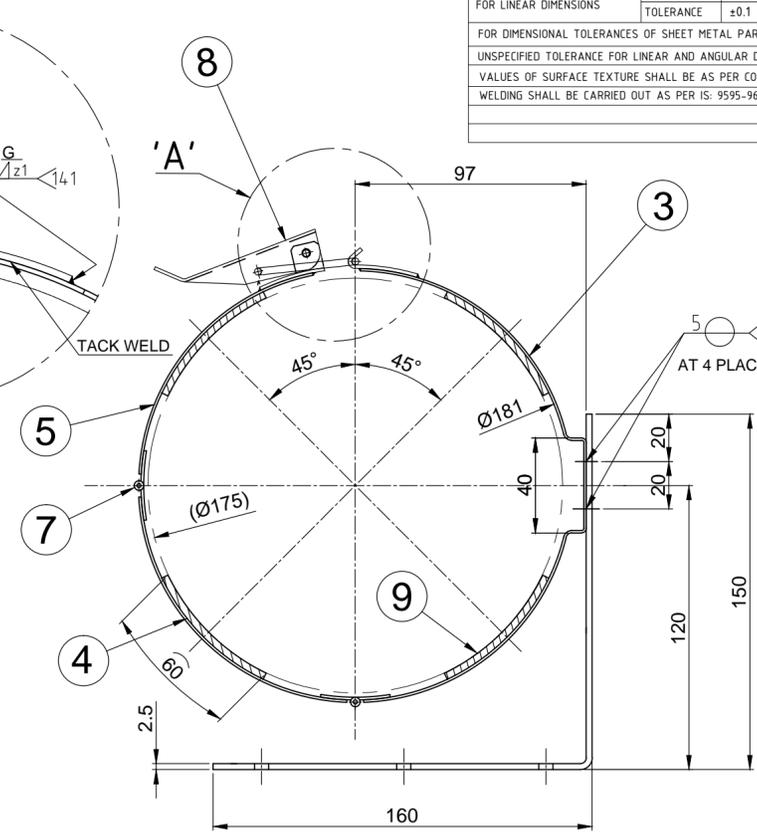
DETAIL-03



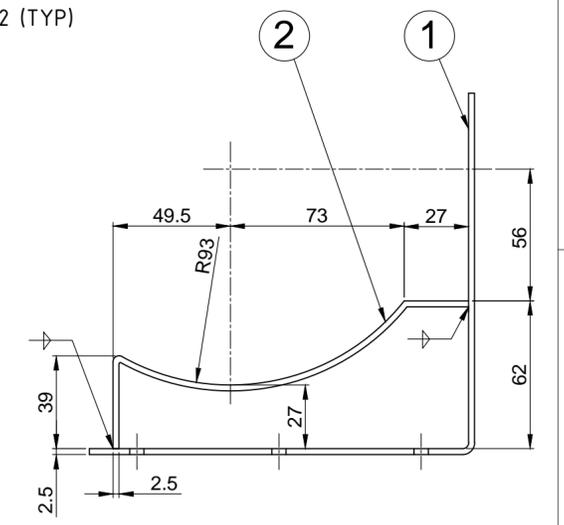
DETAIL-A



DETAIL-04&05



SECTION A-A



SECTION B-B

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										
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										
STATUS:								PROTO/PRODUCTION		

UNCONTROLLED

- NOTE:
1. ALL DIMENSIONS ARE IN mm.
 2. THE ASSY SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
 3. REMOVE ALL SHARP EDGES AND BURRS.
 4. ITEM NO 7 & 8 SHALL BE PLUG/SPOT WELDED WITH ITEM 3, 4 & 5 SUITABLY.
 5. ALL WELDS SHALL BE PICKLED & PASSIVATED.
 6. THE ASSY SHALL BE BRUSH FINISHED AS PER ASTM A480 TO NO.6 FINISH.
 7. ITEM 9, PACKING SHALL COMPLY TO FIRE SAFETY STANDARD EN 45545 HL3 REQUIREMENTS & FIRE SAFETY TEST REPORTS SHALL BE SUBMITTED ALONG WITH TECHNICAL BID.
 8. THIS ITEM SHALL BE APPROVED BEFORE MASS PRODUCTION.

