

5

4

3

2

1

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2

GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1

GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920

WELDING SHALL BE CARRIED OUT AS PER EN 15085-3

WELDING SYMBOLS SHALL BE AS PER EN ISO-2553

WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3

GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2

VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.

WELDING PROCESS SHALL BE AS PER EN ISO-4063

WELDING POSITIONS SHALL BE AS PER EN ISO 6947

QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817

INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5

STATUS:

PROTO/PRODUCTION

1582

79

25

35

1

437

633

100

a2

2

2

1

ISOMETRIC VIEW

NOTES:

1. ALL DIMENSIONS ARE IN mm.

2. REMOVE ALL SHARP EDGES & BURRS.

3. WELDING SYMBOLS AS PER EN ISO-2553.

4. ALL WELD JOINTS SHALL BE PICKLED AND PASSIVATED.

5. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN

6. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

UN CONTROLLED

2	2	843-18777	WIRE SUPPORT		
1	1	843-18225	ANGLE		
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S
					Wt. (Kg)
					MATERIAL
			PRODUCT	TRAIN B28	
			REF DRG	---	
			MATERIAL	ASSY	
			HEAT TREAT.	---	
			SURFACE TREAT.	---	
			TITLE	BRACKET WELDED	
				SCALE	SHEET
				1:5	1 OF 1
					Wt.(kg)
					0.61
				DRG No.	ALT
				843-18551	0
ALT.No.	ECN No./CHANGES	DATE	BY	CHKD	APPD

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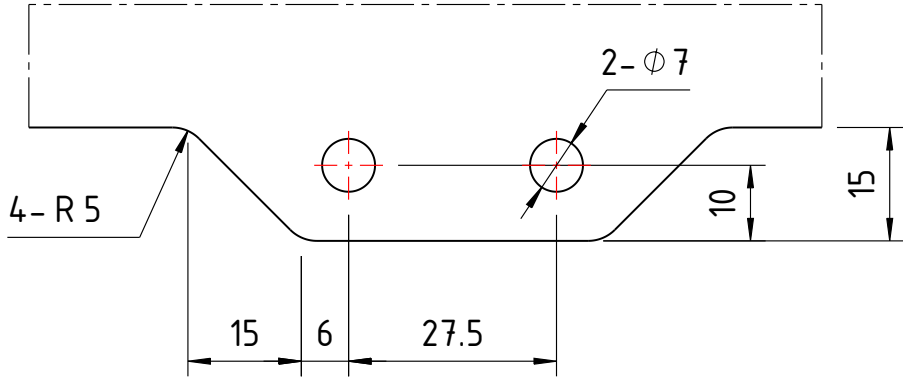
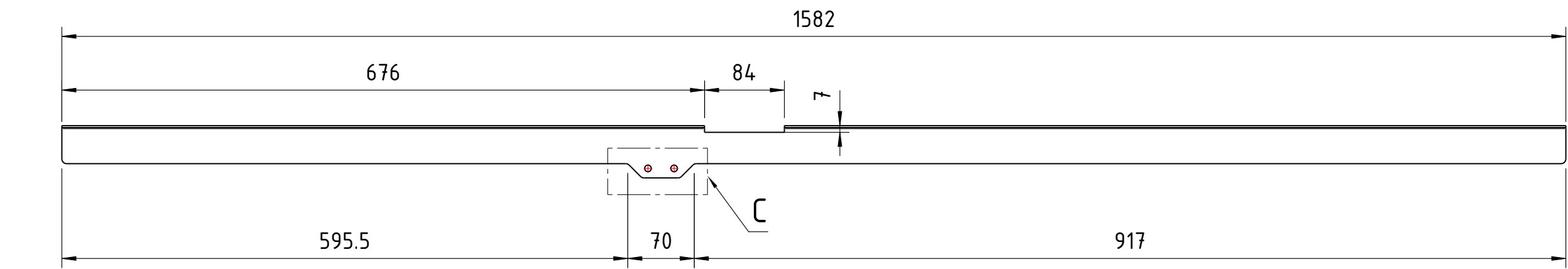
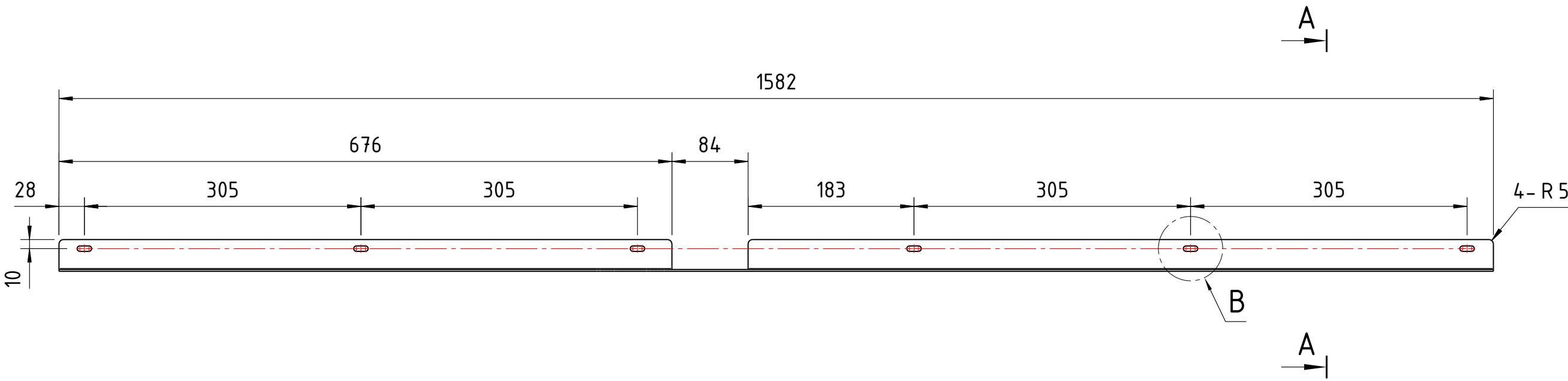
Beyond Possibilities

BANGALORE COMPLEX

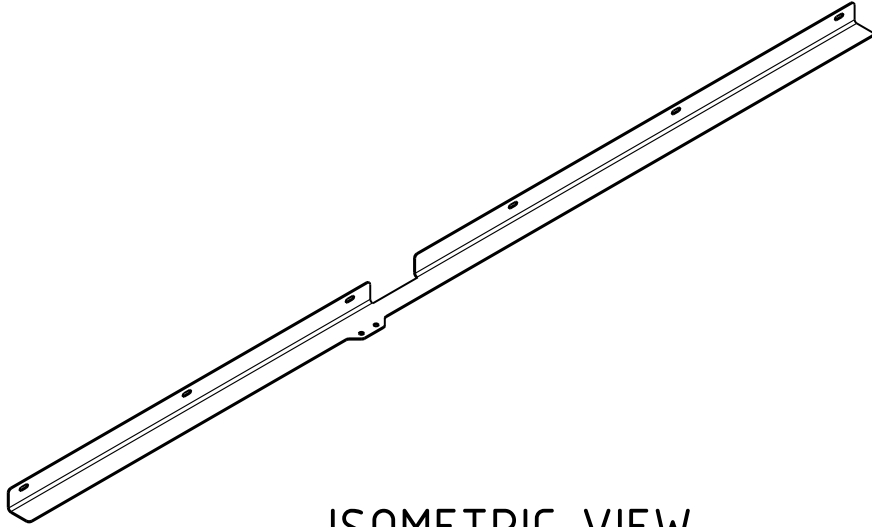
A3

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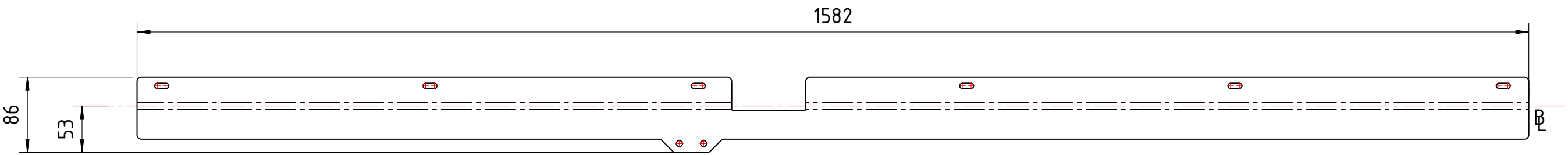
GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12
VALUE	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
SYMBOL												
SURFACE ROUGHNESS												



DETAIL-C
1:1



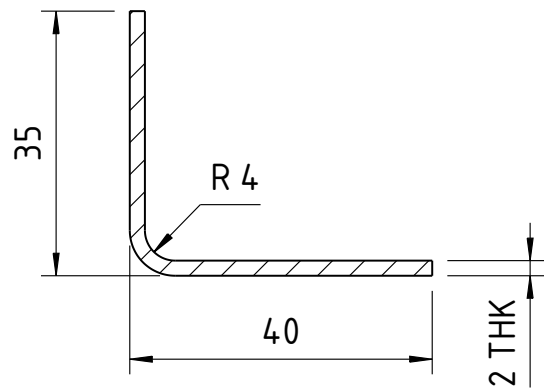
ISOMETRIC VIEW



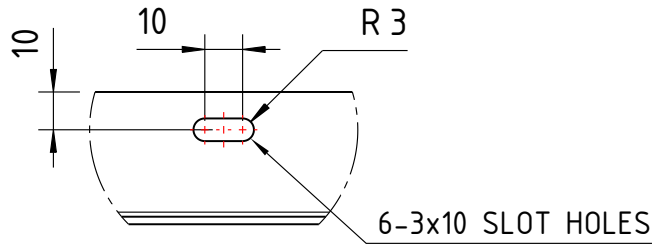
DEVELOPED VIEW WITH BENDING LINE DETAILS

- NOTES
1. ALL DIMENSIONS ARE IN mm.
 2. REMOVE ALL SHARP EDGES & BURRS.
 3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 4. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

3	2					1				
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000	
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2					
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.					
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:	PROTO/PRODUCTION			
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817			WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3							
INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5										



SECTION A-A
1:1

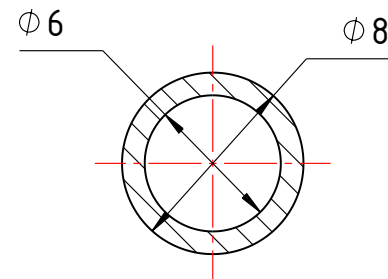
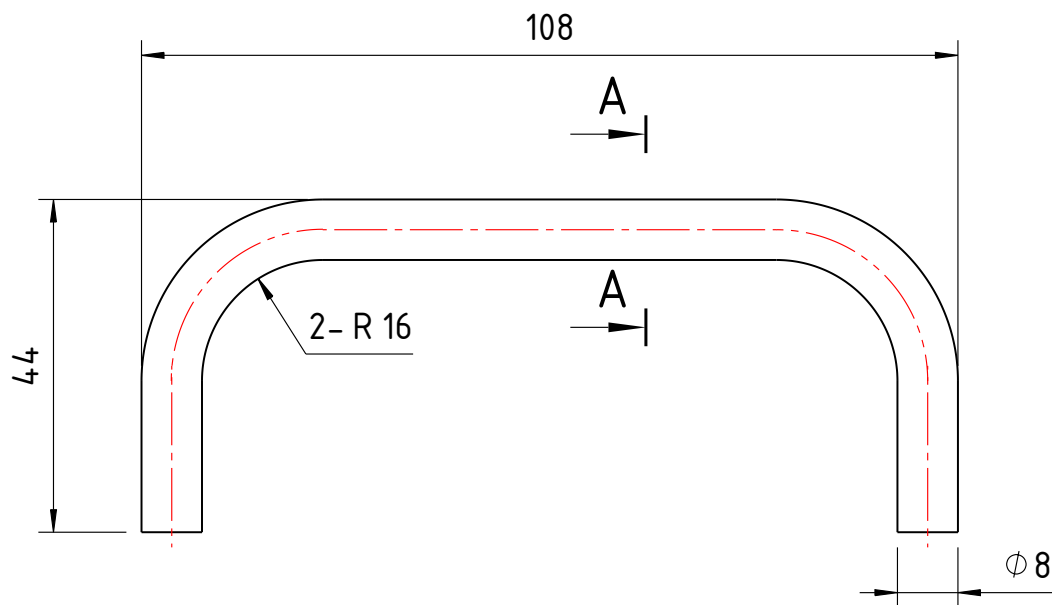


DETAIL-B
1:2

UN CONTROLLED

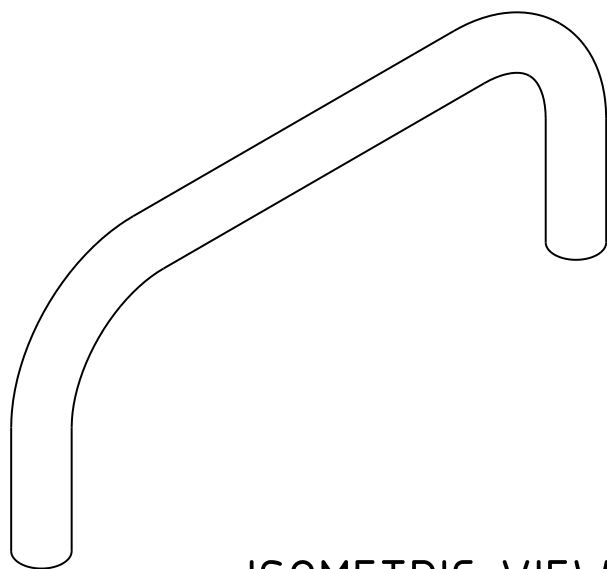
		----				1582x86x2THK					
SL.No.	QTY	PART / STOCK No.		DESCRIPTION		SIZE (mm)	COMPANY STD./I.S		Wt. (Kg)		
							MATERIAL				
					PRODUCT	TRAIN B28					
					REF DRG	--					
					MATERIAL	EN AW-5083-H111, EN485 / A 5083-H111, ASTM B 209					
					HEAT TREAT.	--	APPD	KRISHNA PRASAD	14.05.26		
					SURFACE TREAT.	--	REVD	KRISHNA PRASAD	14.05.26		
					TITLE	ANGLE		CHKD	SANTOSH KUMAR	14.05.26	
							DRWN	R ABINAYA	14.05.26		
							SCALE		SHEET	Wt.(kg)	
							1:5		1 OF 1	0.59	
						DRG No.				ALT	
ALT.No.	ECN No./CHANGES		DATE	BY	CHKD	APPD	 BANGALORE COMPLEX		843-18225		0

		2				1				
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000	
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2					
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.					
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3		WELDING PROCESS SHALL BE AS PER EN ISO-4063				STATUS:	PROTO/PRODUCTION			
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553		WELDING POSITIONS SHALL BE AS PER EN ISO 6947								
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817										
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5						



SECTION A-A

3:1



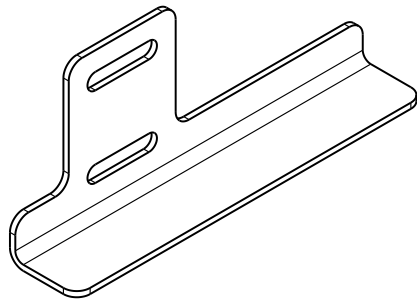
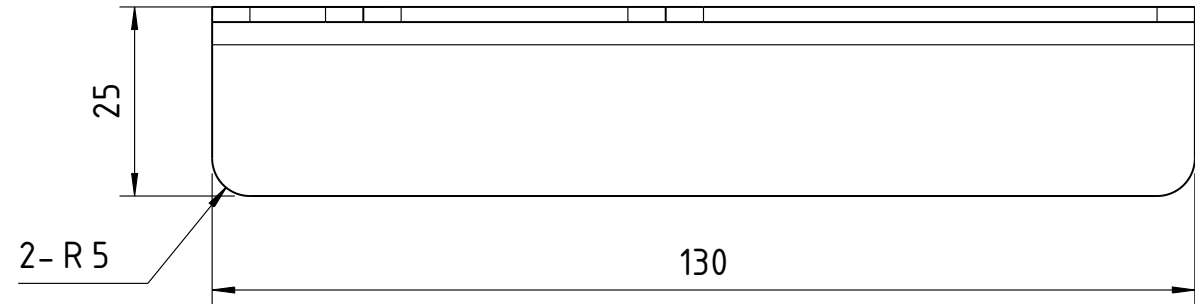
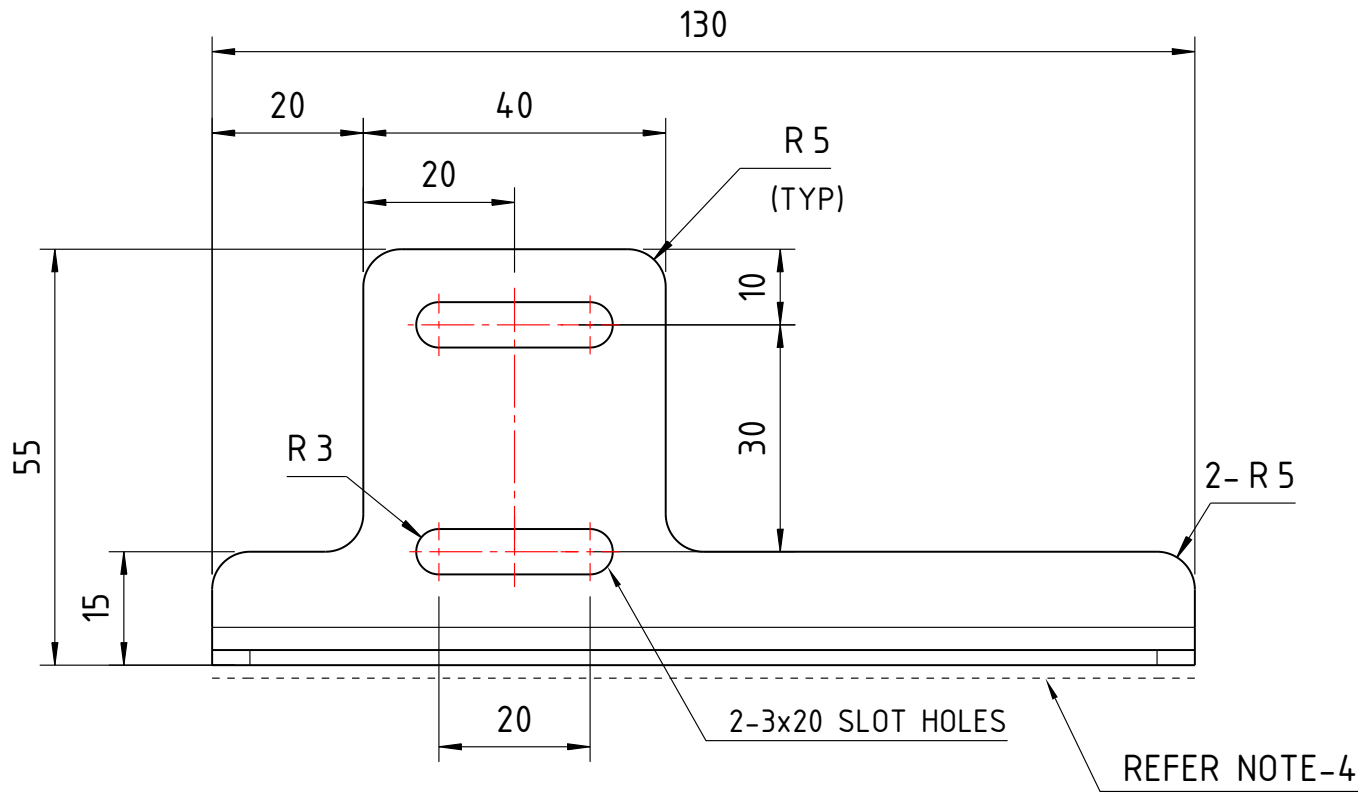
ISOMETRIC VIEW

NOTES

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

UN CONTROLLED

							L=163mm		
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S Wt. (Kg)				
					MATERIAL				
					PRODUCT	TRAIN B28			
					REF DRG	---			
					MATERIAL	EN AW-6060-T5, EN 755 / A 6060-T5, ASTM B 221			
					HEAT TREAT.	---	APPD	KRISHNA PRASAD	04.06.26
					SURFACE TREAT.	---	REVD	KRISHNA PRASAD	04.06.26
					TITLE	WIRE SUPPORT	CHKD	SANTOSH KUMAR	04.06.26
							DRWN	R ABINAYA	04.06.26
							SCALE		SHEET
						1:1		1 OF 1	0.01
ALT.No.	ECN No./CHANGES	DATE	BY	CHKD	APPO	DRG No.		ALT	
						BANGALORE COMPLEX			
						Beyond Possibilities		843-18777	

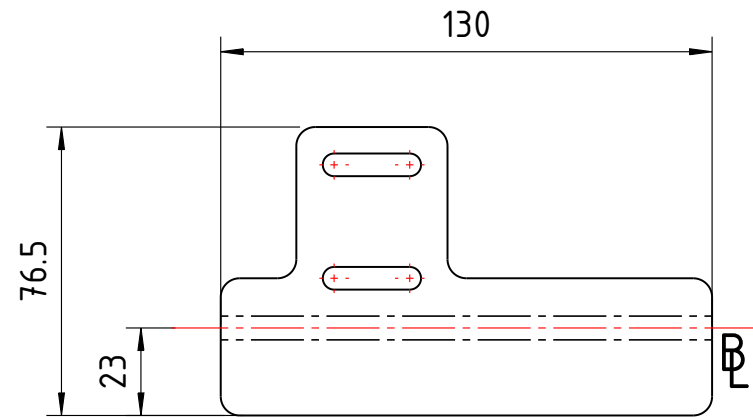
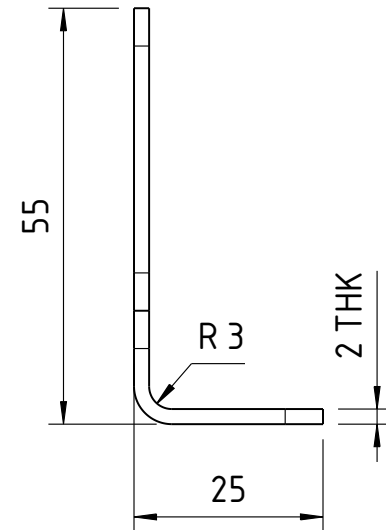


ISOMETRIC VIEW

NOTES

- ALL DIMENSIONS ARE IN mm.
- REMOVE ALL SHARP EDGES & BURRS.
- COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
- SHOWN SURFACE SHALL BE POWDER COATED TO RAL 9016, 30% GLOSSINES / SATIN.
- THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

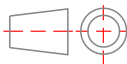
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 – 3	3 – 6	6 – 30	30 – 120	120 – 400	400 – 1000	1000 – 2000	2000 – 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3		WELDING PROCESS SHALL BE AS PER EN ISO-4063				STATUS:	PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553		WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



DEVELOPED VIEW WITH BENDING LINE DETAILS

UN CONTROLLED

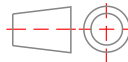
SL.NO.	PART NO	DESCRIPTION
1	843-18497-300	AS DRAWN
2	843-18497-301	OPP HAND DRAWN

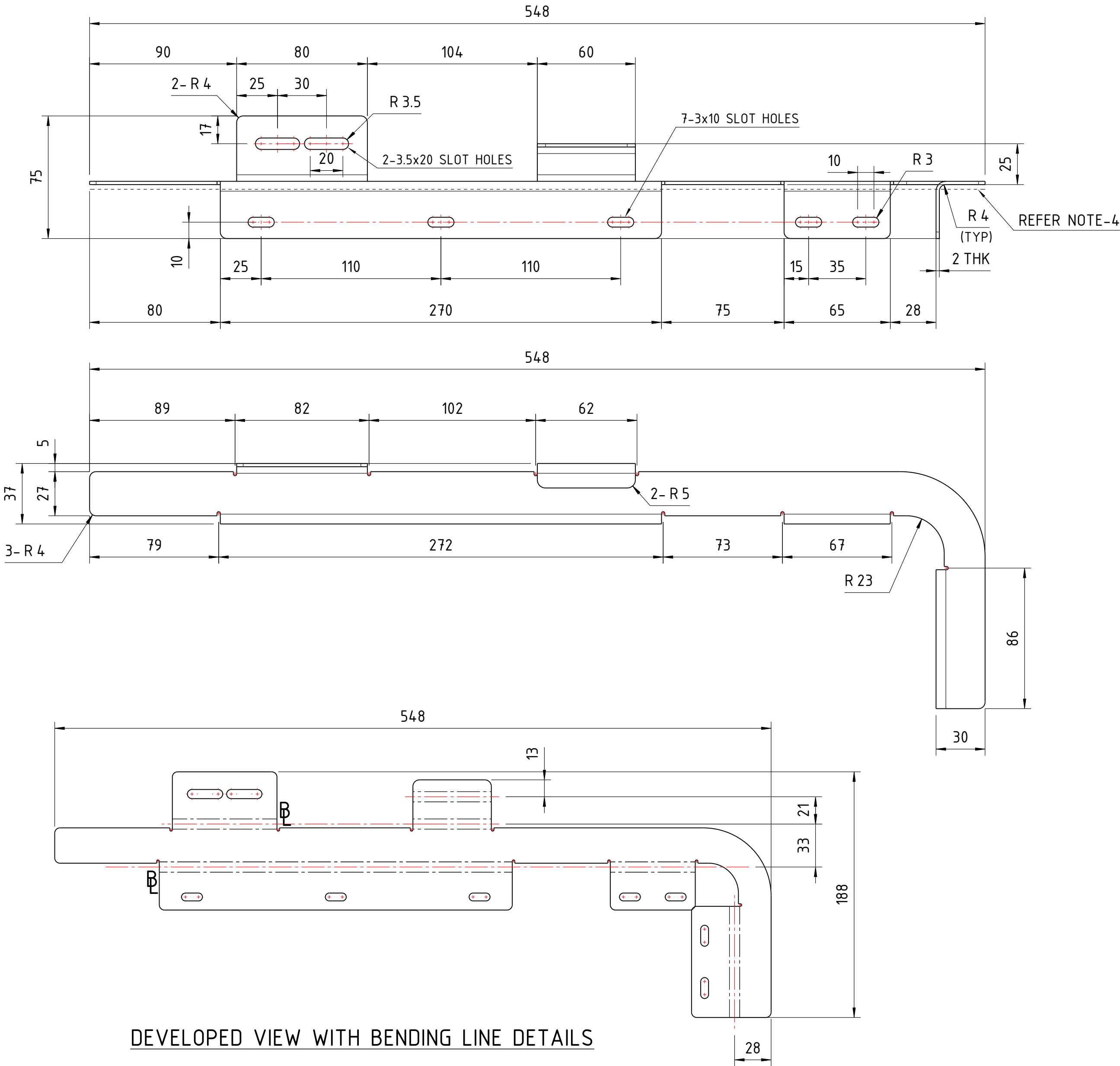
										130x76.5x2THK				
SL.No.	QTY	PART / STOCK No.				DESCRIPTION				SIZE (mm)		COMPANY STD./I.S Wt. (Kg)		
												MATERIAL		
						PRODUCT	TRAIN B28							
						REF DRG	---							
						MATERIAL	EN AW-5083-H111, EN485 / A 5083-H111, ASTM B 209							
						HEAT TREAT.	---		APPD	KRISHNA PRASAD		14.05.26		
						SURFACE TREAT.	---		REVD	KRISHNA PRASAD		14.05.26		
						TITLE			CHKD	SANTOSH KUMAR		14.05.26		
						BRACKET		DRWN	R ABINAYA		14.05.26			
								SCALE			SHEET	Wt.(kg)		
								1:1			1 OF 1	0.03		
						 BANGALORE COMPLEX				DRG No.		843-18497		ALT
ALT.No.	ECN No./CHANGES				DATE	BY	CHKD	APPD						

