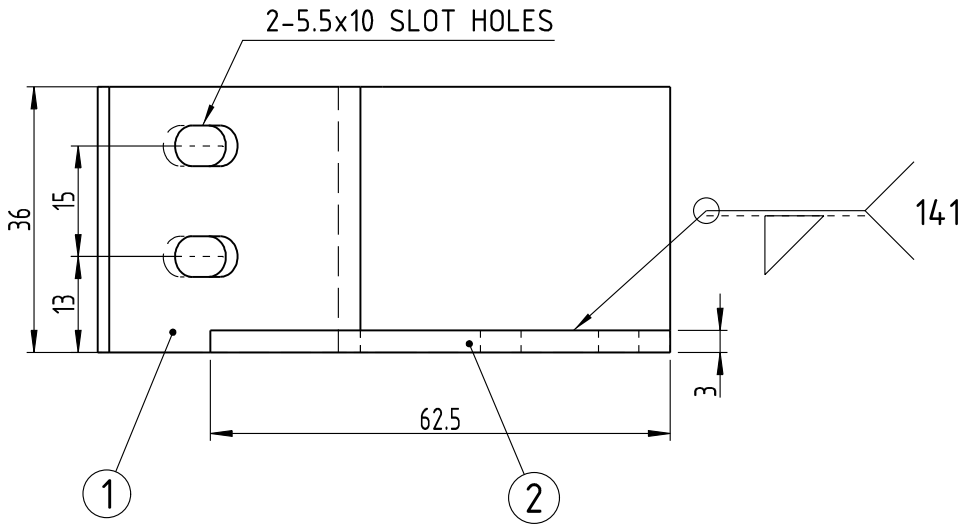
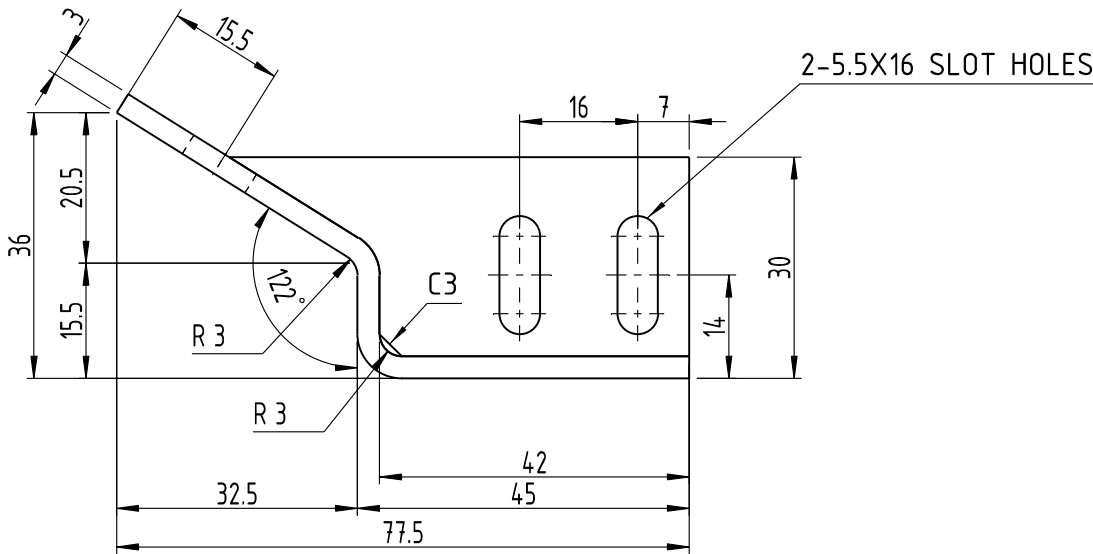


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GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12
VALUE	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
SYMBOL												

SURFACE  
ROUGHNESS



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										

PART NO	REMARK
525-19181-300	AS DRAWN
525-19181-301	OPP. HAND DRAWN

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	525-19181-02			BRACKET			t3			SUS 304 / AISI 304 -2B							
1	1	525-19181-01			BRACKET			t3			SUS 304 / AISI 304 -2B							
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			20.05.2020				
							SURFACE TREAT.				REVD			20.05.2020				
							TITLE	BRACKET GAS SPRING						CHKD			20.05.2020	
							DRWN							N. Siva Sreen		20.05.2020		
							SCALE									SHEET	1 OF 1	
							DRG No.						ALT					
							525-19181											
ALT.NO.	ECN NO/CHANGES			DATE	BY	CHKD	APPD	<b>BEM</b> LIMITED <small>NEW FRONTIERS - NEW DREAMS</small>										



BEML LIMITED

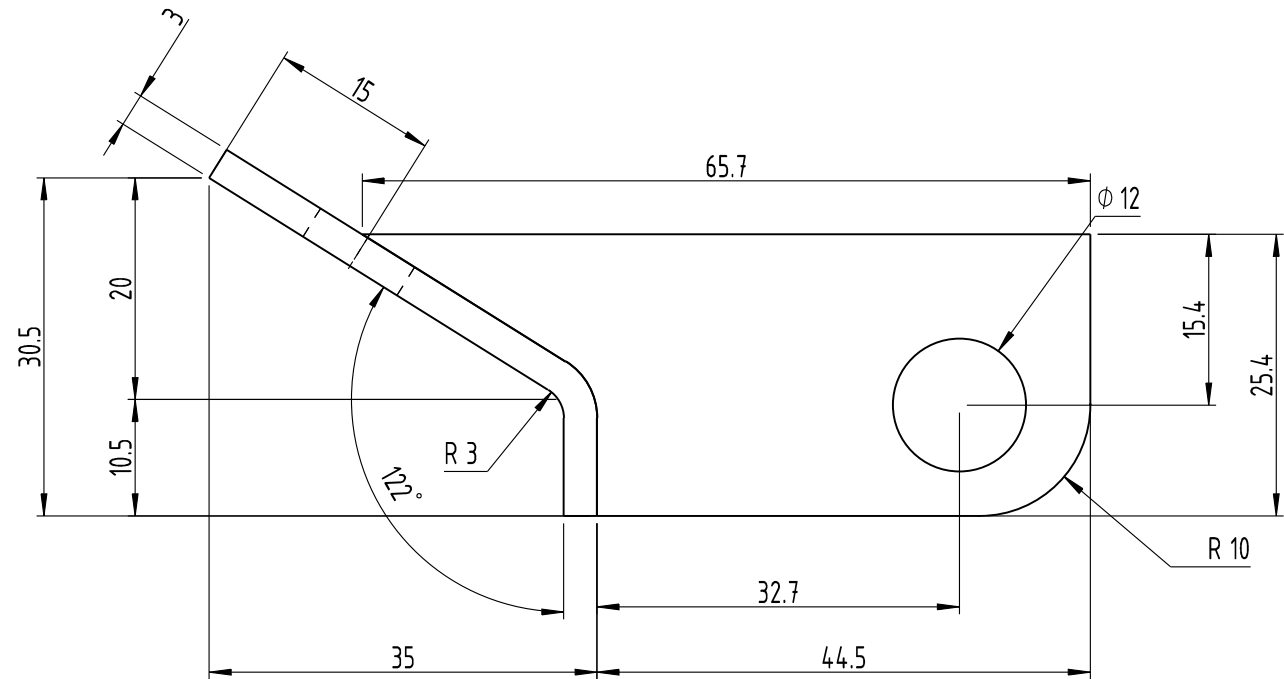
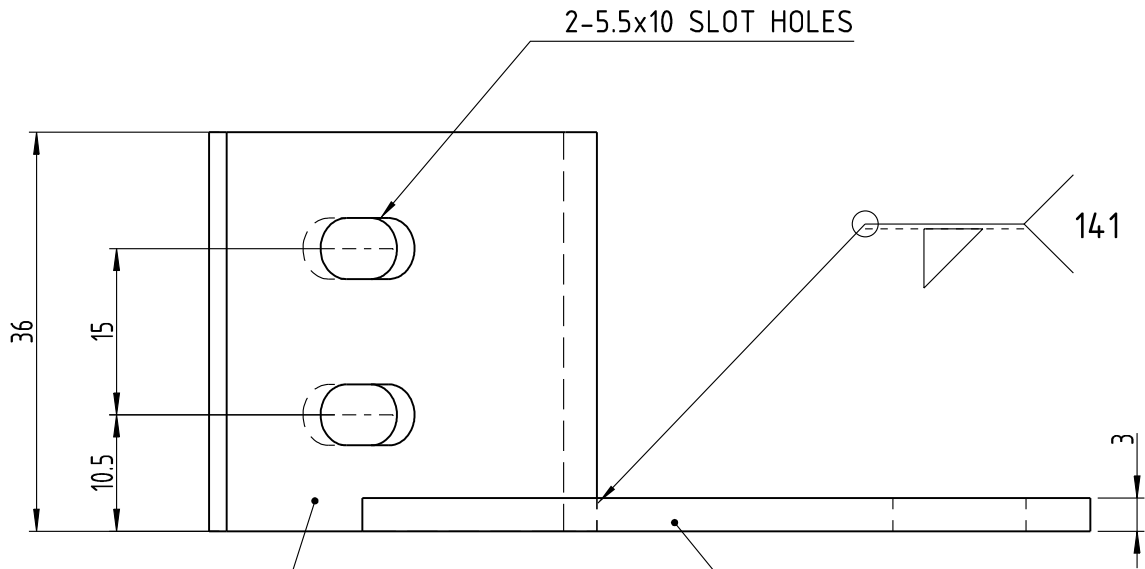
525-19181



A3

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

UNCONTROLLED

PART NO	REMARK
525-19182-300	AS DRAWN
525-19182-301	OPP. HAND DRAWN

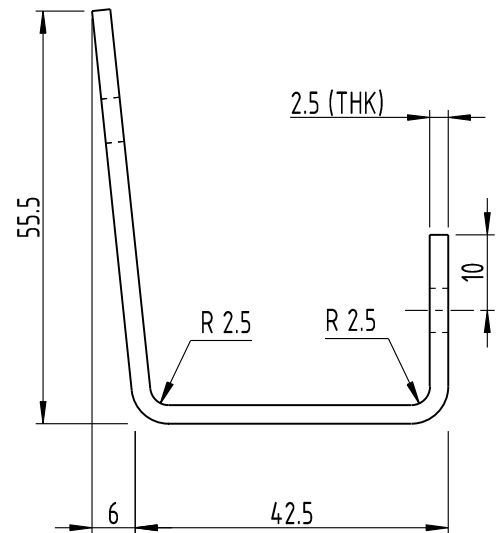
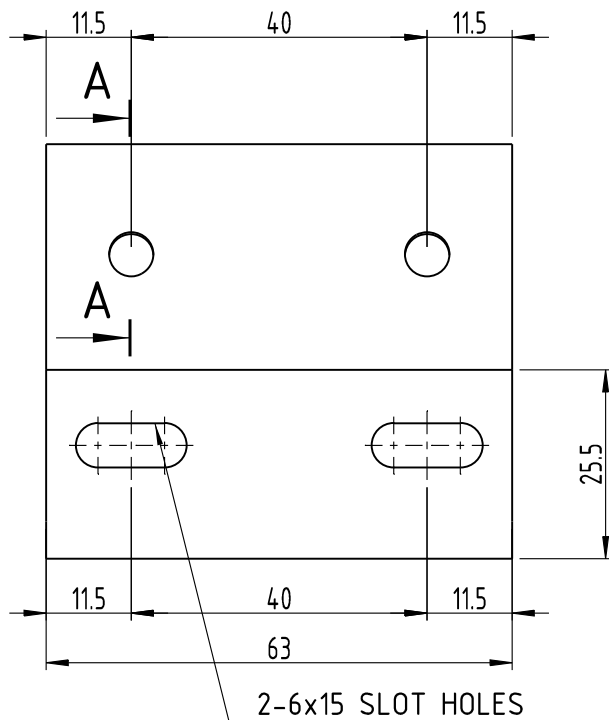
NOTE:

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.

