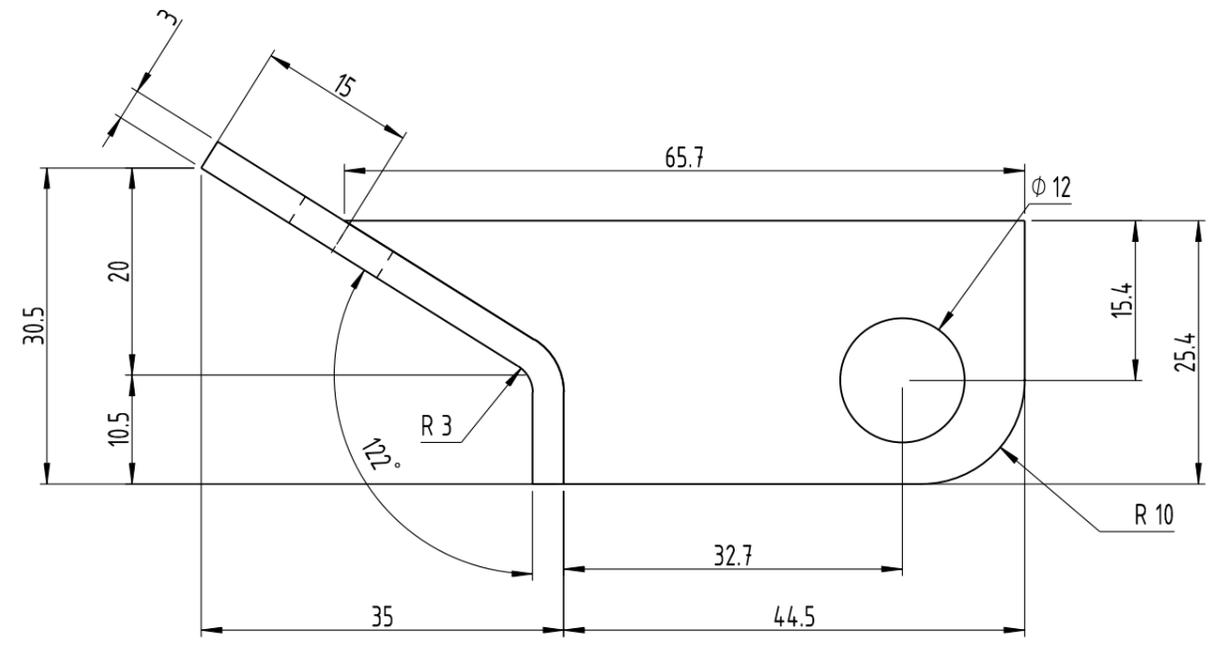
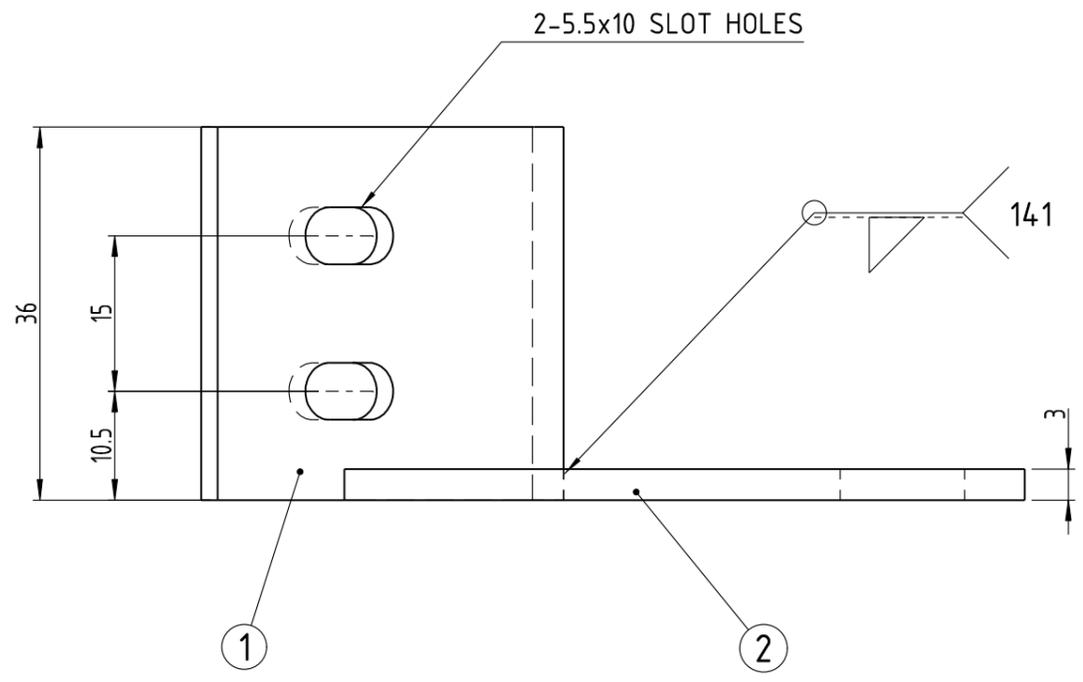


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GRADE No.	N12
VALUE	50
SYMBOL	
SURFACE ROUGHNESS	
GRADE No.	N11
VALUE	25
SYMBOL	
SURFACE ROUGHNESS	
GRADE No.	N10
VALUE	12.5
SYMBOL	
SURFACE ROUGHNESS	
GRADE No.	N9
VALUE	6.3
SYMBOL	
SURFACE ROUGHNESS	
GRADE No.	N8
VALUE	3.2
SYMBOL	
SURFACE ROUGHNESS	
GRADE No.	N7
VALUE	1.6
SYMBOL	
SURFACE ROUGHNESS	
GRADE No.	N6
VALUE	0.8
SYMBOL	
SURFACE ROUGHNESS	
GRADE No.	N5
VALUE	0.4
SYMBOL	
SURFACE ROUGHNESS	
GRADE No.	N4
VALUE	0.2
SYMBOL	
SURFACE ROUGHNESS	
GRADE No.	N3
VALUE	0.1
SYMBOL	
SURFACE ROUGHNESS	
GRADE No.	N2
VALUE	0.05
SYMBOL	
SURFACE ROUGHNESS	
GRADE No.	N1
VALUE	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.								WELDING SHALL BE CARRIED OUT AS PER IS: 9595-96		
STATUS:								PROTO/PRODUCTION		



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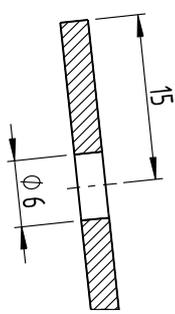
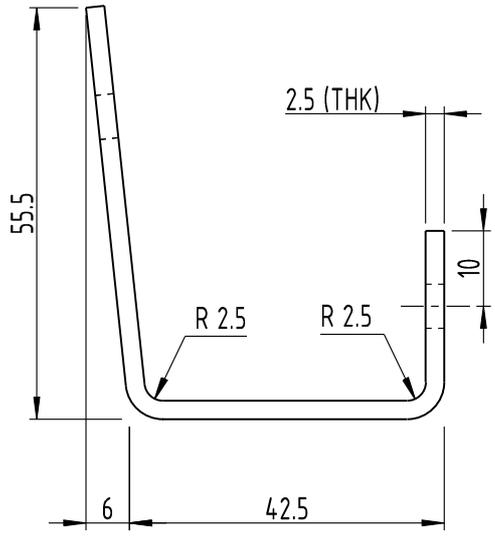
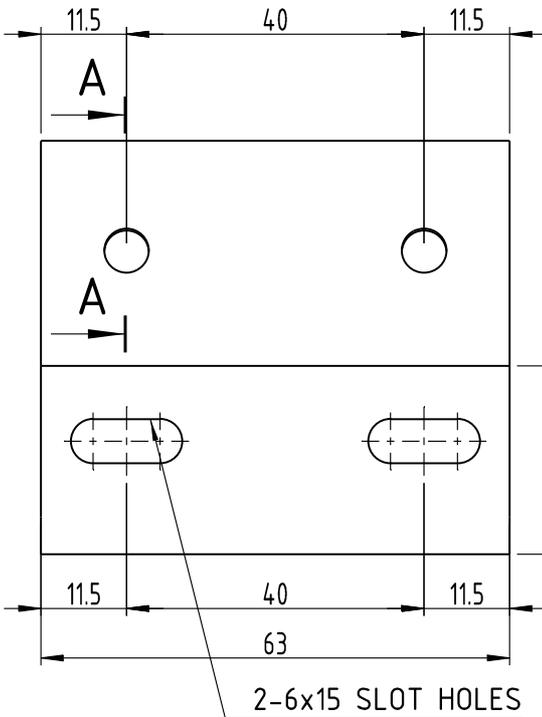
PART NO	REMARK
525-19182-300	AS DRAWN
525-19182-301	OPP. HAND DRAWN

- 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)
			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
			SCALE		SHEET	Wt.
			1:1		1 OF 1	-
			DRG No.	ALT		
			BEML LIMITED			525-19182
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	



SECTION A-A

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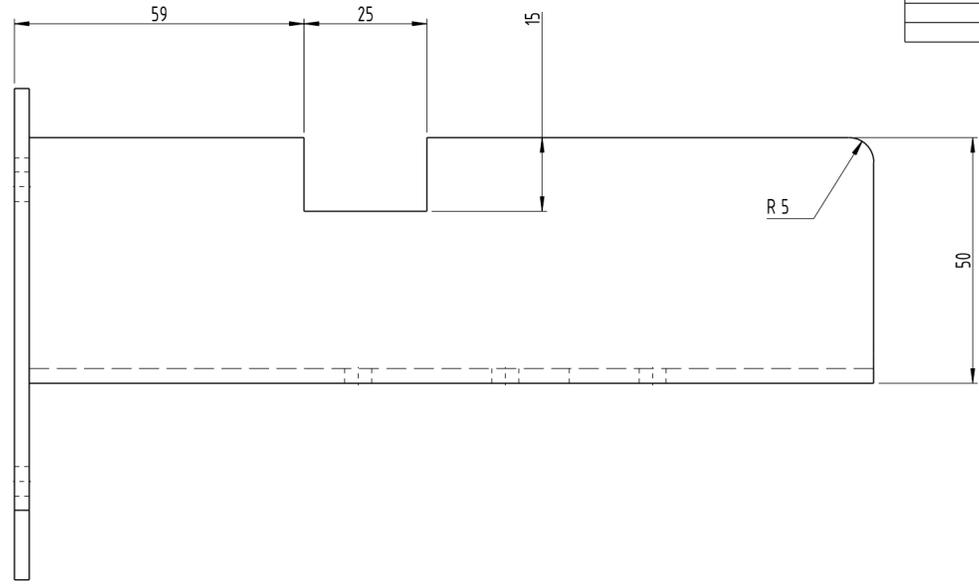
- NOTE:**
1. ALL DIMENSIONS ARE IN mm.
 2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
 3. REMOVE SHARP EDGES AND BURRS.
 4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

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	ALT.NO. ECN NO/CHANGES DATE BY CHKD APPD											