GRADE No.	VALUE	SYMBOL
SURFACE ROUGHNESS		

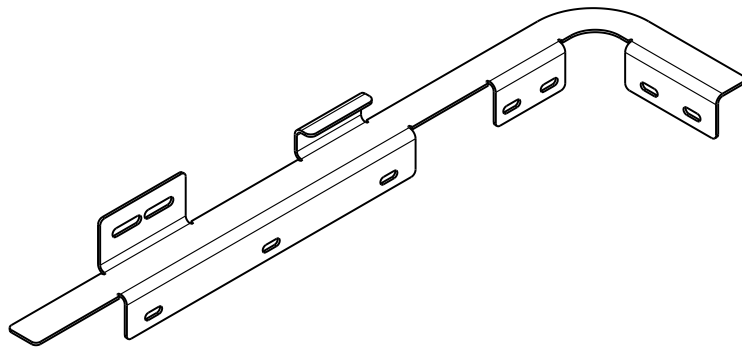
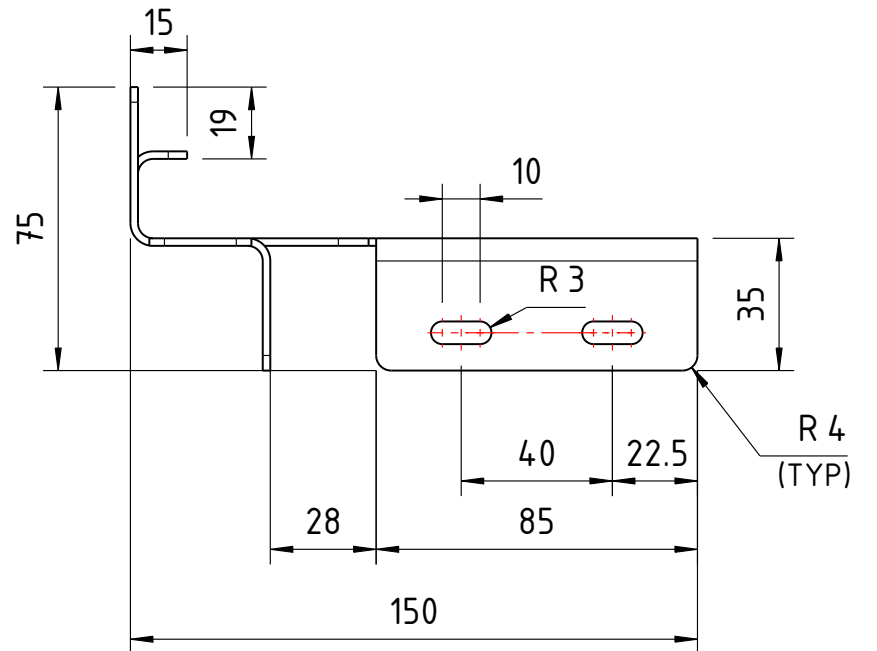


- ## NOTES

								1582x71x2THK				
SL.No.	QTY	PART / STOCK No.	DESCRIPTION						SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)	
										MATERIAL		
								PRODUCT	TRAIN B28			
								REF DRG	---			
								MATERIAL	EN AW-5083-H111, EN485 / A 5083-H111, ASTM B 209			
								HEAT TREAT.	---	APPD	KRISHNA PRASAD	23.03.26
								SURFACE TREAT.	---	REVD	KRISHNA PRASAD	23.03.26
								TITLE		CHKD	SANTOSH KUMAR	23.03.26
								ANGLE		DRWN	R ABINAYA	23.03.26
									SCALE		SHEET	Wt.(kg)
									1:10		1 OF 1	0.59
ALT.No.	ECN No./CHANGES		DATE	BY	CHKO	APPD	 BANGALORE COMPLEX			DRG No. 843-18536		ALT 



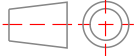
3		2				1				
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM		RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
		TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1						GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920						VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:		PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817										
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3						INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5				



ISOMETRIC VIEW

SL.NO.	PART NO.	DESCRIPTION
1	843-18537-300	AS DRAWN
2	843-18537-301	OPP HAND DRAWN

UN CONTROLLED

		----				548x188x2THK				
SL.No.	QTY	PART / STOCK No.			DESCRIPTION		SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)	
								MATERIAL		
					PRODUCT	TRAIN B28				
					REF DRG	--				
					MATERIAL	EN AW-5083-H111, EN485 / A 5083-H111, ASTM B 209				
					HEAT TREAT.	--	APPD	KRISHNA PRASAD	22.04.26	
					SURFACE TREAT.	--	REVD	KRISHNA PRASAD	22.04.26	
					TITLE	ANGLE		CHKD	SANTOSH KUMAR	22.04.26
					DRWN			R ABINAYA	22.04.26	
					SCALE				SHEET	1 OF 1
ALT.No.	ECN No./CHANGES			DATE	BY	CHKD	APPD	DRG No.		
								BANGALORE COMPLEX		
								843-18537		
								ALT		

3

2

1

A2

- NOTES
1. ALL DIMENSIONS ARE IN mm.
 2. REMOVE ALL SHARP EDGES & BURRS.
 3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.
 5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

PRIOR WRITTEN PERMISSION OF BEM Limited



1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.
5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

The drawing consists of two views of a mechanical part. The top view is a side elevation showing a horizontal profile with a total length of 190. A dashed red line indicates the centerline. A vertical line at the right end marks the location of cross-section A-A. The bottom view is a cross-section A-A, showing an L-shaped profile. The vertical leg has a thickness of 2 THK and a height of 42. The horizontal leg has a width of 12 and a fillet radius of R 2. A leader line points to the horizontal leg with the text "REFER NOTE-4".

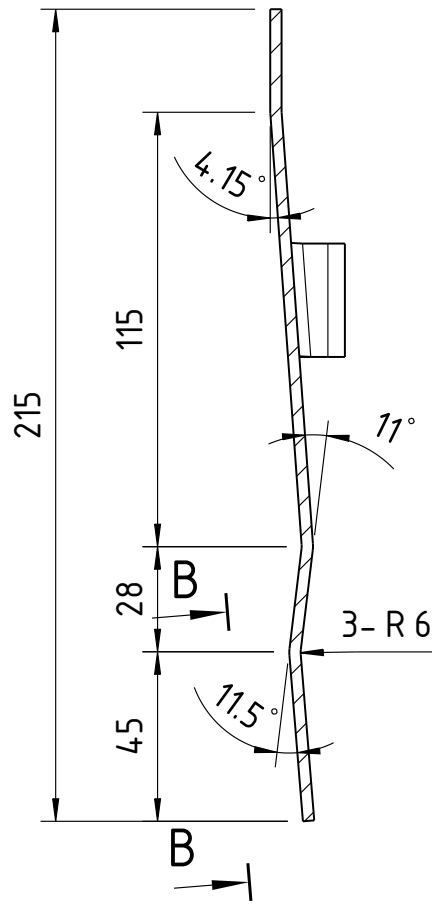
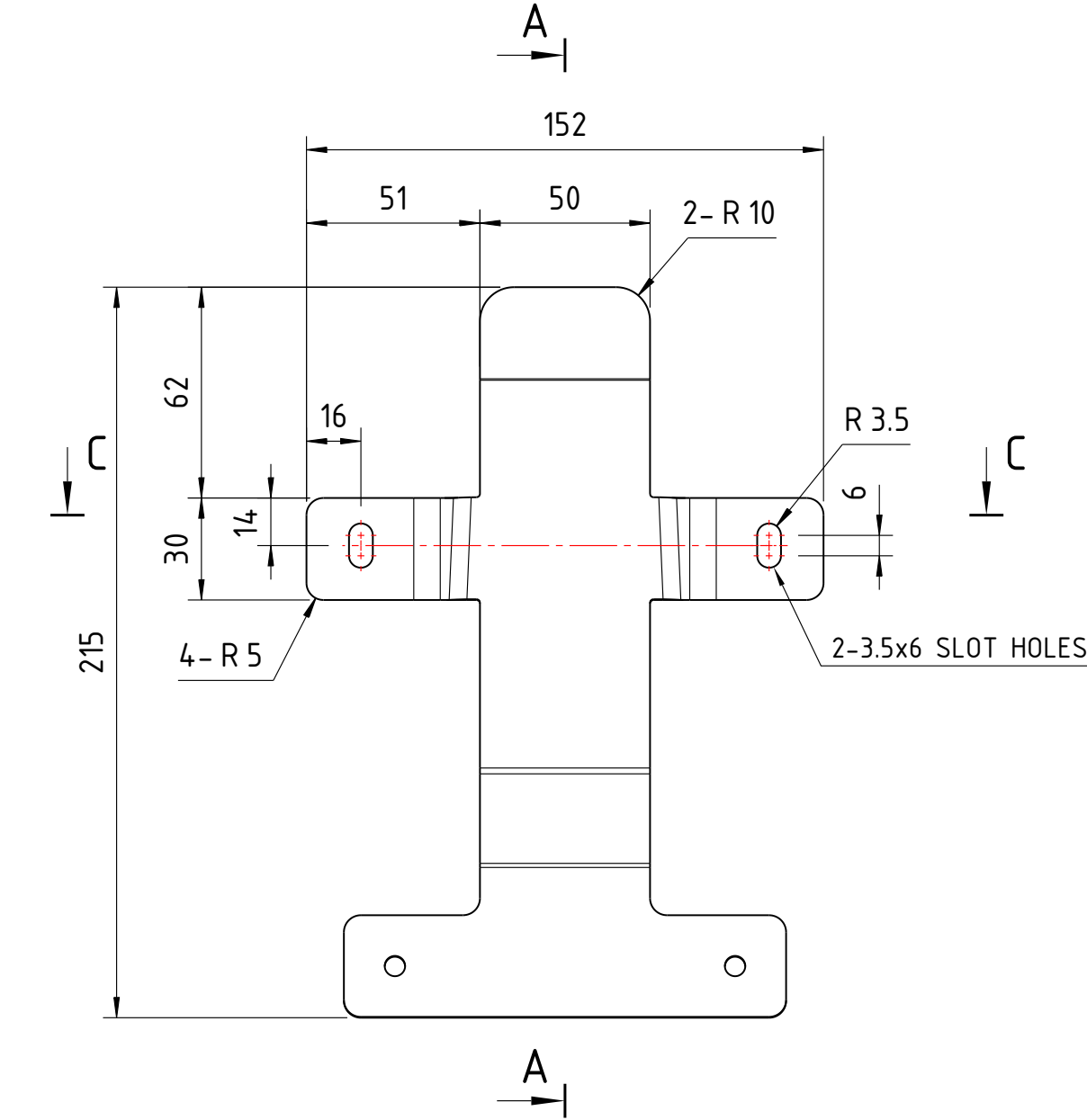
UN CONTROLLED

		2				1				
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 – 3	3 – 6	6 – 30	30 – 120	120 – 400	400 – 1000	1000 – 2000	2000 – 4000	
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2					
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.					
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3		WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:		PROTO/PRODUCTION			
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553		WELDING POSITIONS SHALL BE AS PER EN ISO 6947								
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817										
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3 INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5										

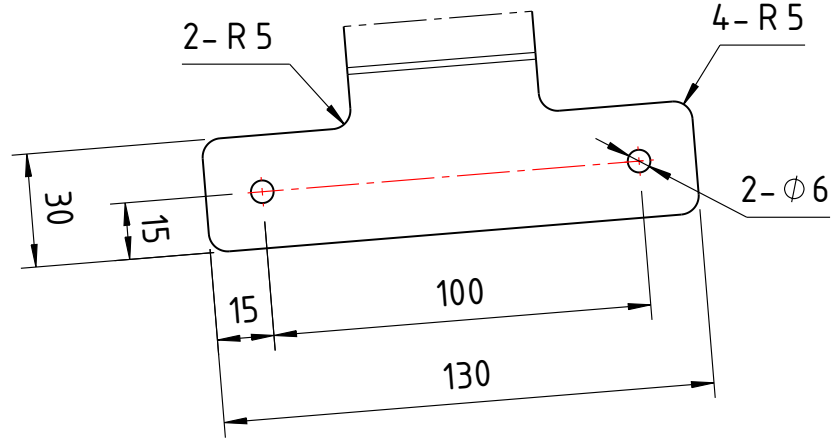
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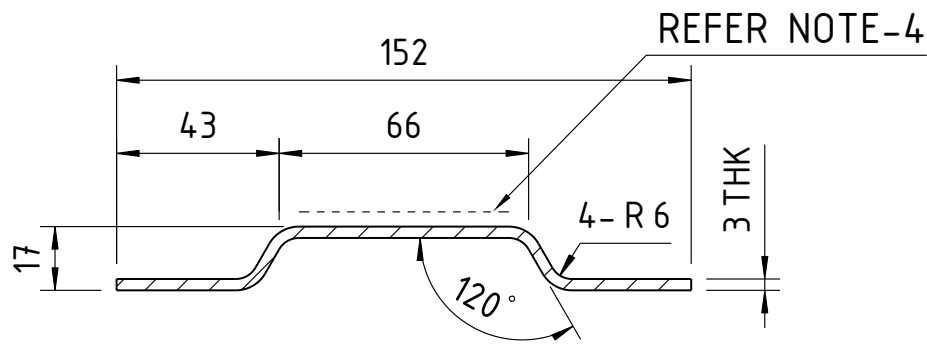
GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12
VALUE	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
SYMBOL												
SURFACE ROUGHNESS												



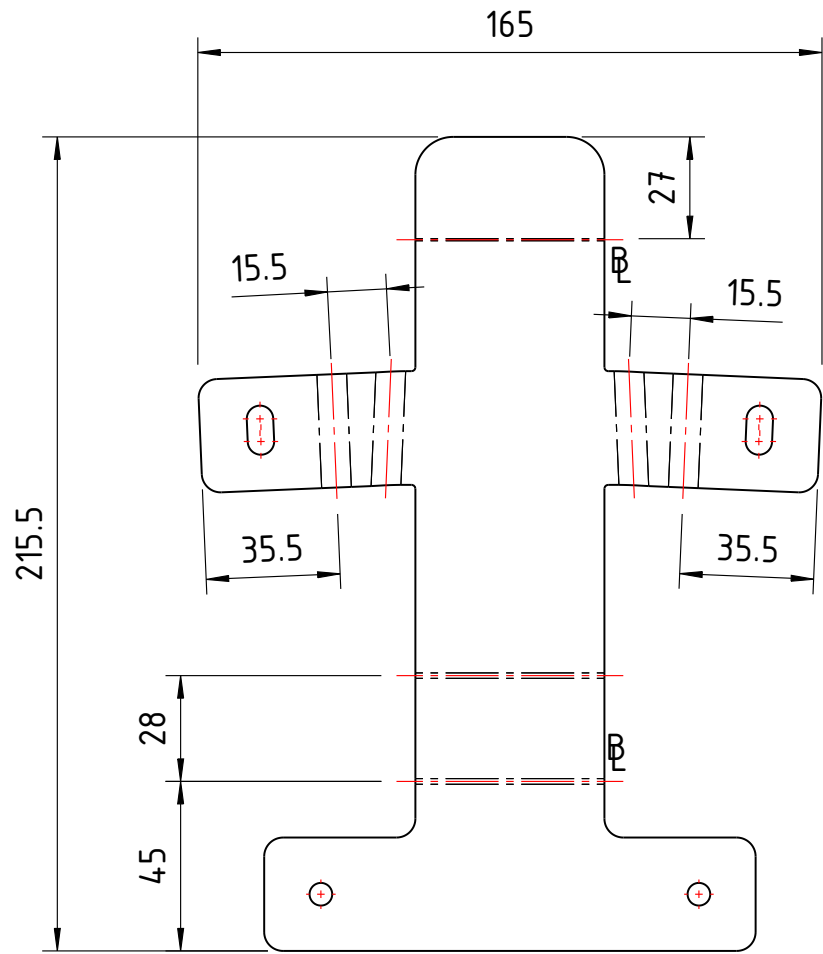
SECTION A-A
1:2



SECTION B-B
1:2



SECTION C-C
1:2

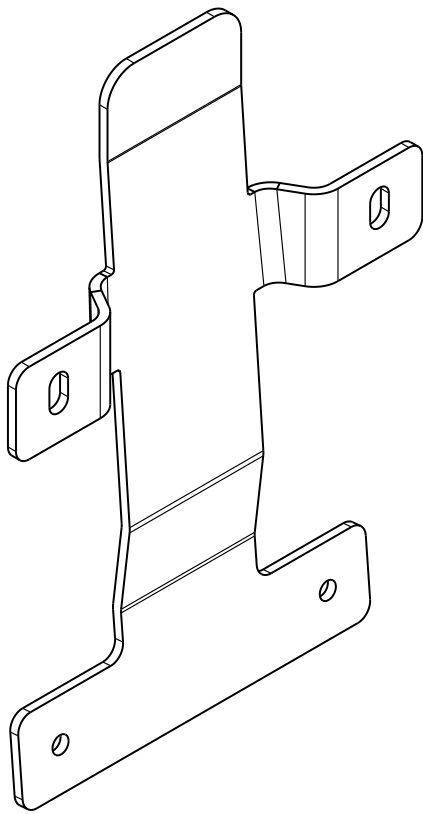


DEVELOPED VIEW WITH BENDING LINE DETAILS

NOTES

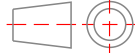
1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.
5. THE PART SHALL COMPLY TO TDC NO: FPIC/TD/077.

3		2						1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM		RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000	
		TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1						GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2					
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920						VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.					
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3				WELDING PROCESS SHALL BE AS PER EN ISO-4063				STATUS: PROTO/PRODUCTION			
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553				WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817											
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3						INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



ISOMETRIC VIEW

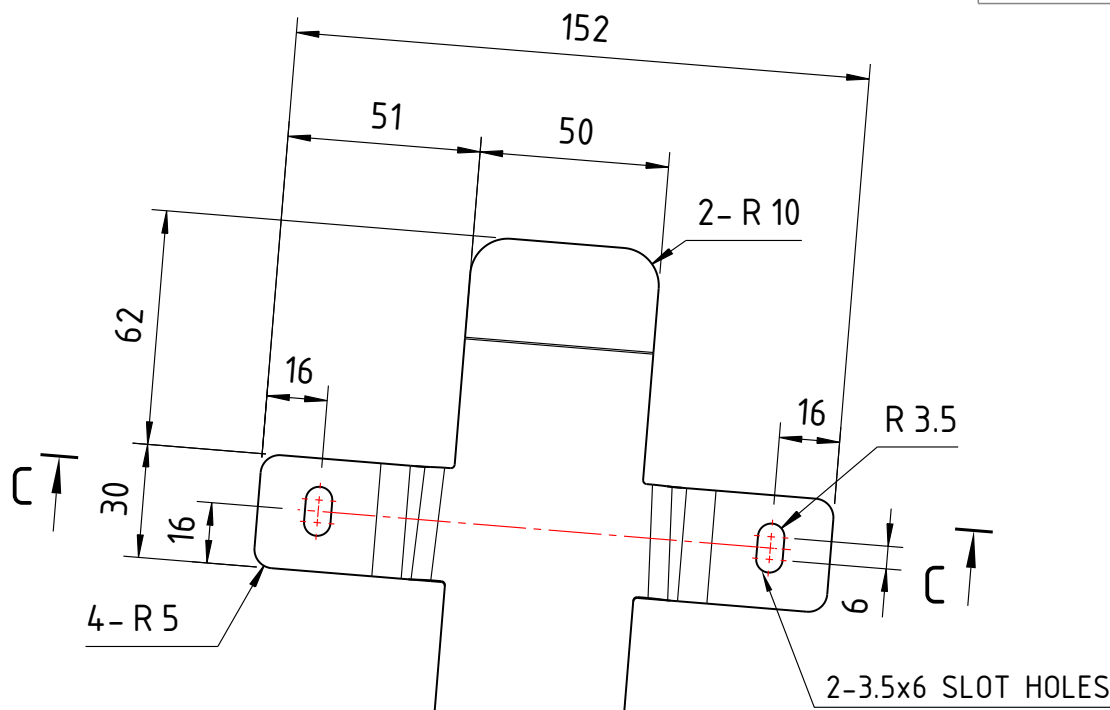
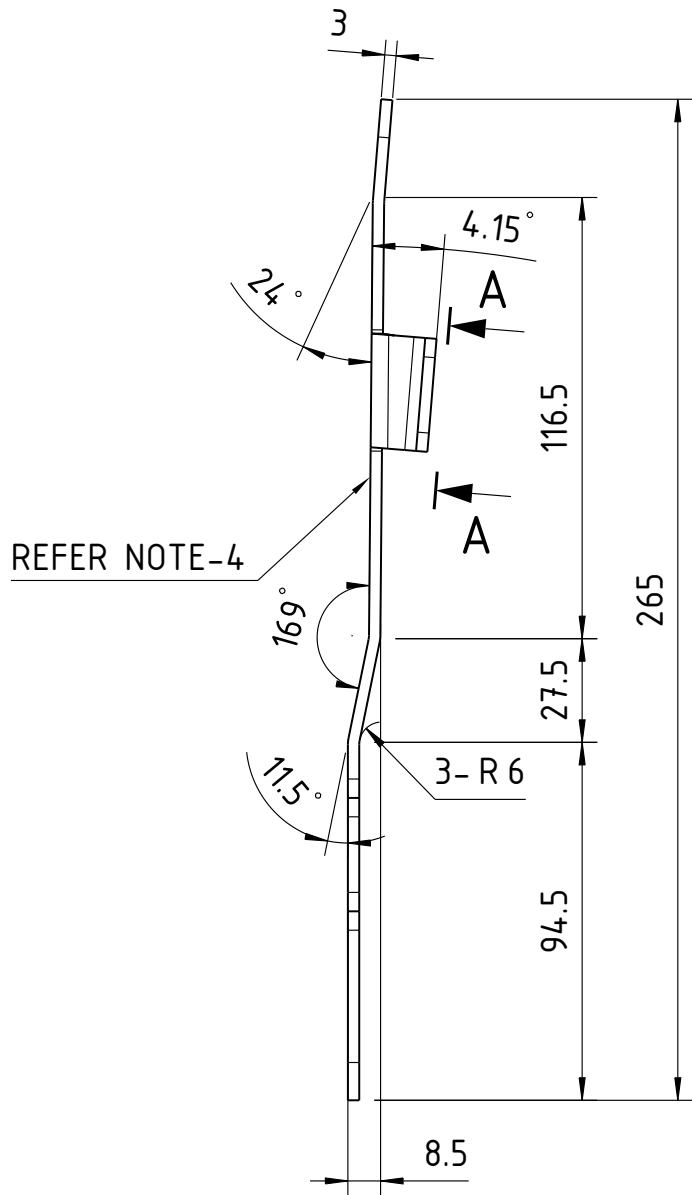
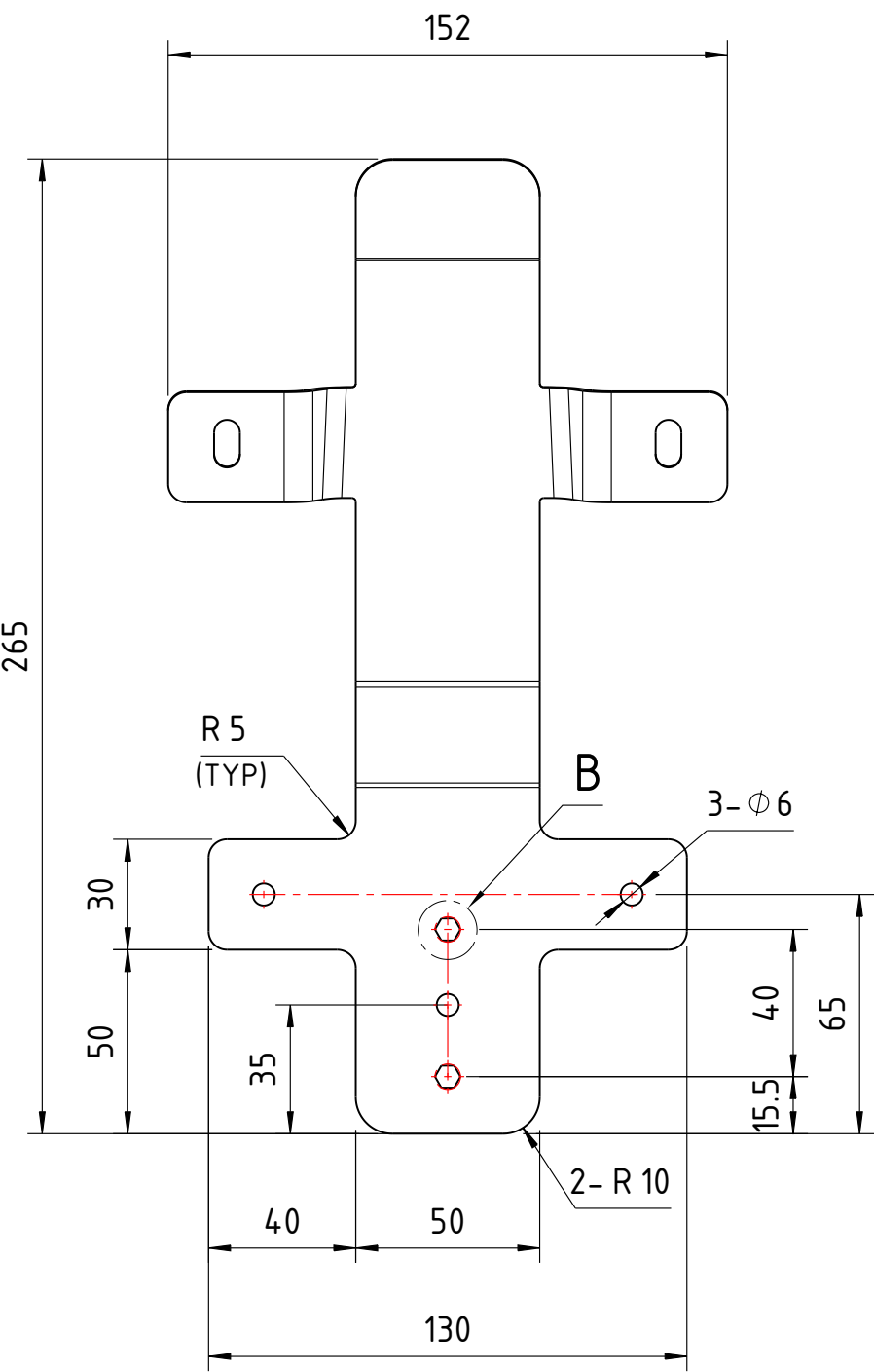
UN CONTROLLED