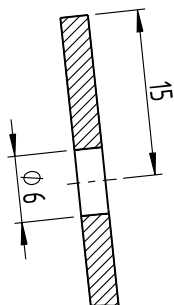
2	1	525-19182-02				BRACKET				†3		SUS 304 / AISI 304 -2B						
1	1	525-19182-01				BRACKET				†3		SUS 304 / AISI 304 -2B						
SL.No.	QTY	PART / STOCK No.				DESCRIPTION				SIZE		COMPANY STD./I.S		Wt. (Kg)				
												MATERIAL						
						PRODUCT	MUMBAI METRO CARS - L2 & L7											
						REF DRG												
						MATERIAL	SUS304 / AISI304- 2B FINISH											
						HEAT TREAT.					APPD			20.05.2020				
						SURFACE TREAT.					REVD			20.05.2020				
						TITLE					CHKD			20.05.2020				
						BRACKET ROPE HOOK						DRWN			20.05.2020			
												SCALE			SHEET		Wt.	
												1:1			1 OF 1		-	
												DRG No.						
ALT.No.	ECN NO/CHANGES				DATE	BY	CHKD	APPD	<b>BEM</b> <b>LIMITED</b> <small>NEW FRONTIERS- NEW DREAMS</small>				525-19182				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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SECTION A-A

NOTE:

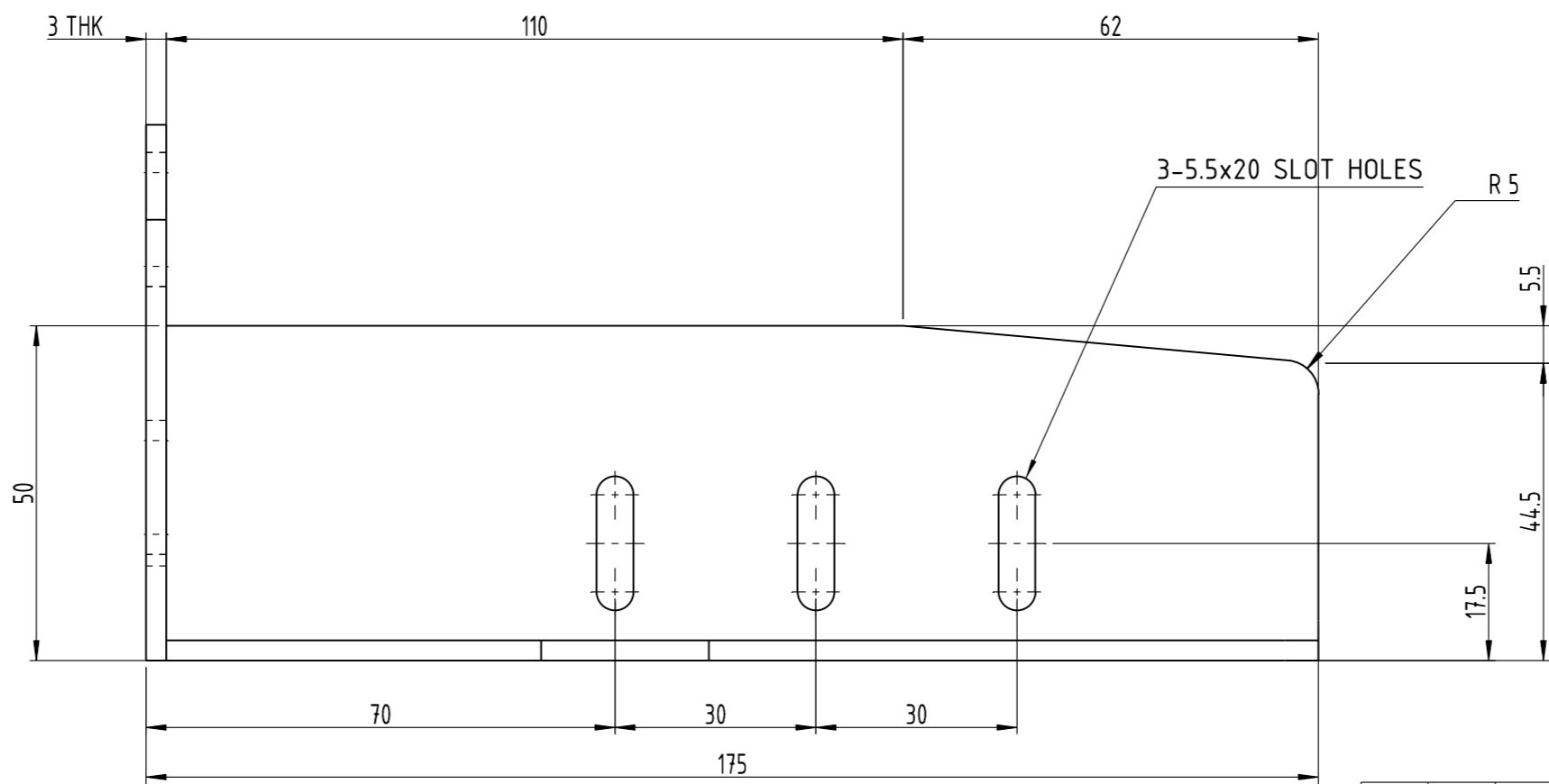
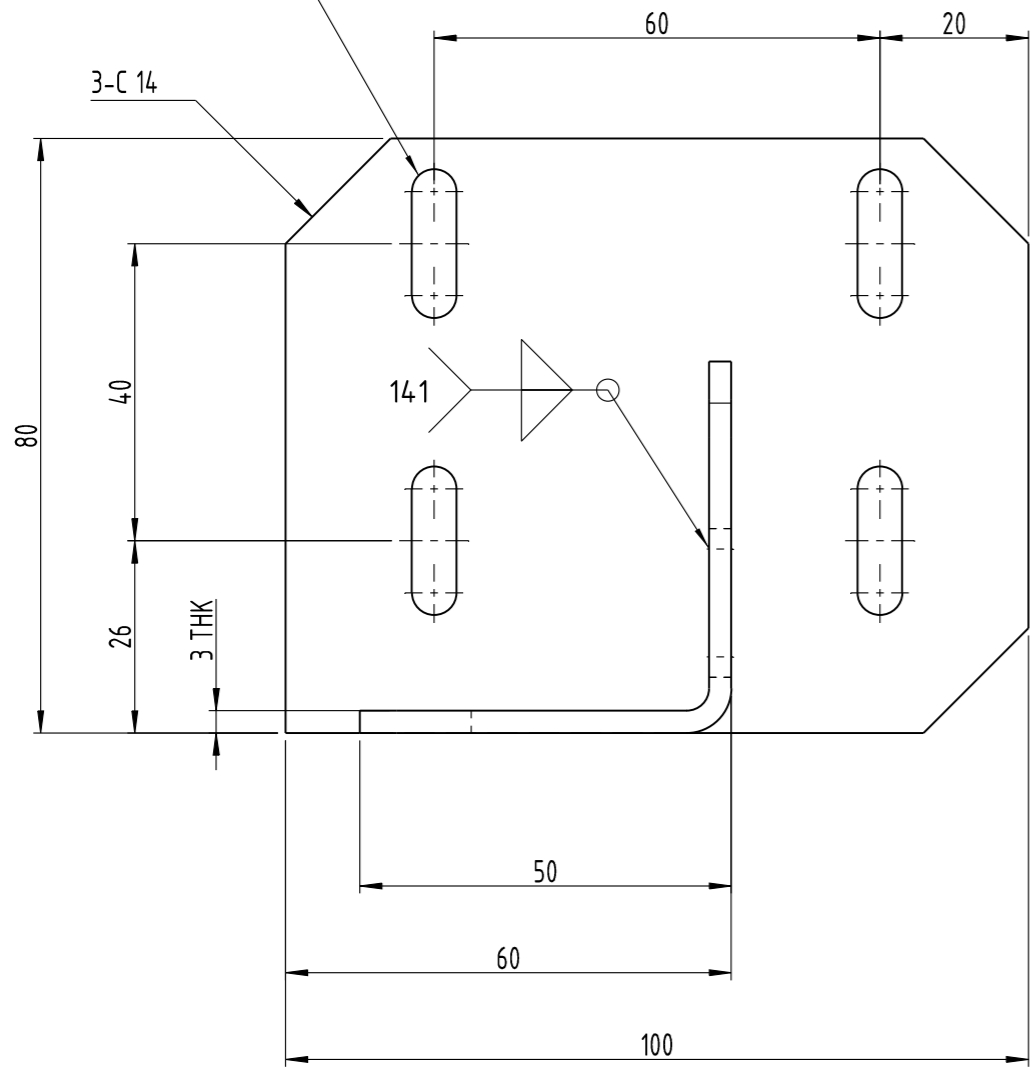
1. ALL DIMENSIONS ARE IN mm.
2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
3. REMOVE SHARP EDGES AND BURRS.
4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

GRADE No.		SYMBOL	SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S		Wt. (Kg)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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N7	1.6							PRODUCT	MUMBAI METRO CARS - L2 & L7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
									N8	3.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

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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												

4-6x14 SLOT HOLES



UNCONTROLLED

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.

		1		525-19208-02		PLATE		3THK		SUS304/AISI304-2B FINISH					
1		1		525-19208-303		BRACKET		3THK		SUS304/AISI304-2B FINISH					
525-19208-301						OPP. HAND DRAWN									
2		1		525-19208-02		PLATE		3THK		SUS304/AISI304-2B FINISH					
1		1		525-19208-302		BRACKET		3THK		SUS304/AISI304-2B FINISH					
525-19208-300						AS DRAWN									
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				20.05.2020	
								SURFACE TREAT.		REV D				20.05.2020	
								TITLE		DRWN				20.05.2020	
								CUBICLE STOPPER		SCALE				SHEET	
								BRACKET BOTTOM		1:1				1 OF 1	
										1:1				Wt.	
										1:1				-	
										1:1				-	
ALT.NO.		ECN NO/CHANGES		DATE		BY		CHKD		APPD		DRG No.		525-19208	
														ALT	



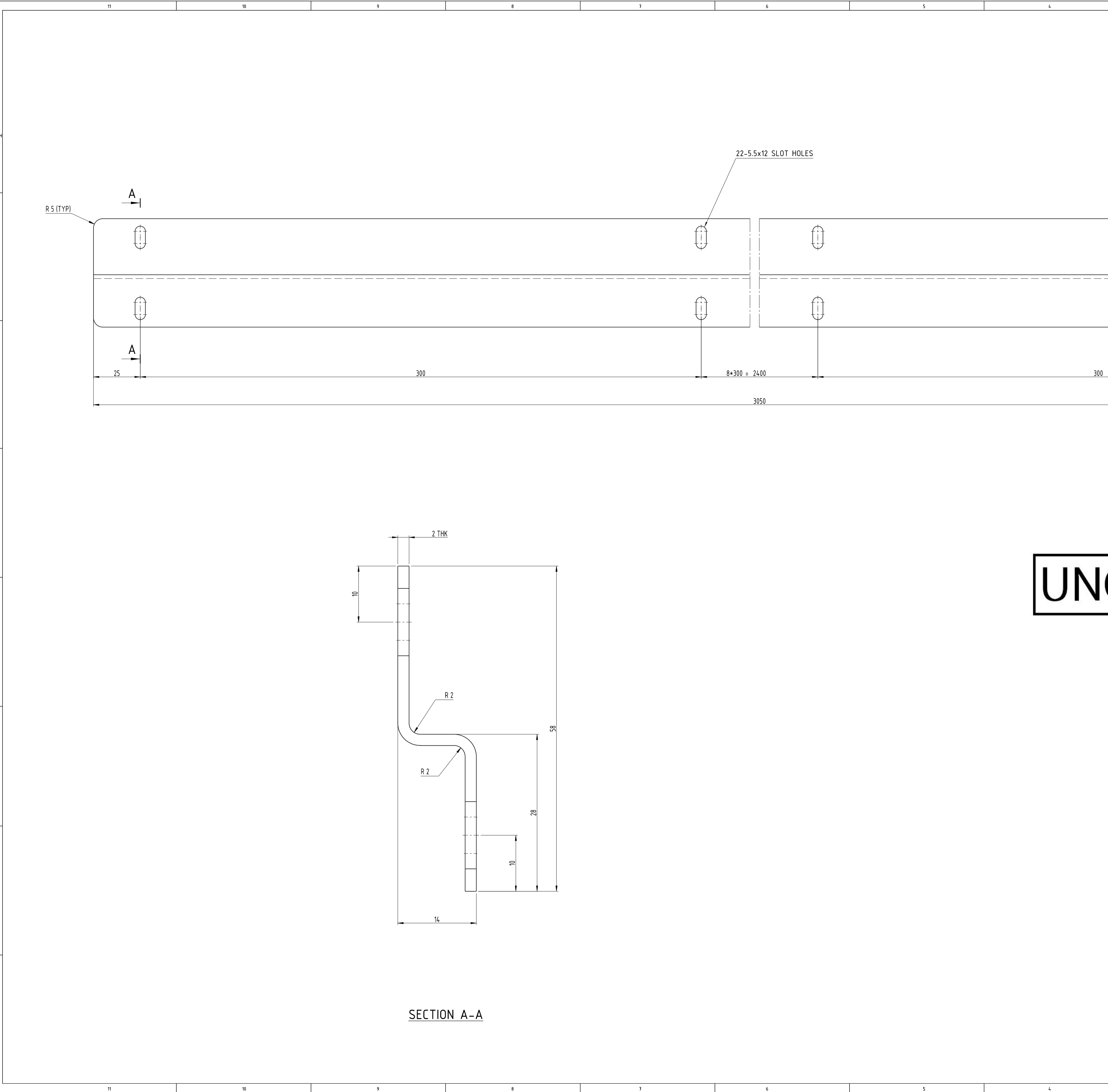
BEML LIMITED

525-19208






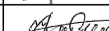

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GRADE No.	IN1	IN2	IN3	IN4	IN5	IN6	IN7	IN8	IN9	IN10	IN11	IN12
VALUE												
SYMBOL												
ROUGHNESS												