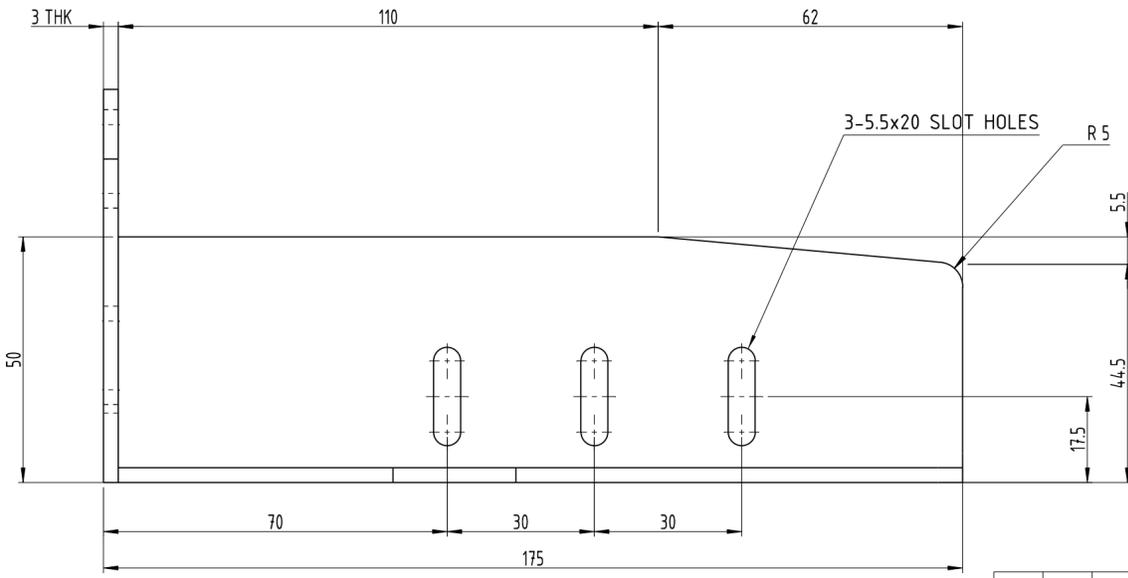
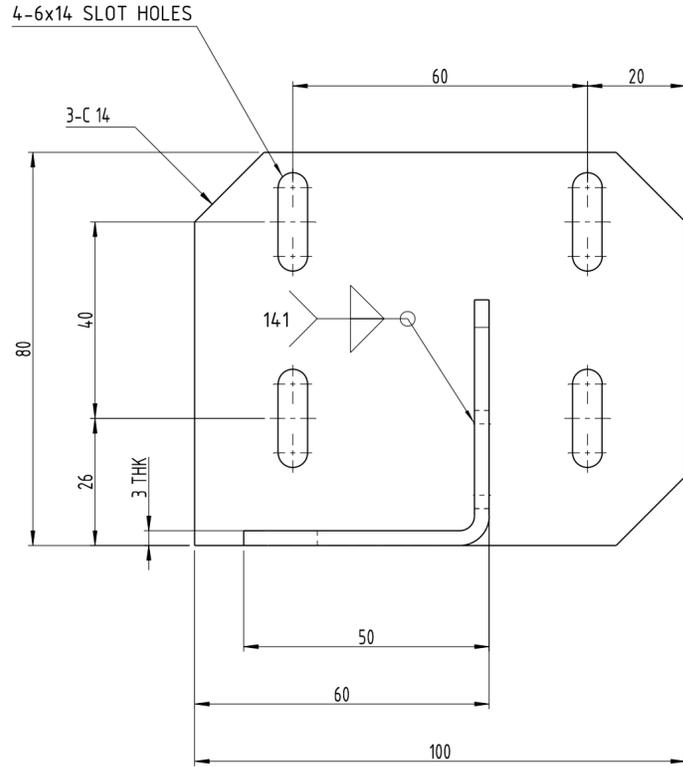
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)
						MATERIAL
			PRODUCT	MUMBAI METRO CARS - L2 & L7		
			REF DRG			
			MATERIAL	SUS304 / AISI304- 2B FINISH		
			HEAT TREAT.	APPD		20.05.2020
			SURFACE TREAT.	REVD		20.05.2020
			TITLE	CHKD		20.05.2020
			DOOR COVING BRACKET	DRWN		20.05.2020
				SCALE		SHEET
				1:1	1 OF 1	-
			DRG No.			ALT
			525-19203			



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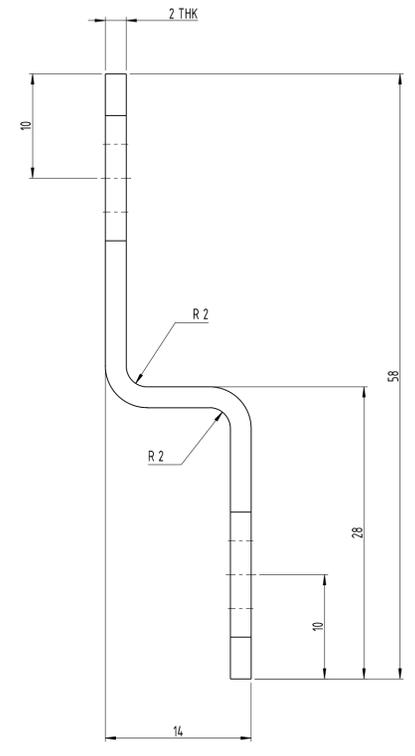
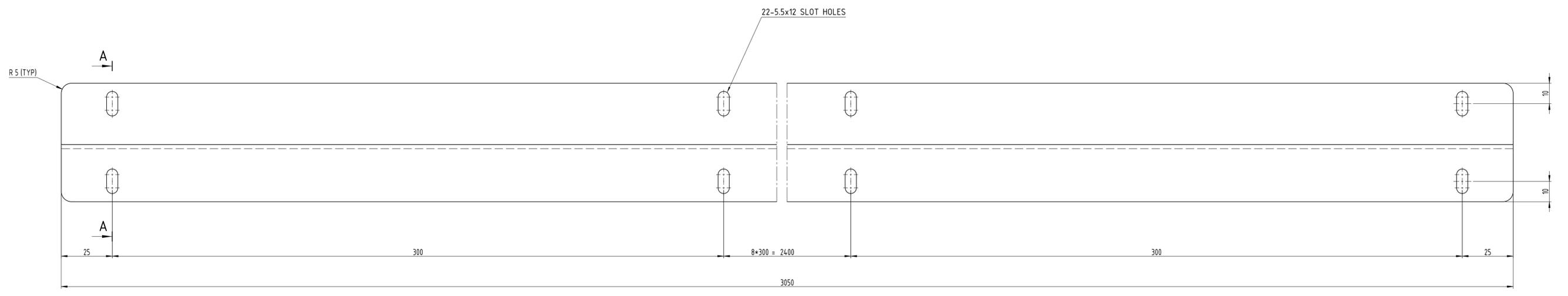
- NOTE:**
1. ALL DIMENSIONS ARE IN mm.
 2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
 3. WELDING SYMBOLS ACCORDING TO ISO:2553.
 4. WELD AREAS SHALL BE PICKLED & PASSIVATED.
 5. REMOVE SHARP EDGES AND BURRS.
 6. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

2	1	525-19208-02	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 MATERIAL	Wt. (Kg)
△			PRODUCT	MUMBAI METRO CARS - L2 & L7		
△			REF DRG			
△			MATERIAL	SUS304 / AISI304- 2B FINISH		
△			HEAT TREAT.	APPD	<i>K. J. D.</i>	20.05.2020
△			SURFACE TREAT.	REVD	<i>K. J. D.</i>	20.05.2020
△			TITLE	CHKD	<i>H. B. P.</i>	20.05.2020
△			CUBICLE STOPPER BRACKET BOTTOM	DRWN	<i>K. J. D.</i>	20.05.2020
△			SCALE	1:1	SHEET 1 OF 1	Wt. -
△			DRG No.	525-19208		
ALT.NO.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	

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GRADE No.	VALUE	SYMBOL
N1	0.05	▽
N2	0.1	▽
N3	0.2	▽
N4	0.4	▽
N5	0.8	▽
N6	1.6	▽
N7	3.2	▽
N8	6.3	▽
N9	12.5	▽
N10	25	▽
N11	50	▽
N12	100	▽
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	



SECTION A-A

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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./IS	Wt. (Kg)
△			PRODUCT	MUMBAI METRO CARS - L2 & L7		
△			REF DRG			
△			MATERIAL	SUS304 / AISI304- 2B 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
△				DRWN	<i>[Signature]</i>	20.05.2020
△				SCALE	1:1	
△				SHEET	1 OF 1	
△				Wt.	-	
△				ALT	-	
ALT No.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	
				Beml LIMITED		525-19230

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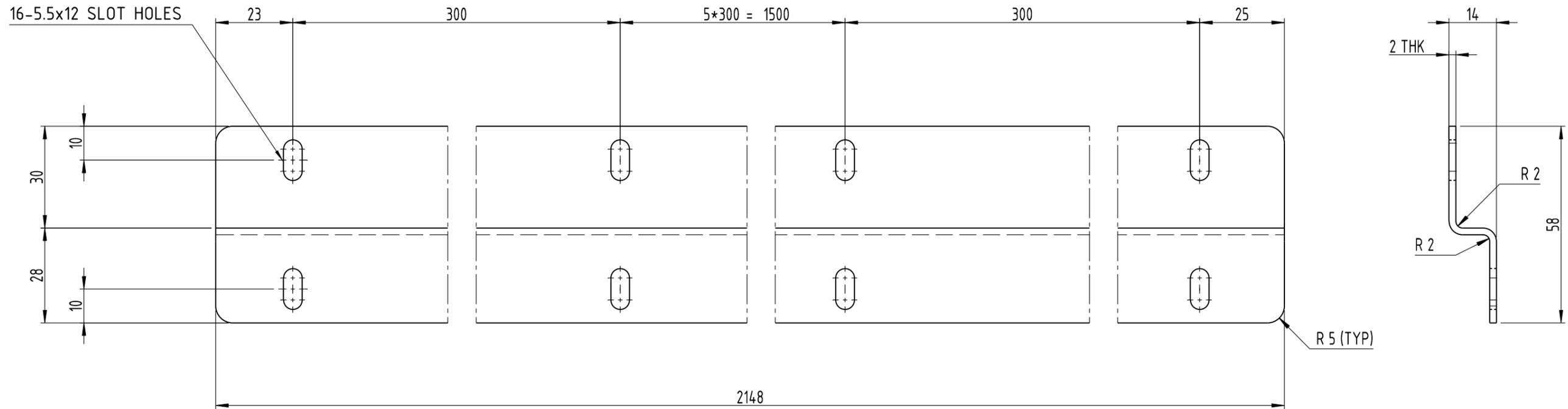
SURFACE ROUGHNESS: 11, 10, 9, 8, 7, 6, 5, 4, 3

H, G, F, E, D, C, B, A, A1

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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.										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)
			PRODUCT	MUMBAI METRO CARS - L2 & L7		
			REF DRG			
			MATERIAL	SUS 304/AISI304 - 2B 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
				DRWN	<i>[Signature]</i>	20.05.2020
				SCALE		SHEET
				1:1		1 OF 1
				DRG No.	525-19234	
ALT.No.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	ALT