		----		215.5x165x3THK						
SL.No.	QTY	PART / STOCK No.		DESCRIPTION		SIZE (mm)		COMPANY STD./I.S	Wt. (Kg)	
						MATERIAL				
					PRODUCT	TRAIN B28				
					REF DRG	--				
					MATERIAL	EN AW-5754-H22, EN 485 / A5052-H32, ASTM B 209				
					HEAT TREAT.	--	APPD	KRISHNA PRASAD	02.06.26	
					SURFACE TREAT.	--	REVD	KRISHNA PRASAD	02.06.26	
					TITLE	PROFILE				
						CHKD	SANTOSH KUMAR		02.06.26	
						DRWN	R ABINAYA		02.06.26	
						SCALE		SHEET	Wt.(kg)	
						1:2		1 OF 1	0.13	
						DRG No.	843-19146			ALT
ALT.No.	ECN No./CHANGES			DATE	BY	CHKD	APPD			
						BANGALORE COMPLEX				
										

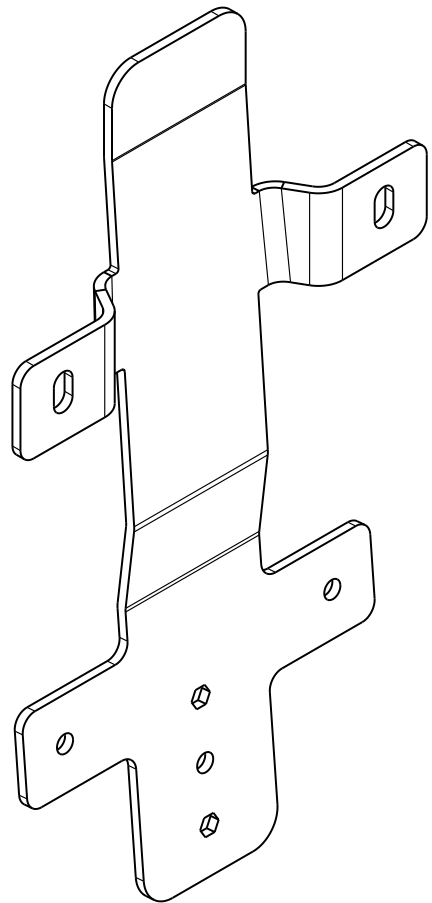
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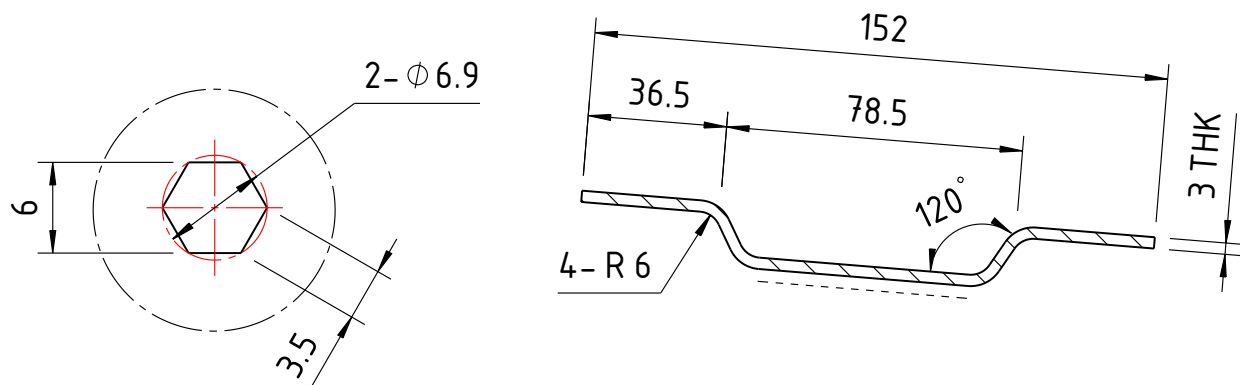
GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12
VALUE	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
SYMBOL												
SURFACE ROUGHNESS												



AUXILIARY VIEW A
1:2

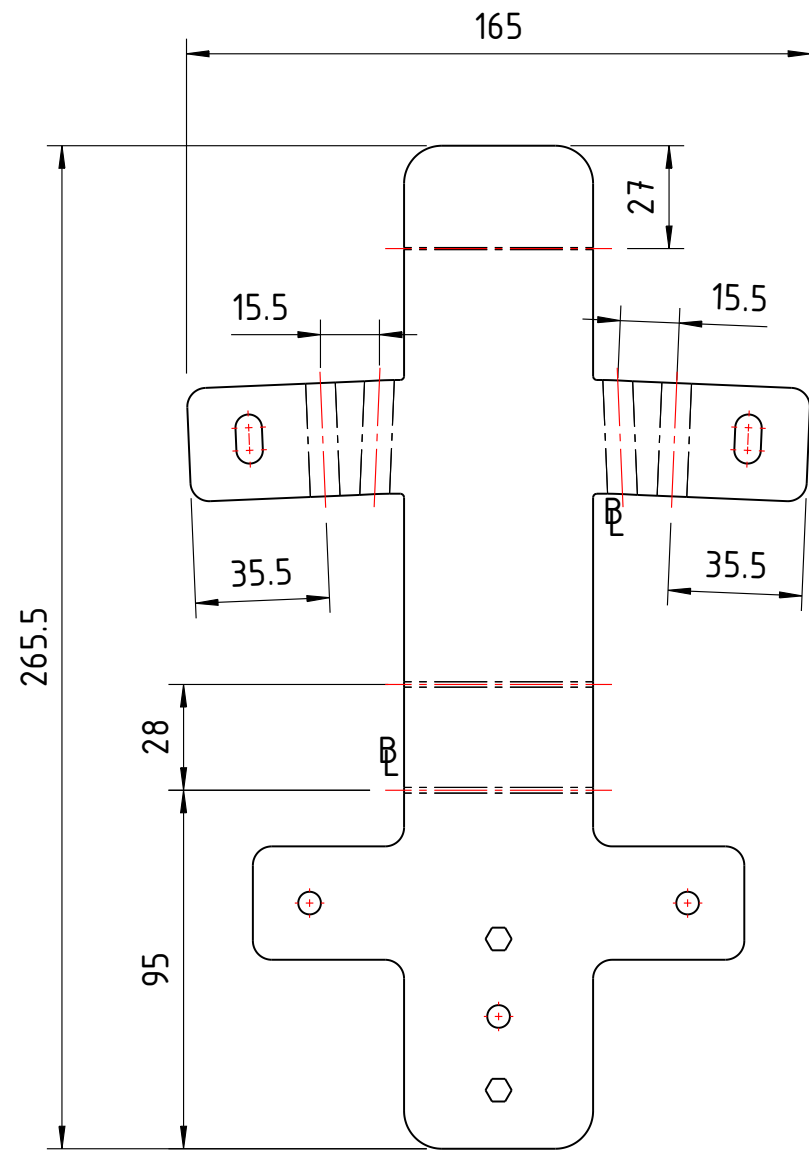


ISOMETRIC VIEW



DETAIL-B
2:1

SECTION C-C
1:2



DEVELOPED VIEW WITH BENDING LINE DETAILS

NOTES

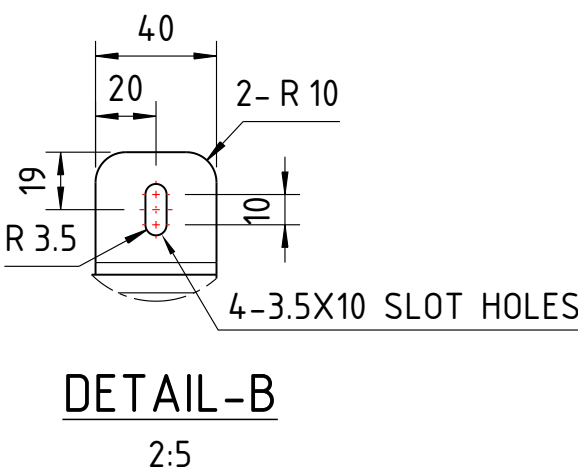
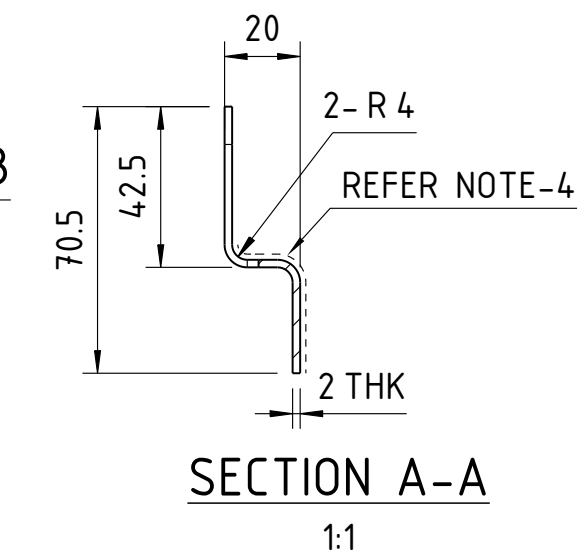
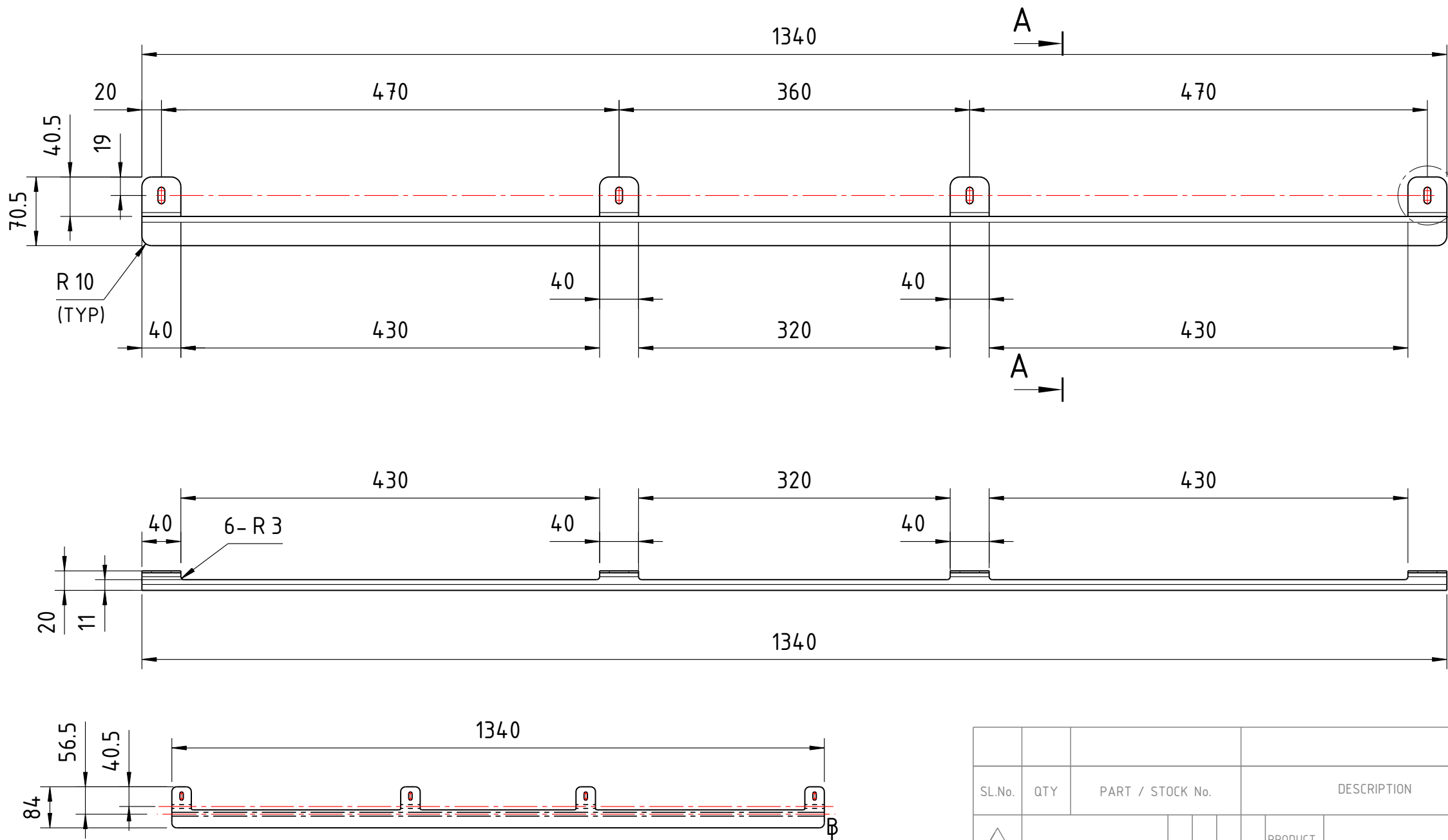
1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.
5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

3		2																
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM		RANGE	0.5 - 3		3 - 6		6 - 30		30 - 120		120 - 400		400 - 1000		1000 - 2000		2000 - 4000	
		TOLERANCE	±0.1		±0.1		±0.2		±0.3		±0.5		±0.8		±1.2		±2	
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1										GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2								
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920										VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.								
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3					WELDING PROCESS SHALL BE AS PER EN ISO-4063					STATUS:		PROTO/PRODUCTION						
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553					WELDING POSITIONS SHALL BE AS PER EN ISO 6947													
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817																		
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3										INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5								

UN CONTROLLED

		----		265.5x165x3THK			
SL.No.	QTY	PART / STOCK No.		DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)
△				PRODUCT	TRAIN B28		
				REF DRG	--		
				MATERIAL	EN AW-5754-H22, EN 485 / A5052-H32, ASTM B 209		
				HEAT TREAT.	--	APPD KRISHNA PRASAD	02.06.26
				SURFACE TREAT.	--	REVD KRISHNA PRASAD	02.06.26
△				TITLE	PROFILE	CHKD SANTOSH KUMAR	02.06.26
						DRWN R ABINAYA	02.06.26
						SCALE 1:2	SHEET 1 OF 1
ALT.No.	ECN No./CHANGES	DATE	BY	CRD	APPD	BANGALORE COMPLEX	
						843-19151	
						ALT 0	

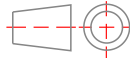
		2				1				
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000	
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2					
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.					
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3		WELDING PROCESS SHALL BE AS PER EN ISO-4063				STATUS:	PROTO/PRODUCTION			
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553		WELDING POSITIONS SHALL BE AS PER EN ISO 6947								
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817										
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5						



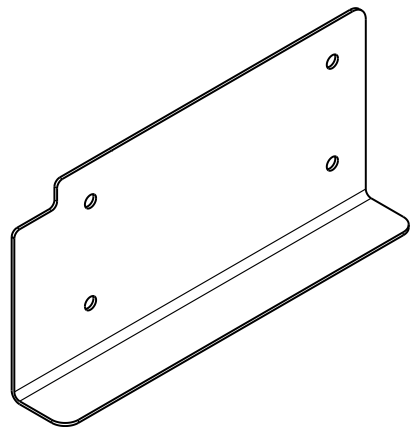
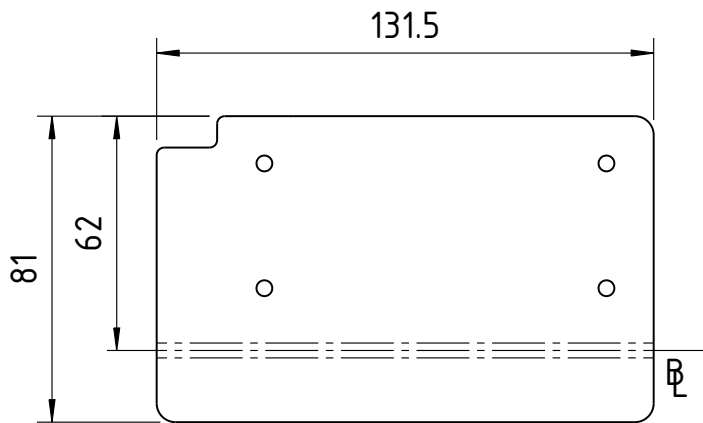
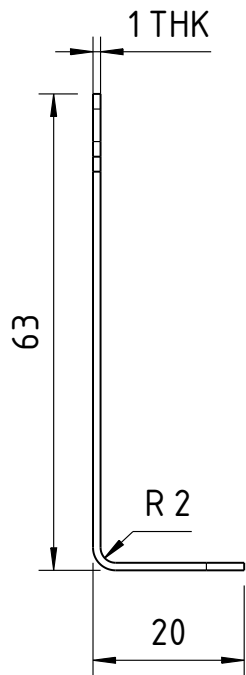
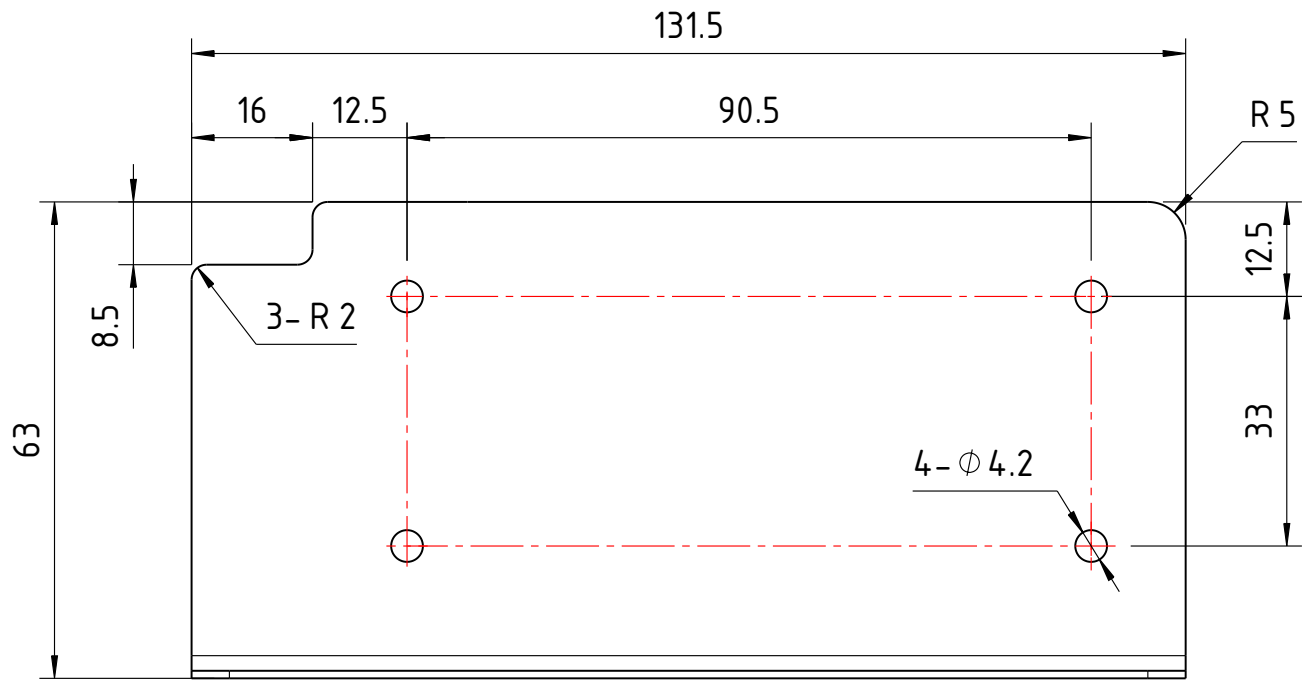
DEVELOPED VIEW WITH BENDING LINE DETAILS

NOTES:

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN PART SHALL BE POWDER COATED TO RAL 9005 , 30% GLOSSINES / SATIN.
5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

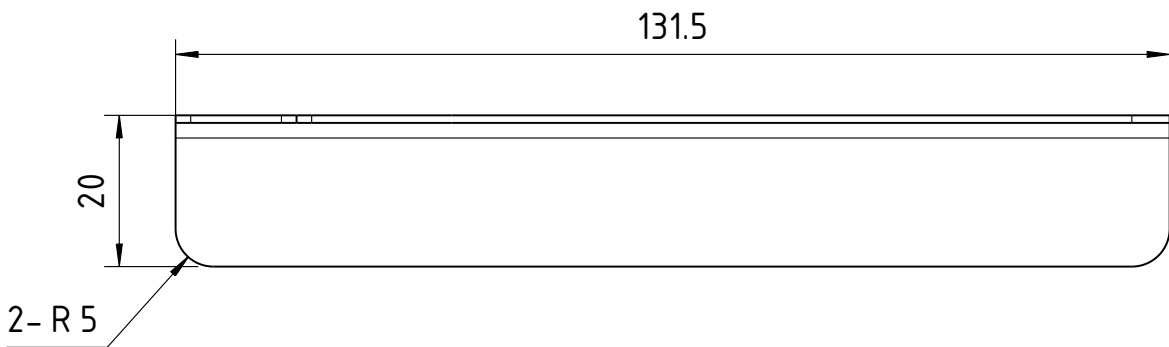
										1340x84x2THK									
SL.No.	QTY	PART / STOCK No.				DESCRIPTION				SIZE (mm)		COMPANY STD./I.S Wt. (Kg)							
												MATERIAL							
						PRODUCT	TRAIN B28												
						REF DRG	---												
						MATERIAL	EN AW-5754-H22, EN 485 / A5052-H32, ASTM B 209												
						HEAT TREAT.	---				APPD	KRISHNA PRASAD		12.04.26					
						SURFACE TREAT.	---				REVD	KRISHNA PRASAD		12.04.26					
						TITLE	BACKGROUND				CHKD	SANTOSH KUMAR		12.04.26					
											DRWN	R ABINAYA		12.04.26					
											SCALE			SHEET	Wt.(kg)				
											1:5			1 OF 1	0.31				
ALT.No.	ECN No./CHANGES				DATE	BY	CHKD	APPD	 BANGALORE COMPLEX				DRG No.		843-19552		ALT		

		2				1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3		WELDING PROCESS SHALL BE AS PER EN ISO-4063				STATUS:	PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553		WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



ISOMETRIC VIEW

DEVELOPED VIEW WITH BENDING LINE DETAILS



NOTES:

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN PART SHALL BE POWDER COATED TO RAL 9016 , 30% GLOSSINES / SATIN.
5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

UN CONTROLLED

SL.NO.	PART NO.	DESCRIPTION
1	843-19579-300	AS DRAWN
2	843-19579-301	OPP HAND DRAWN

										131.5x81x1THK							
SL.No.	QTY	PART / STOCK No.				DESCRIPTION				SIZE (mm)				COMPANY STD./I.S		Wt. (Kg)	
														MATERIAL			
						PRODUCT	TRAIN B28										
						REF DRG	---										
						MATERIAL	EN AW-5754-H22, EN 485 / A5052-H32, ASTM B 209										
						HEAT TREAT.	---				APPD	KRISHNA PRASAD		09.04.26			
						SURFACE TREAT.	---				REVD	KRISHNA PRASAD		09.04.26			
						TREAT. TITLE	BACKGROUND				CHKD	SANTOSH KUMAR		09.04.26			
DRWN	R ABINAYA		09.04.26														
SCALE			SHEET	Wt.(kg)													
1:1			1 OF 1	0.03													
						 BANGALORE COMPLEX				DRG No.		843-19579		ALT			
ALT.No.	ECN No./CHANGES				DATE	BY	CHKD	APPD									

Technical drawing of a mechanical part, likely a bracket or plate, showing dimensions and features. The drawing includes a top view and a side view.