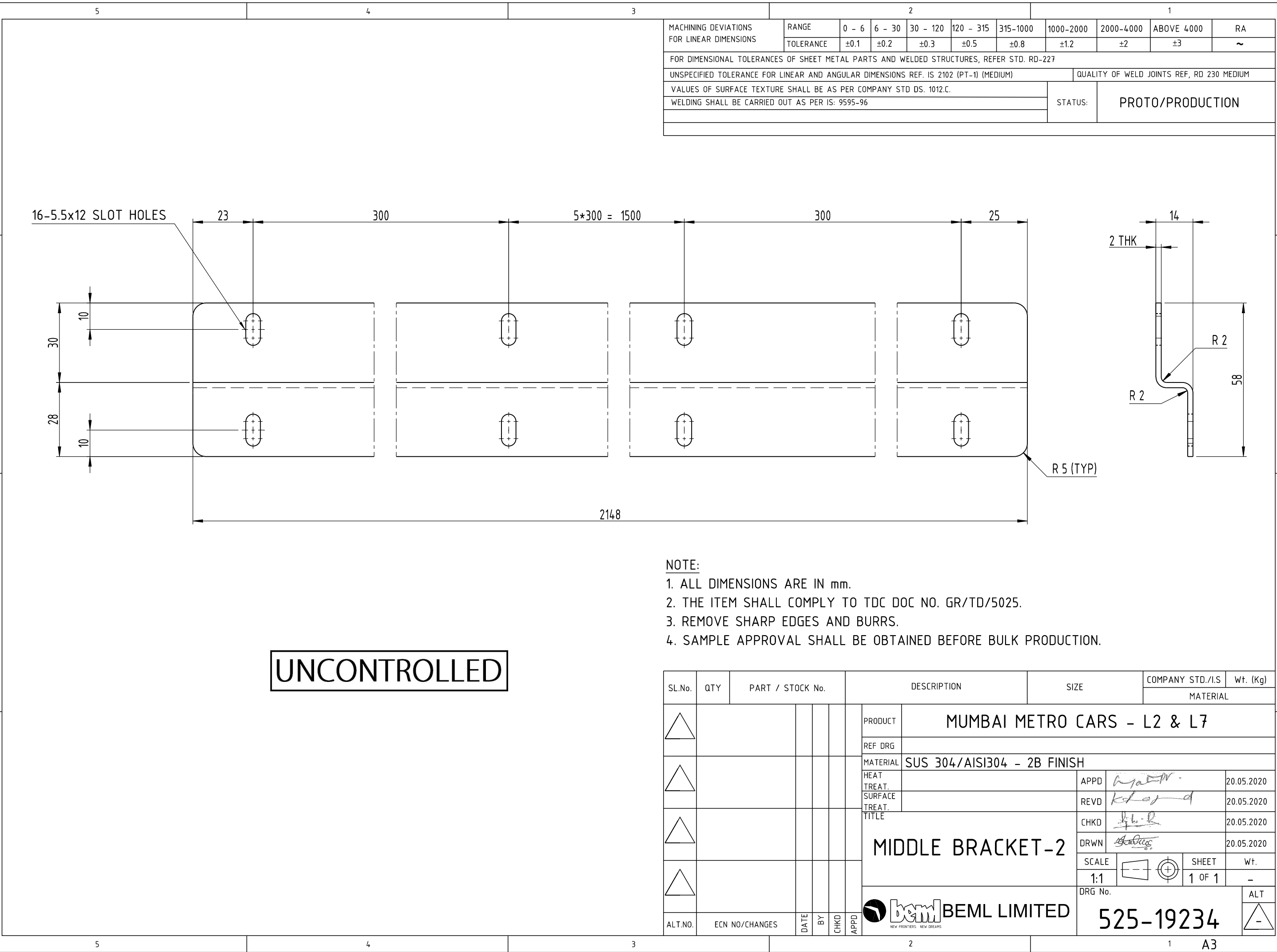
		2					1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	RANGE	0 - 6	6 - 30	30 - 120	120 - 315	315-1000	1000-2000	2000-4000	ABOVE 4000	RA
	TOLERANCE	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	~
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227										
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (PT-1) (MEDIUM)							QUALITY OF WELD JOINTS REF. RD 230 MEDIUM			
VALUES OF SURFACE TEXTURE SHALL BE AS PER COMPANY STD DS. 1012.C										
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. 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			20.05.2020	
					SURFACE TREAT	REVD			20.05.2020	
					TITLE	CHKD			20.05.2020	
						DRWN			20.05.2020	
					MIDDLE BRACKET-1					
						SCALE	1:1		Wt. -	
						SHEET	1 OF 1		-	
ALT.No	ECN No/CHANGES					DRG No.	525-19230		ALT -	
3						1				A1





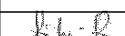
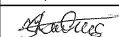




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GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12	SYMBOL
VALUE	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50	
SURFACE ROUGHNESS													

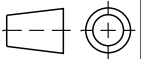




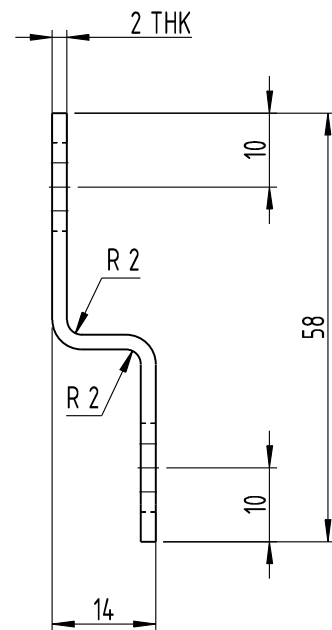
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	RANGE	0 – 6	6 – 30	30 – 120	120 – 315	315-1000	1000-2000	2000-4000	ABOVE 4000	RA
	TOLERANCE	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	~
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227										
UNSPECIFIED TOLERANCE FOR LINEAR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

- 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	SUS 304/AISI304 - 2B FINISH				
						HEAT TREAT.		APPD		20.05.2020	
						SURFACE TREAT.		REVD		20.05.2020	
						TITLE	MIDDLE BRACKET-2		CHKD		20.05.2020
DRWN		20.05.2020									
						SCALE			SHEET	Wt.	
						1:1			1 OF 1	-	
ALT.NO.	ECN NO/CHANGES				DATE	BY	CHKD	APPD	DRG No.		ALT
									525-19234		
 <b>BEM</b> BEML LIMITED <small>NEW FRONTIERS. NEW DREAMS</small>											

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

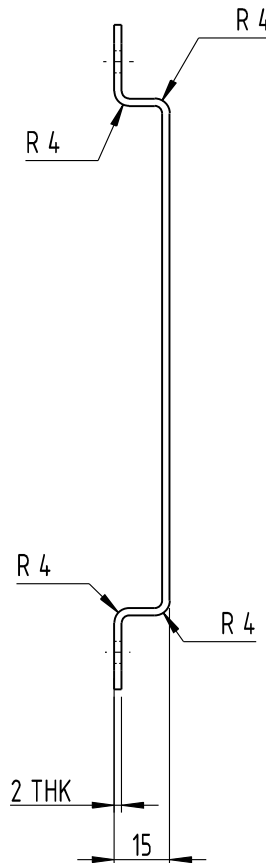
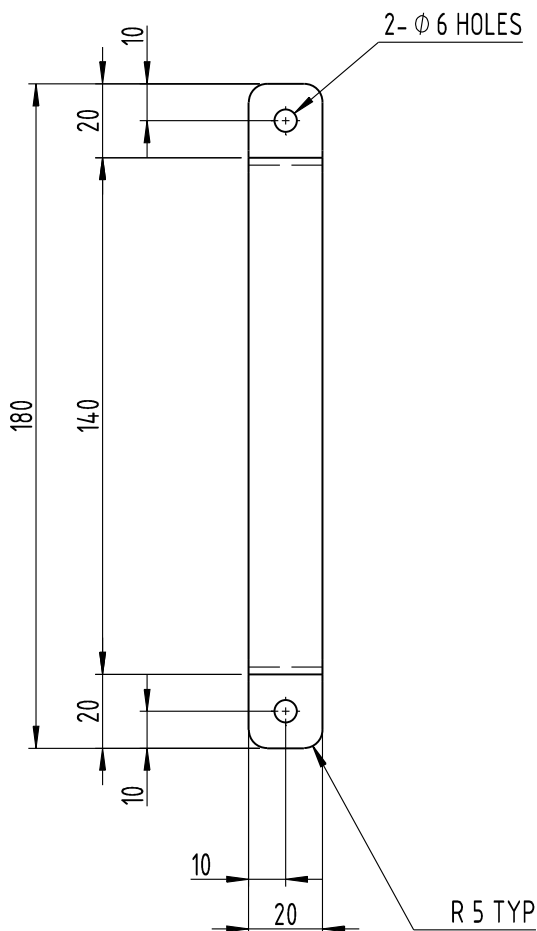
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S		Wt. (Kg)	
					MATERIAL			
△				PRODUCT	MUMBAI METRO CARS - L2 & L7			
				REF DRG				
△				MATERIAL	SUS304 / AISI304- 2B FINISH			
				HEAT TREAT.	APPD	<i>Agarwal</i>	20.05.2020	
				SURFACE TREAT.	REVD	<i>K. Singh</i>	20.05.2020	
△				TITLE	CHKD	<i>Kh. B.</i>	20.05.2020	
				MIDDLE BRACKET-4	DRWN	<i>Agarwal</i>	20.05.2020	
					SCALE		SHEET	Wt.
					1:1	1 OF 1	-	
ALT.NO.	ECN NO/CHANGES	DATE	BY	CHKO	APPO	DRG No.		ALT
						525-19239		
				 <b>BEML LIMITED</b> <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.