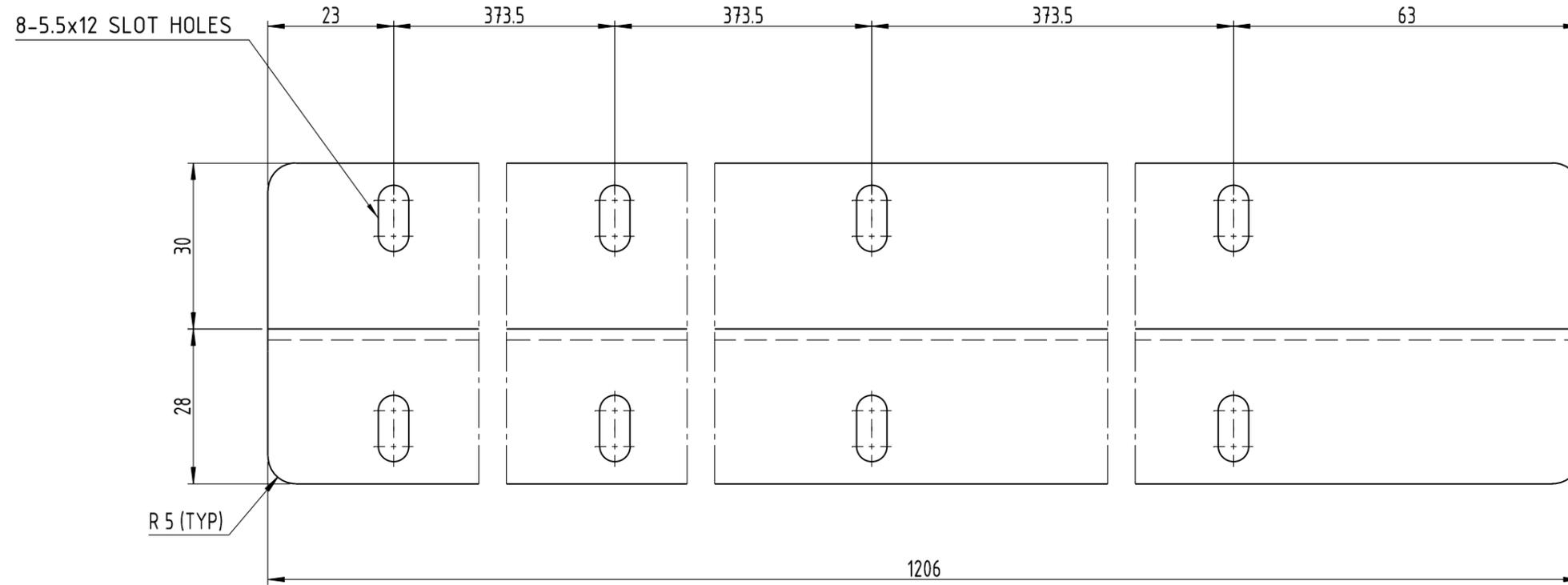
beml BEML LIMITED
NEW FRONTIERS. NEW DREAMS

525-19234

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GRADE No.	N1	0.075
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										



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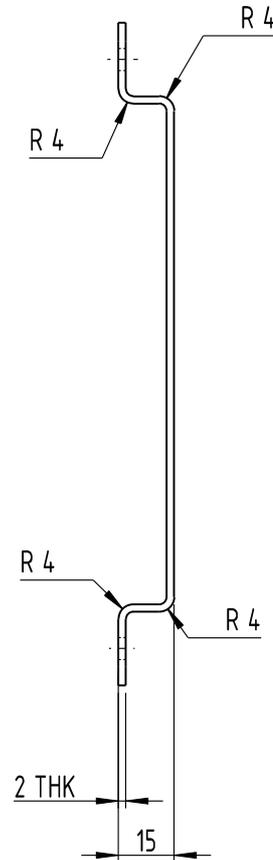
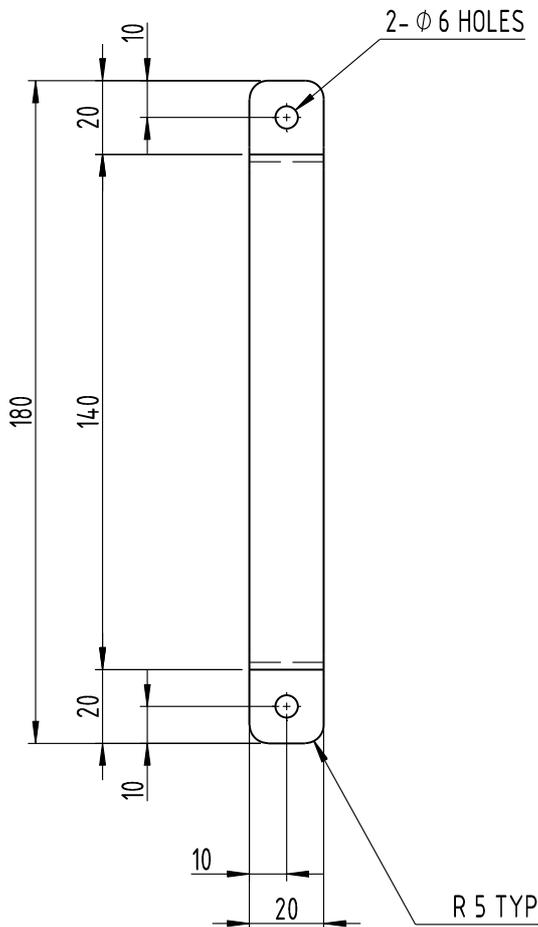
NOTE:
1. ALL SHARP EDGES AND BURRS SHALL BE REMOVED.

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>	20.05.2020
			SURFACE TREAT.	REVD	<i>[Signature]</i>	20.05.2020
			TITLE	CHKD	<i>[Signature]</i>	20.05.2020
			MIDDLE BRACKET-4	DRWN	<i>[Signature]</i>	20.05.2020
				SCALE	1:1	SHEET 1 OF 1
				DRG No.	525-19239	
ALT.No.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	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.										
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.

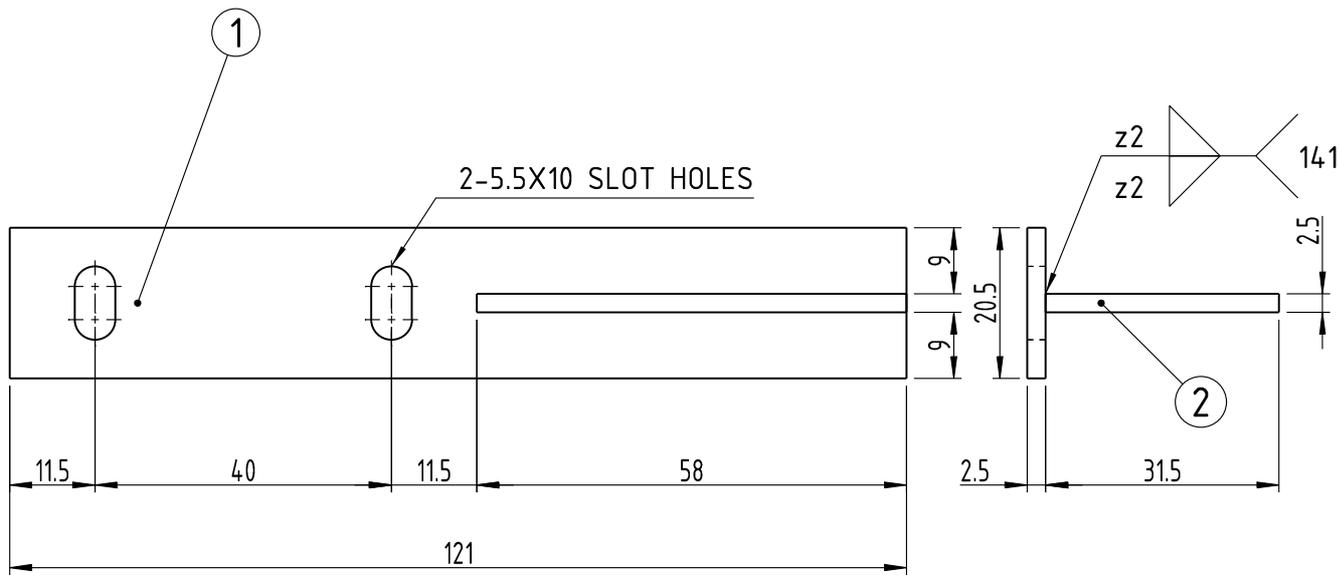
N1	0.025	▽
N2	0.05	▽
N3	0.1	▽
N4	0.2	▽
N5	0.4	▽
N6	0.8	▽
N7	1.6	▽
N8	3.2	▽
N9	6.3	▽
N10	12.5	▽
N11	25	▽
N12	50	▽
GRADE No.		▽
VALUE		▽
SYMBOL		▽
SURFACE ROUGHNESS		▽

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./IS	Wt. (Kg)
					MATERIAL	
			PRODUCT	MUMBAI METRO CARS - L2 & L7		
			REF DRG			
			MATERIAL	SUS304/AISI304-2B FINISH		
			HEAT TREAT.	APPD	<i>[Signature]</i>	09.11.2019
			SURFACE TREAT.	REVD	<i>[Signature]</i>	09.11.2019
			TITLE	CHKD	<i>[Signature]</i>	09.11.2019
			WIRE SUPPORT	DRWN	<i>[Signature]</i>	09.11.2019
				SCALE	1:1	SHEET
				DRG No.	525-19244	
					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.
 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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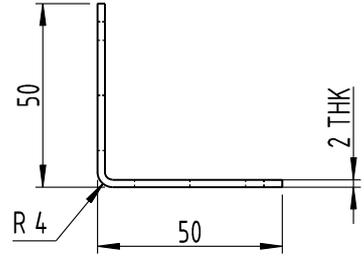
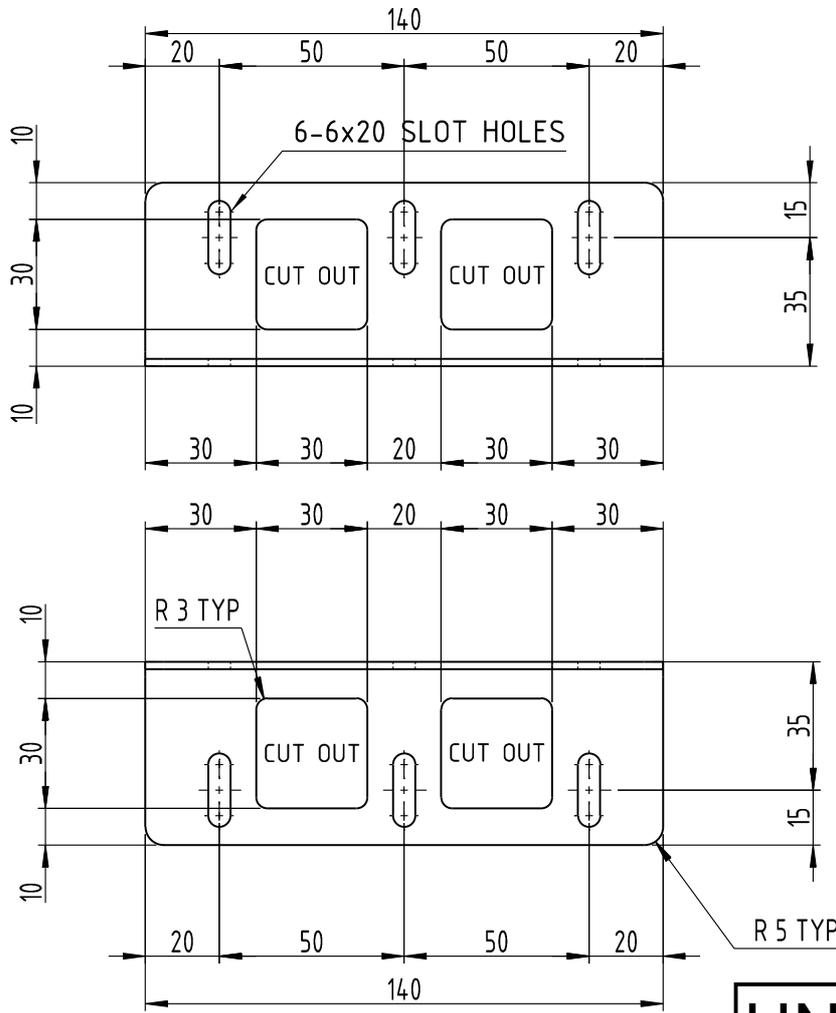
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N2	0.05	▽
N3	0.1	▽
N4	0.2	▽
N5	0.4	▽
N6	0.8	▽
N7	1.6	▽
N8	3.2	▽
N9	6.3	▽
N10	12.5	▽
N11	25	▽
N12	50	▽
GRADE No.		▽
VALUE		▽
SYMBOL		▽
SURFACE ROUGHNESS		▽