Top View Dimensions:

- Overall width: 120
- Overall height: 77.5
- Top horizontal segments: 30, 60
- Bottom horizontal segments: 10, 40, 20, 40
- Left vertical segments: 30, 27.5
- Right vertical segments: 10, 37.5, 10
- Bottom right corner radius: R5 (TYP)
- Top right corner radius: R3.3
- Internal horizontal segments: 10, 40, 20, 40
- Internal vertical segments: 20, 15
- Angle: 132.5°
- 4 - $\phi 6.6$ holes
- 2 - 3.3x20 SLOT HOLES

Side View:

- Thickness: 2 THK

NOTES:

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

A4

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		~	△			△					△	△	△

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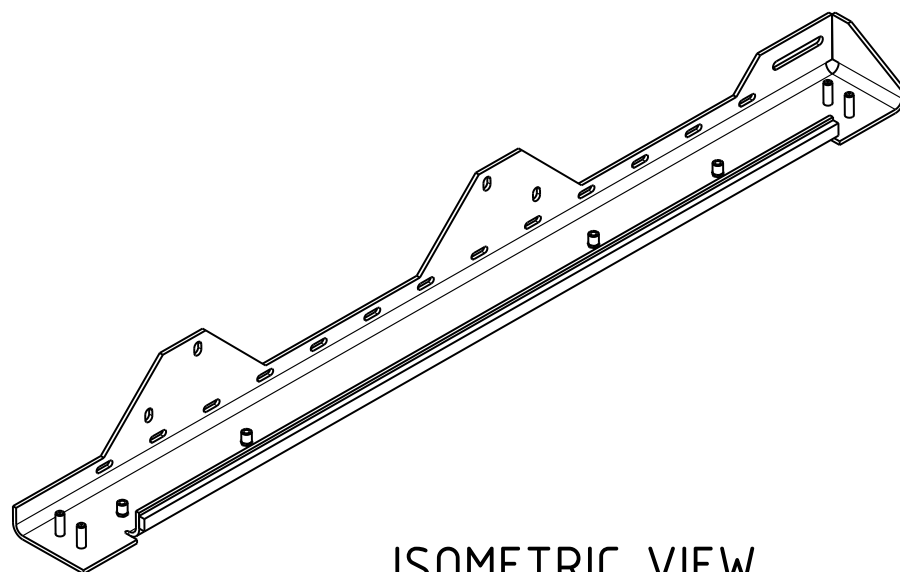
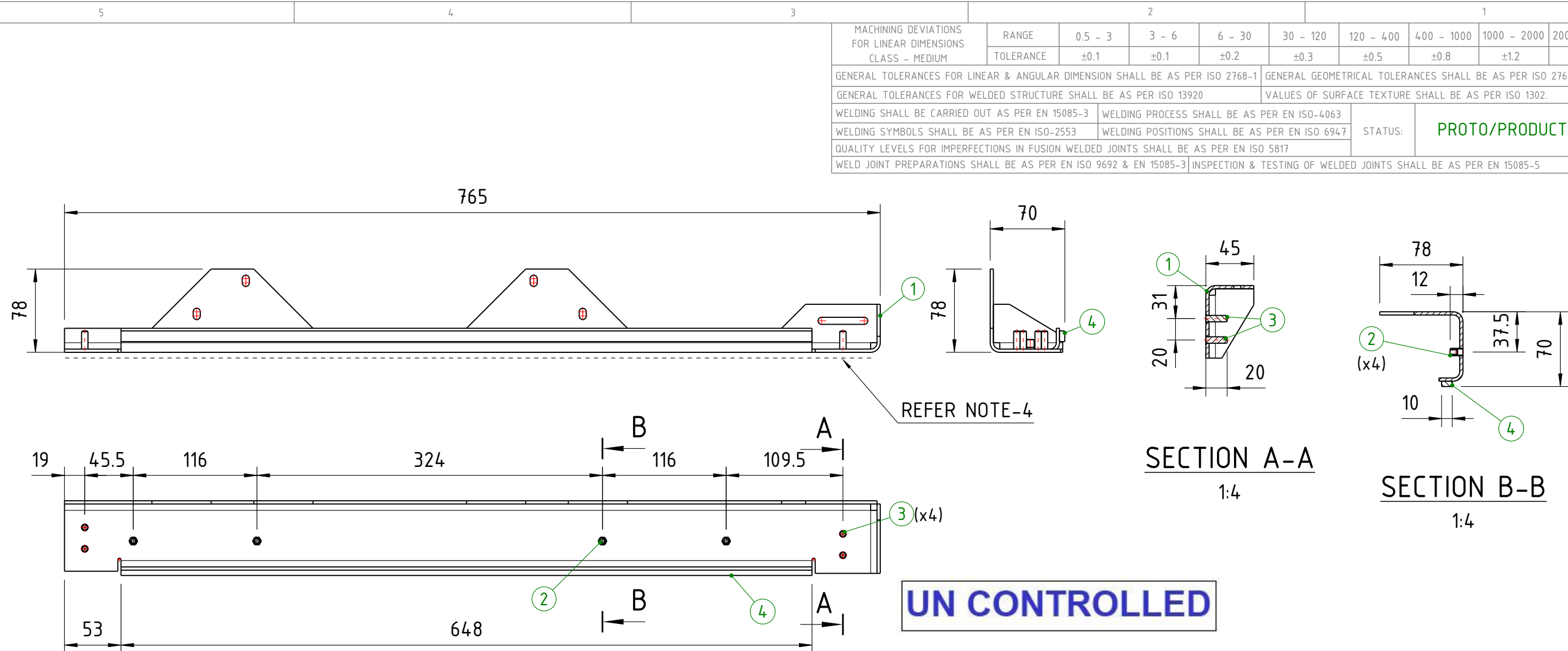
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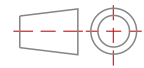
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MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 – 3	3 – 6	6 – 30	30 – 120	120 – 400	400 – 1000	1000 – 2000	2000 – 4000	
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2					
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.					
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3		WELDING PROCESS SHALL BE AS PER EN ISO-4063				STATUS:		PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553		WELDING POSITIONS SHALL BE AS PER EN ISO 6947								
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817										
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5						



ISOMETRIC VIEW

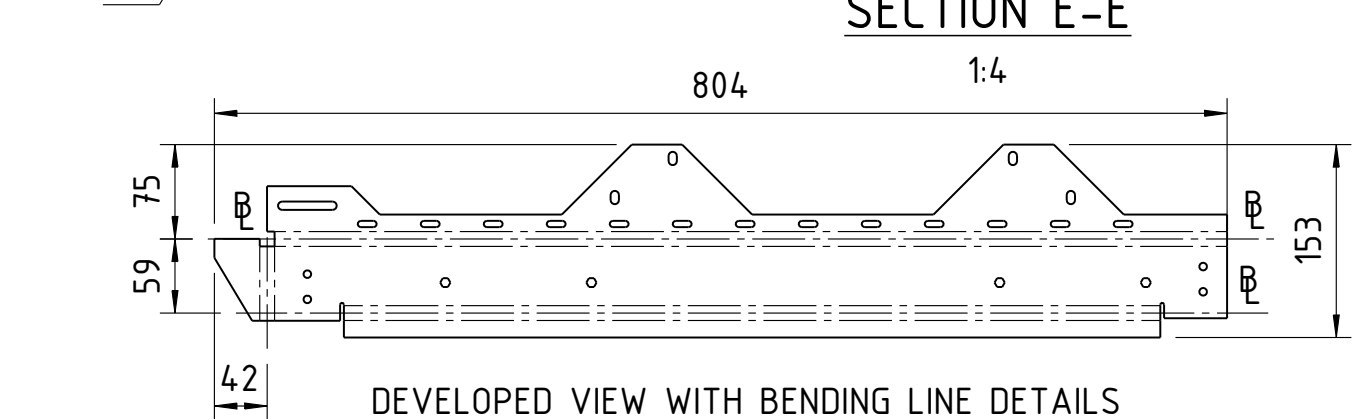
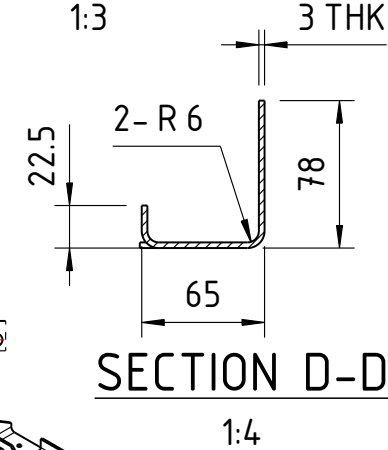
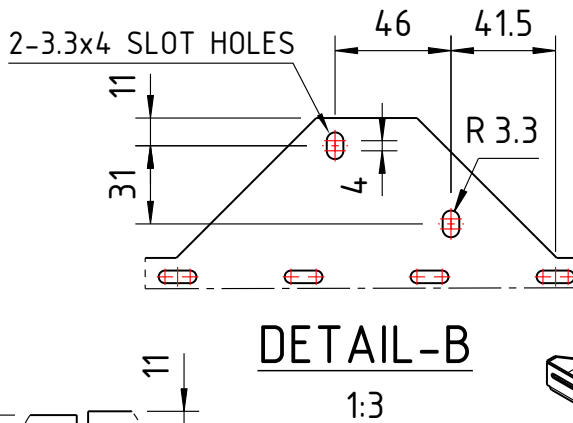
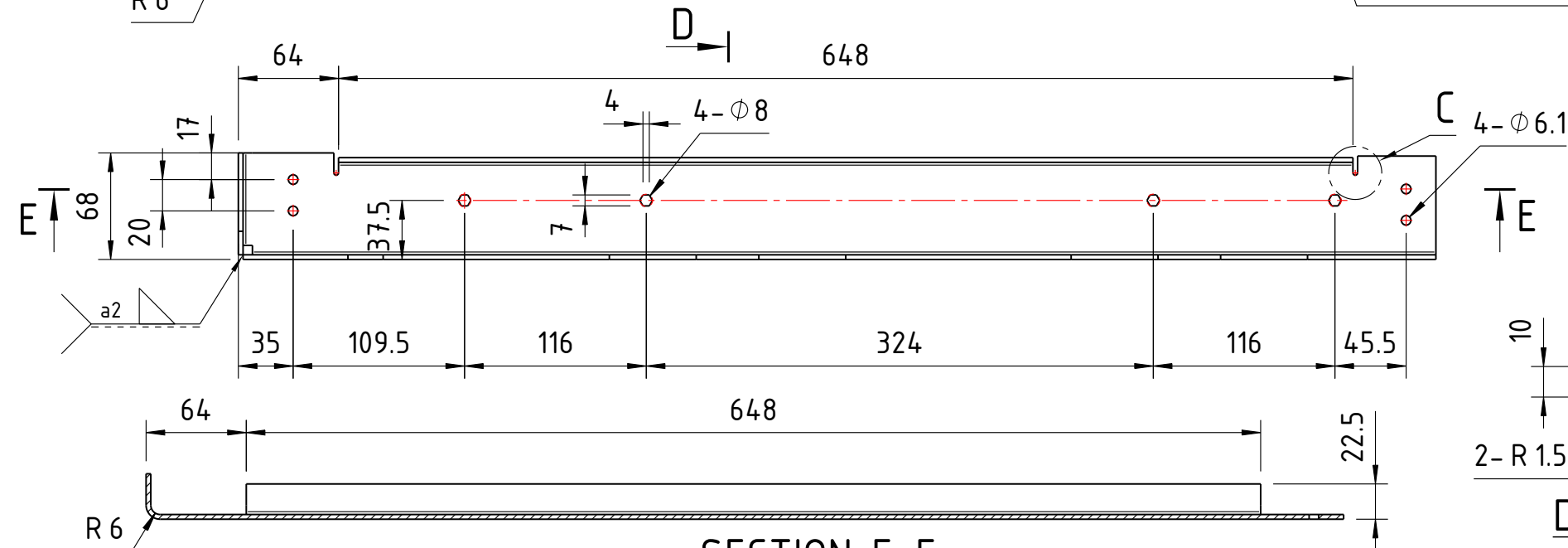
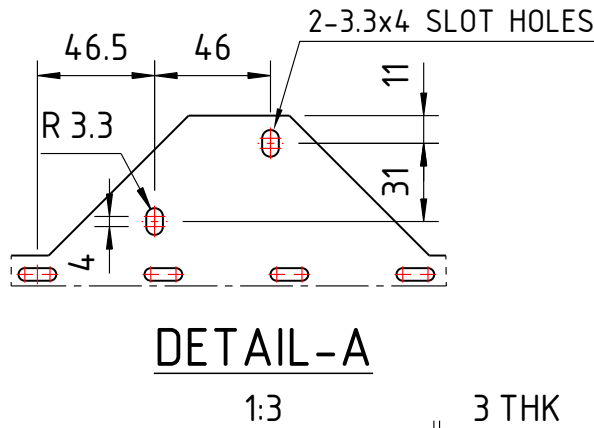
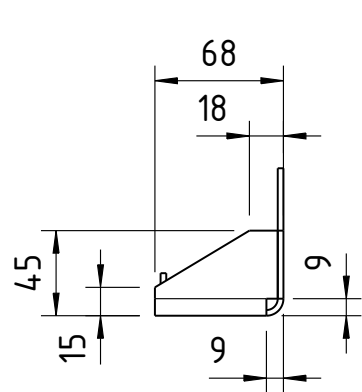
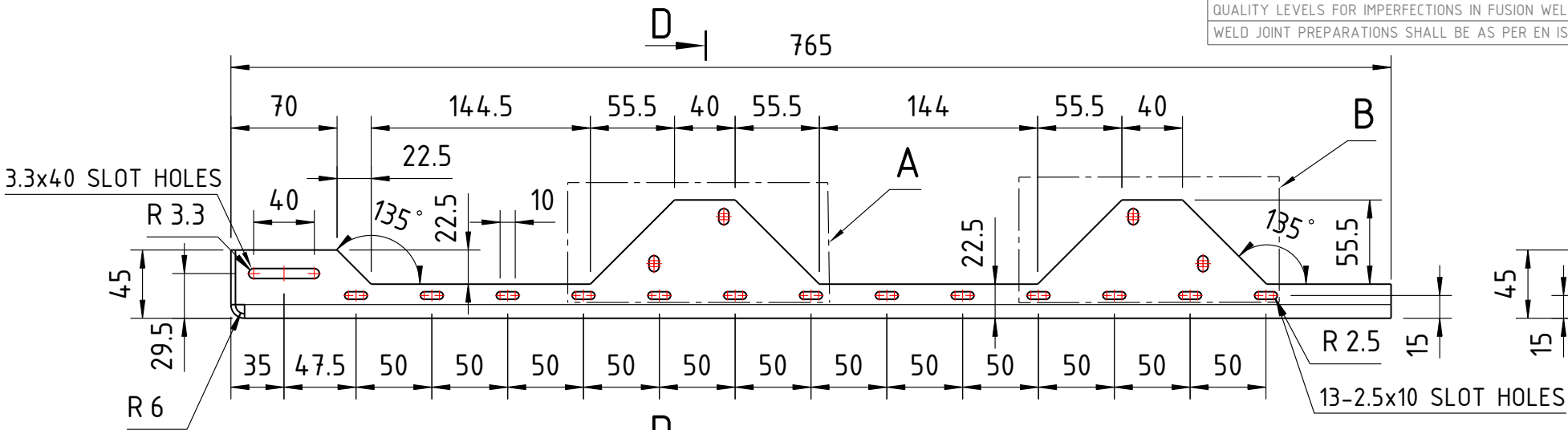
NOTES:

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016 , 30% GLOSSINES / SATIN.
5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

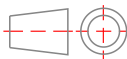
4	1	843-27348	RECTANGULAR SEALS EPDM / CR			DIRAK L=648MM		EPDM				
3	4	843-20133	SELF CLINCHING STUD			M6X20		A2-70				
2	4	BOLLHOFF 343 48 050 020	RIVET NUT			M5		SS				
1	1	843-27181	PROFILE			--		EN AW-5754-H22				
SL.No.	QTY	PART / STOCK No.		DESCRIPTION			SIZE (mm)	COMPANY STD./I.S Wt. (Kg)				
								MATERIAL				
					PRODUCT	TRAIN B28						
					REF DRG	---						
					MATERIAL	---						
					HEAT TREAT.		APPD	KRISHNA PRASAD	12.06.26			
					SURFACE TREAT.		REVD	KRISHNA PRASAD	12.06.26			
					TITLE		CHKD	SANTOSH KUMAR	12.06.26			
					BRACKET		DRWN	SANTOSH KUMAR	12.06.26			
						SCALE		SHEET	Wt.(kg)			
ALT.No.		ECN No./CHANGES		DATE		BY	CHKD	APPD	1:2	1 OF 1	0.76	
					BANGALORE COMPLEX					DRG No.	843-27053	ALT
												

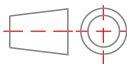
UN CONTROLLED

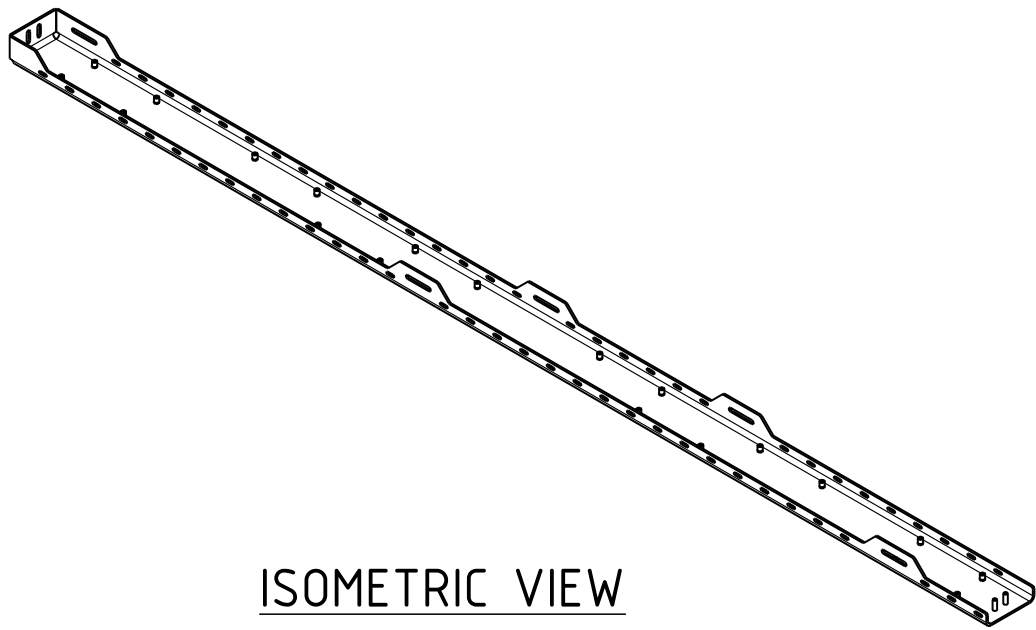
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 – 3	3 – 6	6 – 30	30 – 120	120 – 400	400 – 1000	1000 – 2000	2000 – 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3		WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:	PROTO/PRODUCTION			
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553		WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



- NOTES
1. ALL DIMENSIONS ARE IN mm.
 2. REMOVE ALL SHARP EDGES & BURRS.
 3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 4. ALL WELD AREAS SHALL BE PASSIVATED.
 5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

							804x153x3THK				
SL.No.	QTY	PART / STOCK No.				DESCRIPTION	SIZE (mm)	COMPANY STD./I.S		Wt. (Kg)	
								MATERIAL			
						PRODUCT	TRAIN B28				
						REF DRG	---				
						MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209				
						HEAT TREAT.	---	APPD	KRISHNA PRASAD	22.05.26	
						SURFACE TREAT.	---	REVD	KRISHNA PRASAD	22.05.26	
						TITLE	PROFILE	CHKD	SANTOSH KUMAR	22.05.26	
								DRWN	SANTOSH KUMAR	22.05.26	
								SCALE		SHEET	Wt.(kg)
								1:4	1 OF 1	0.7	
ALT.No.	ECN No./CHANGES	DATE	BY	CHKD	APPD	 BANGALORE COMPLEX		DRG No.		ALT	
								843-27181			

3	20	BOLLHOFF 343 48 050 020			RIVET NUT			M5			SS		
2	2	843-20133			SELF CLINCHING STUD			M6X20			A2-70		
1	1	843-27182			PROFILE			--			EN AW-5754-H22		
SL.No.	QTY	PART / STOCK No.			DESCRIPTION			SIZE (mm)			COMPANY STD./I.S Wt. (Kg)		
											MATERIAL		
						PRODUCT	TRAIN B28						
						REF DRG	---						
						MATERIAL	---						
						HEAT TREAT.	---	APPD	KRISHNA PRASAD		12.06.26		
						SURFACE TREAT.	---	REVD	KRISHNA PRASAD		12.06.26		
						TREAT.	---	CHKD	SANTOSH KUMAR		12.06.26		
						TITLE	BRACKET	DRWN	SANTOSH KUMAR		12.06.26		
								SCALE		SHEET	Wt.(kg)		
								1:8	1 OF 1	1.94			
ALT.No.	ECN No./CHANGES	DATE	BY	CHKD	APPO	BANGALORE COMPLEX			DRG No.		843-27054		
												ALT	
													



1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016 , 30% GLOSSINES / SATIN.
5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

5

4

3

2

1

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS
CLASS - MEDIUM

RANGE

0.5 - 3

3 - 6

6 - 30

30 - 120

120 - 400

400 - 1000

1000 - 2000

2000 - 4000

TOLERANCE

±0.1

±0.1

±0.2

±0.3

±0.5

±0.8

±1.2

±2

GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1

GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2

GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920

VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.

WELDING SHALL BE CARRIED OUT AS PER EN 15085-3

WELDING PROCESS SHALL BE AS PER EN ISO-4063

WELDING SYMBOLS SHALL BE AS PER EN ISO-2553

WELDING POSITIONS SHALL BE AS PER EN ISO 6947

QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817

STATUS: **PROTO/PRODUCTION**

WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3

INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5

1072

22.5

45

20

25

20

2

A

70

19

86.5

116

584

116

3

1

A

B

B

1

3

45

52.5

70

12

3

(x4)

1

3

2

3

1

3

1

3

1

3

UN CONTROLLED

3

4

BOLLHOFF 343
48 050 020

RIVET NUT

M5

SS

2

2

843-20133

SELF CLINCHING STUD

M6X20

A2-70

1

1

843-27183

PROFILE

EN AW-5754-H22

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)
					MATERIAL	
			PRODUCT	TRAIN B28		
			REF DRG	---		
			MATERIAL	---		
			HEAT TREAT.	---	APPD	KRISHNA PRASAD 12.06.26
			SURFACE TREAT.	---	REVD	KRISHNA PRASAD 12.06.26
			TITLE	---	CHKD	SANTOSH KUMAR 12.06.26
				---	DRWN	SANTOSH KUMAR 12.06.26
				---	SCALE	1:4
					SHEET	1 OF 1
					Wt.(kg)	0.95
					DRG No.	843-27055
					ALT	0

BRACKET

ಬಿ ಇ ಎಸ್ ಎಲ್ BANGALORE COMPLEX

ALT

0

ISOMETRIC VIEW

NOTES:

1. ALL DIMENSIONS ARE IN mm.

2. REMOVE ALL SHARP EDGES & BURRS.

3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.

4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016 , 30% GLOSSINES / SATIN.

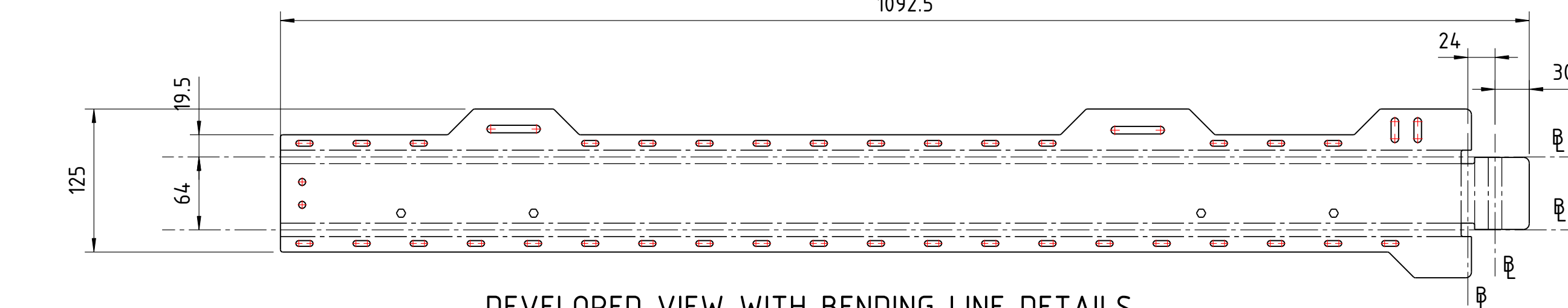
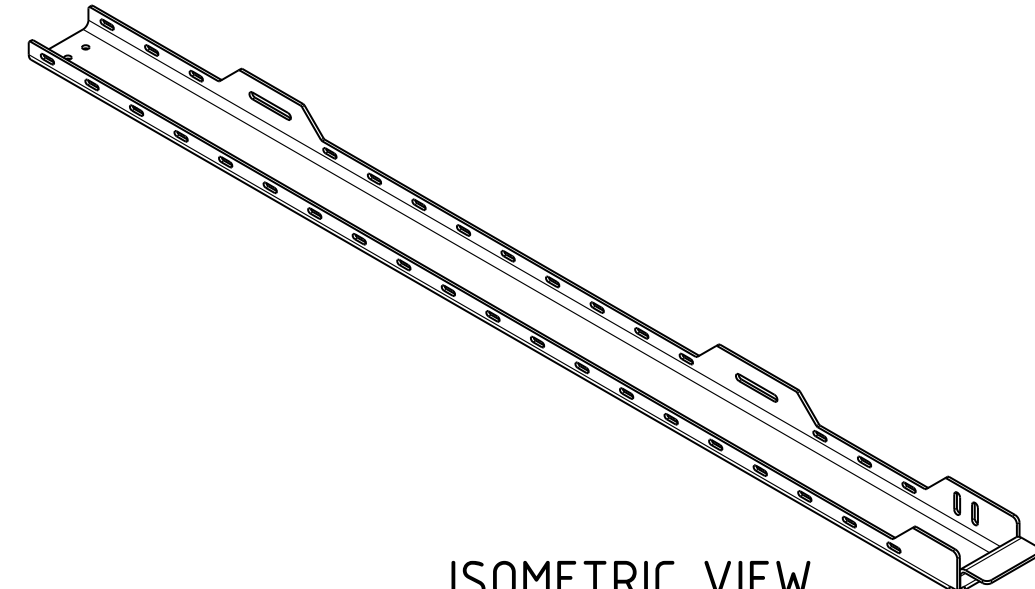
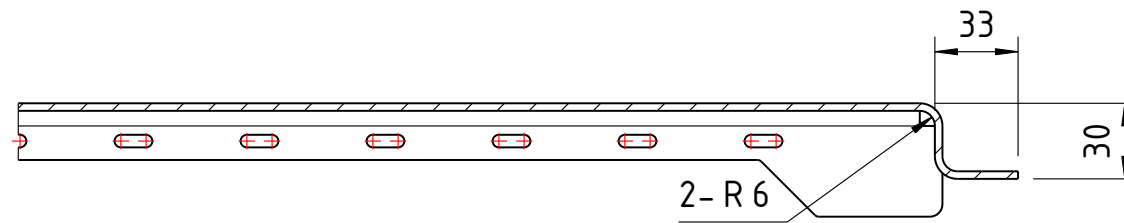
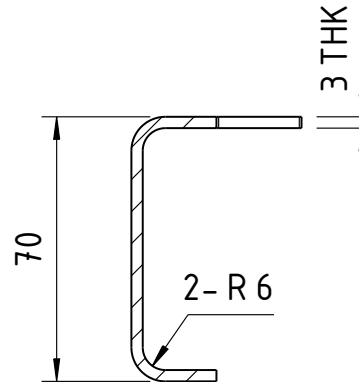
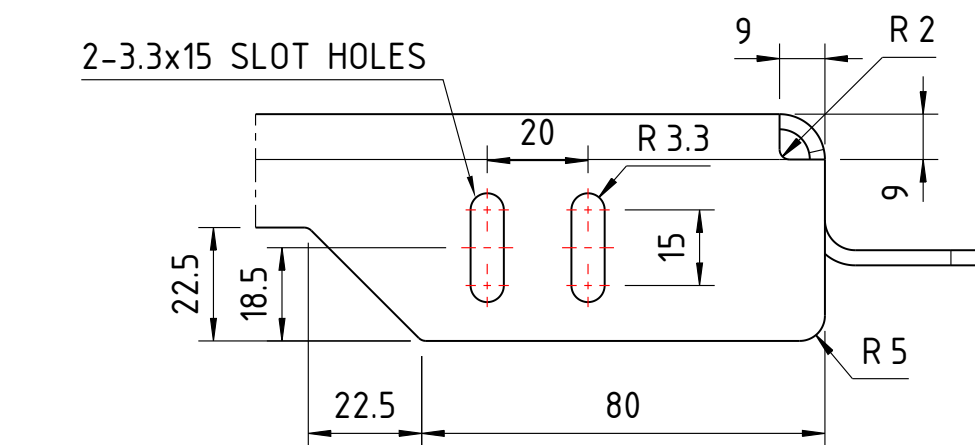
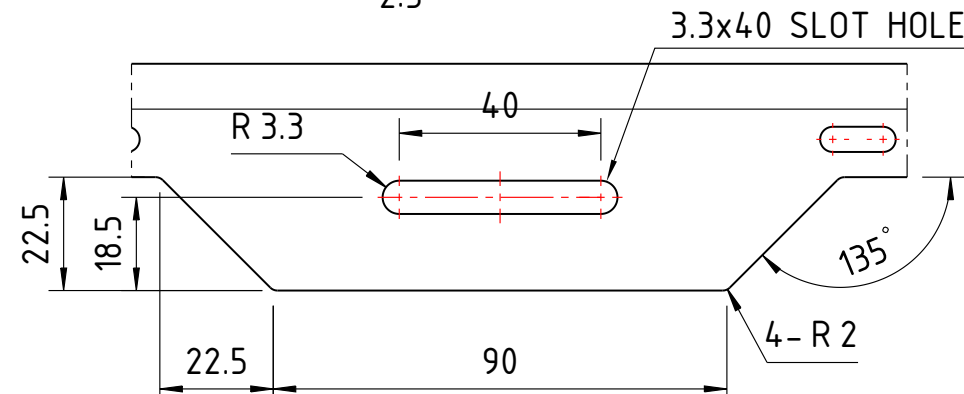
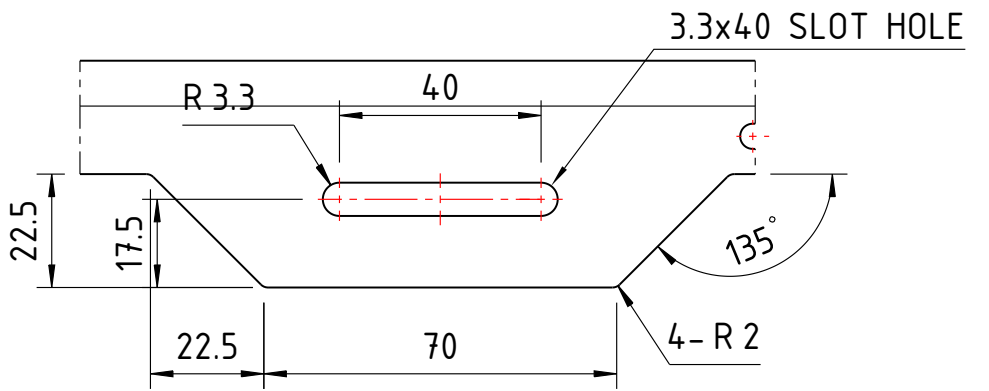
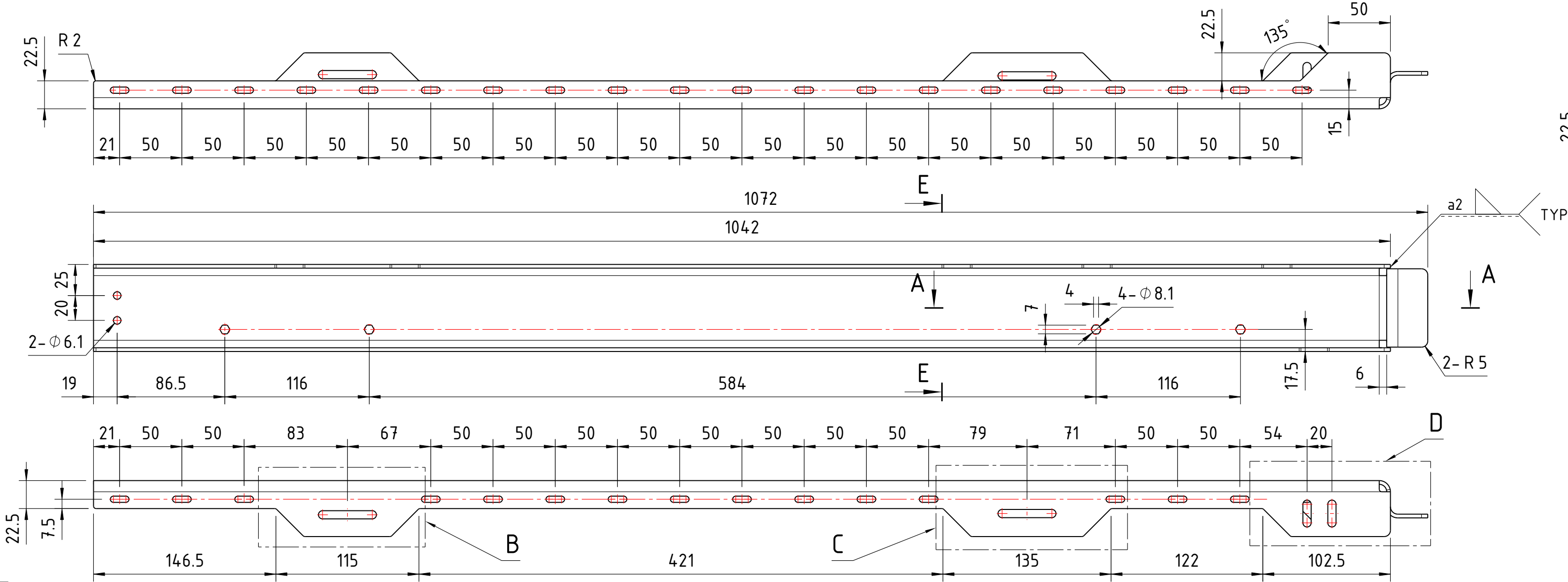
5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