SL.No.			QTY	PART / STOCK No.			DESCRIPTION		SIZE	COMPANY STD./I.S		Wt. (Kg)			
										MATERIAL					
N7	1.6	✓						PRODUCT	MUMBAI METRO CARS - L2 & L7						
N8	3.2	✓						REF DRG							
N9	6.3	✓						MATERIAL	SUS304/AISI304-2B FINISH						
N10	12.5	✓						HEAT TREAT.	APPD			09.11.2019			
N11	25	✓						SURFACE TREAT.	REVD			09.11.2019			
N12	50	✓						TITLE	CHKD			09.11.2019			
GRADE No.	VALUE	SYMBOL						WIRE SUPPORT					DRWN		09.11.2019
								SCALE				SHEET		Wt.	
								1:1				1 OF 1		-	
SURFACE ROUGHNESS								DRG No.		ALT					
ALT.No.		ECN NO/CHANGES		DATE	BY	CHKD	APPD	<b>BEM</b> LIMITED		525-19244					

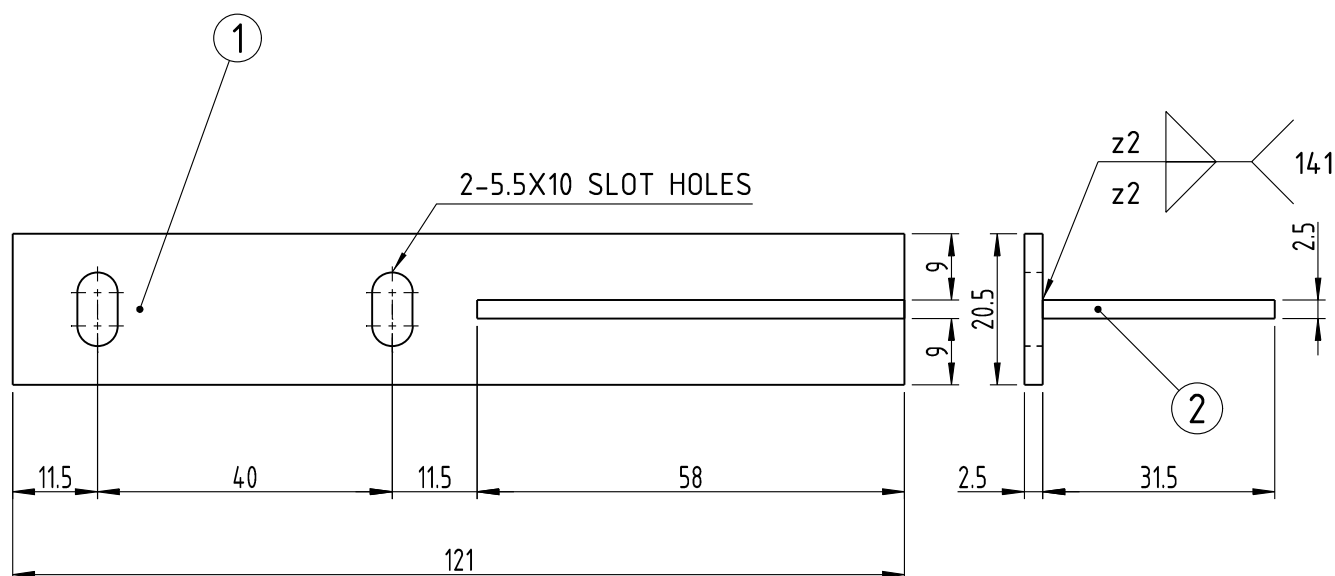


BEML LIMITED

525-19244

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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										



NOTE:

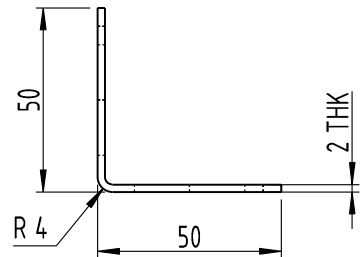
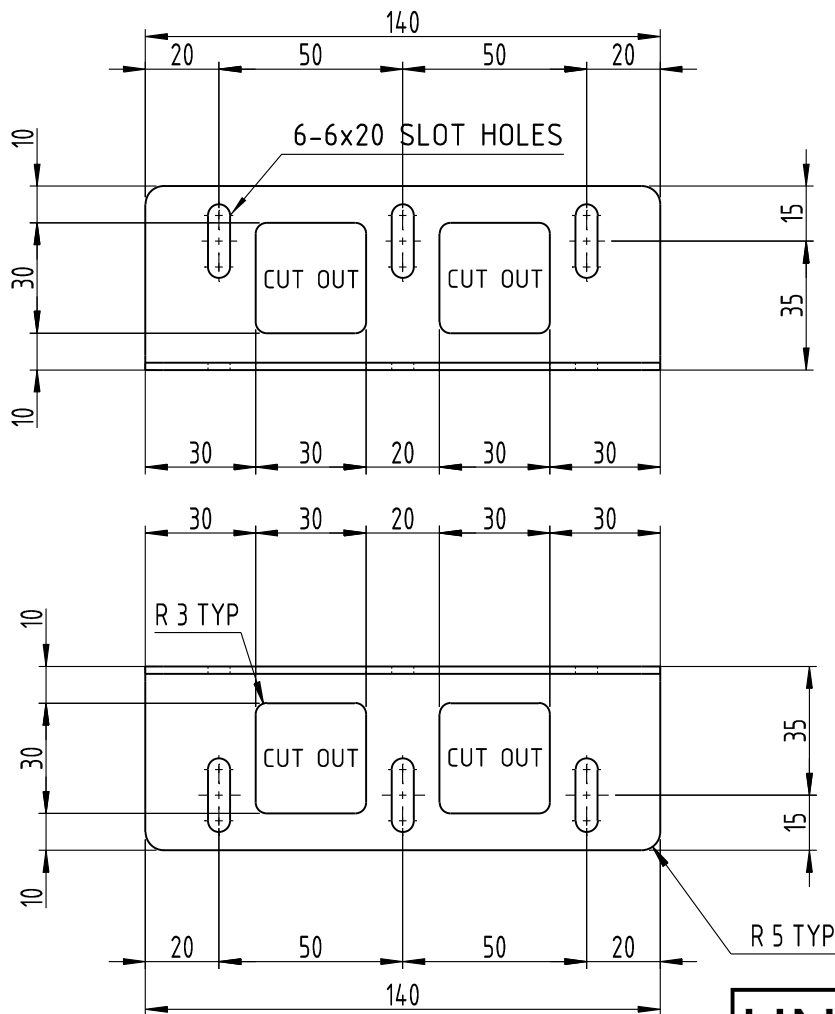
1. ALL DIMENSIONS ARE IN mm.
  2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
  3. WELDING SYMBOLS ACCORDING TO ISO:2553.
  4. WELD AREAS SHALL BE PICKLED & PASSIVATED.
  5. REMOVE SHARP EDGES AND BURRS.
  6. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

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[illegible]

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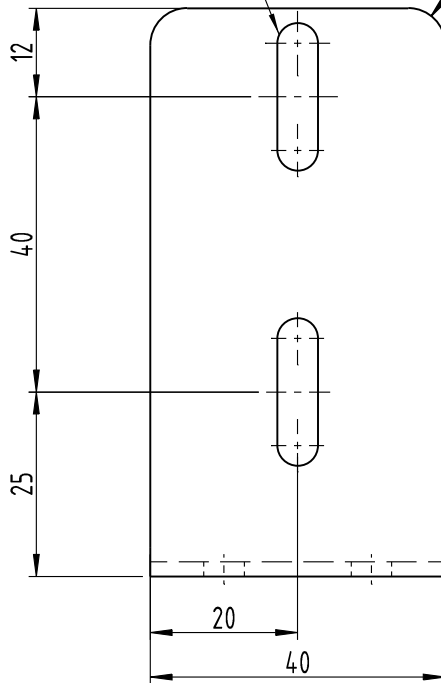
- NOTE:
1. ALL DIMENSIONS ARE IN mm.
  2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
  3. REMOVE SHARP EDGES AND BURRS.
  4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

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	20.05.2020	
N5	0.4	✓				SURFACE TREAT.	REVD	20.05.2020	
N6	0.8	✓				TITLE	CHKD	20.05.2020	
N7	1.6	✓				BRACKET (G)	DRWN	20.05.2020	
N8	3.2	✓					SCALE	1:1	
N9	6.3	✓					SHEET	1 OF 1	
N10	12.5	✓					Wt.	-	
N11	25	✓					DRG No.	525-19249	ALT
N12	50	✓							
			ALT.NO.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	

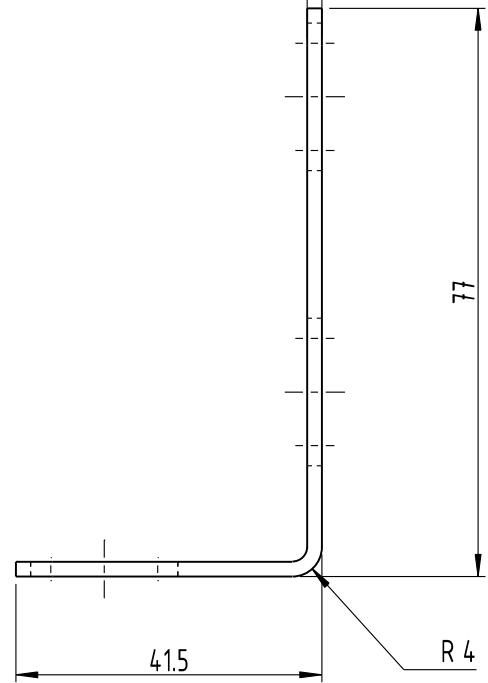
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	RANGE	0 – 6	6 – 30	30 – 120	120 – 315	315–1000	1000–2000	2000–4000	ABOVE 4000	RA
	TOLERANCE	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	~
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227										
UNSPECIFIED TOLERANCE FOR LINEAR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

4-5.5x20 SLOT HOLES

R 5 TYP



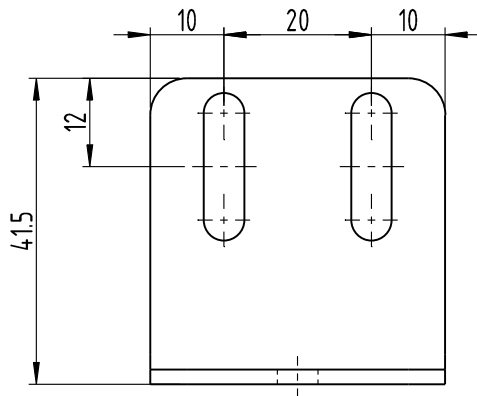
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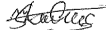





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## NOTE:

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	SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S		Wt. (Kg)			
								MATERIAL					
N7	1.6	▽	△			PRODUCT	MUMBAI METRO CARS - L2 & L7						
N8	3.2	▽				REF DRG							
N9	6.3	▽				MATERIAL	SUS304 / AISI304- 2B FINISH						
N10	12.5	▽	△			HEAT TREAT.	APPD		20.05.2020				
N11	25	▽				SURFACE TREAT.					REVD		20.05.2020
N12	50	▽				TITLE							
SURFACE ROUGHNESS	ALT.NO.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	BRACKET (H)	DRWN		20.05.2020			
								SCALE		SHEET	Wt.		
								1:1		1 OF 1	-		
BEML LIMITED							DRG No.	525-19250		ALT			
NEW FRONTIERS. NEW DREAMS.													

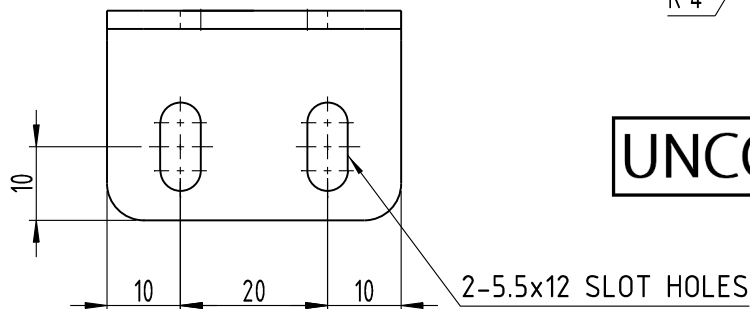
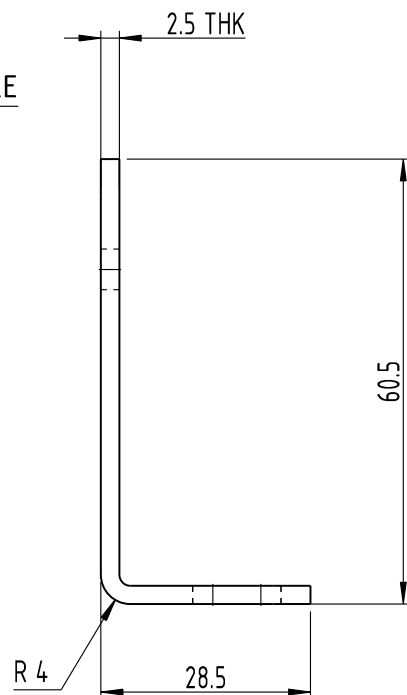
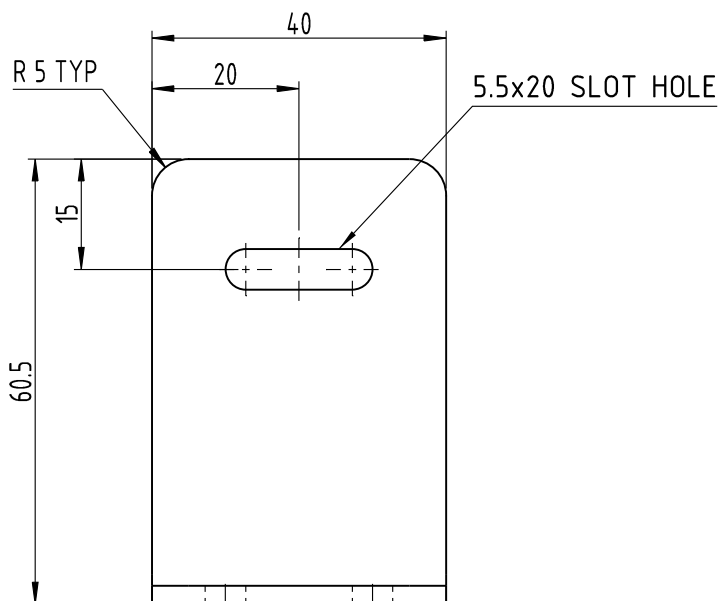