9	4	525-19424-09	PACKING WITH SELF ADHESIVE	60x40x3THK	EPDM RUBBER
8	1	525-19425	LATCH ASSY	-	AISI304/SUS304
7	2	525-19424-06	SS HINGE-COMMERCIAL	-	AISI304/SUS304
5	1	525-19424-05	BAND	1 THK	AISI304/SUS304
4	1	525-19424-04	BAND	1 THK	AISI304/SUS304
3	1	525-19424-03	BAND	1 THK	AISI304/SUS304
2	2	525-19424-02	SUPPORT	2.5 THK	AISI304/SUS304
1	1	525-19424-01	BRACKET	2.5 THK	AISI304/SUS304

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)
MATERIAL						
PRODUCT: MUMBAI METRO CARS L2 & L7						
REF DRG						
MATERIAL: SUS304/AISI304-BRUSH FINISH AS PER ASTM A480 NO.6 FINISH						
HEAT TREAT: APPD: 22.05.2020						
SURFACE TREAT: REV D: 22.05.2020						
TITLE: CHKD: 22.05.2020						
DRWN: 22.05.2020						
SCALE: 1:2 SHEET: 1 OF 1 Wt.(Kg): -						
DRG No. 525-19424 ALT: -						
BEML LIMITED						

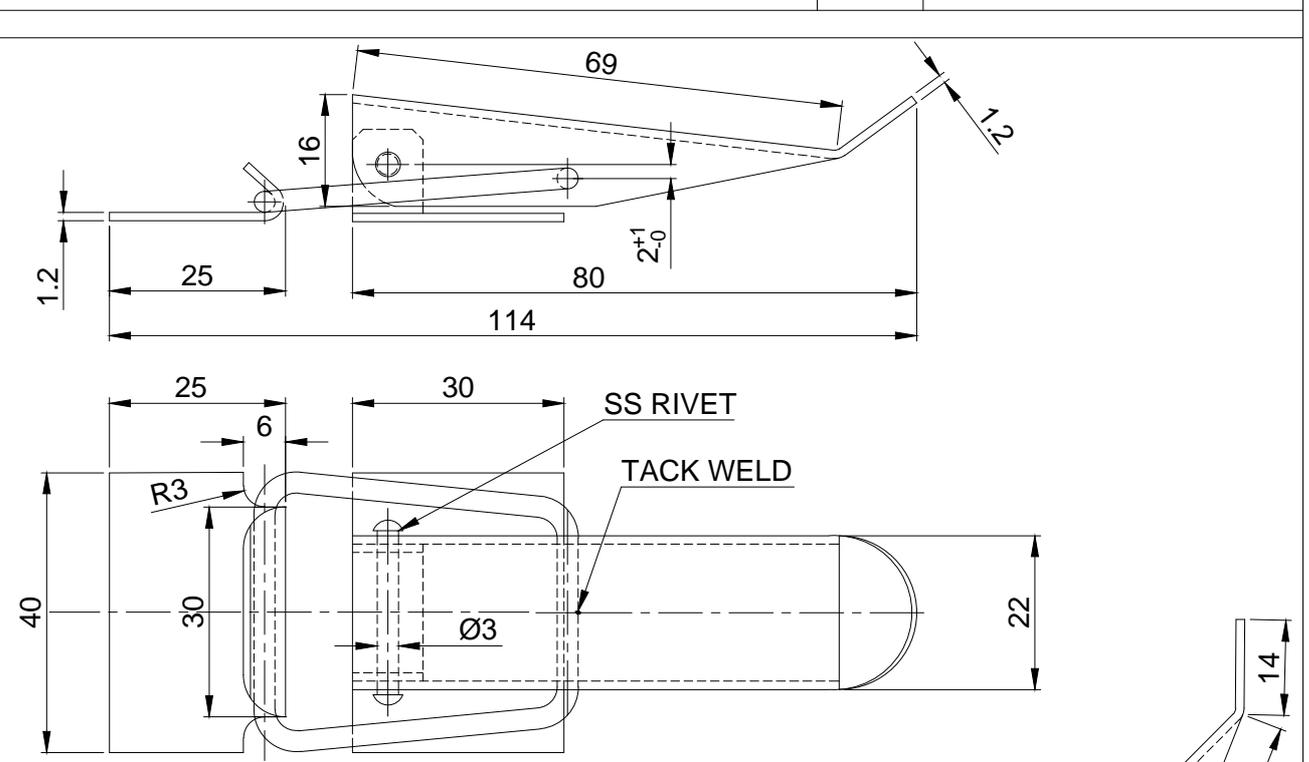
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	RANGE	0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000	ABOVE 4000	RA
	TOLERANCE	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	~

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.

WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96 STATUS: **PROTO/PRODUCTION**



- NOTE**
1. OTHER DIMENSIONS SHALL BE MAINTAINED TO ENSURE FUNCTIONALITY & AESTHETICS.
 2. ASSEMBLY SHALL BE BUFF FINISHED.
 3. ASSEMBLY SHALL BE FREE FROM BURRS & SHARP EDGES.

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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
GRADE No.	
VALUE	
SYMBOL	
SURFACE ROUGHNESS	

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)	
						MATERIAL	
			PRODUCT	MUMBAI METRO CARS L2 & L7			
			REF DRG				
			MATERIAL	AISI304/SUS304, BUFF FINISHED AS PER ASTM A480 NO.8 FINISH			
			HEAT TREAT.	APPD	<i>[Signature]</i>	22.05.2020	
			SURFACE TREAT.	REVD	<i>[Signature]</i>	22.05.2020	
			TITLE	CHKD	<i>[Signature]</i>	22.05.2020	
			LATCH ASSY	DRWN	<i>[Signature]</i>	22.05.2020	
				SCALE	1:1	SHEET 1 OF 1	Wt.(Kg) -
				DRG No.	525-19425		ALT -
			BEML LIMITED <small>NEW FRONTIERS. NEW DREAMS</small>				

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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	

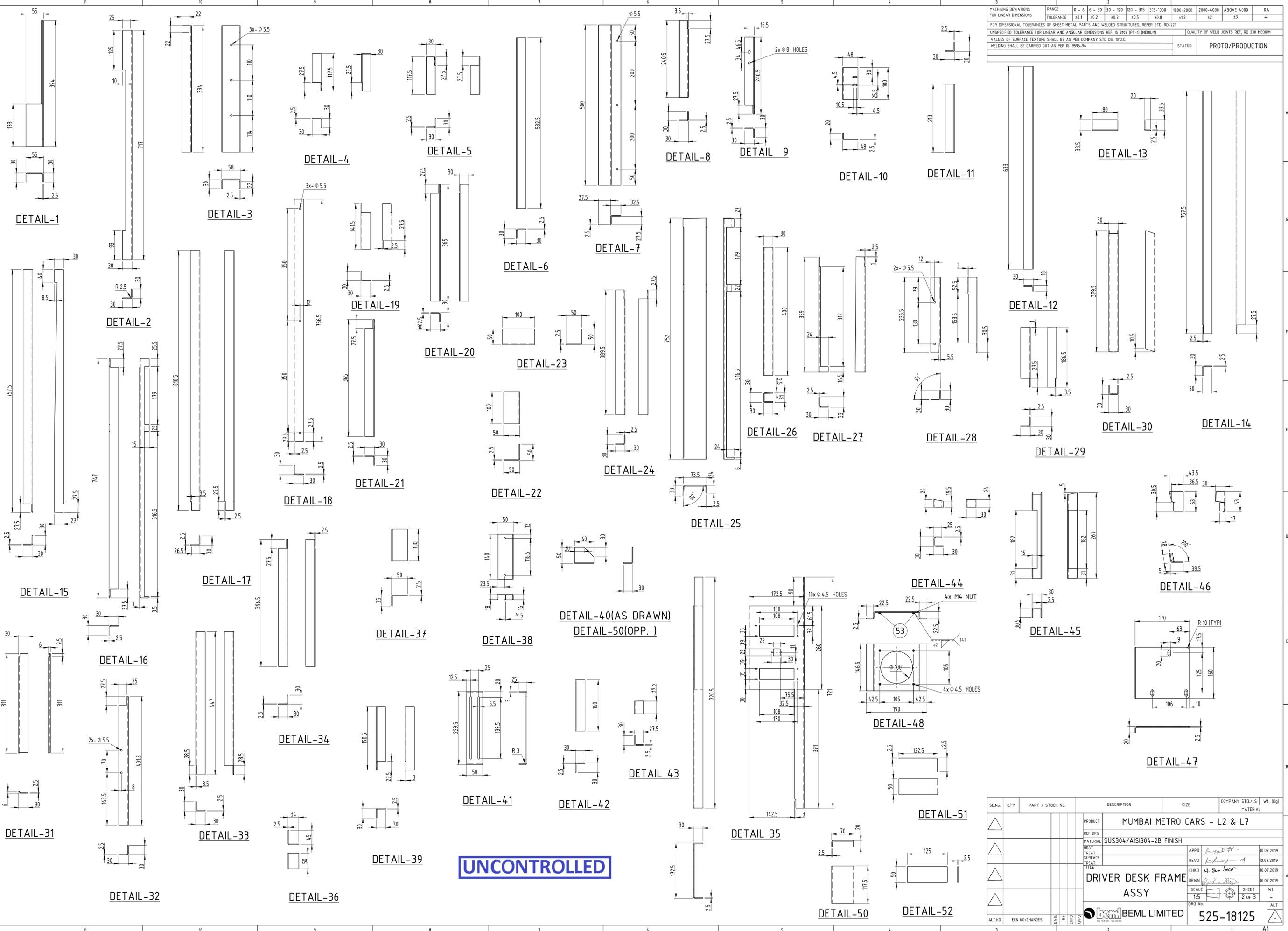
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227

UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (PT-1) (MEDIUM)

VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS. 1012.C

WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96

STATUS: **PROTO/PRODUCTION**



SL No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./S.	Wt. (kg)
			MUMBAI METRO CARS - L2 & L7		MATERIAL	
			PRODUCT			
			REF. DRG.			
			MATERIAL	SUS304/AISI304-2B FINISH		
			HEAT TREAT			
			SURFACE TREAT.			
			TITLE	DRIVER DESK FRAME ASSY		
			SCALE	1:5	SHEET 2 OF 3	WT.
			DRG No.			ALT.
ALT NO.	ECN NO/CHANGES	DATE	BY	APPROV.	BEM BEM LIMITED	
					525-18125	

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	RANGE	TOLERANCE					1000-2000	2000-4000	ABOVE 4000	RA
		0 - 6	6 - 30	30 - 120	120 - 315	315 - 1000				
		±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

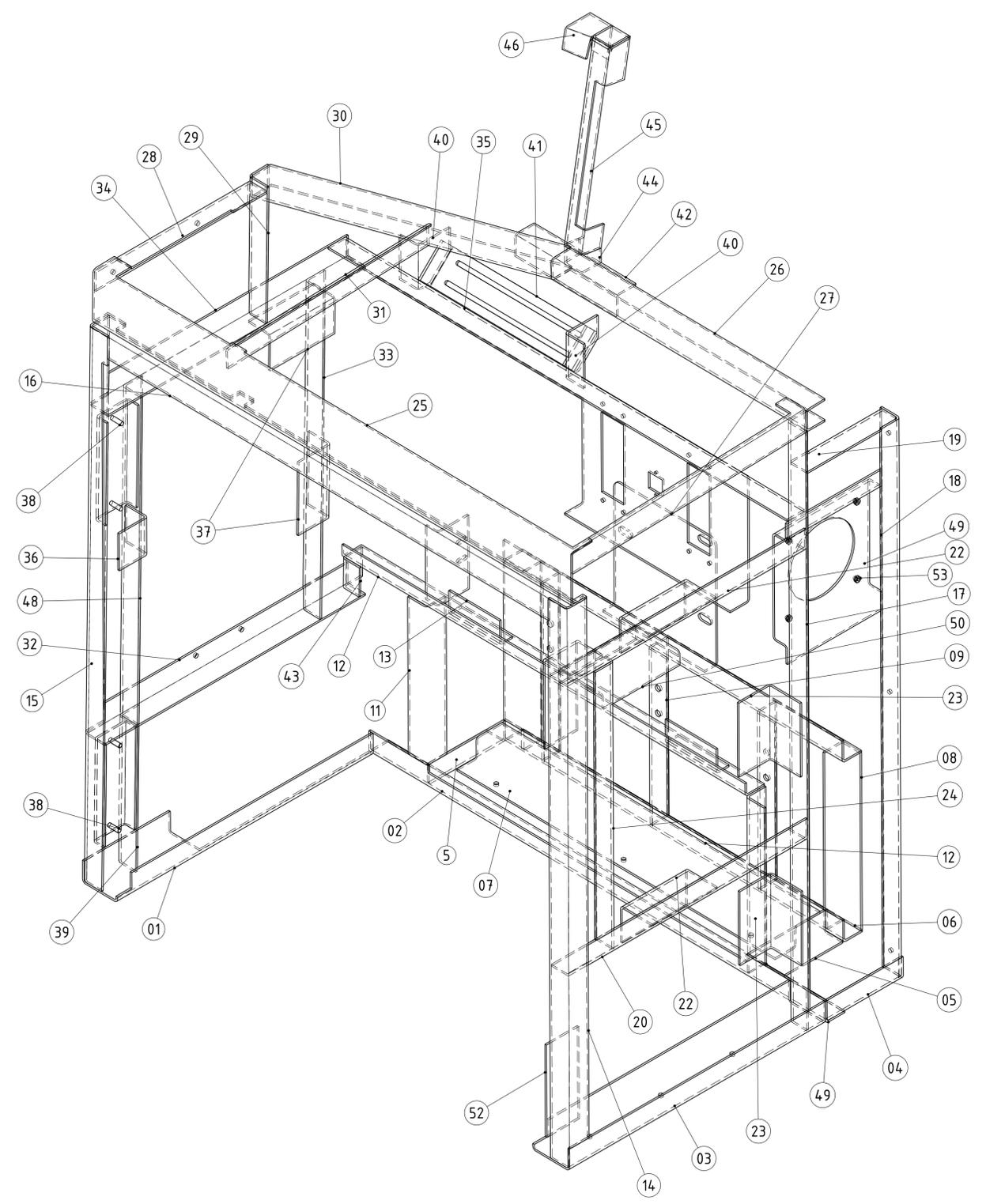
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (PT-1) (MEDIUM)

VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS. 1012.C

WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96

STATUS: **PROTO/PRODUCTION**

UNCONTROLLED



SL No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	MATERIAL
53	4	-	HEX. HEAD FLANGE NUT	M4	ISO:7044-83/MATL: ISO: 3506, Gr A2-70, SS
52	1	-	BRACKET	2.5t, 50x125	SUS304 / AISI304
51	1	-	BRACKET	2.5t, 122.5x42.5 L=50	SUS304 / AISI304
50	1	-	BRACKET	2.5t, 20x20x70 L=117	SUS304 / AISI304
49	1	-	BRACKET	2.5t	SUS304 / AISI304
48	1	-	FRAME, ANGLE	2.5t, 30x30 L=44.7	SUS304 / AISI304
47	1	-	FRAME, ANGLE	2.5t, 4.7x120 L=160	SUS304 / AISI304
46	1	-	FRAME, ANGLE	2.5t, 57x60	SUS304 / AISI304
45	1	-	FRAME, CHANNEL	2.5t, 23x23x25 L=267	SUS304 / AISI304
44	1	-	FRAME, CHANNEL	2.5t, 25x25x25 L=24	SUS304 / AISI304
43	1	-	FRAME, ANGLE	2.5t, 30x30 L=139.5	SUS304 / AISI304
42	1	-	FRAME, ANGLE	2.5t, 30x30 L=160	SUS304 / AISI304
41	1	-	FRAME, ANGLE	3t, 25x25x225 L=230	SUS304 / AISI304
40	2	-	FRAME, ANGLE	2.5t, 30x50 L=60	SUS304 / AISI304
39	1	-	FRAME, ANGLE	2.5t, 30x30 L=198.5	SUS304 / AISI304
38	1	-	FRAME, CHANNEL	2.5t, 18x18x50 L=140	SUS304 / AISI304
37	2	-	FRAME, ANGLE	2.5t, 35x50 L=100	SUS304 / AISI304
36	1	-	FRAME, ANGLE	2.5t, 45x34 L=50	SUS304 / AISI304
35	1	-	FRAME, ANGLE	2.5t, L=721	SUS304 / AISI304
34	1	-	FRAME, ANGLE	2.5t, 30x30 L=396	SUS304 / AISI304
33	1	-	FRAME, ANGLE	2.5t, 50x50 L=44.7	SUS304 / AISI304
32	1	-	FRAME, ANGLE	2.5t, 30x30 L=401.5	SUS304 / AISI304
31	1	-	FRAME, ANGLE	2.5t, 25x25 L=311	SUS304 / AISI304
30	1	-	FRAME, ANGLE	2.5t, 30x30x32 L=379	SUS304 / AISI304
29	1	-	FRAME, ANGLE	2.5t, 30x30 L=186	SUS304 / AISI304
28	1	-	FRAME, ANGLE	2.5t, 30x30 L=237	SUS304 / AISI304
27	1	-	FRAME, ANGLE	2.5t, 30x30 L=360	SUS304 / AISI304
26	1	-	FRAME, CHANNEL	2.5t, 30x30x32 L=400	SUS304 / AISI304
25	1	-	FRAME, CHANNEL	2.5t, 25x35x70 L=752	SUS304 / AISI304
24	1	-	FRAME, ANGLE	2.5t, 30x30 L=389.5	SUS304 / AISI304
23	2	-	FRAME, ANGLE	2.5t, 50x50 L=100	SUS304 / AISI304