2	1	525-19247-02	BRACKET-2	58x31.5x2.5THK	SUS304 / AISI304- 2B FINISH	
1	1	525-19247-01	BRACKET-1	121x20.5x2.5THK	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>	20.05.2020		
SURFACE TREAT.	REVD	<i>[Signature]</i>	20.05.2020		
TITLE	CHKD	<i>[Signature]</i>	20.05.2020		
LOCKING BRACKET	DRWN	<i>[Signature]</i>	20.05.2020		
	SCALE	1:1		SHEET	1 OF 1
	DRG No.	525-19247			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. REMOVE SHARP EDGES AND BURRS.
 4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

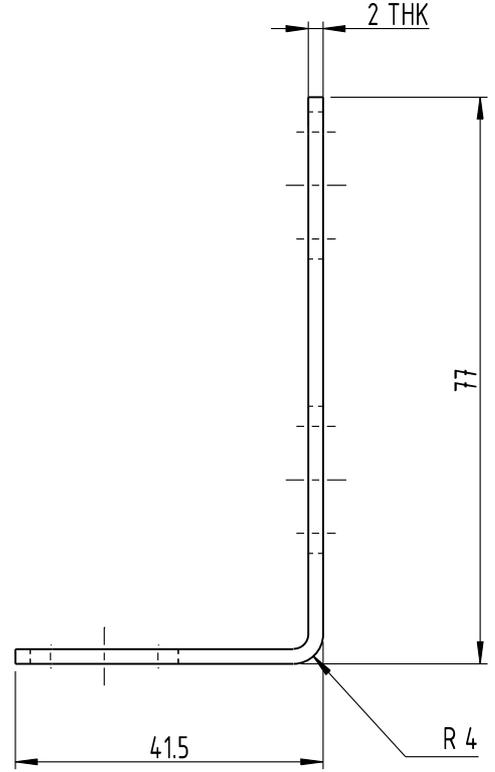
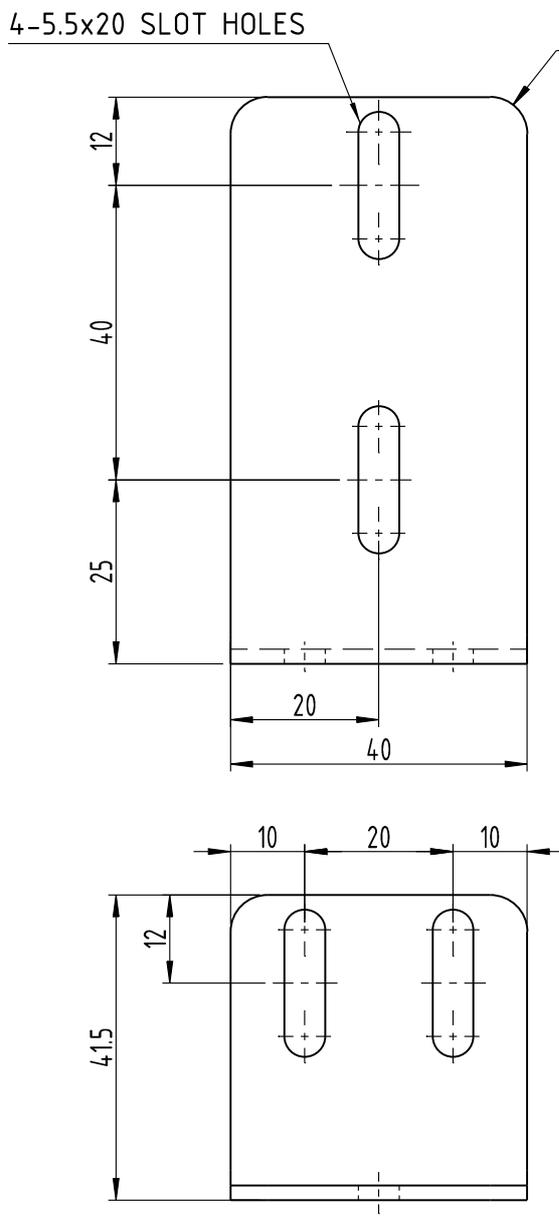
GRADE No. VALUE SYMBOL	N1	0.025	▽
	N2	0.05	▽
	N3	0.1	▽
	N4	0.2	▽
	N5	0.4	▽
	N6	0.8	▽
	N7	1.6	▽
	N8	3.2	▽
	N9	6.3	▽
	N10	12.5	▽
	N11	25	▽
	N12	50	▽
	SURFACE ROUGHNESS		

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>	20.05.2020
			SURFACE TREAT.	REVD	<i>[Signature]</i>	20.05.2020
			TITLE	CHKD	<i>[Signature]</i>	20.05.2020
				DRWN	<i>[Signature]</i>	20.05.2020
				SCALE	1:1	
				SHEET	1 OF 1	
				DRG No.	525-19249	
				ALT		
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										



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.

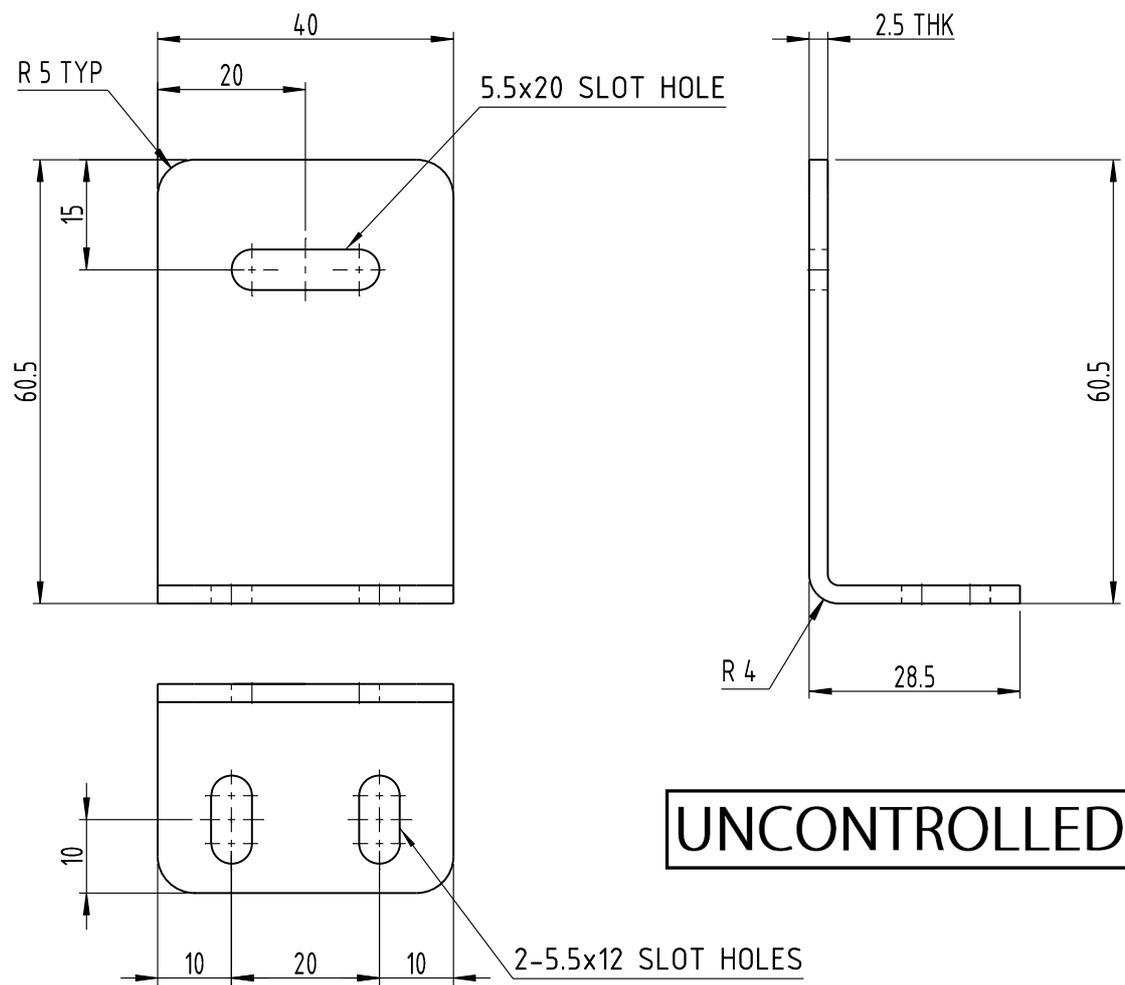
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N2	0.05	▽
N3	0.1	▽
N4	0.2	▽
N5	0.4	▽
N6	0.8	▽
N7	1.6	▽
N8	3.2	▽
N9	6.3	▽
N10	12.5	▽
N11	25	▽
N12	50	▽
GRADE No.		▽
VALUE		▽
SYMBOL		▽
SURFACE ROUGHNESS		▽

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>	20.05.2020
			SURFACE TREAT.	REVD	<i>[Signature]</i>	20.05.2020
			TITLE	CHKD	<i>[Signature]</i>	20.05.2020
				DRWN	<i>[Signature]</i>	20.05.2020
				SCALE	1:1	
				SHEET	1 OF 1	
				DRG No.	525-19250	
				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										