BEML LIMITED

NEW FRONTIERS. NEW DREAMS

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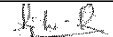





MACHINING DEVIATIONS FOR LINEAR DIMENSIONS	RANGE	0 – 6	6 – 30	30 – 120	120 – 315	315-1000	1000-2000	2000-4000	ABOVE 4000	RA
	TOLERANCE	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	~
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227										
UNSPECIFIED TOLERANCE FOR LINEAR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



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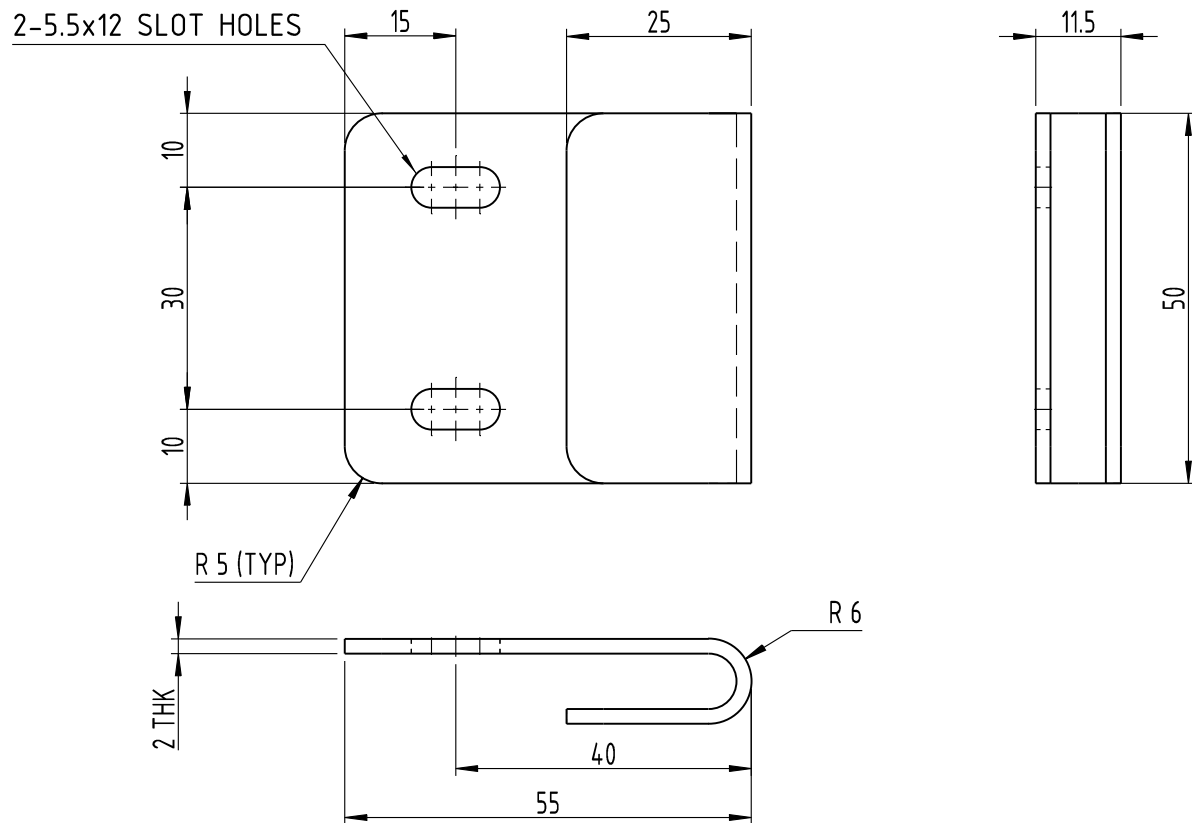
NOTE:

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.

N7 1.6	N8 3.2	N9 6.3	N10 12.5	N11 25	N12 50	GRADE No. VALUE SYMBOL	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		
▽	▽	▽	▽	▽	▽	△						SURFACE TREAT.	REVD		09.11.2019
												TITLE	CHKD		09.11.2019
▽	▽	▽	▽	▽	▽	△						BRACKET (I)	DRWN		09.11.2019
													SCALE		
▽	▽	▽	▽	▽	▽	△							1:1	1 OF 1	-
													DRG No.	525-19251	
SURFACE ROUGHNESS							ALT.NO.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	 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.						STATUS:	PROTO/PRODUCTION			
WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96										



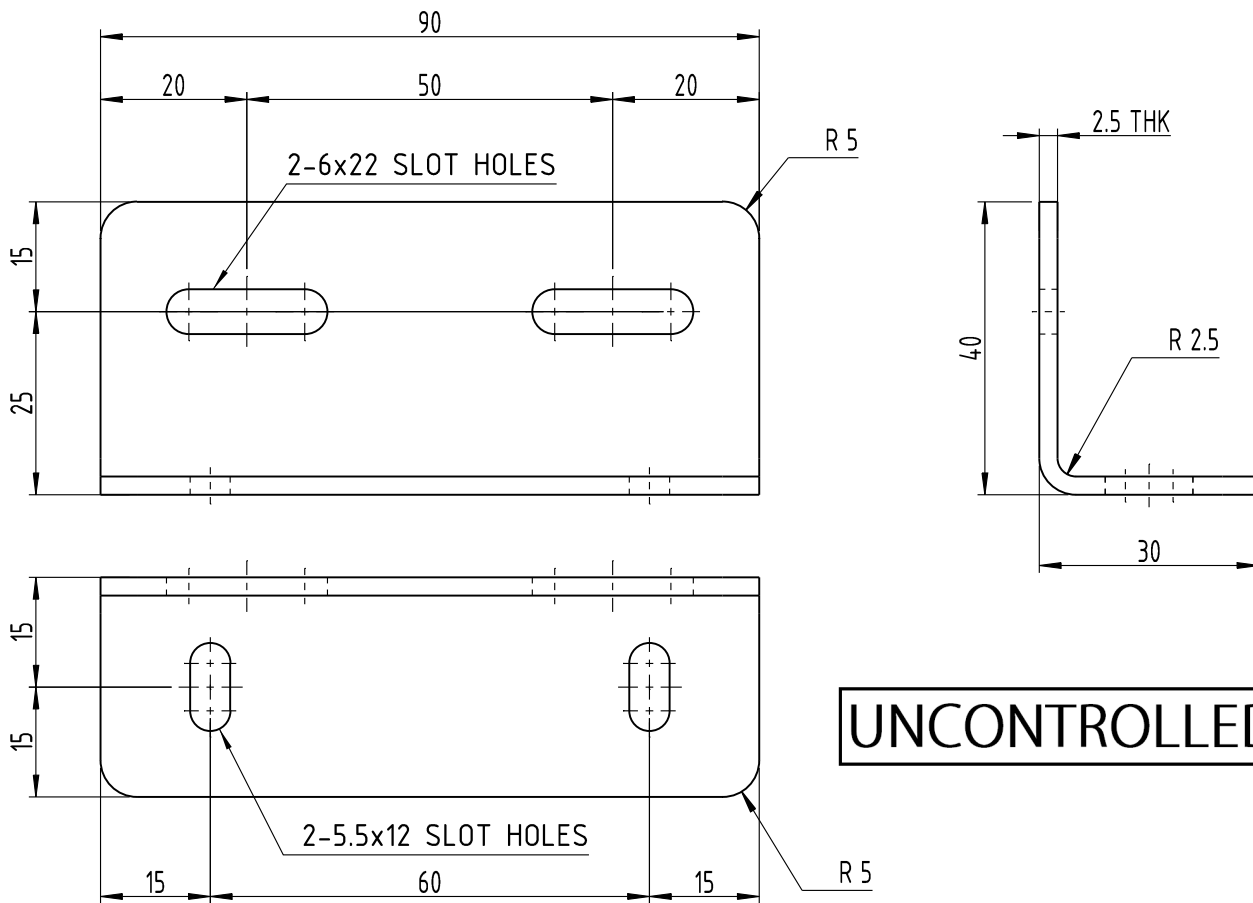
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NOTE:

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.

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		09.11.2019		
						SURFACE TREAT.					REVD		09.11.2019		
						TITLE	BRACKET				CHKD		09.11.2019		
											DRWN		09.11.2019		
											SCALE			SHEET	Wt.
											1:1			1 OF 1	-
							DRG No.					ALT			
							525-19259								
ALT.NO.	ECN NO/CHANGES				DATE	BY	CHKD	APPD	 <b>BEML LIMITED</b> <small>NEW FRONTIERS. NEW DREAMS</small>						

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:

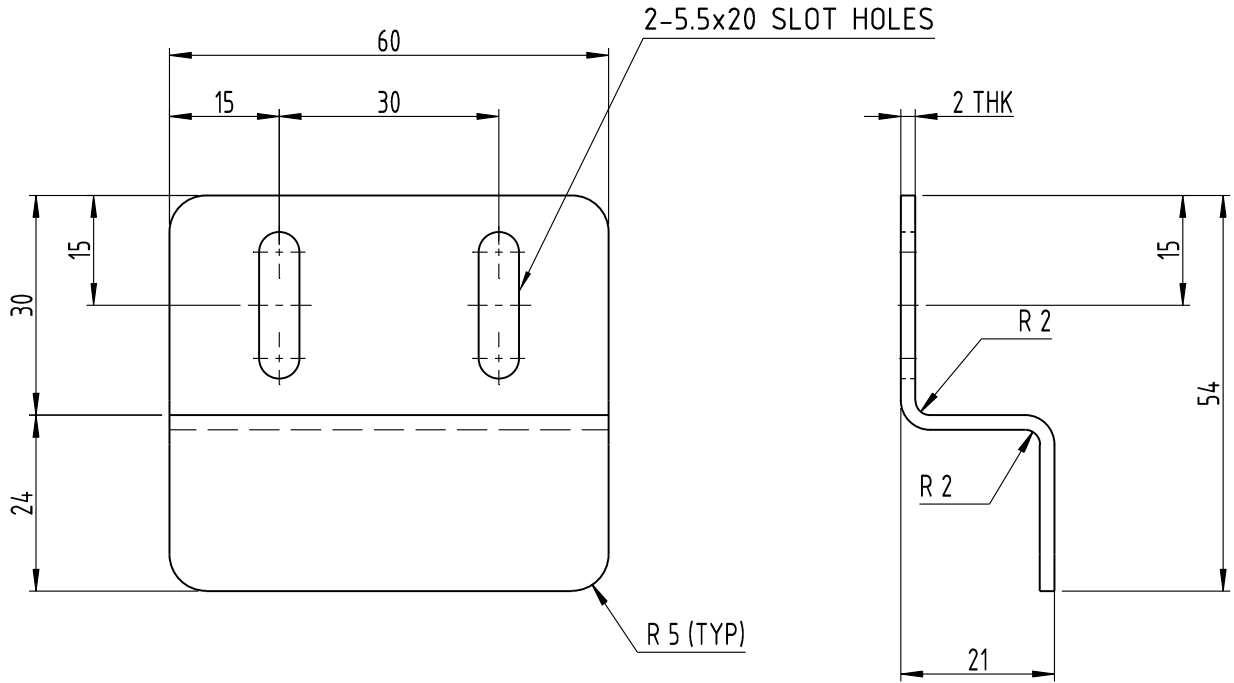
1. ALL DIMENSIONS ARE IN mm.
2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
3. REMOVE SHARP EDGES AND BURRS.
4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