A3

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

		2					1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000	
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2					
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.					
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-6063			STATUS:	PROTO/PRODUCTION			
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817			WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3							
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3										
					INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					

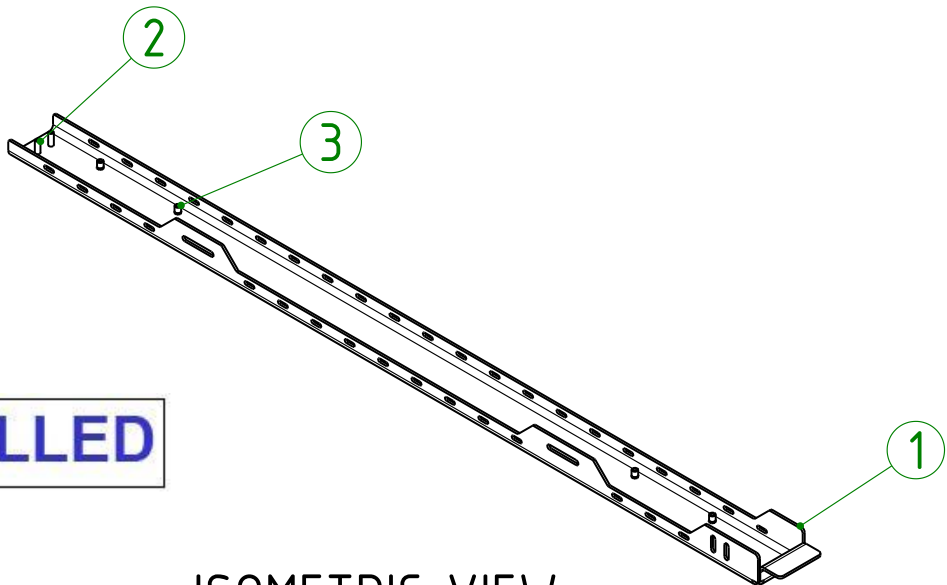
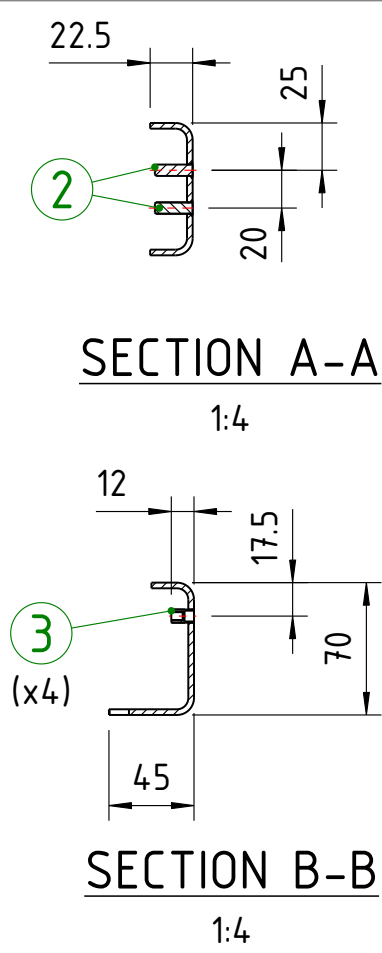
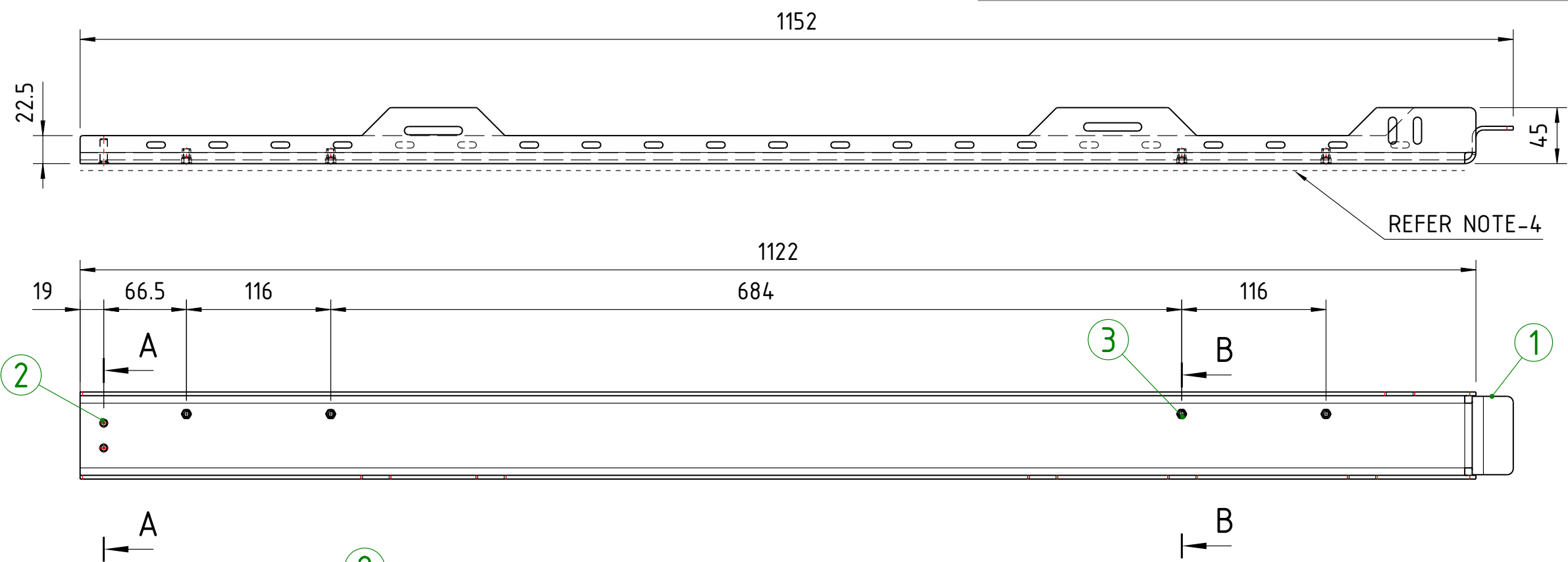


- NOTES
1. ALL DIMENSIONS ARE IN mm.
 2. REMOVE ALL SHARP EDGES & BURRS.
 3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 4. ALL WELD AREAS SHALL BE PASSIVATED.
 5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

UN CONTROLLED

		---					1093x125x3THK			
SL.No.	QTY	PART / STOCK No.			DESCRIPTION		SIZE (mm)		COMPANY STD./I.S	Wt. (Kg)
									MATERIAL	
					PRODUCT	TRAIN B28				
					REF DRG	--				
					MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209				
					HEAT TREAT.	--	APPD	KRISHNA PRASAD	26.05.26	
					SURFACE TREAT.	--	REVD	KRISHNA PRASAD	26.05.26	
					TITLE	PROFILE	CHKD	SANTOSH KUMAR	26.05.26	
							DRWN	R ABINAYA	26.05.26	
							SCALE		SHEET	Wt.(kg)
							1:3		1 OF 1	0.93
ALT.No.	ECN No./CHANGES			DATE	BY	CHKD	APPD	BANGALORE COMPLEX		ALT
								843-27183		

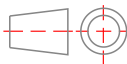
		2				1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:	PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



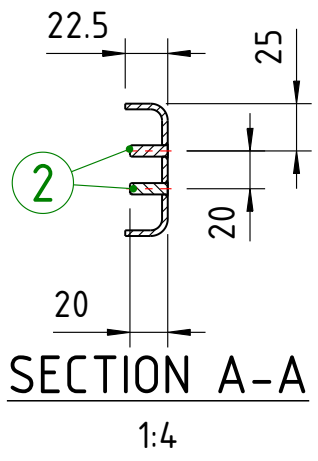
UN CONTROLLED

NOTES:

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE POWDER COATED TO RAL 9016 , 30% GLOSSINES / SATIN.
5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

3	4	BOLLHOFF 343 48 050 020	RIVET NUT			M5		SS	
2	2	843-20133	SELF CLINCHING STUD			M6X20		A2-70	
1	1	843-27184	PROFILE			--		EN AW-5754-H22	
SL.No.	QTY	PART / STOCK No.	DESCRIPTION			SIZE (mm)		COMPANY STD./I.S	Wt. (Kg)
									MATERIAL
						PRODUCT TRAIN B28			
						REF DRG ---			
						MATERIAL ---			
						HEAT TREAT.	---	APPD	KRISHNA PRASAD 12.06.26
						SURFACE TREAT.	---	REVD	KRISHNA PRASAD 12.06.26
						TREAT.	---	CHKD	SANTOSH KUMAR 12.06.26
						TITLE		DRWN	SANTOSH KUMAR 12.06.26
						PROFILE			
						SCALE 1:4			
								SHEET 1 OF 1	Wt.(kg) 0.95
ALT.No.						ECN No./CHANGES		DATE	BY
								CHKD	APPD
						BANGALORE COMPLEX		DRG No. 843-27056	
								ALT 0	

2	2	843-20133	SELF CLINCHING STUD		M6X20		A2-70			
1	1	843-27185	PROFILE		--		EN AW-5754-H22			
SL.No.	QTY	PART / STOCK No.		DESCRIPTION		SIZE (mm)		COMPANY STD./I.S	Wt. (Kg)	
									MATERIAL	
					PRODUCT	TRAIN B28				
					REF DRG	---				
					MATERIAL	---				
					HEAT TREAT.	---	APPD	KRISHNA PRASAD	12.06.26	
					SURFACE TREAT.	---	REVD	KRISHNA PRASAD	12.06.26	
					TITLE	PROFILE	CHKD	SANTOSH KUMAR	12.06.26	
							DRWN	SANTOSH KUMAR	12.06.26	
							SCALE		SHEET	Wt.(kg)
							1:4		1 OF 1	0.71
ALT.No.	ECN No./CHANGES		DATE	BY	CHKD	APPD	DRG No.		ALT	
							843-27057			
						BANGALORE COMPLEX				



NOTES:

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016 , 30% GLOSSINES / SATIN.
5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

UN CONTROLLED

TRAIN B28

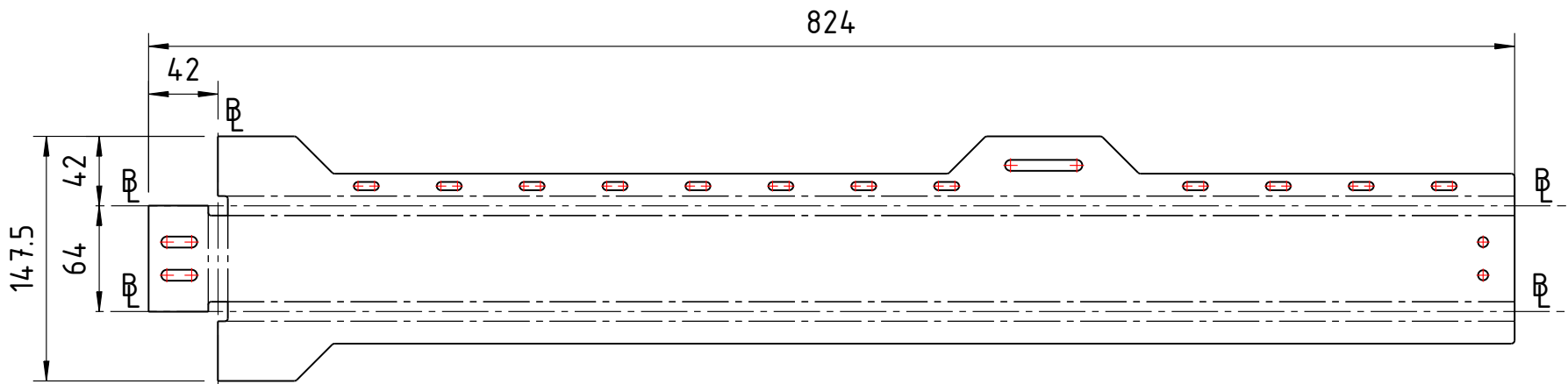
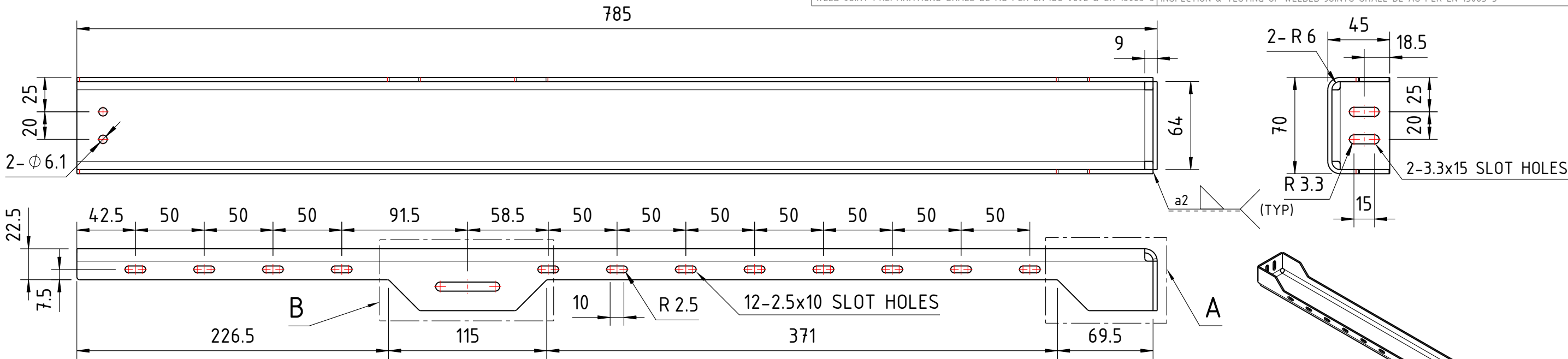
PROFILE

बी ई एम एल BANGALORE
BEML COMPLEX

843-27057

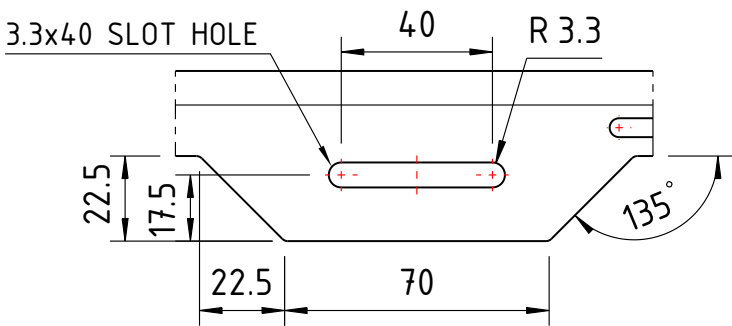
A3

		2				1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3		WELDING PROCESS SHALL BE AS PER EN ISO-4063				STATUS:	PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553		WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



DEVELOPED VIEW WITH BENDING LINE DETAILS

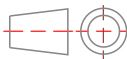
UN CONTROLLED

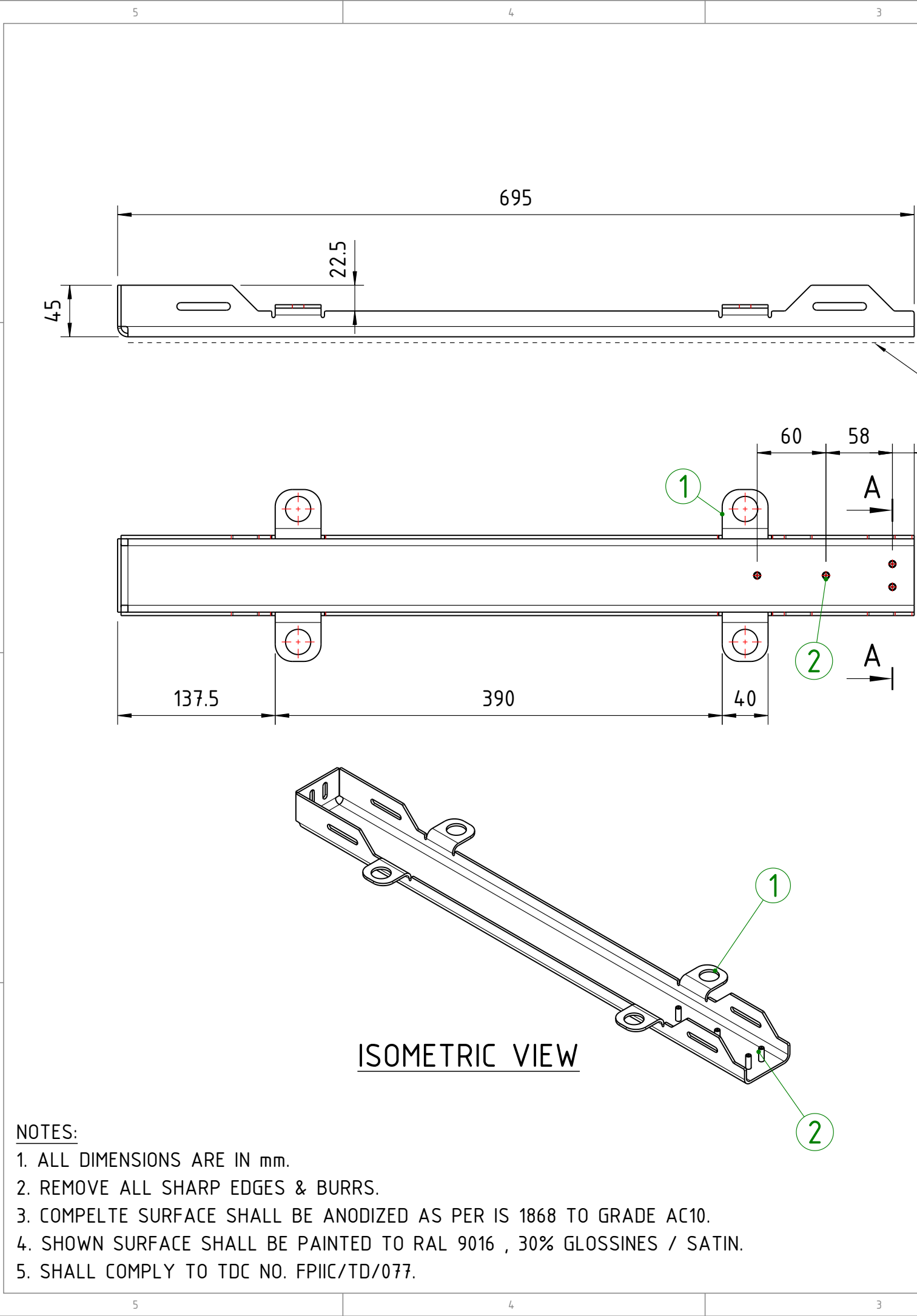


DETAIL-B

1:2

- NOTES
- ALL DIMENSIONS ARE IN mm.
 - REMOVE ALL SHARP EDGES & BURRS.
 - COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 - ALL WELD AREAS SHALL BE PASSIVATED.
 - THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

								824x148x3THK			
SL.No.	QTY	PART / STOCK No.				DESCRIPTION		SIZE (mm)	COMPANY STD./I.S Wt. (Kg)		
									MATERIAL		
						PRODUCT	TRAIN B28				
						REF DRG	---				
						MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B				
						HEAT TREAT.	---	APPD	KRISHNA PRASAD	21.05.26	
						SURFACE TREAT.	---	REVD	KRISHNA PRASAD	21.05.26	
						TITLE			CHKD	SANTOSH KUMAR	21.05.26
						PROFILE		DRWN	R ABINAYA	21.05.26	
								SCALE		SHEET	Wt.(kg)
							1:3	1 OF 1		0.7	
ALT.No.	ECN No./CHANGES	DATE	BY	CHKO	APPO	 BANGALORE COMPLEX		DRG No.		843-27185	
										ALT	



MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM		RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
		TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1						GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920						VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3				WELDING PROCESS SHALL BE AS PER EN ISO-4063		STATUS:		PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553				WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817										
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3						INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5				