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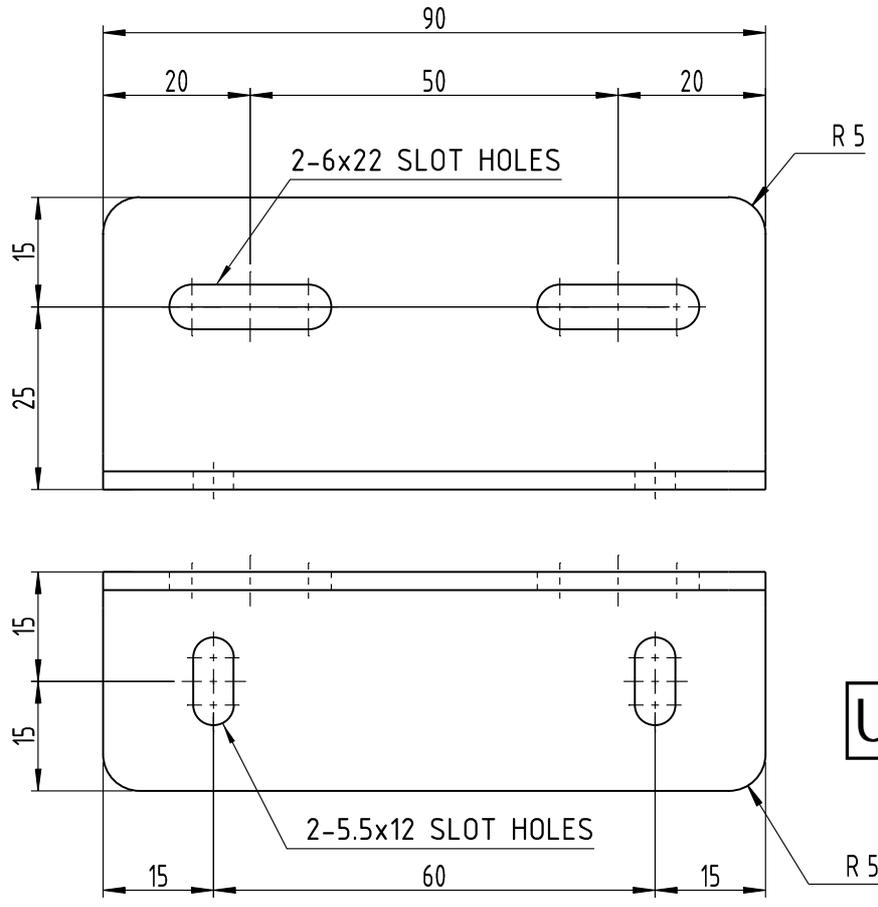
- NOTE:**
1. ALL DIMENSIONS ARE IN mm.
 2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
 3. REMOVE SHARP EDGES AND BURRS.
 4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

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>	09.11.2019
			SURFACE TREAT.	REVD	<i>[Signature]</i>	09.11.2019
			TITLE	CHKD	<i>[Signature]</i>	09.11.2019
			BRACKET (I)	DRWN	<i>[Signature]</i>	09.11.2019
				SCALE	1:1	SHEET
				DRG No.	525-19251	
				BEML LIMITED		ALT
				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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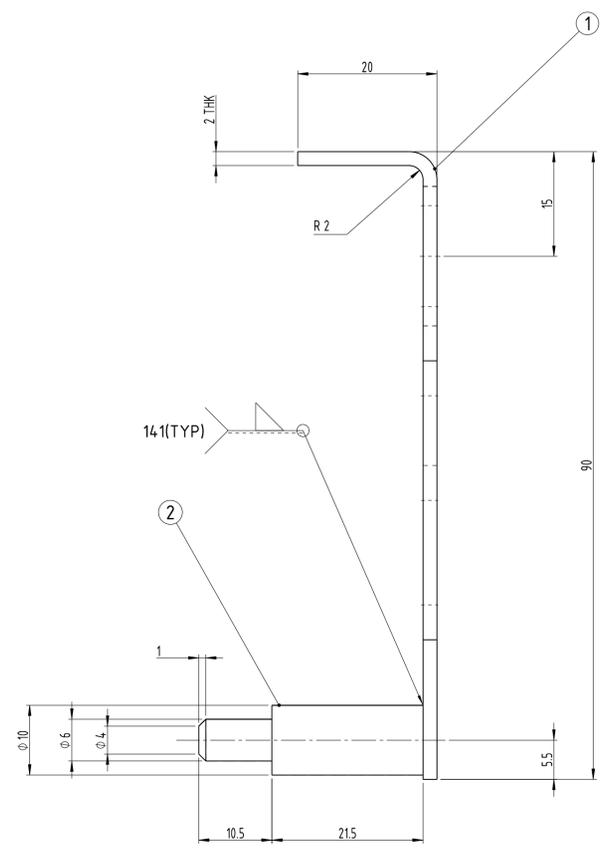
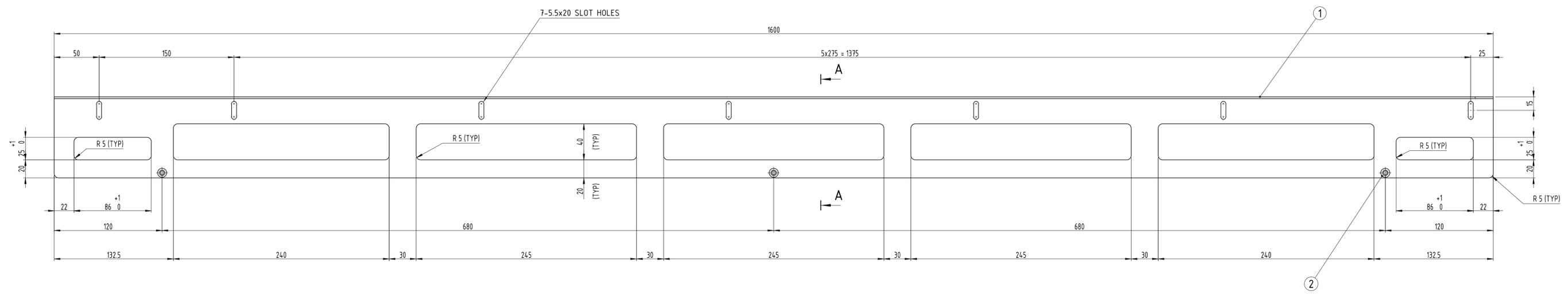
- NOTE:**
1. ALL DIMENSIONS ARE IN mm.
 2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
 3. REMOVE SHARP EDGES AND BURRS.
 4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

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>	20.05.2020
			SURFACE TREAT.	REVD	<i>[Signature]</i>	20.05.2020
			TITLE	CHKD	<i>[Signature]</i>	20.05.2020
				DRWN	<i>[Signature]</i>	20.05.2020
				SCALE	1:1	
				SHEET	1 OF 1	
				DRG No.	525-19266	
				ALT		

BEML LIMITED
NEW FRONTIERS, NEW DREAMS

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.

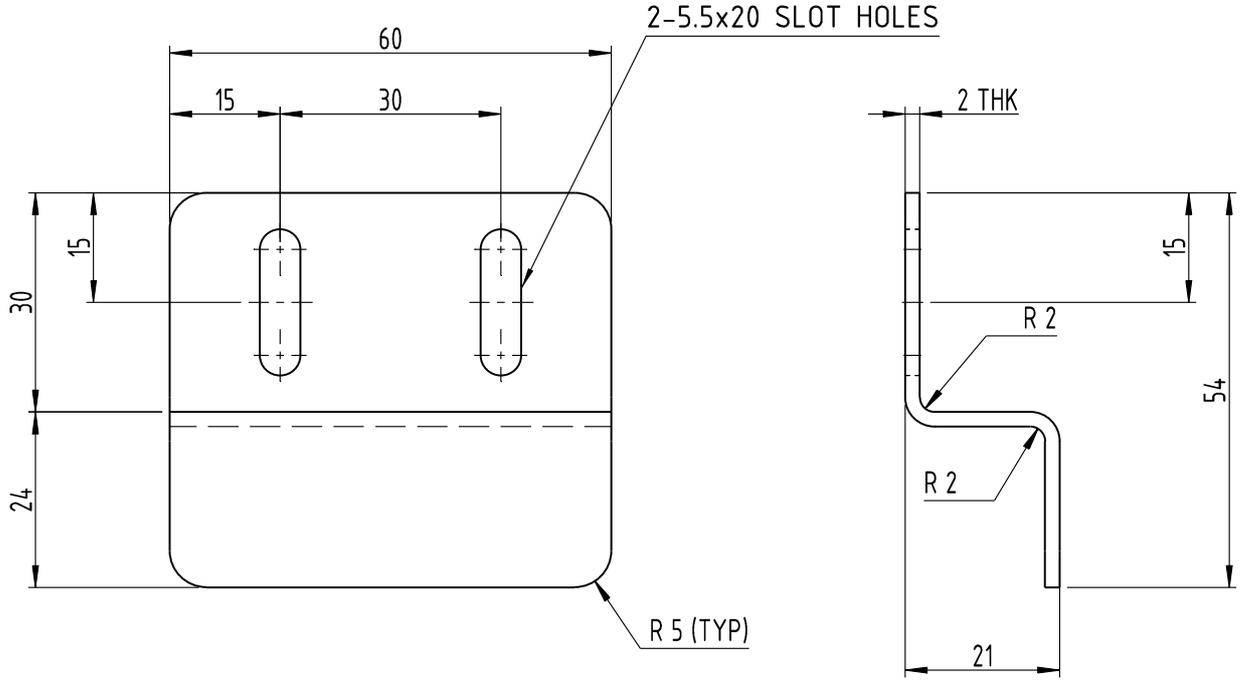
2	3	525-19270-02	STOPPER LOCK	Ø10	SUS304 / AISI304- 2B FINISH	
1	1	525-19270-303	BRACKET	2 THK	SUS304 / AISI304- 2B FINISH	
525-19270-301 OPP. HAND DRAWN						
2	3	525-19270-02	STOPPER LOCK	Ø10	SUS304 / AISI304- 2B FINISH	
1	1	525-19270-302	BRACKET	2 THK	SUS304 / AISI304- 2B FINISH	
525-19270-300 AS DRAWN						
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: 20.05.2020						
SURFACE TREAT: REVD: 20.05.2020						
TITLE: STOPPER LOCK BRACKET						
SCALE: NTS						
SHEET: 1 OF 1						
Wt.:						
ALT:						
BEML LIMITED						
525-19270						

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11	10	9	8	7	6	5	4	3	2	1
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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>	09.11.2019
			SURFACE TREAT.	REVD	<i>[Signature]</i>	09.11.2019
			TITLE	CHKD	<i>[Signature]</i>	09.11.2019
				DRWN	<i>[Signature]</i>	09.11.2019
				SCALE	1:1	
				SHEET	1 OF 1	
				DRG No.	525-19293	
				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	~