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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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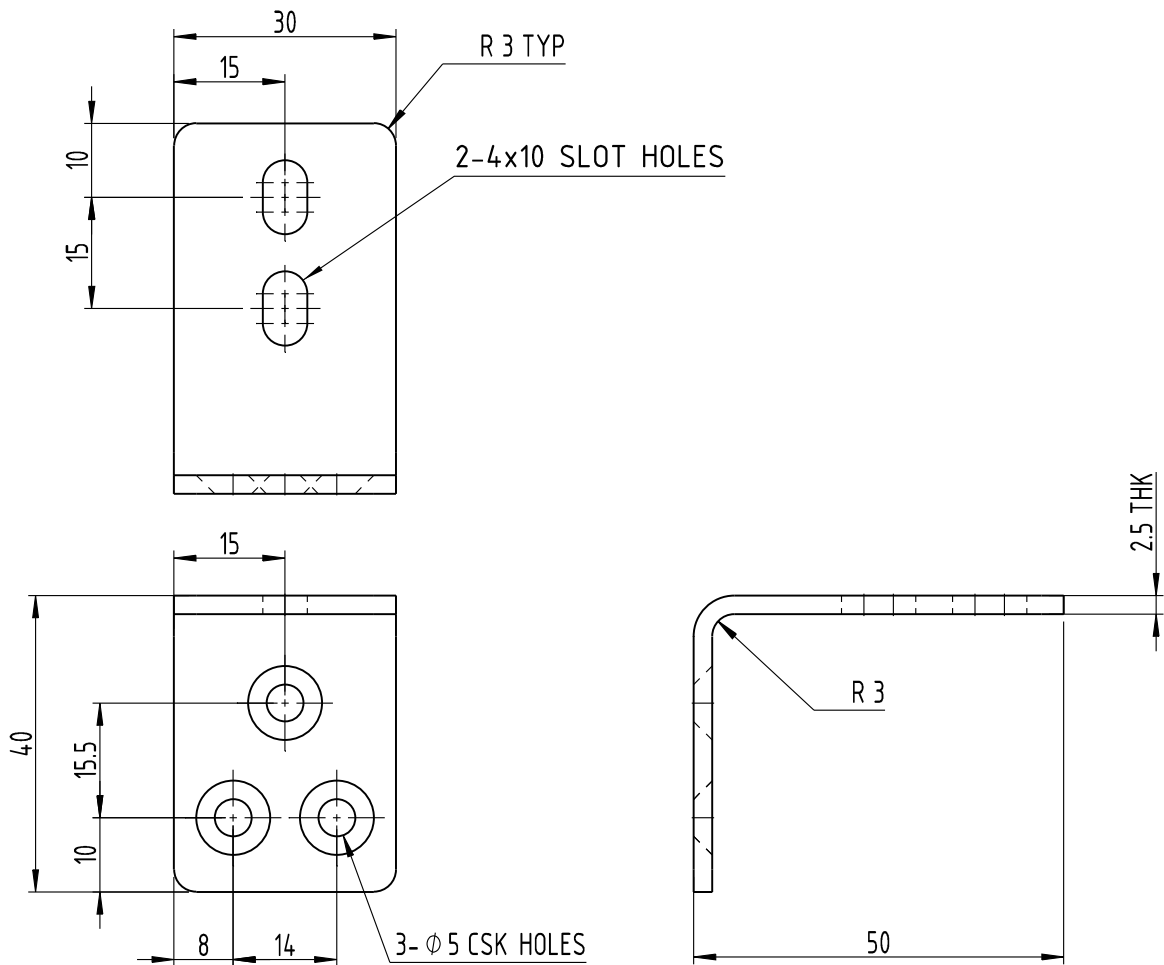
NOTE:

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.

GRADE No.	VALUE	SYMBOL	SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S		Wt. (Kg)					
								MATERIAL							
N7	1.6	✓	△			PRODUCT	MUMBAI METRO CARS - L2 & L7								
N8	3.2	✓					△			REF DRG					
N9	6.3	✓									△			MATERIAL	SUS304/AISI304-2B FINISH
N10	12.5	✓	△			HEAT TREAT. SURFACE TREAT.									APPD
N11	25	✓					△			TITLE					
N12	50	✓									△			CHKD	
SURFACE ROUGHNESS	ALT.NO.	ECN NO/CHANGES	DATE	BY	CHKD	APPD									DRWN
							SCALE			SHEET					
 <b>BEML LIMITED</b> <small>NEW FRONTIERS. NEW DREAMS</small>							1:1		1 OF 1		-				
							DRG No.		525-19293		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										



NOTE:

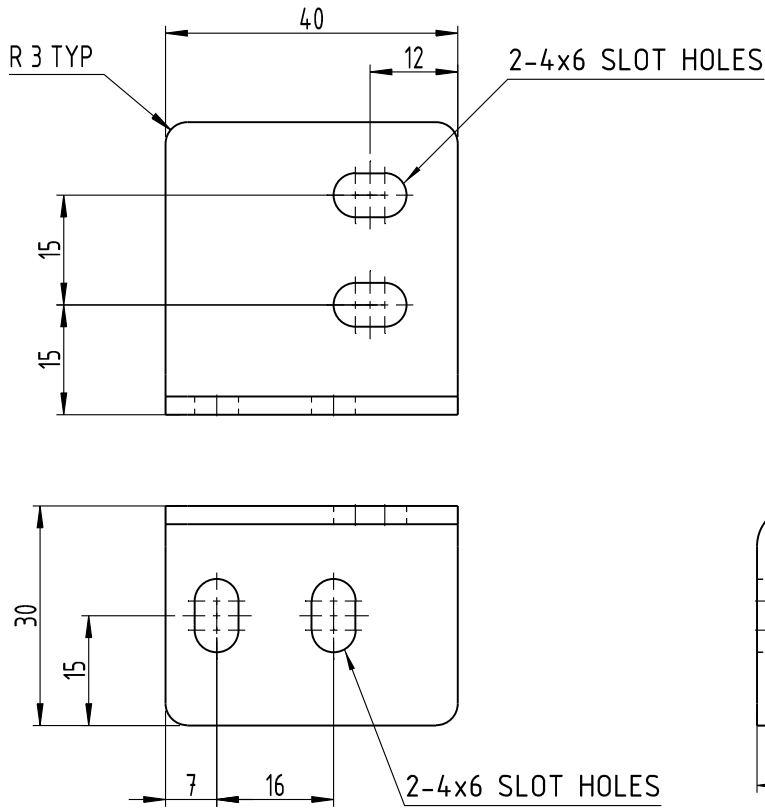
1. ALL DIMENSIONS ARE IN mm.
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3. REMOVE SHARP EDGES AND BURRS.
4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

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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	09.11.2019	
N5	0.4	✓				SURFACE TREAT.	REVD	09.11.2019	
N6	0.8	✓				TITLE	CHKD	09.11.2019	
N7	1.6	✓				BRACKET LOWER	DRWN	09.11.2019	
N8	3.2	✓					SCALE	1:1	
N9	6.3	✓					SHEET	1 OF 1	
N10	12.5	✓					DRG No.	525-19299	
N11	25	✓				BEML LIMITED			
N12	50	✓				525-19299			
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										



525-19300-301	OPP. HAND DRAWN
525-19300-300	AS DRAWN

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.

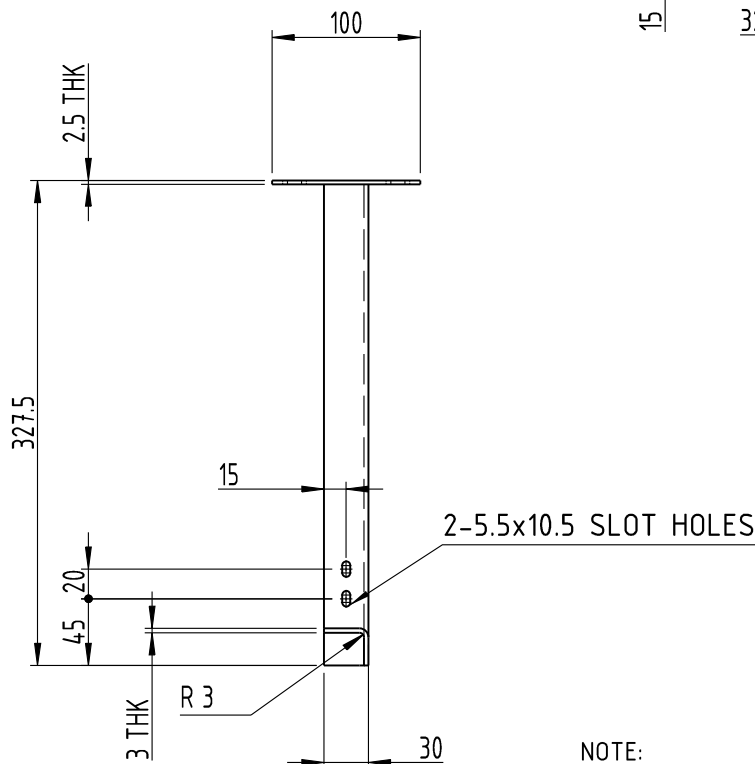
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GRADE No.	VALUE	SYMBOL	SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S		Wt. (Kg)	
								MATERIAL			
N7	1.6	▽				PRODUCT	MUMBAI METRO CARS - L2 & L7				
N8	3.2	▽				REF DRG					
N9	6.3	▽				MATERIAL	SUS304/AISI304-2B FINISH				
N10	12.5	▽				HEAT TREAT.	APPD	[Signature]		09.11.2019	
N11	25	▽				SURFACE TREAT.	REVD	[Signature]		09.11.2019	
N12	50	▽				TITLE	CHKD	[Signature]		09.11.2019	
						BRACKET UPPER	DRWN	[Signature]		09.11.2019	
							SCALE	[Diagram]	SHEET	Wt.	
							1:1	[Diagram]	1 OF 1	-	
SURFACE ROUGHNESS							DRG No.		ALT		
ALT.NO.			ECN NO/CHANGES			DATE		BY		CHKD	
APPD			NEW FRONTIERS. NEW DREAMS			[Logo]		BEML LIMITED		525-19300	
[Diagram]			[Diagram]			[Diagram]		[Diagram]		[Diagram]	

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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.

525-19349-301	OPP. HAND DRAWN
525-19349-300	AS DRAWN

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	20.05.2020
N5	0.4	✓				SURFACE TREAT.		REVD	20.05.2020
N6	0.8	✓				TITLE		CHKD	20.05.2020
N7	1.6	✓				UPPER BRACKET		DRWN	20.05.2020
N8	3.2	✓						SCALE	1:1
N9	6.3	✓						SHEET	1 OF 1
N10	12.5	✓						Wt.	-
N11	25	✓						DRG No.	525-19349
N12	50	✓						ALT	-
SURFACE ROUGHNESS			ALT.NO.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	

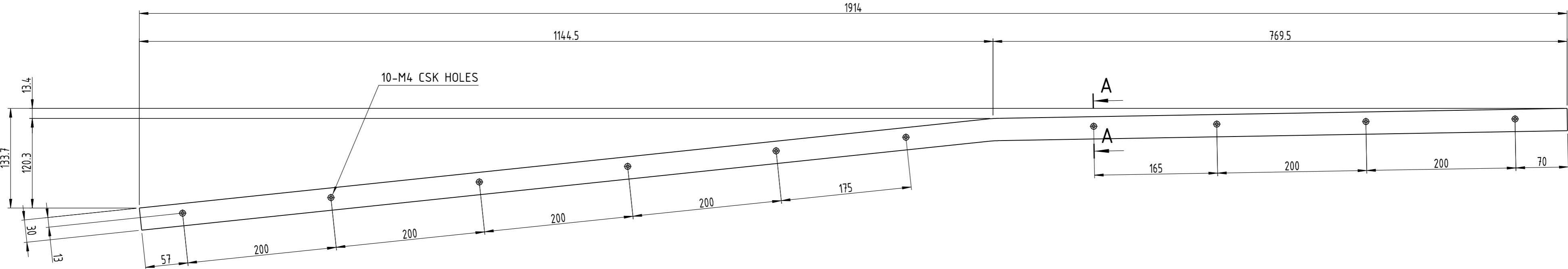


BEML LIMITED

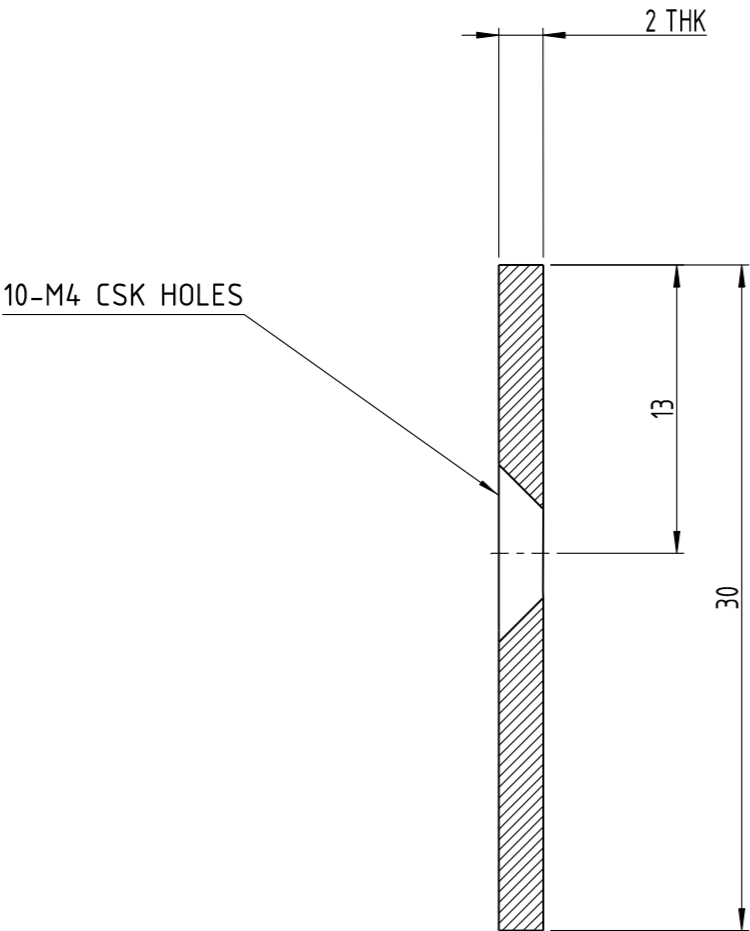
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GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12
VALUE	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
SYMBOL												
SURFACE ROUGHNESS												