REFER NOTE-4

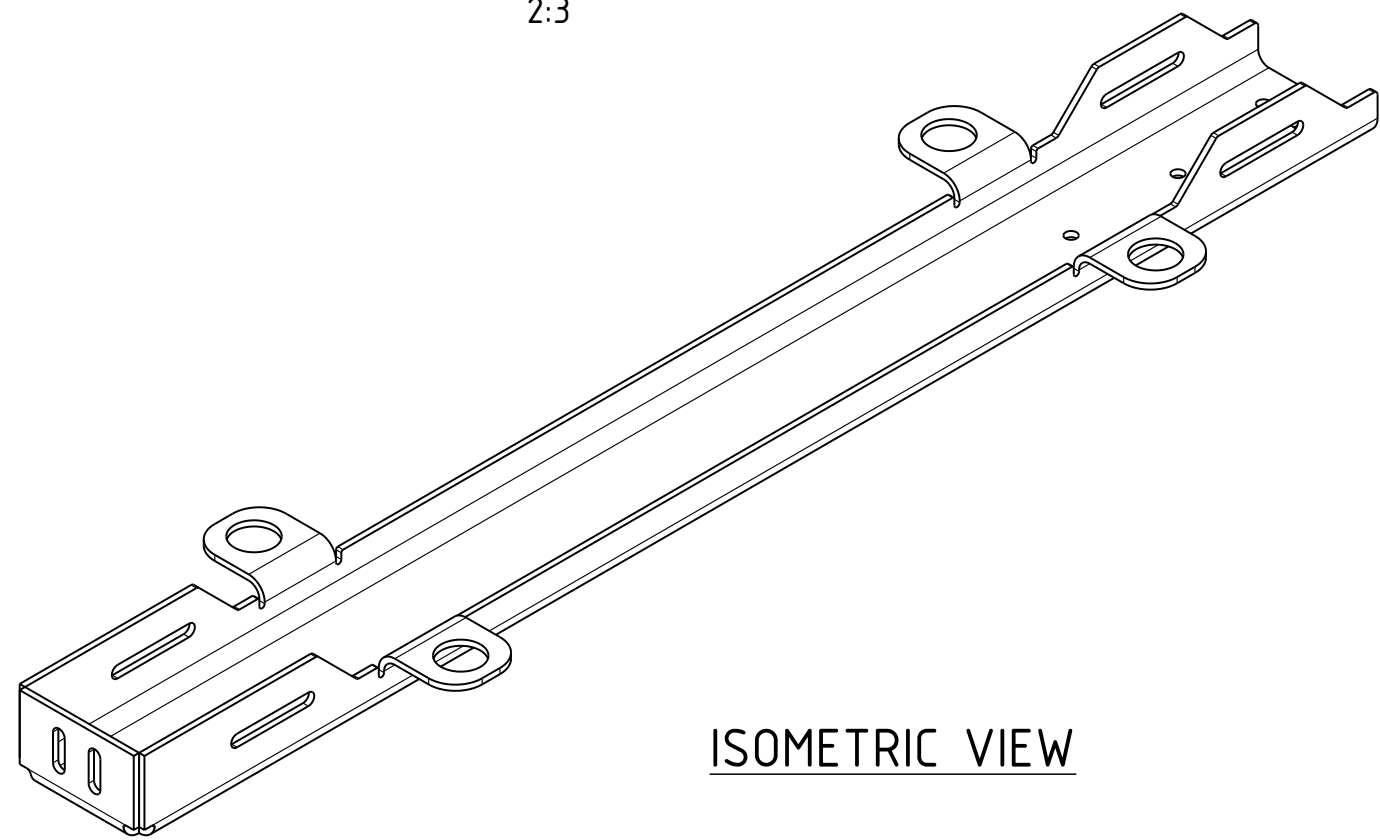
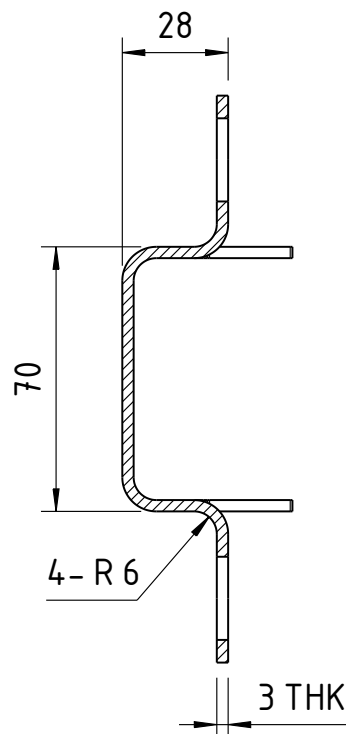
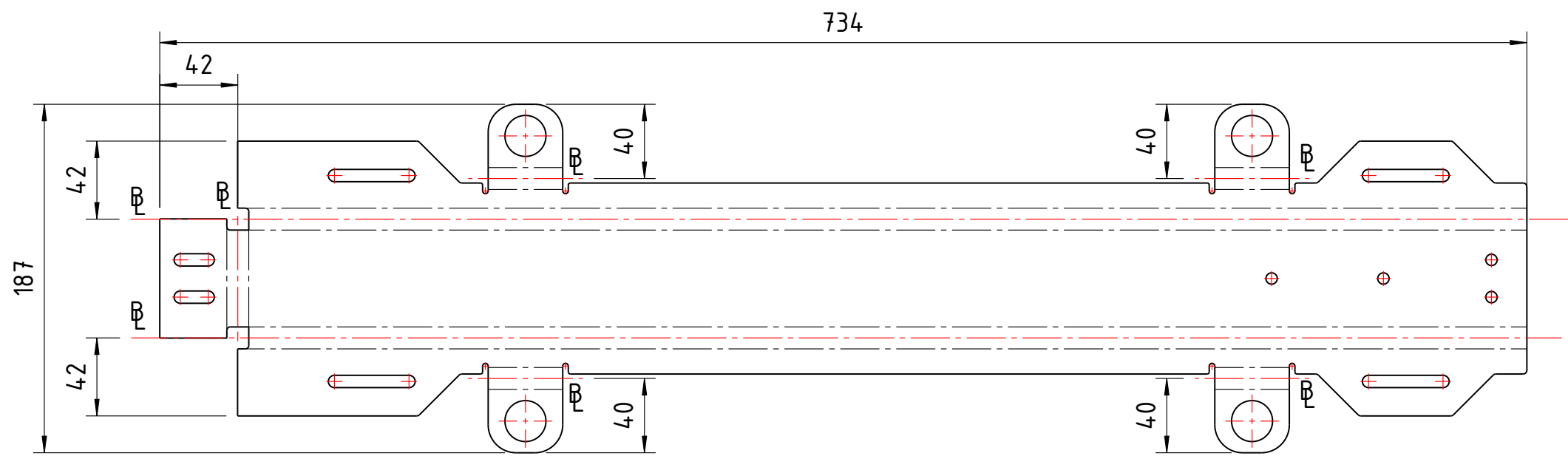
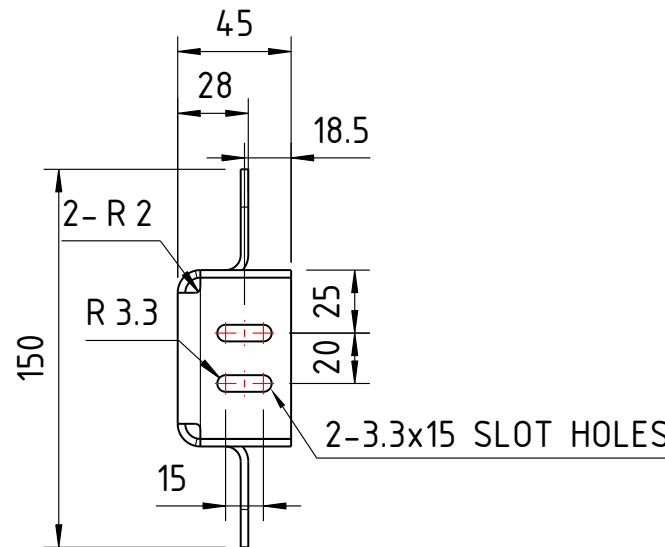
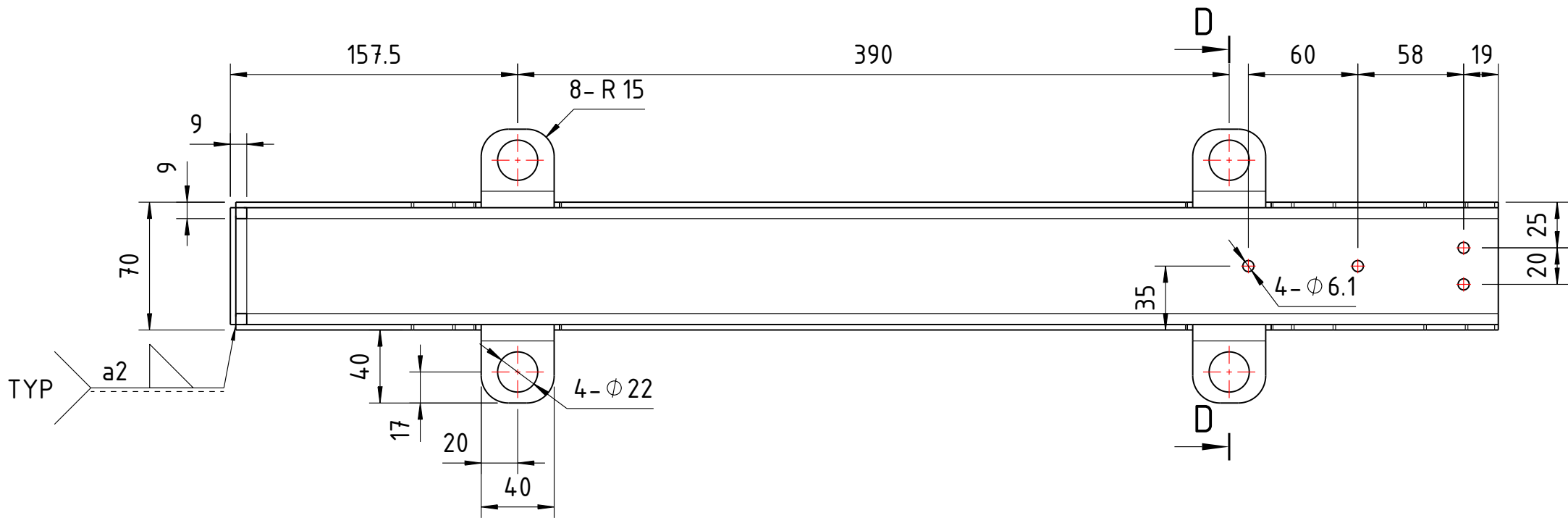
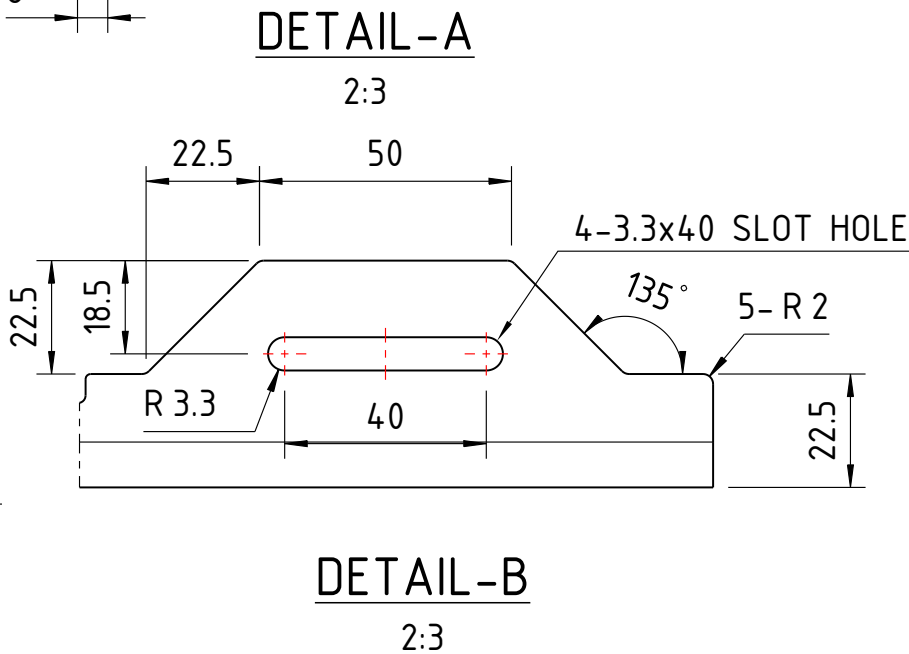
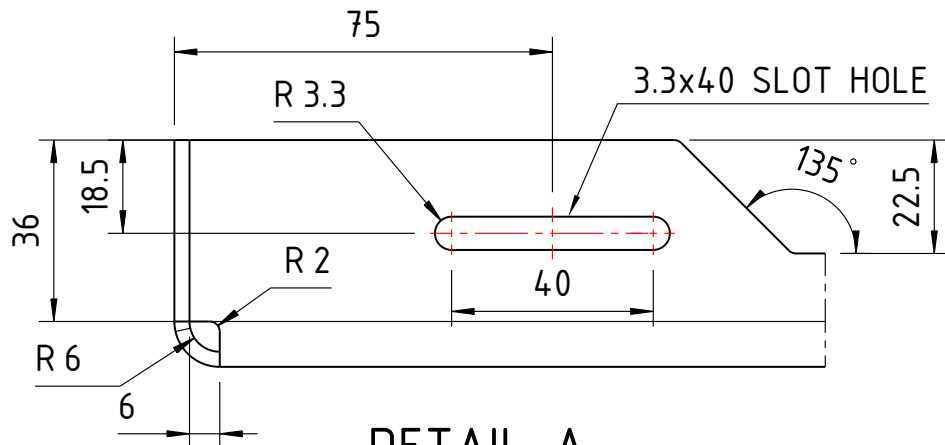
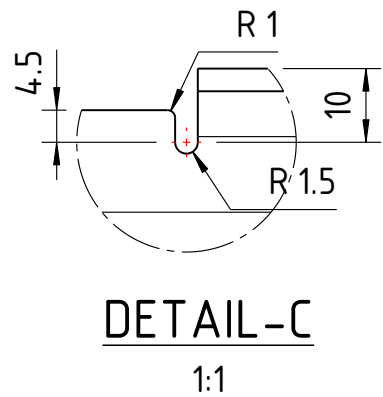
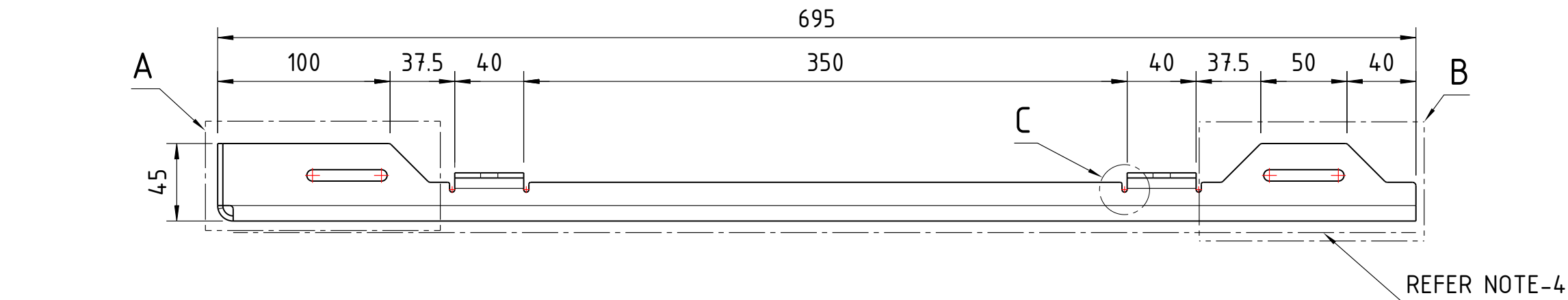
SECTION A-A

1:4

UN CONTROLLED

2	4	843-20133	SELF CLINCHING STUD	M6X20	A2-70
1	1	843-27186	PROFILE	--	EN AW-5754-H22

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)			
					MATERIAL				
△			PRODUCT	TRAIN B28					
△			REF DRG	---					
△			MATERIAL	---					
△			HEAT TREAT.	APPD	KRISHNA PRASAD	12.06.26			
△			SURFACE TREAT.	REVD	KRISHNA PRASAD	12.06.26			
△			TITLE	CHKD	SANTOSH KUMAR	12.06.26			
△			PROFILE	DRWN	SANTOSH KUMAR	12.06.26			
△				SCALE	1:4	SHEET	Wt.(kg)		
ALT.No.	ECN No./CHANGES	DATE	BY	CHKD	APPD	DRG No.			
					BANGALORE COMPLEX		843-27058	ALT	0



- NOTES
- ALL DIMENSIONS ARE IN mm.
 - REMOVE ALL SHARP EDGES & BURRS.
 - COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 - ALL WELD AREAS SHALL BE PASSIVATED.
 - THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

		---		734x187x3THK			
SL.No.	QTY	PART / STOCK No.		DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)
△				PRODUCT	TRAIN B28		
				REF DRG	---		
				MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209		
				HEAT TREAT.	---	APPD KRISHNA PRASAD	27.05.26
				SURFACE TREAT.	---	REVD KRISHNA PRASAD	27.05.26
△				PROFILE	CHKD SANTOSH KUMAR	27.05.26	
△					DRWN R ABINAYA	27.05.26	
△					SCALE 1:3	SHEET 1 OF 1	Wt.(kg) 0.7
△					DRG No. 843-27186	ALT 0	
ALT.No.	ECN No./CHANGES		DATE	BY	CRKD	APPD	
				BANGALORE COMPLEX			

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM		RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
		TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1						GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920						VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:		PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817										
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3						INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5				

890

45

22.5

REFER NOTE-4

470

156

19

A

1

2

A

22.5

25

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20

2

SECTION A-A

1:2

ISOMETRIC VIEW

1

2

NOTES:

1. ALL DIMENSIONS ARE IN mm.

2. REMOVE ALL SHARP EDGES & BURRS.

3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.

4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016 , 30% GLOSSINES / SATIN.

5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

UN CONTROLLED

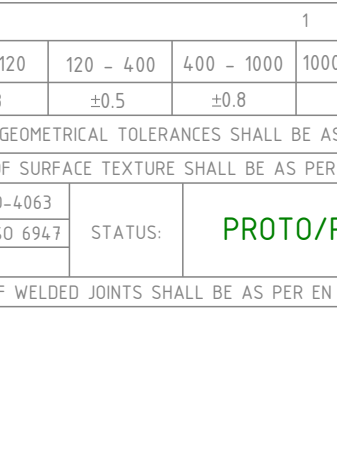
2	2	843-20133	SELF CLINCHING	M6X20	A2-70		
1	1	843-27187	PROFILE	--	EN AW-5754-H22		
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)	
					MATERIAL		
△			PRODUCT	TRAIN B28			
△			REF DRG	---			
△			MATERIAL	---			
△			HEAT TREAT.	---	APPD	KRISHNA PRASAD	12.06.26
△			SURFACE TREAT.	---	REVD	KRISHNA PRASAD	12.06.26
△			TITLE	---	CHKD	SANTOSH KUMAR	12.06.26
△				---	DRWN	SANTOSH KUMAR	12.06.26
△					SCALE	1:4	
△							
△							
ALT.No.	ECN No./CHANGES	DATE	BY	CHKD	APPD	BANGALORE COMPLEX	
						DRG No.	843-27059
						SHEET	1 OF 1
						Wt.(kg)	0.86
						ALT	0

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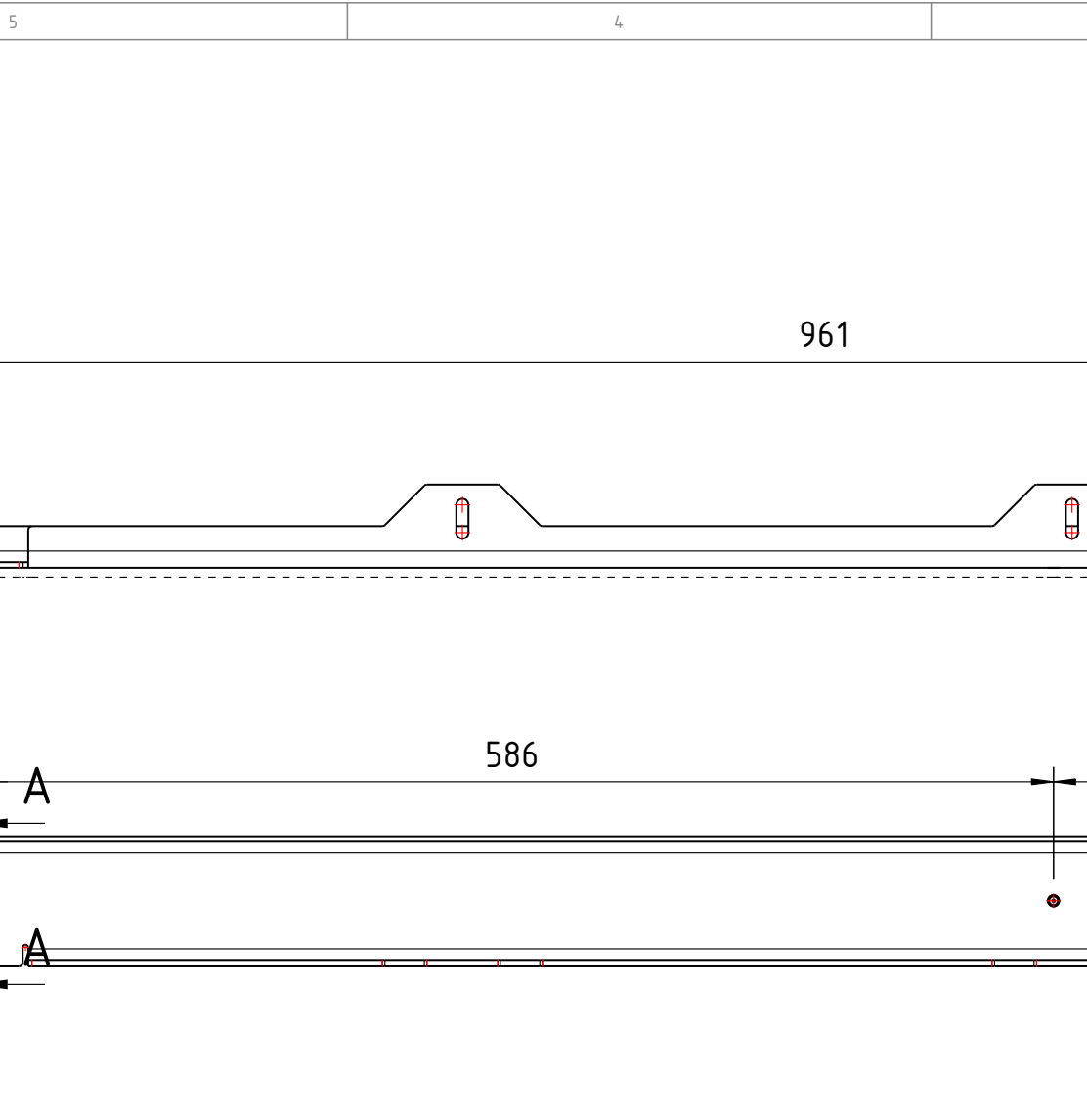
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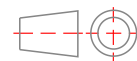


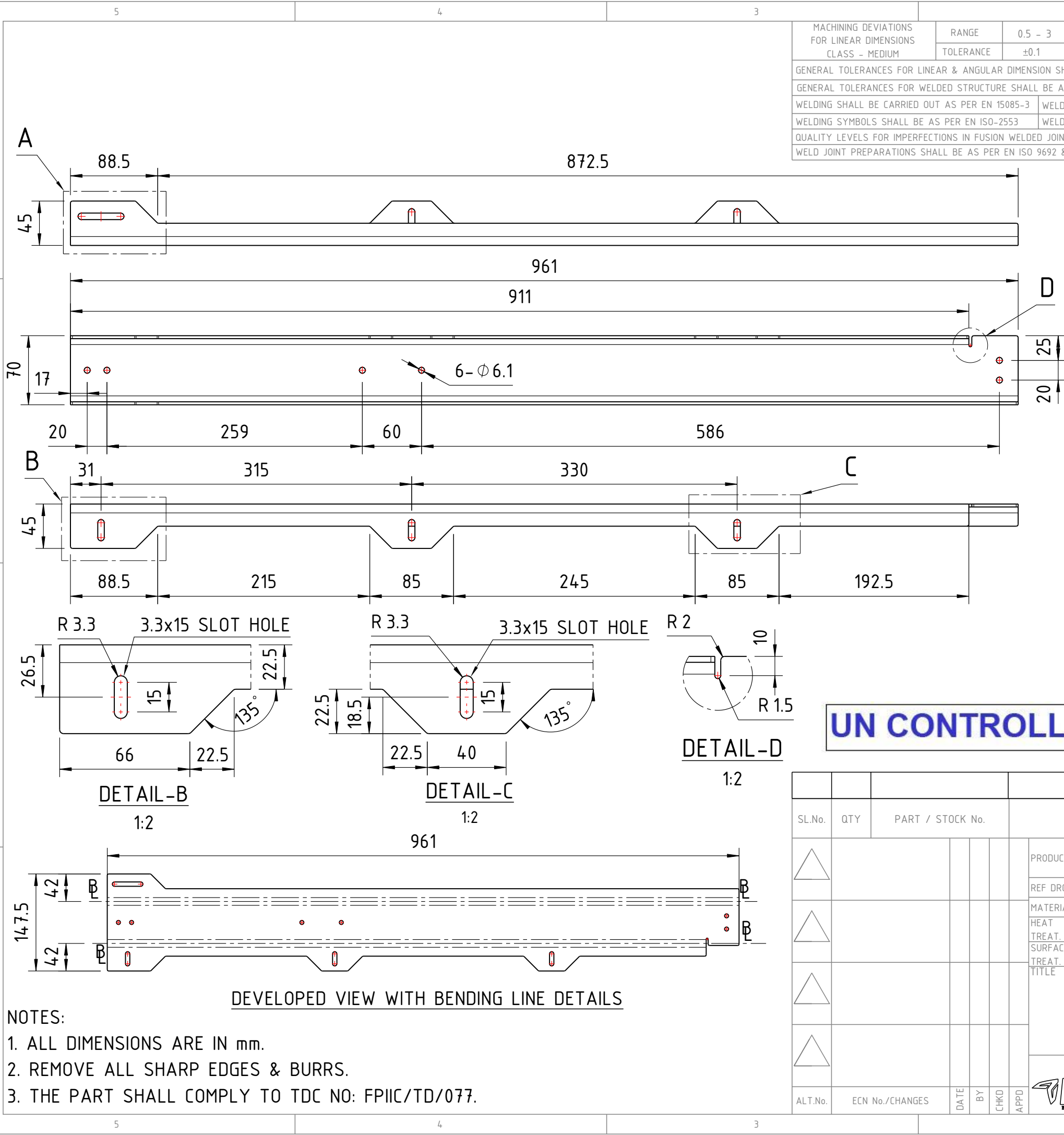
1:2



1. ALL

2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016 , 30% GLOSSINES / SATIN.
5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

2	6	843-20133	SELF CLINCHING STUD			M6X20	A2-70			
1	1	843-27188	PROFILE			--	EN AW-5754-H22			
SL.No.	QTY	PART / STOCK No.			DESCRIPTION		SIZE (mm)		COMPANY STD./I.S	Wt. (Kg)
										MATERIAL
					PRODUCT	TRAIN B28				
					REF DRG	---				
					MATERIAL	---				
					HEAT TREAT.	---	APPD	KRISHNA PRASAD	12.06.26	
					SURFACE TREAT.	---	REVD	KRISHNA PRASAD	12.06.26	
					TITLE	PROFILE	CHKD	SANTOSH KUMAR	12.06.26	
							DRWN	SANTOSH KUMAR	12.06.26	
							SCALE		SHEET	Wt.(kg)
							1:4		1 OF 1	0.87
ALT.No.	ECN No./CHANGES	DATE	BY	CHKD	APPD	DRG No.		843-27060		
 BANGALORE COMPLEX						ALT				



MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM		RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
		TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1						GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920						VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:		PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817										
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3						INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5				