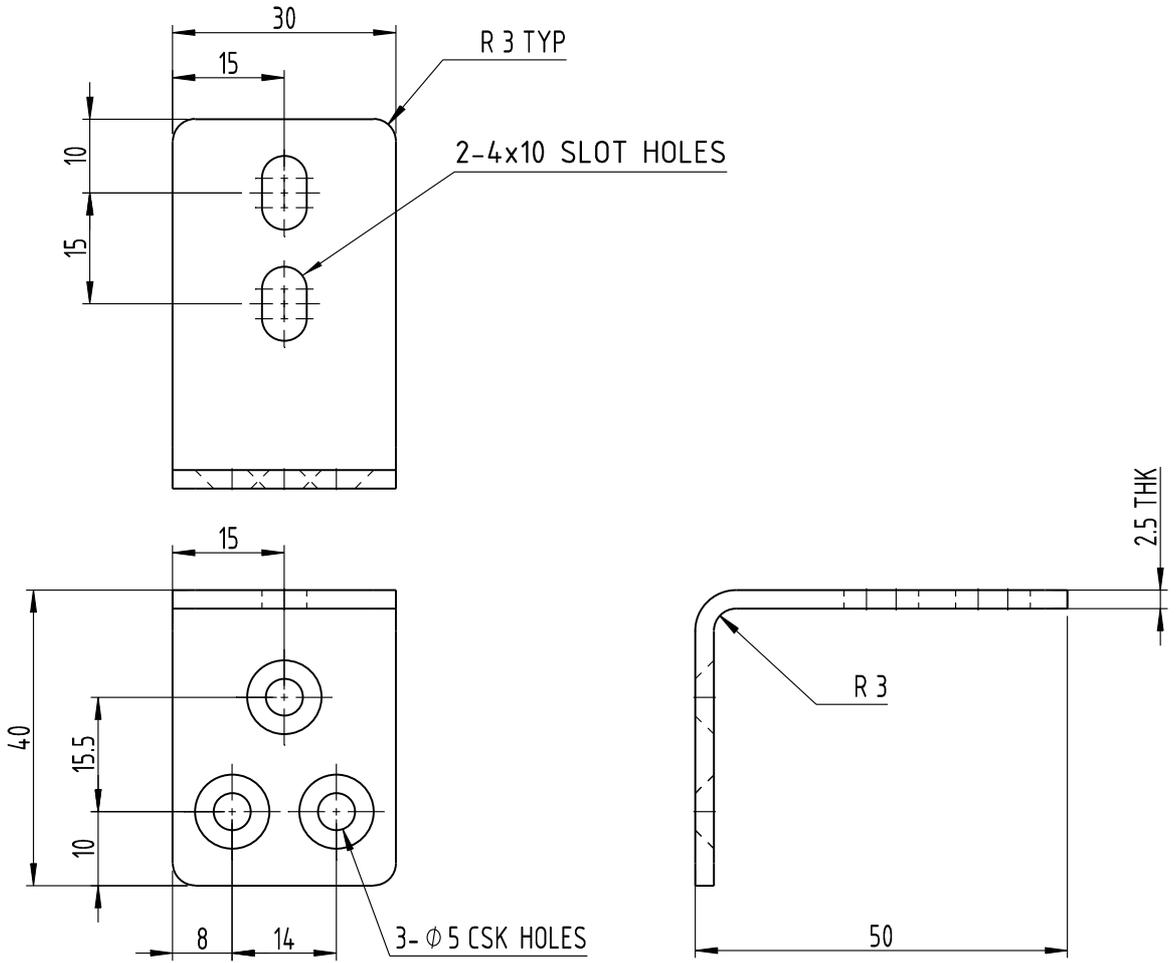
FOR DIMENSIONAL TOLERANCES OF SHEET METAL PARTS AND WELDED STRUCTURES, REFER STD. RD-227

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.

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.

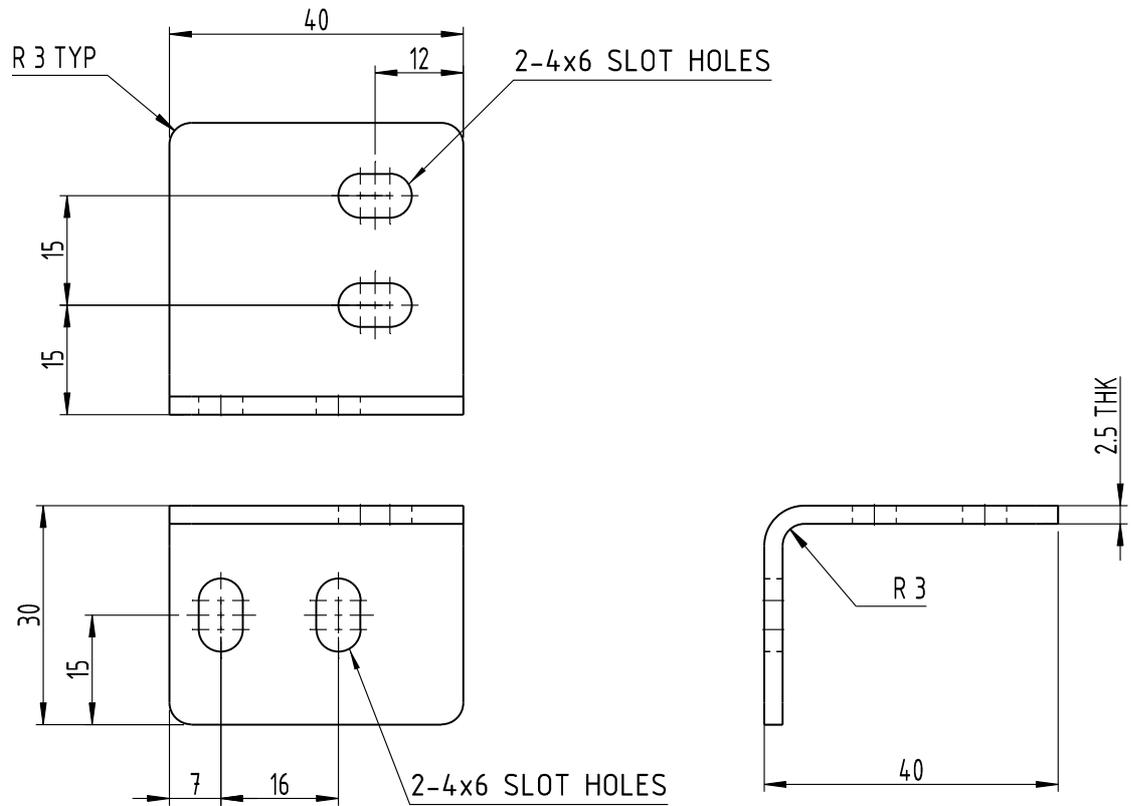
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	N2	0.05	▽
	N3	0.1	▽
	N4	0.2	▽
	N5	0.4	▽
	N6	0.8	▽
	N7	1.6	▽
	N8	3.2	▽
	N9	6.3	▽
	N10	12.5	▽
	N11	25	▽
	N12	50	▽

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>	09.11.2019	
			SURFACE TREAT.	REVD	<i>[Signature]</i>	09.11.2019	
			TITLE	CHKD	<i>[Signature]</i>	09.11.2019	
			BRACKET LOWER	DRWN	<i>[Signature]</i>	09.11.2019	
				SCALE		SHEET	Wt.
				1:1		1 OF 1	-
			DRG No.	525-19299		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.							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.

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		▽

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>	09.11.2019
			SURFACE TREAT.	REVD	<i>[Signature]</i>	09.11.2019
			TITLE	CHKD	<i>[Signature]</i>	09.11.2019
				DRWN	<i>[Signature]</i>	09.11.2019
				SCALE	1:1	SHEET 1 OF 1
				DRG No.	525-19300	
						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

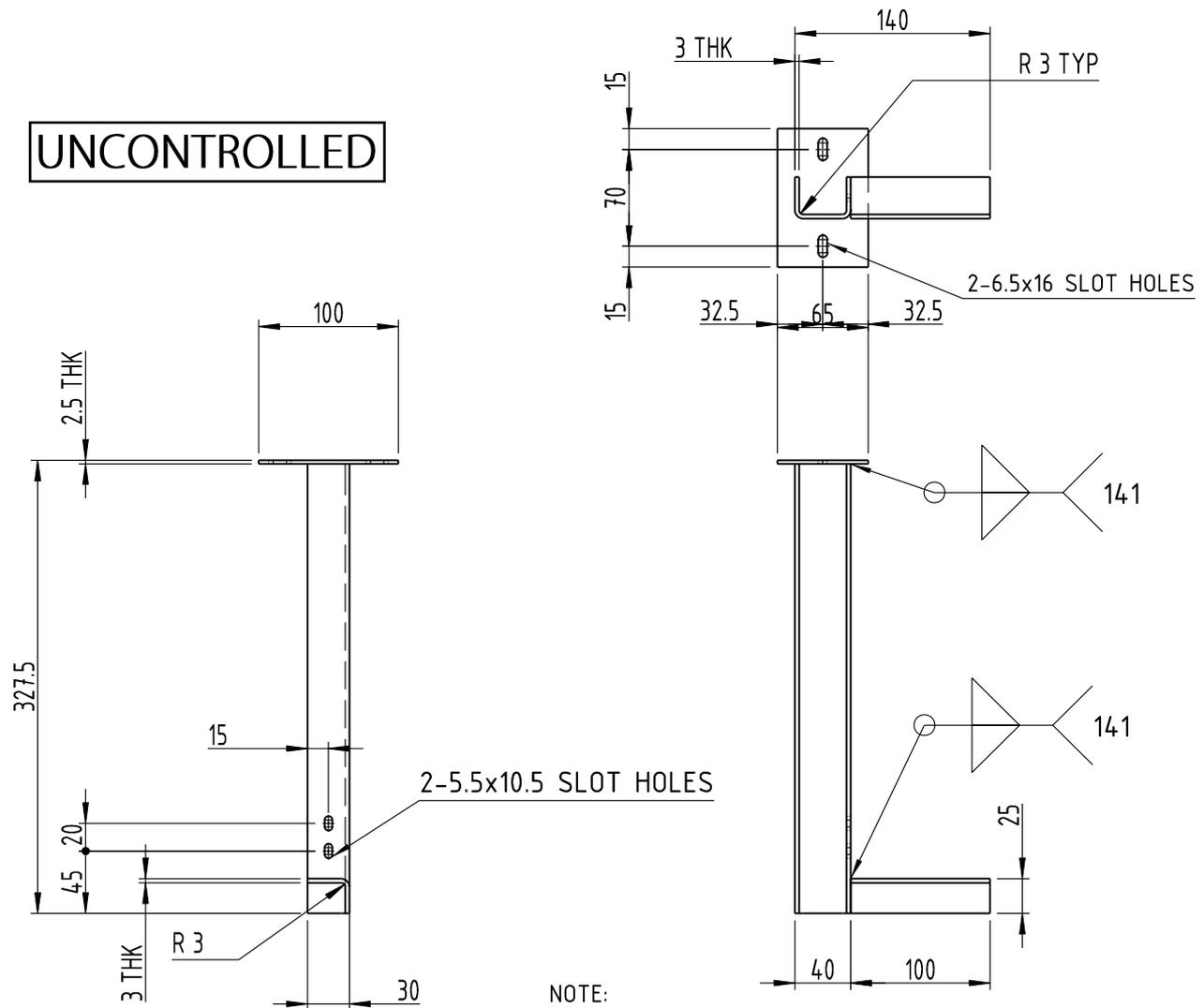
UNSPECIFIED TOLERANCE FOR LINEAR AND ANGULAR DIMENSIONS REF. IS 2102 (PT-1) (MEDIUM)