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										



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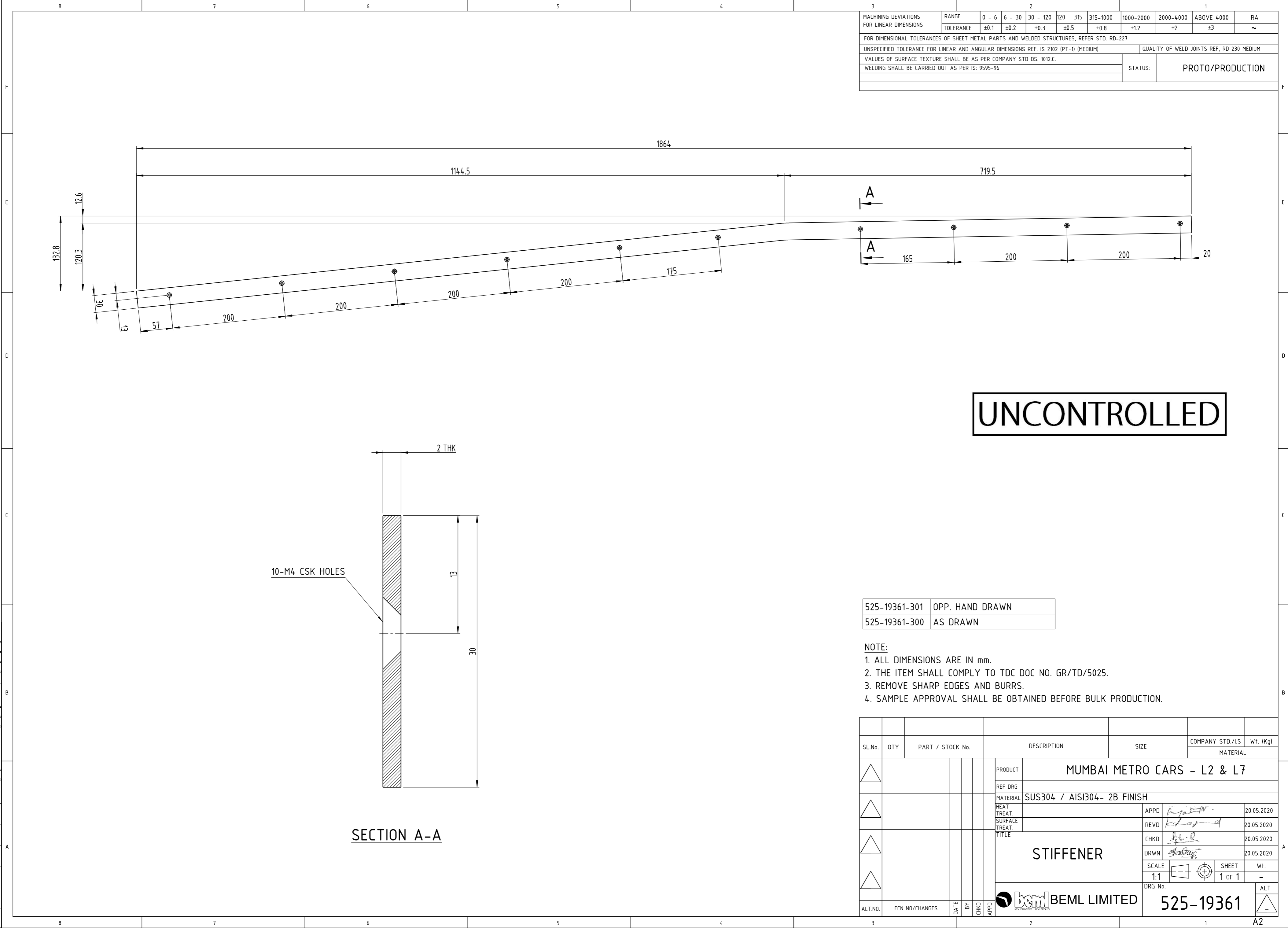
525-19360-301	OPP HAND DRAWN
525-19360-300	AS DRAWN

- 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	[Signature]		20.05.2020	
△						SURFACE TREAT.		REVD	[Signature]		20.05.2020	
△						TITLE	STIFFENER		CHKD	[Signature]		20.05.2020
△						DRWN			[Signature]		20.05.2020	
△						SCALE			[Symbol]		SHEET	Wt.
△						1:1			1 OF 1		-	
ALT.NO.		ECN NO/CHANGES			DATE	BY	CHKD	APPD	DRG No.		ALT	
									525-19360		△	
3									1		A2	

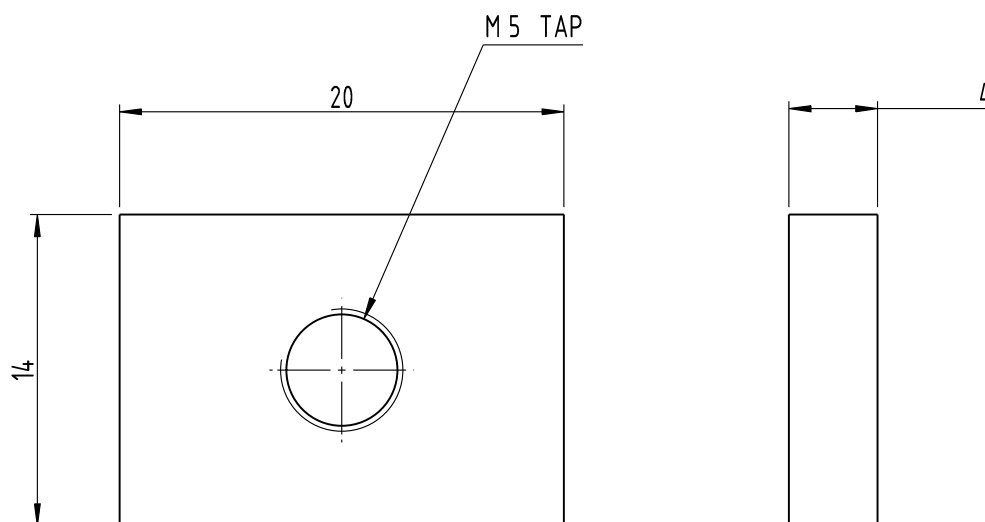
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GRADE No.	N12	N11	N10	N9	N8	N7	N6	N5	N4	N3	N2	N1
VALUE	30	25	25	13	12	15	0.8	0.5	0.4	0.1	0.05	0.025
SYMBOL												
SURFACE ROUGHNESS												



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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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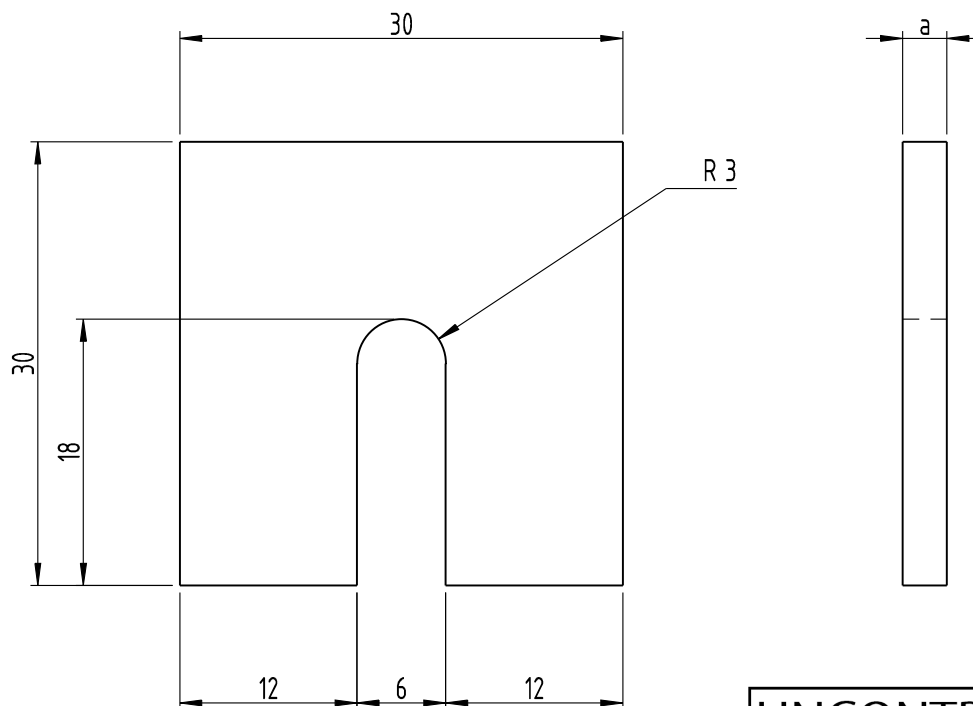
NOTE:

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.

[illegible]

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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:

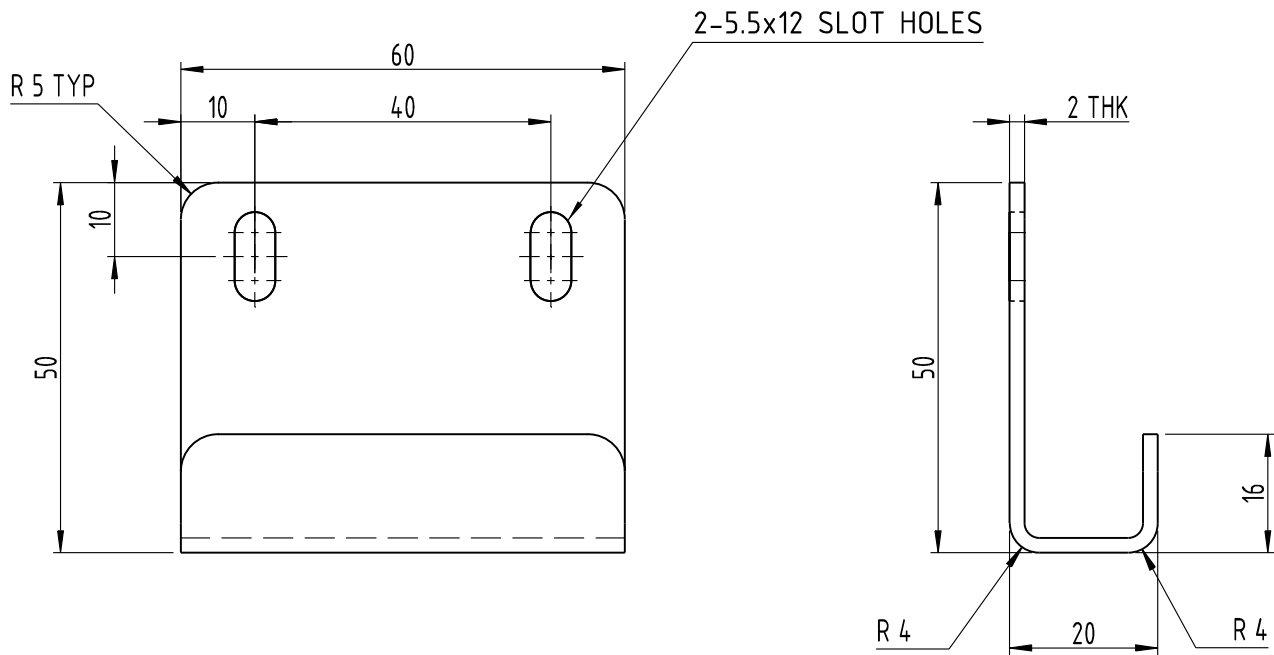
1. ALL DIMENSIONS ARE IN mm.
2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
3. REMOVE SHARP EDGES AND BURRS.
4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

PART NUMBER	a
525-19368-01	2
525-19368-02	3

[illegible]

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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.