ISOMETRIC VIEW

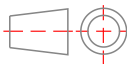
UN CONTROLLED

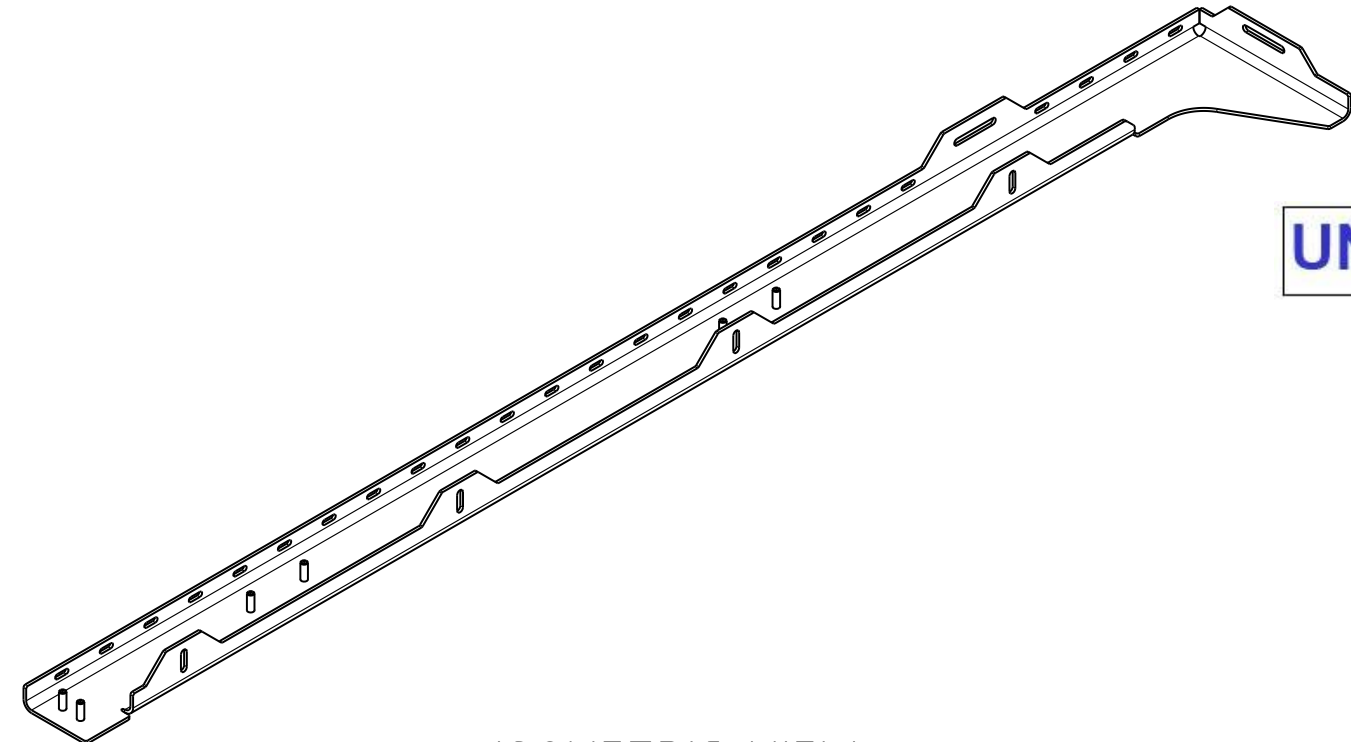
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)
				961x148x3THK		
					MATERIAL	
			PRODUCT	TRAIN B28		
			REF DRG	---		
			MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B		
			HEAT TREAT.	APPD	KRISHNA PRASAD	29.05.26
			SURFACE TREAT.	REVD	KRISHNA PRASAD	29.05.26
			TREAT. TITLE	CHKD	SANTOSH KUMAR	29.05.26
				DRWN	R ABINAYA	29.05.26
				SCALE	1:4	1 OF 1
				SHEET	1 OF 1	0.84
				DRG No.	843-27188	
				ALT	0	

PROF. BANGALORE COMPLEX

SYMBOL

SURFACE
ROUGHNESS

2	6	843-20133	SELF CLINCHING STUD				M6X20	A2-70									
1	1	843-27189	PROFILE				--	EN AW-5754-H22									
SL.No.	QTY	PART / STOCK No.				DESCRIPTION				SIZE (mm)		COMPANY STD./I.S		Wt. (Kg)			
														MATERIAL			
						PRODUCT	TRAIN B28										
						REF DRG	---										
						MATERIAL	---										
						HEAT TREAT.	---				APPD	KRISHNA PRASAD		12.06.26			
						SURFACE TREAT.	---				REVD	KRISHNA PRASAD		12.06.26			
						TITLE					CHKD	SANTOSH KUMAR		12.06.26			
						PROFILE				DRWN	SANTOSH KUMAR		12.06.26				
										SCALE		SHEET	Wt.(kg)				
										1:5	1 OF 1		1.19				
ALT.No.	ECN No./CHANGES		DATE	BY	CHKD	APPD	 BANGALORE COMPLEX				DRG No.		843-27061		ALT		
																	



NOTES:

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016 , 30% GLOSSINES / SATIN.
5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

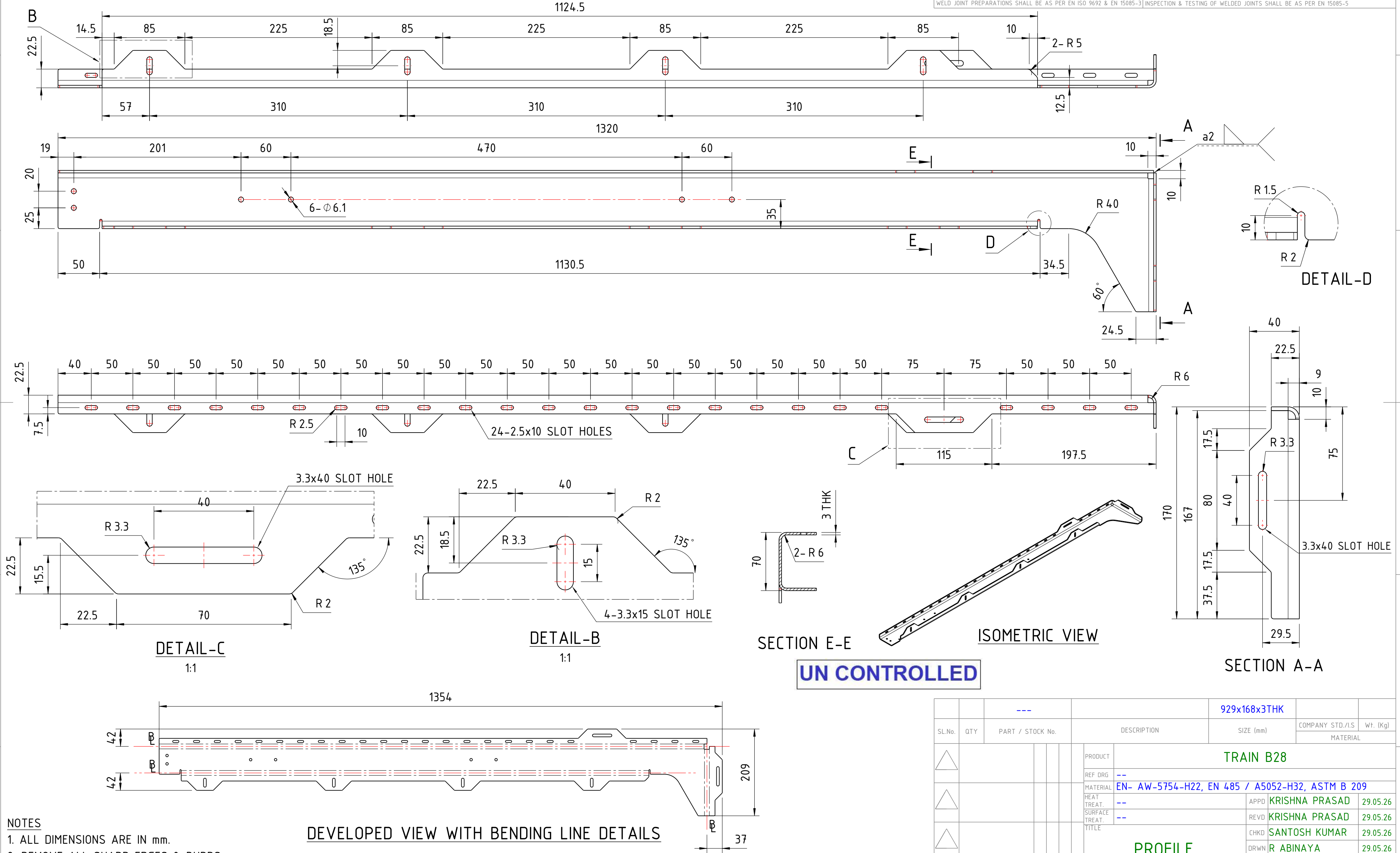
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SECTION A-A

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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												

		2					1				
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000		
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2		
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2						
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.						
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:	PROTO/PRODUCTION				
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947								
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817											
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3											
INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5											



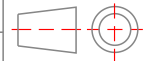
- NOTES
1. ALL DIMENSIONS ARE IN mm.
 2. REMOVE ALL SHARP EDGES & BURRS.
 3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 4. ALL WELD AREAS SHALL BE PASSIVATED.
 5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

SECTION E-E

UN CONTROLLED

ISOMETRIC VIEW

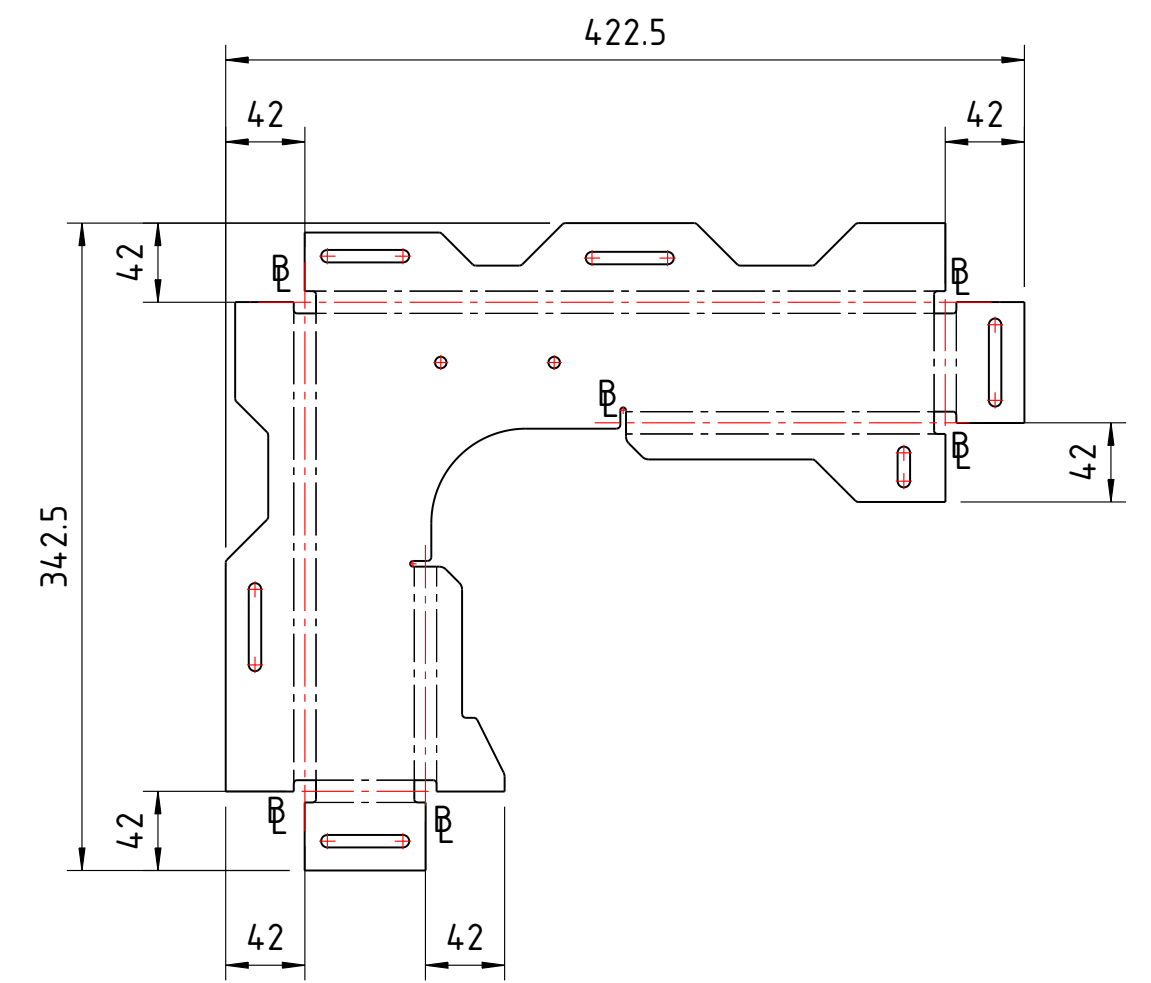
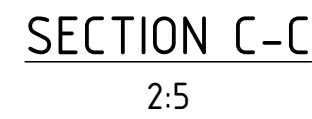
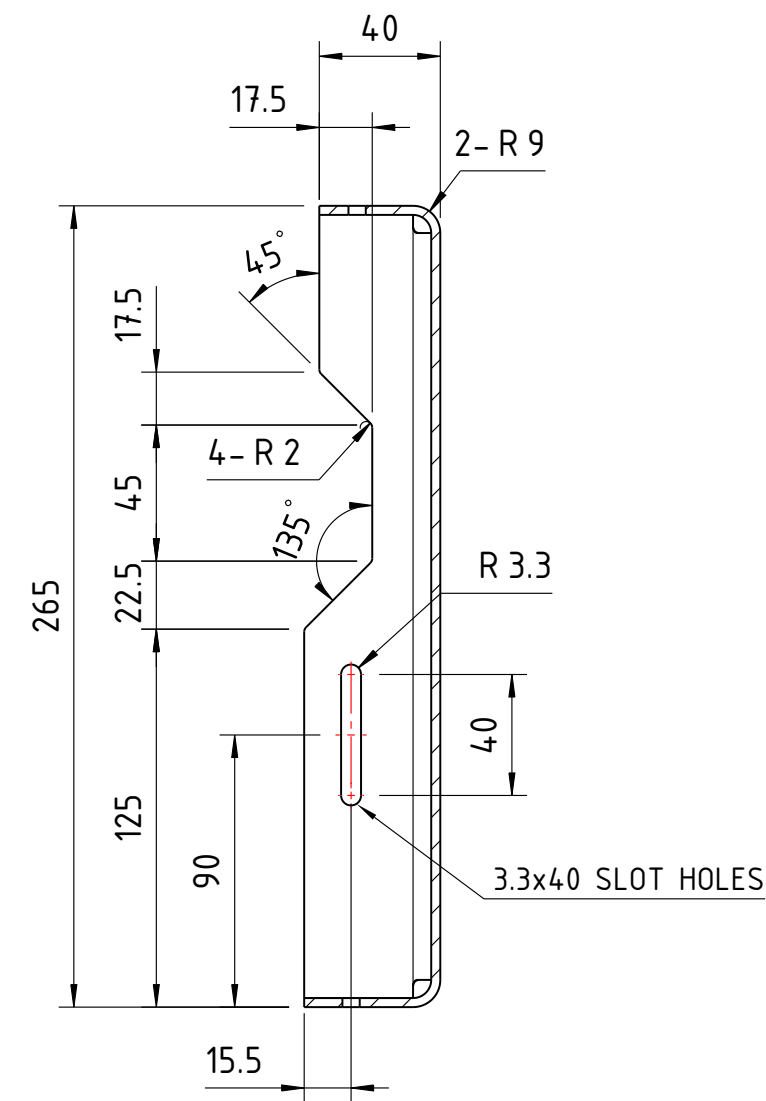
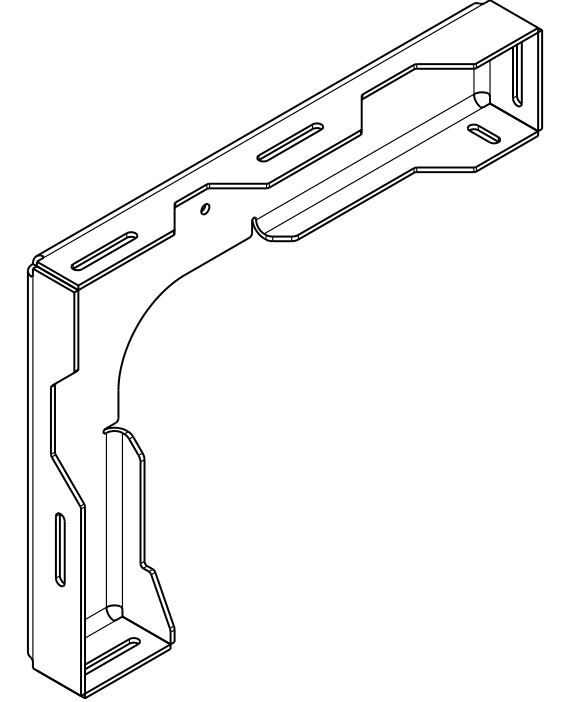
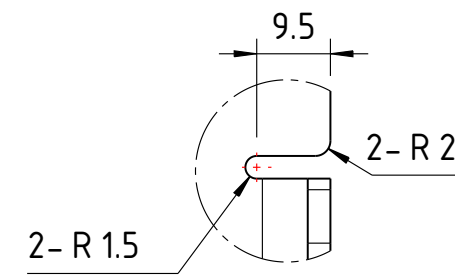
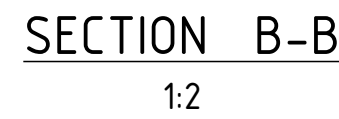
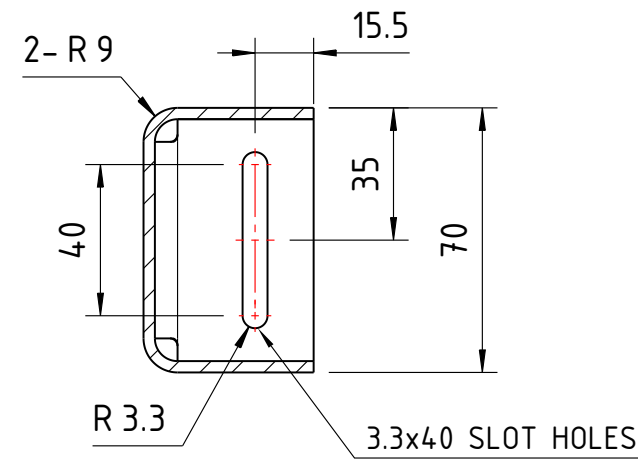
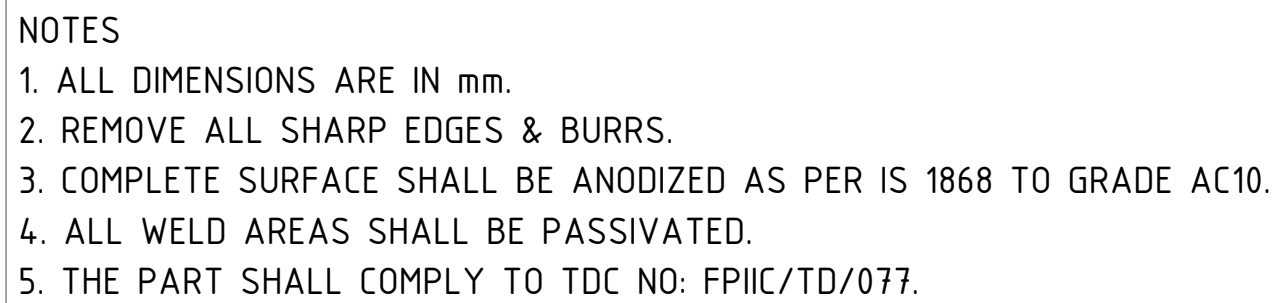
SECTION A-A

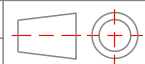
---		929x168x3THK						
SL.No.	QTY	PART / STOCK No.		DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)	
				MATERIAL				
				PRODUCT	TRAIN B28			
				REF DRG	--			
				MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209			
				HEAT TREAT.	--	APPD	KRISHNA PRASAD 29.05.26	
				SURFACE TREAT.	--	REVD	KRISHNA PRASAD 29.05.26	
				TITLE	PROFILE			
				CHKD				SANTOSH KUMAR 29.05.26
					DRWN	R ABINAYA 29.05.26		
					SCALE		SHEET	Wt.(kg)
					1:3		1 OF 1	1.19
				DRG No.		ALT		
				BANGALORE		843-27189		
				COMPLEX		ALT		
								
ALT.No.	ECN No./CHANGES	DATE	BY	CHKD	APPD			

BANGALORE
COMPLEX

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A



		---				42x34x3x3THK				
SL.No.	QTY	PART / STOCK No.			DESCRIPTION		SIZE (mm)	COMPANY STD./I/S	Wt. (Kg)	
							MATERIAL			
					PRODUCT	TRAIN B28				
					REF DRG	--				
					MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209				
					HEAT TREAT.		APPD	KRISHNA PRASAD	08.06.26	
					SURFACE TREAT.		REVD	KRISHNA PRASAD	08.06.26	
					TITLE		CHKD	SANTOSH KUMAR	08.06.26	
					PROFILE		DRWN	R ABINAYA	08.06.26	
							SCALE		SHEET	Wt.(kg)
							2:5	1 OF 1	0.54	
ALT.No.	ECN No./CHANGES	DATE	BY	CHKD	APPD	BANGALORE  COMPLEX		DRG No. 843-27190		
								ALT	0	

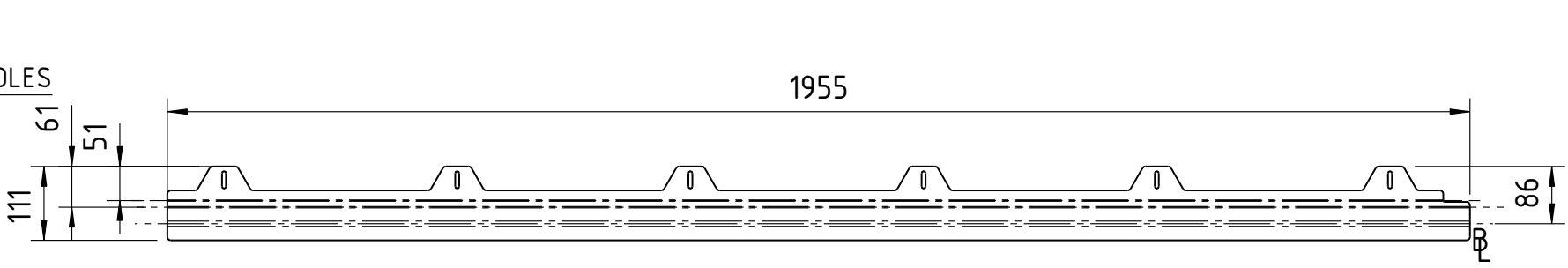
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2

1

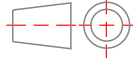
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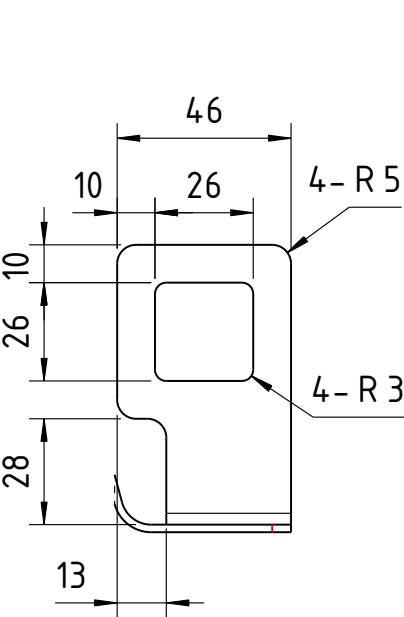
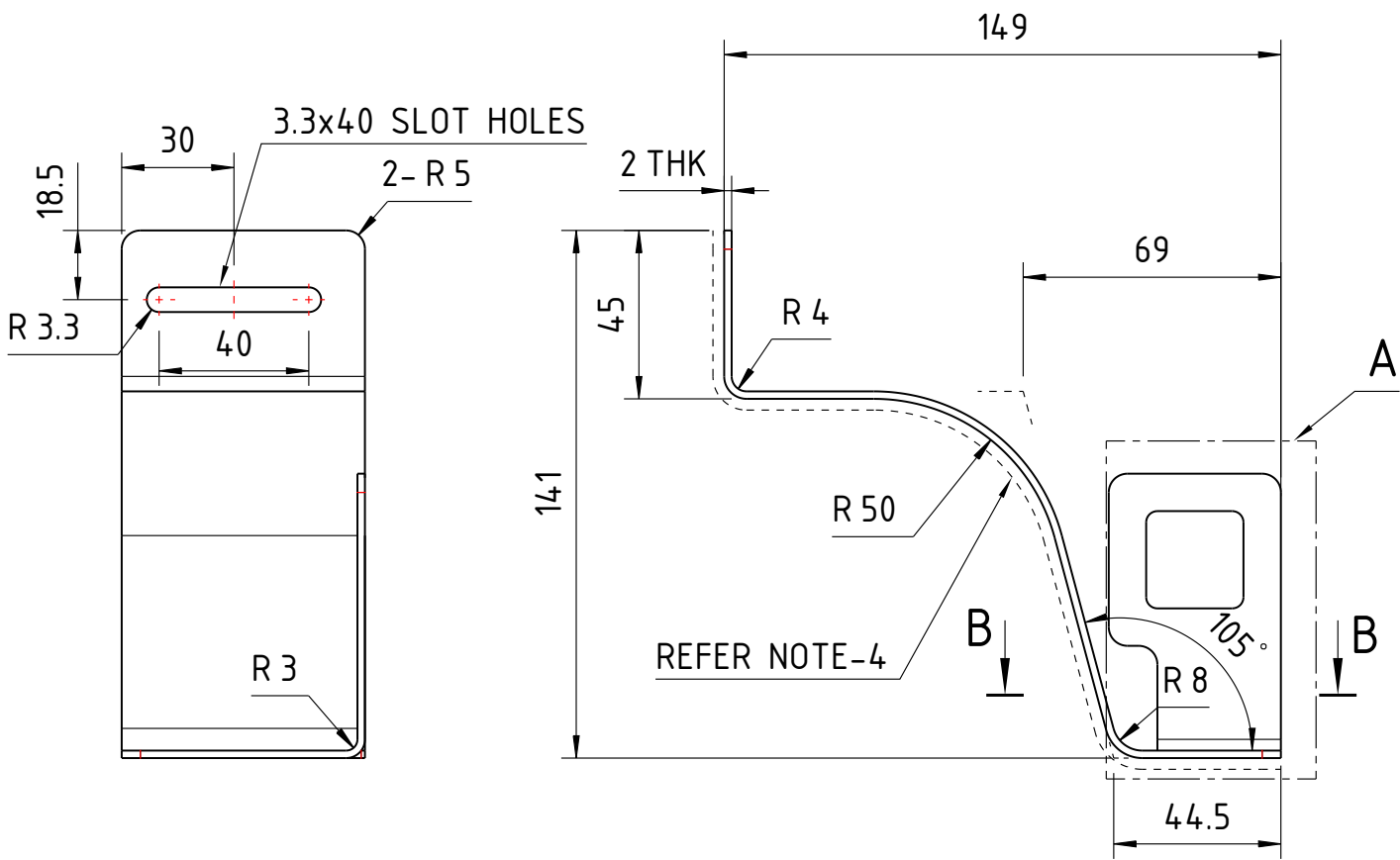
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM
--