22	2	-	FRAME, ANGLE	2.5t, 50x50 L=100	SUS304 / AISI304
21	1	-	FRAME, ANGLE	2.5t, 30x30 L=365	SUS304 / AISI304
20	1	-	FRAME, ANGLE	2.5t, 30x30 L=365	SUS304 / AISI304
19	1	-	FRAME, ANGLE	2.5t, 30x30 L=141.5	SUS304 / AISI304
18	1	-	FRAME, ANGLE	2.5t, 30x30 L=756.5	SUS304 / AISI304
17	1	-	FRAME, ANGLE	2.5t, 30x60 L=810.5	SUS304 / AISI304
16	1	-	FRAME, ANGLE	2.5t, 30x30 L=74.7	SUS304 / AISI304
15	1	-	FRAME, ANGLE	2.5t, 30x30 L=757.5	SUS304 / AISI304
14	1	-	FRAME, ANGLE	2.5t, 30x30 L=757.5	SUS304 / AISI304
13	2	-	FRAME, ANGLE	2.5t, 33x20 L=80	SUS304 / AISI304
12	1	-	FRAME, ANGLE	2.5t, 30x18 L=633	SUS304 / AISI304
11	2	-	FRAME, ANGLE	2.5t, 30x30 L=213	SUS304 / AISI304
10	1	-	FRAME, ANGLE	2.5t, 20x48 L=100	SUS304 / AISI304
9	1	-	FRAME, ANGLE	2.5t, 30x30 L=240.5	SUS304 / AISI304
8	2	-	FRAME, ANGLE	2.5t, 30x30 L=240.5	SUS304 / AISI304
7	1	-	FRAME, CHANNEL	2.5t, 25x35x35 L=500	SUS304 / AISI304
6	1	-	FRAME, ANGLE	2.5t, 30x30 L=532.5	SUS304 / AISI304
5	2	-	FRAME, ANGLE	2.5t, 30x30 L=117.5	SUS304 / AISI304
4	1	-	FRAME, ANGLE	2.5t, 30x30 L=117.5	SUS304 / AISI304
3	1	-	FRAME, CHANNEL	2.5t, 58x30x30 L=394	SUS304 / AISI304
2	1	-	FRAME, ANGLE	2.5t, 30x30 L=717	SUS304 / AISI304
1	1	-	FRAME, CHANNEL	2.5t, 55x30x30 L=394	SUS304 / AISI304

- NOTE:**
1. ALL DIMENSIONS ARE IN mm.
 2. THE ASSY SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
 3. WELDING SYMBOLS ACCORDING TO ISO:2553.
 4. WELD AREAS SHALL BE PICKLED AND PASSIVATED.
 5. REMOVE SHARP EDGES AND BURRS.
 6. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

SL No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	MATERIAL
<p>PRODUCT: MUMBAI METRO CARS - L2 & L7</p> <p>REF DRG: SUS304/AISI304-2B FINISH</p> <p>MATERIAL: SUS304/AISI304-2B FINISH</p> <p>HEAT TREAT: APPD</p> <p>SURFACE TREAT: REVD</p> <p>TITLE: CHKD</p> <p>DRIVER DESK FRAME ASSY</p> <p>SCALE: 1:5 SHEET: 3 OF 3 WT: -</p> <p>DRG No. 525-18125</p> <p>BEMBL LIMITED</p>					
ALT NO.	EEN NO/CHANGES	DATE	BY	APPD	ALT

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