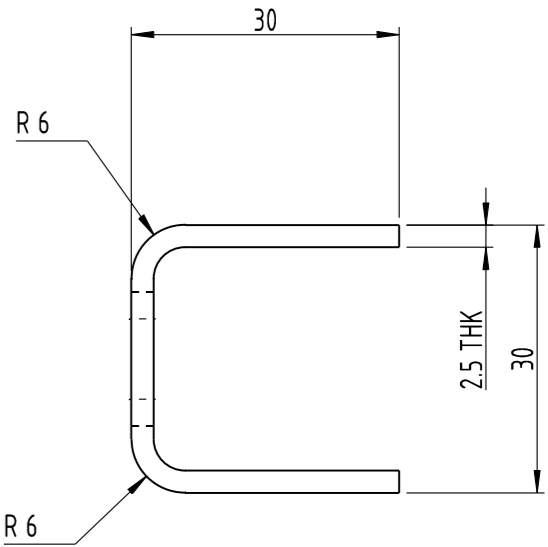
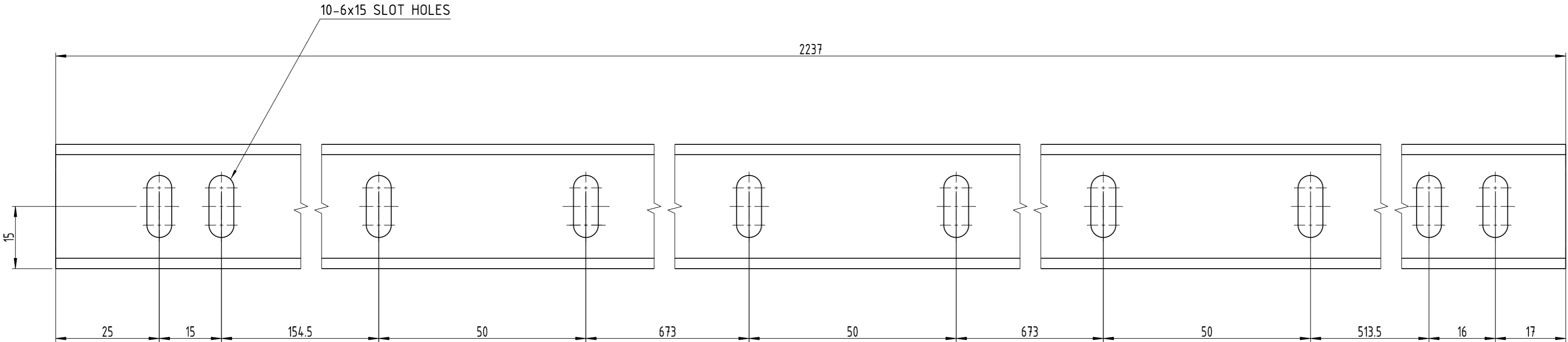
GRADE No.	VALUE	SYMBOL	SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)		
								MATERIAL			
N7	1.6	▽	△			PRODUCT	MUMBAI METRO CARS - L2 & L7				
N8	3.2	▽				REF DRG					
N9	6.3	▽				MATERIAL	SUS304 / AISI 304, 2B FINISH				
N10	12.5	▽	△			HEAT TREAT.	APPD		20.05.2020		
N11	25	▽				SURFACE TREAT.	REVD		20.05.2020		
N12	50	▽				TITLE	CHKD		20.05.2020		
GRADE No.	VALUE	SYMBOL	△				BRACKET	DRWN		20.05.2020	
								SCALE		SHEET	Wt.
								1:1		1 OF 1	-
SURFACE ROUGHNESS							DRG No.	ALT			
ALT.No. ECN NO/CHANGES DATE BY CHKD APPD							525-19412				
 BEML LIMITED NEW FRONTIERS. NEW DREAMS											

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

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



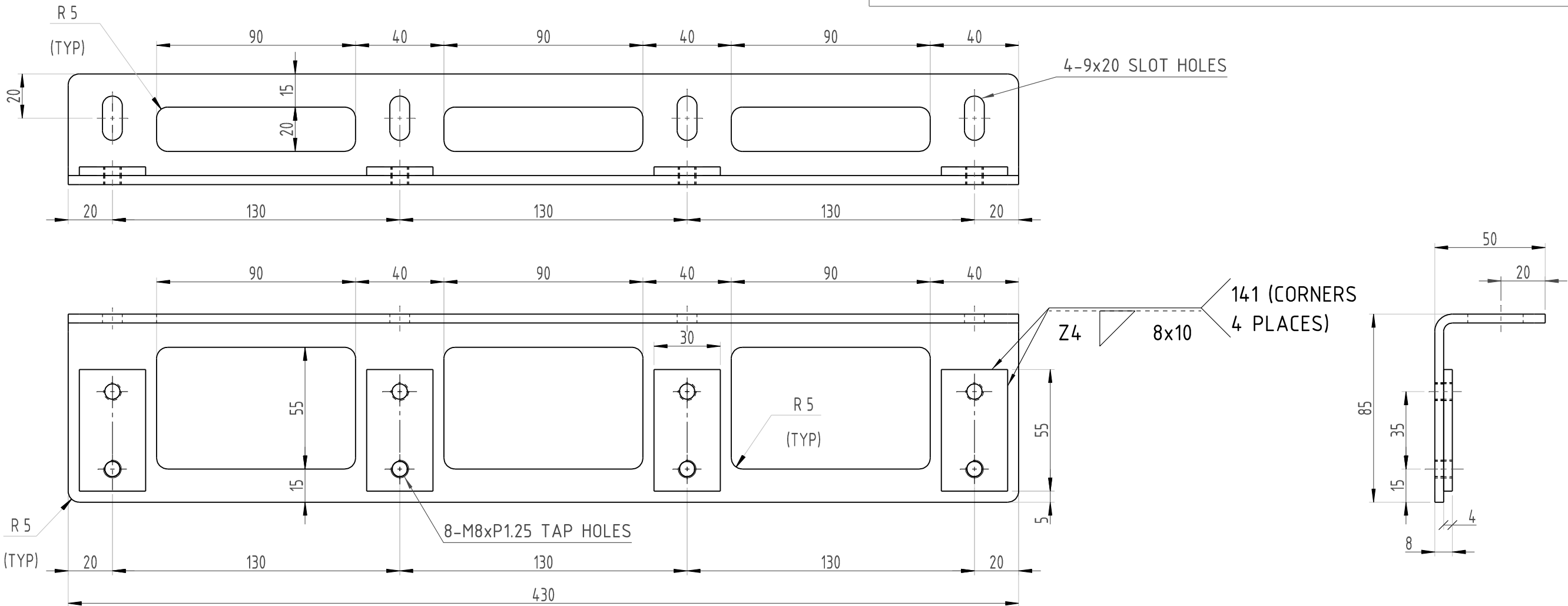
- NOTE:
1. ALL DIMENSIONS ARE IN mm.
  2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
  3. REMOVE SHARP EDGES AND BURRS.
  4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

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.			
				SURFACE TREAT.			
				TITLE	CUBICLE 'U' - BRACKET		
				DRWN			
				SCALE	1:1	SHEET 1 OF 1	Wt. -
				DRG No.			
				ALT			
ALT.NO.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	BEML LIMITED	
						525-19430	
						A2	

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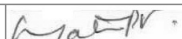
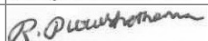

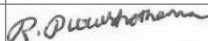

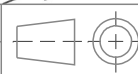
GRADE No.	VALUE	SYMBOL
N1	0.025	✓
N2	0.05	✓
N3	0.1	✓
N4	0.2	✓
N5	0.4	✓
N6	0.8	✓
N7	1.6	✓
N8	3.2	✓
N9	6.3	✓
N10	12.5	✓
N11	25	✓
N12	50	✓
SURFACE ROUGHNESS		

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. WELDING SYMBOLS AS PER ISO 2553.
  3. ALL WELD AREA SHALL BE PICKLED AND PASSIVATED.
  4. REMOVE ALL SHARP EDGES AND BURRS.

2	4	525-29058-2	SEAT, SCREW			30x55x4THK	SUS 304/AISI 304, No. 2B FINISH		
1	1	525-29058-1	BRACKET			430x128x4THK	SUS 304/AISI 304, No. 2B FINISH		
SL.No.	QTY	PART / STOCK No.			DESCRIPTION	SIZE	COMPANY STD./I.S		Wt. (Kg)
							MATERIAL		
					PRODUCT	MUMBAI METRO CARS L2 & L7			
					REF DRG	-			
					MATERIAL	-			
					HEAT TREAT.	-	APPD		01/06/2020
					SURFACE TREAT.	-	REVD		01/06/2020
					TITLE	-	CHKD		01/06/2020
					BRACKET, BULKHEAD				01/06/2020
					SCALE				1:2
									SHEET 1 OF 1
					DRG No.				525-29058
					Wt.				1.47kg
ALT					ALT				0
ALT.No.	ECN NO/CHANGES			DATE	BY	CHKD	APPD	BEML LIMITED NEW FRONTIERS. NEW DREAMS	

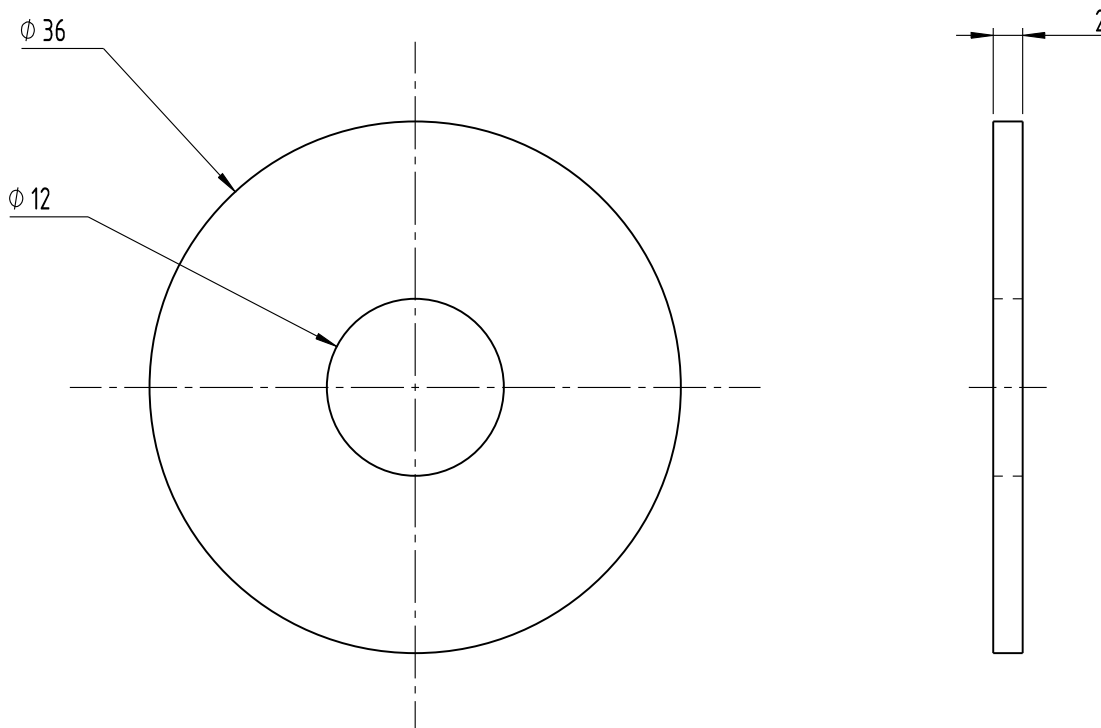


525-29058

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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										



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.

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