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



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

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												

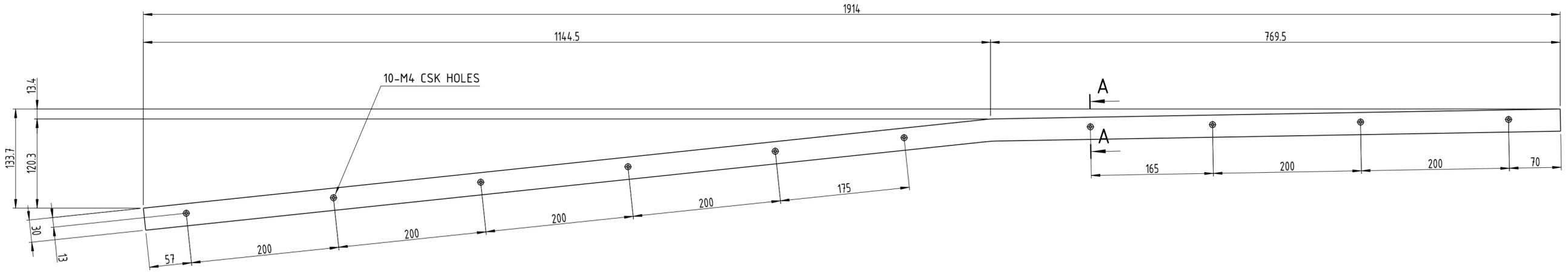
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)
			PRODUCT	MUMBAI METRO CARS - L2 & L7		
			REF DRG			
			MATERIAL	SUS304 / AISI304- 2B FINISH		
			HEAT TREAT.	APPD	<i>[Signature]</i>	20.05.2020
			SURFACE TREAT.	REVD	<i>[Signature]</i>	20.05.2020
			TITLE	CHKD	<i>[Signature]</i>	20.05.2020
				DRWN	<i>[Signature]</i>	20.05.2020
				SCALE	1:1	
				SHEET	1 OF 1	
				DRG No.	525-19349	
				ALT		

BEML LIMITED
NEW FRONTIERS. NEW DREAMS.

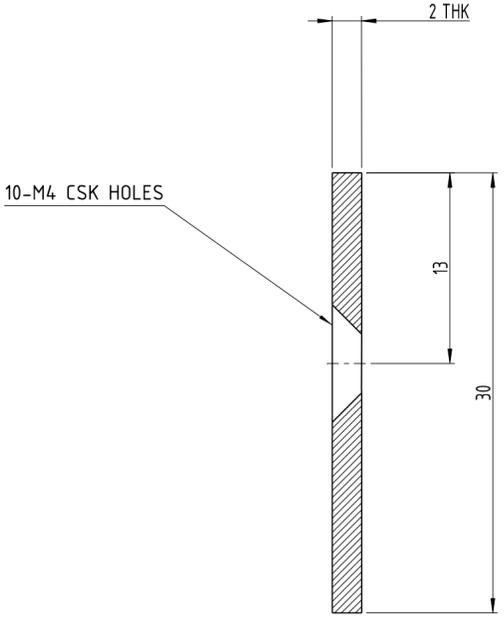
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GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12
VALUE	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50	
SYMBOL												
SURFACE ROUGHNESS												

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)										
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

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.

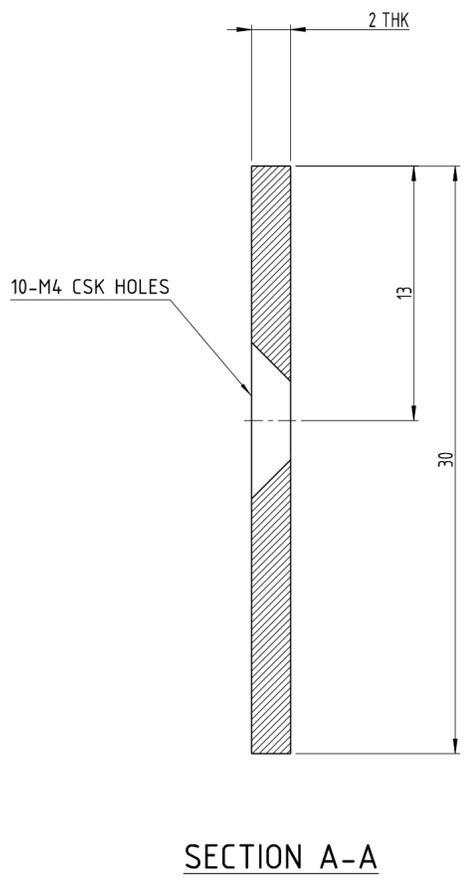
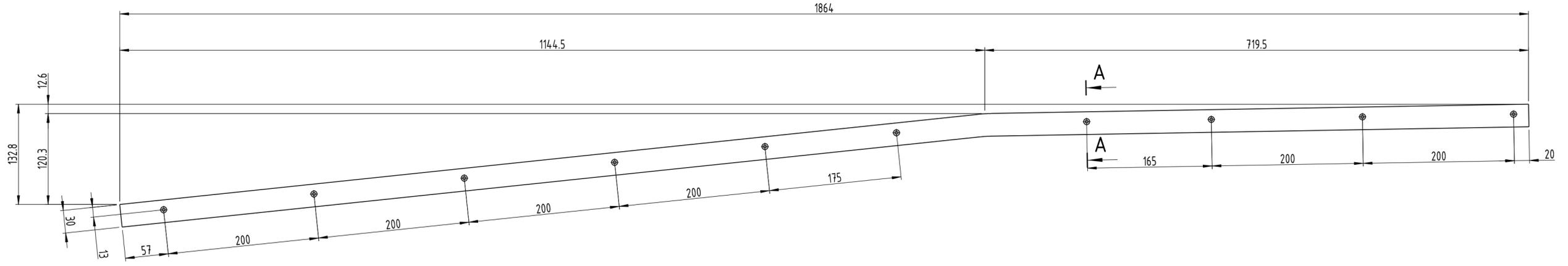
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)
△			PRODUCT	MUMBAI METRO CARS - L2 & L7		
△			REF DRG			
△			MATERIAL	SUS304 / AISI304- 2B FINISH		
△			HEAT TREAT.	APPD	<i>[Signature]</i>	20.05.2020
△			SURFACE TREAT.	REVD	<i>[Signature]</i>	20.05.2020
△			TITLE	CHKD	<i>[Signature]</i>	20.05.2020
△				DRWN	<i>[Signature]</i>	20.05.2020
△				SCALE	1:1	
△				SHEET	1 OF 1	
△				DRG No.		
ALT.NO.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	
BEML LIMITED						525-19360

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GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12
VALUE	0.05	0.1	0.15	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
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



UNCONTROLLED

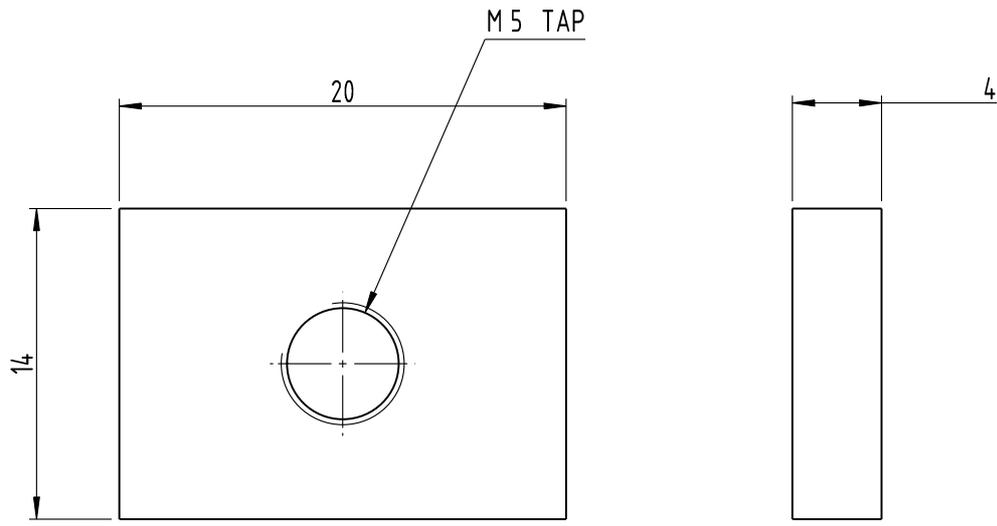
525-19361-301	OPP. HAND DRAWN
525-19361-300	AS DRAWN

- 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./IS	Wt. (Kg)
			PRODUCT	MUMBAI METRO CARS - L2 & L7		
			REF DRG			
			MATERIAL	SUS304 / AISI304 - 2B 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
				DRWN	<i>[Signature]</i>	20.05.2020
				SCALE	1:1	
				SHEET	1 OF 1	
				DRG No.	525-19361	
ALT.No.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	ALT
				BHEL 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.										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		▽

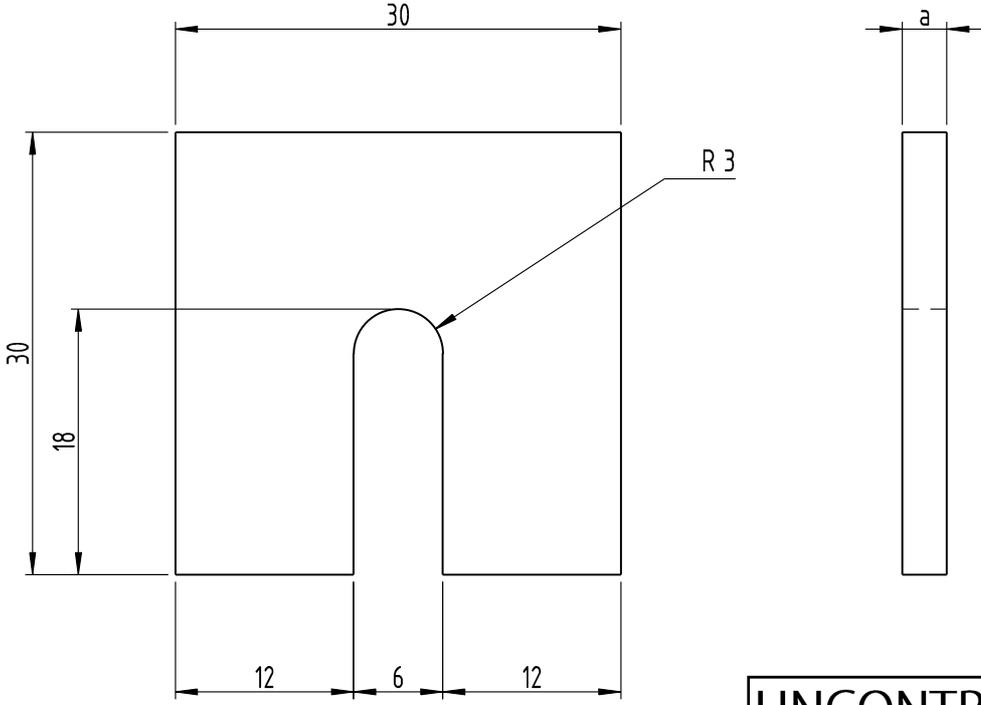
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)
			PRODUCT	MUMBAI METRO CARS - L2 & L7		
			REF DRG			
			MATERIAL	SUS304 / AISI304- 2B FINISH		
			HEAT TREAT.	APPD	<i>[Signature]</i>	20.05.2020
			SURFACE TREAT.	REVD	<i>[Signature]</i>	20.05.2020
			TITLE	CHKD	<i>[Signature]</i>	20.05.2020
				DRWN	<i>[Signature]</i>	20.05.2020
				SCALE		SHEET
				NTS		1 OF 1
				DRG No.		Wt.
						-
						ALT



525-19367

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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

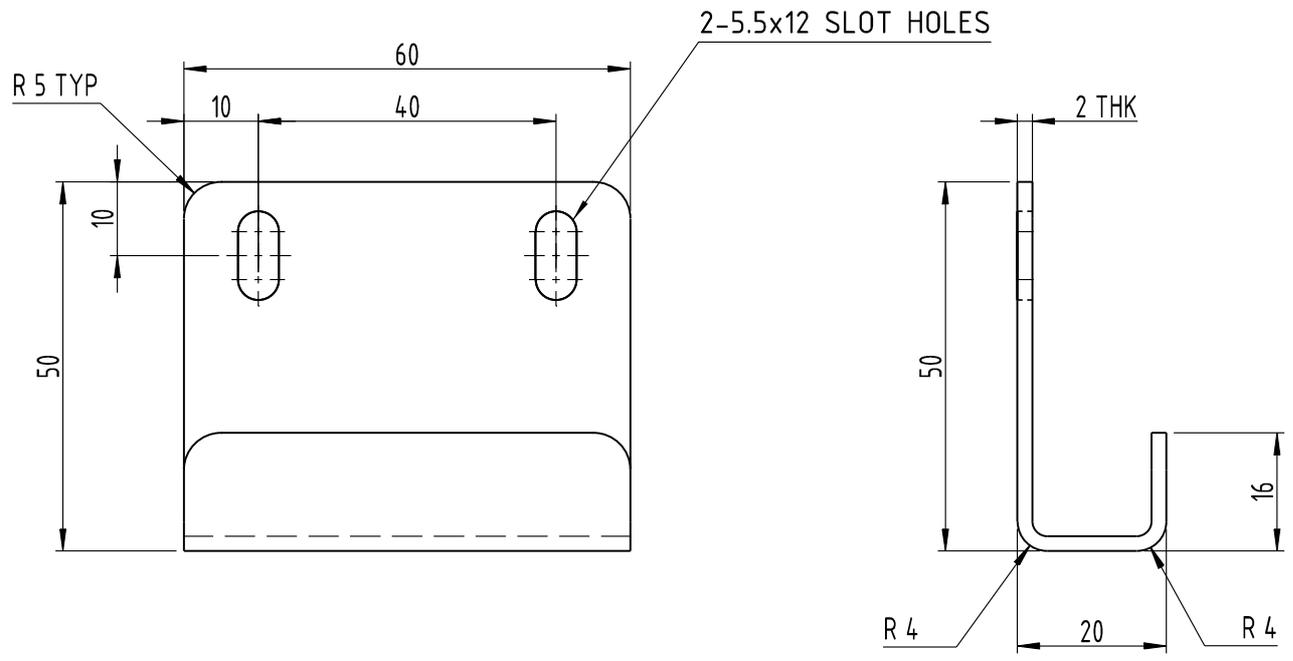
N1	0.025	▽
N2	0.05	▽
N3	0.1	▽
N4	0.2	▽
N5	0.4	▽
N6	0.8	▽
N7	1.6	▽
N8	3.2	▽
N9	6.3	▽
N10	12.5	▽
N11	25	▽
N12	50	▽
GRADE No.		▽
VALUE		▽
SYMBOL		▽
SURFACE ROUGHNESS		▽

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>	20.05.2020
			SURFACE TREAT.	REVD	<i>[Signature]</i>	20.05.2020
			TITLE	CHKD	<i>[Signature]</i>	20.05.2020
				DRWN	<i>[Signature]</i>	20.05.2020
				SCALE	1:1	
				SHEET	1 OF 1	
				Wt.	-	
				DRG No.	525-19368	
				ALT	▽	
				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	



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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.

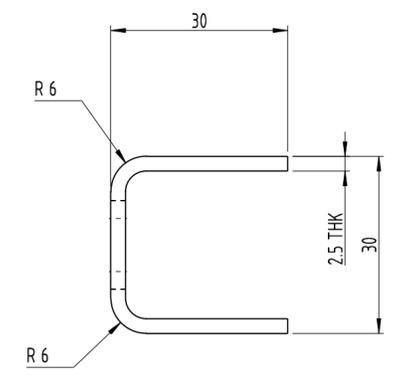
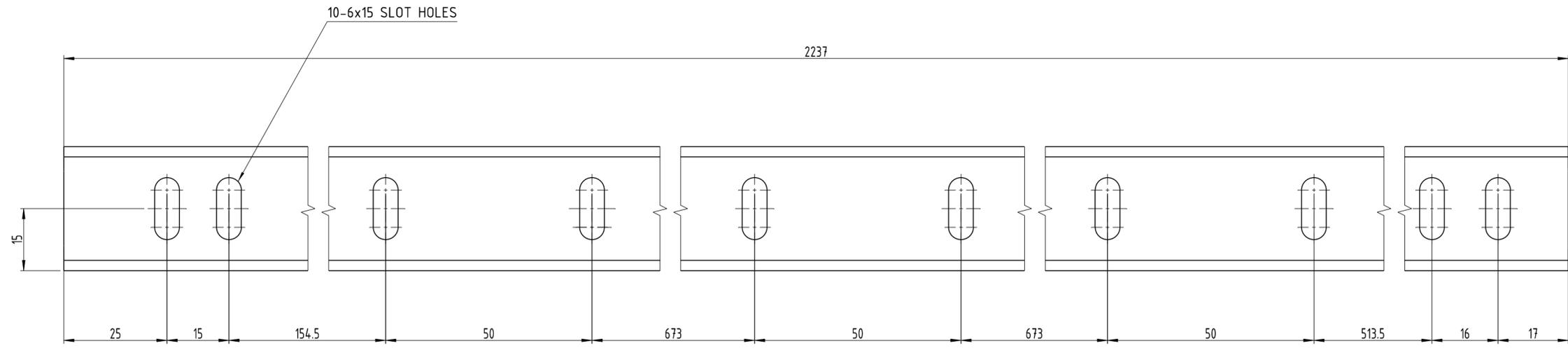
N1	0.025	▽
N2	0.05	▽
N3	0.1	▽
N4	0.2	▽
N5	0.4	▽
N6	0.8	▽
N7	1.6	▽
N8	3.2	▽
N9	6.3	▽
N10	12.5	▽
N11	25	▽
N12	50	▽
GRADE No.		▽
VALUE		▽
SYMBOL		▽
SURFACE ROUGHNESS		▽

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 / AISI 304, 2B 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
				DRWN	<i>[Signature]</i>	20.05.2020
				SCALE	1:1	
					SHEET 1 OF 1	Wt. -
				DRG No.	525-19412	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	1.5	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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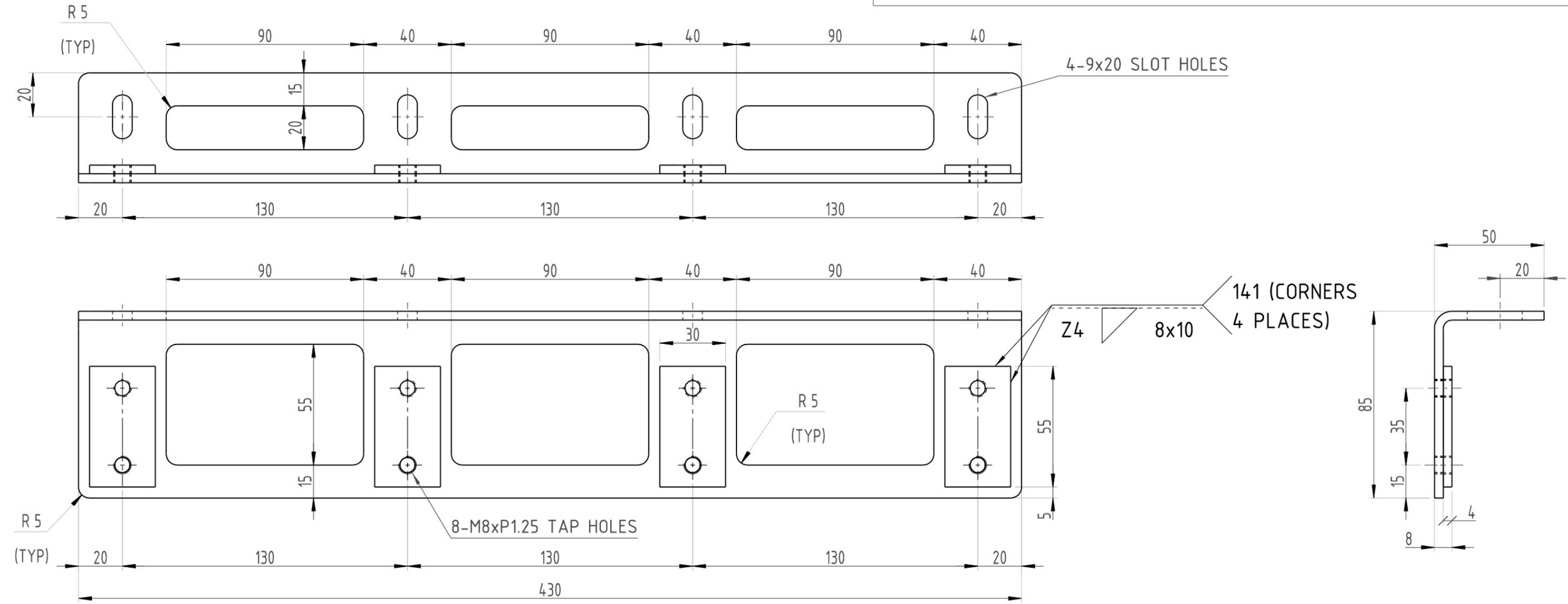
- NOTE:**
1. ALL DIMENSIONS ARE IN mm.
 2. THE ITEM SHALL COMPLY TO TDC DOC NO. GR/TD/5025.
 3. REMOVE SHARP EDGES AND BURRS.
 4. SAMPLE APPROVAL SHALL BE OBTAINED BEFORE BULK PRODUCTION.

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>	09.11.2019
			SURFACE TREAT.	REVD	<i>[Signature]</i>	09.11.2019
			TITLE	CHKD	<i>[Signature]</i>	09.11.2019
				DRWN	<i>[Signature]</i>	09.11.2019
				SCALE	1:1	
				SHEET	1 OF 1	
				DRG No.		
			BEM BEML LIMITED			
					525-19430	
ALT.NO.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	ALT

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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										



UNCONTROLLED

- 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	30x55x4 THK	SUS 304/AISI 304, No. 2B FINISH	
1	1	525-29058-1	BRACKET	430x128x4 THK	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.	-		
			SURFACE TREAT.	-		
			TITLE	BRACKET, BULKHEAD		
			APPD	<i>[Signature]</i>	01/06/2020	
			REVD	<i>[Signature]</i>	01/06/2020	
			CHKD	<i>[Signature]</i>	01/06/2020	
			DRWN	<i>[Signature]</i>	01/06/2020	
			SCALE	1:2	SHEET	1 OF 1
			DRG No.	525-29058	Wt.	1.47kg
ALT.No.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	ALT



525-29058

0