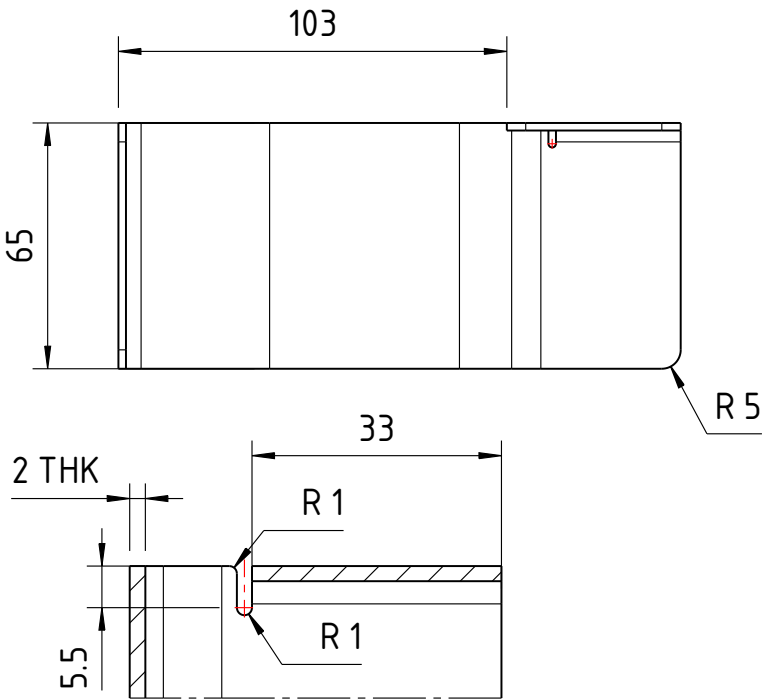
UN CONTROLLED



- | | | | | | | | | 1955x111x2THK | | | |
|---|-----------------|------------------|--|--|------|---|---|-------------------|---|----------|---|
| SL.No. | QTY | PART / STOCK No. | | | | DESCRIPTION | | SIZE (mm) | COMPANY STD./I.S Wt. (Kg) | | |
| | | | | | | | | | MATERIAL | | |
|  | | | | | | PRODUCT | TRAIN B28 | | | | |
| | | | | | | REF DRG | --- | | | | |
|  | | | | | | MATERIAL | EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209 | | | | |
| | | | | | | HEAT TREAT. | --- | APPD | KRISHNA PRASAD | 16.06.26 | |
| | | | | | | SURFACE TREAT. | --- | REVD | KRISHNA PRASAD | 16.06.26 | |
|  | | | | | | TITLE | BRACKET | CHKD | SANTOSH KUMAR | 16.06.26 | |
| | | | | | | | | DRWN | SANTOSH KUMAR | 16.06.26 | |
|  | | | | | | | | SCALE |  | SHEET | Wt.(kg) |
| | | | | | | | | 1:6 | | 1 OF 1 | 2.51 |
| ALT.No. | ECN No./CHANGES | | | | DATE | BY | CHKD | APPD | DRG No. | | ALT |
| | | | | | | | | | 843-27272 | |  |
| | | | | | |  | | BANGALORE COMPLEX | | | |



DETAIL-A
1:2

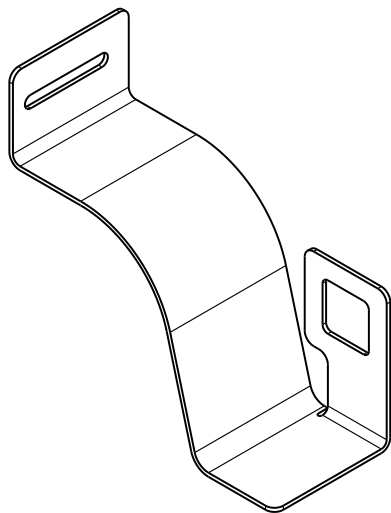
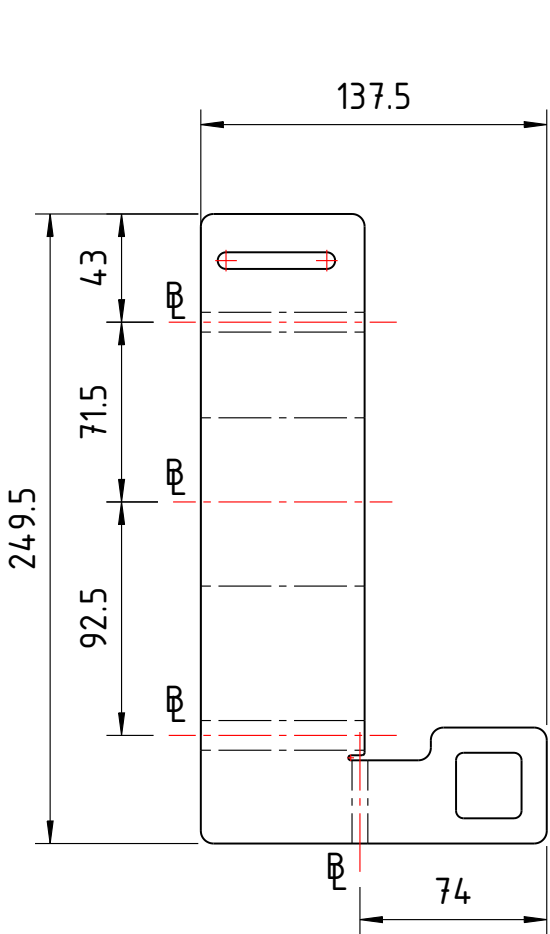


SECTION B-B
1:1

NOTES

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016 , 30% GLOSSINES / SATIN.
5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

		2				1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 – 3	3 – 6	6 – 30	30 – 120	120 – 400	400 – 1000	1000 – 2000	2000 – 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3		WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:		PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553		WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



ISOMETRIC VIEW

UN CONTROLLED

DEVELOPED VIEW WITH BENDING LINE DETAILS

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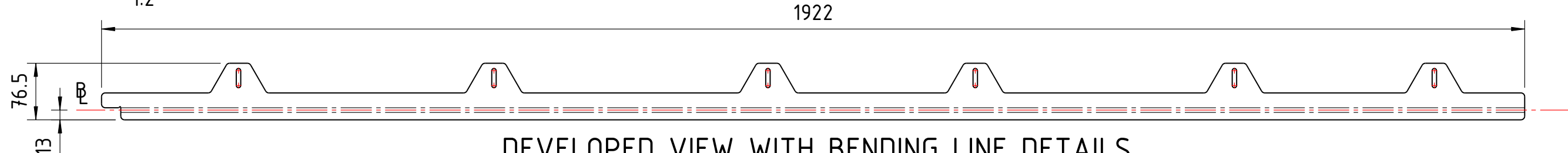
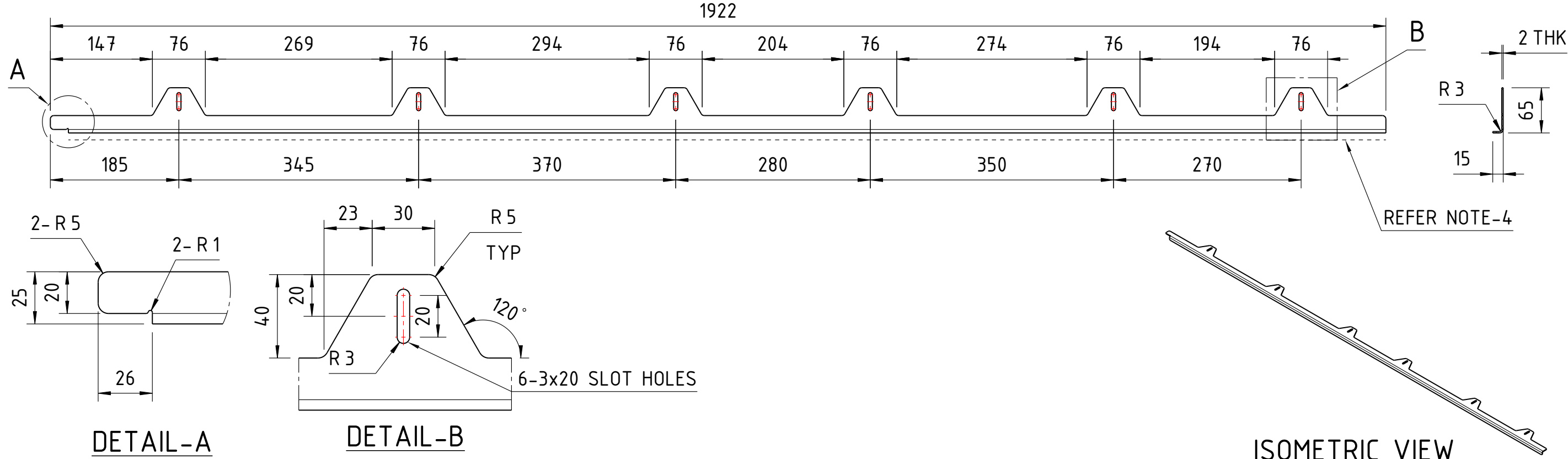
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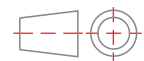
		2				1				
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 – 3	3 – 6	6 – 30	30 – 120	120 – 400	400 – 1000	1000 – 2000	2000 – 4000	
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2					
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.					
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3		WELDING PROCESS SHALL BE AS PER EN ISO-4063				STATUS:		PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553		WELDING POSITIONS SHALL BE AS PER EN ISO 6947								
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817										
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5						

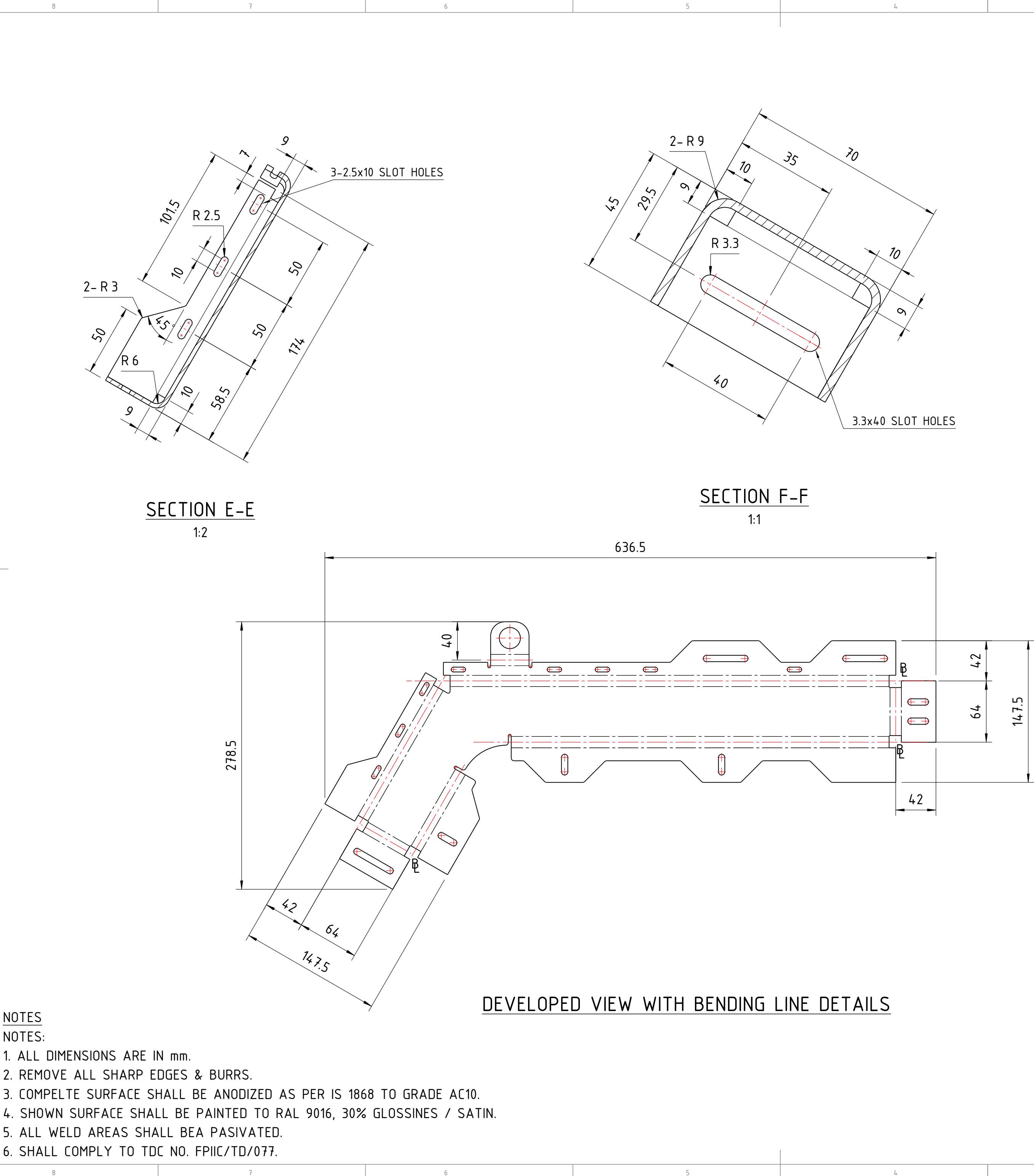


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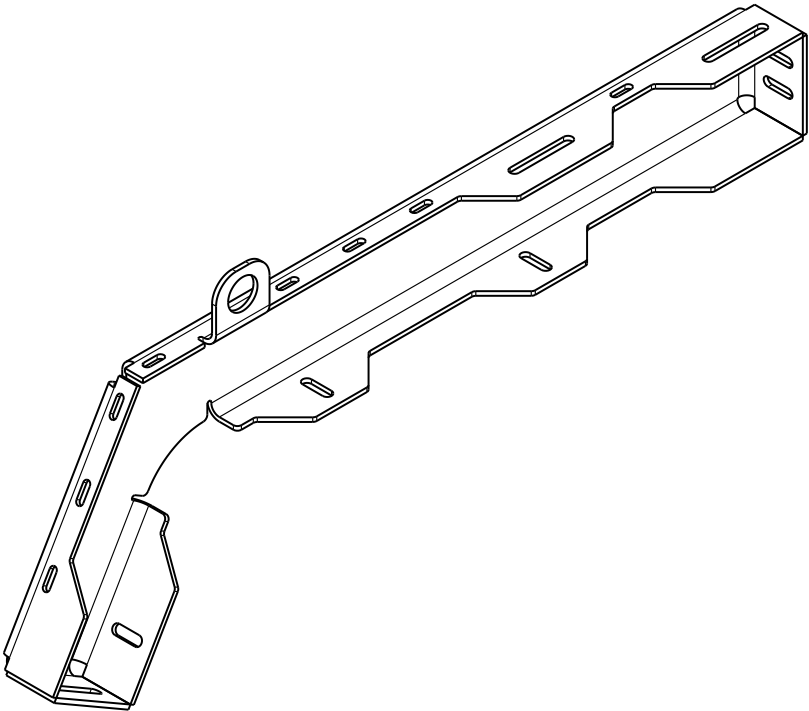
NOTES

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL 7048, 30% GLOSSINES / SATIN.
5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

SL.No.	QTY	PART / STOCK No.				DESCRIPTION	SIZE (mm)		COMPANY STD./I.S		Wt. (Kg)	
							MATERIAL					
						PRODUCT	TRAIN B28					
						REF DRG	---					
						MATERIAL	EN AW-5754-H22 A5052-H32, ASTM B 209					
						HEAT TREAT. SURFACE	---	APPD	KRISHNA PRASAD		27.05.26	
						TREAT. TITLE	---	REVD	KRISHNA PRASAD		27.05.26	
						BRACKET	CHKD	SANTOSH KUMAR		27.05.26		
							DRWN	R ABINAYA		27.05.26		
							SCALE		SHEET	Wt.(kg)		
							1:3		1 OF 1	0.44		
ALT.No.	ECN No./CHANGES		DATE	BY	CHKD	APPD	BANGALORE COMPLEX				DRG No.	ALT
							843-27318					



3		2					1				
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM		RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000	
		TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1						GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2					
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920						VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.					
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3				WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:	PROTO/PRODUCTION			
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553				WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817											
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3											
						INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



ISOMETRIC VIEW

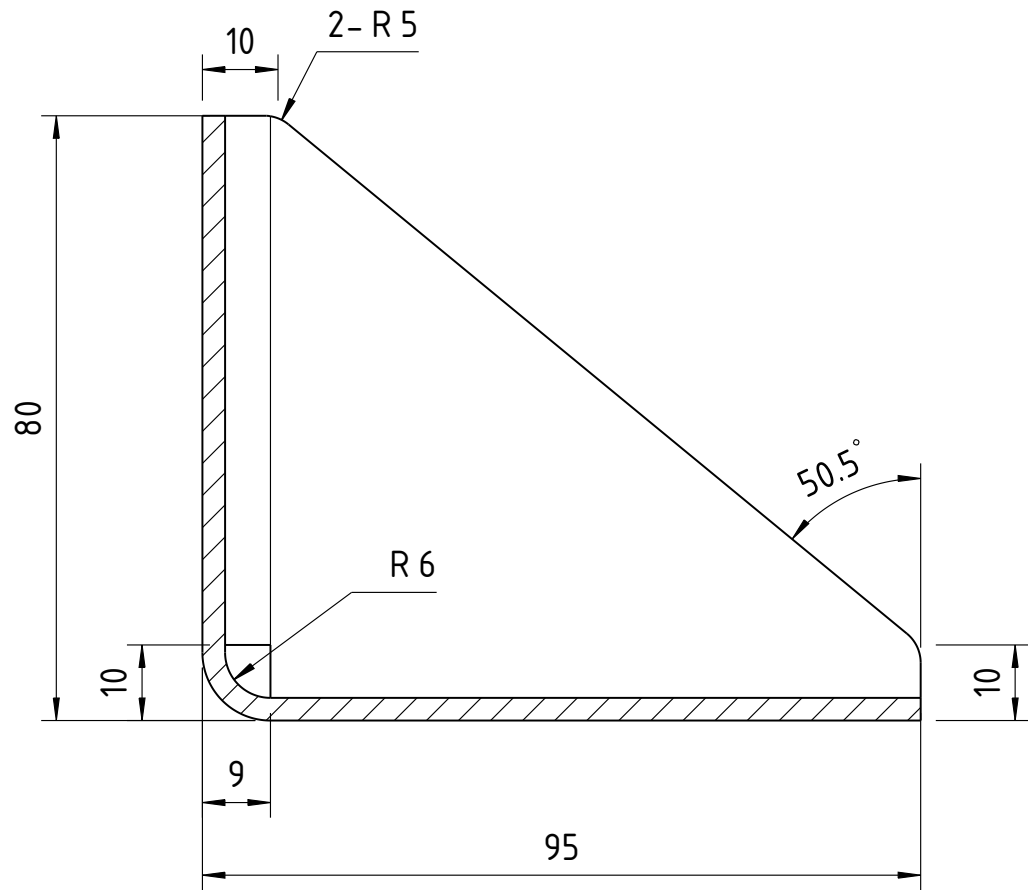
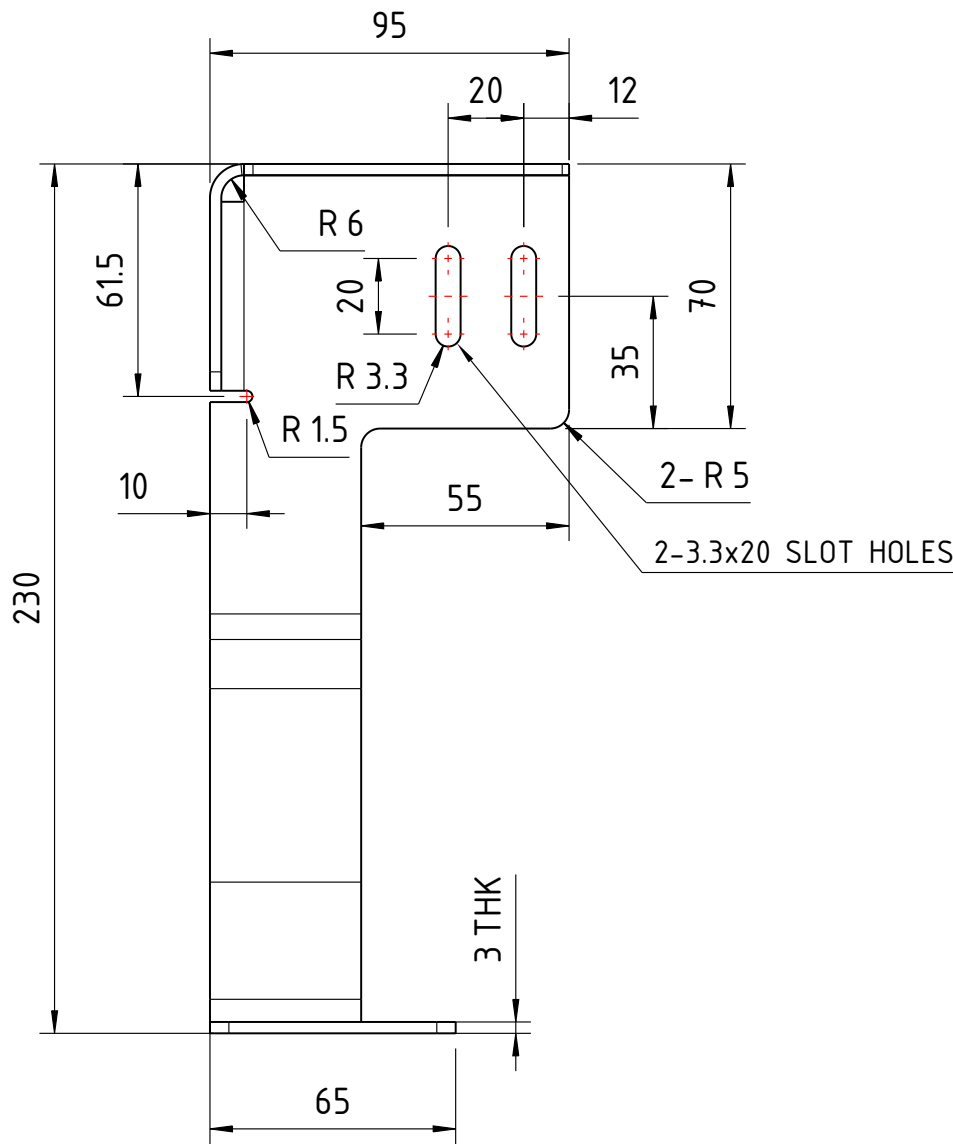
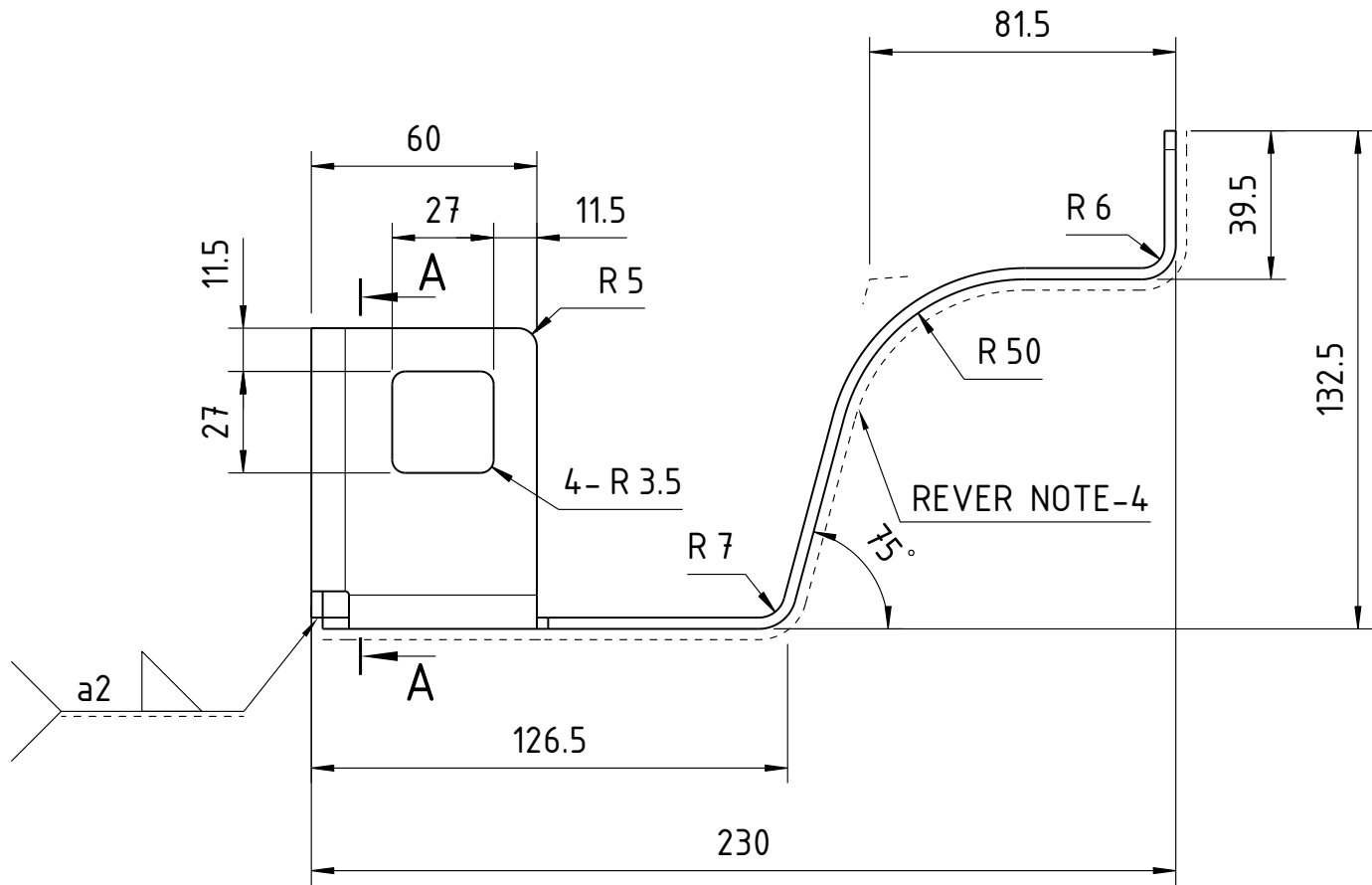
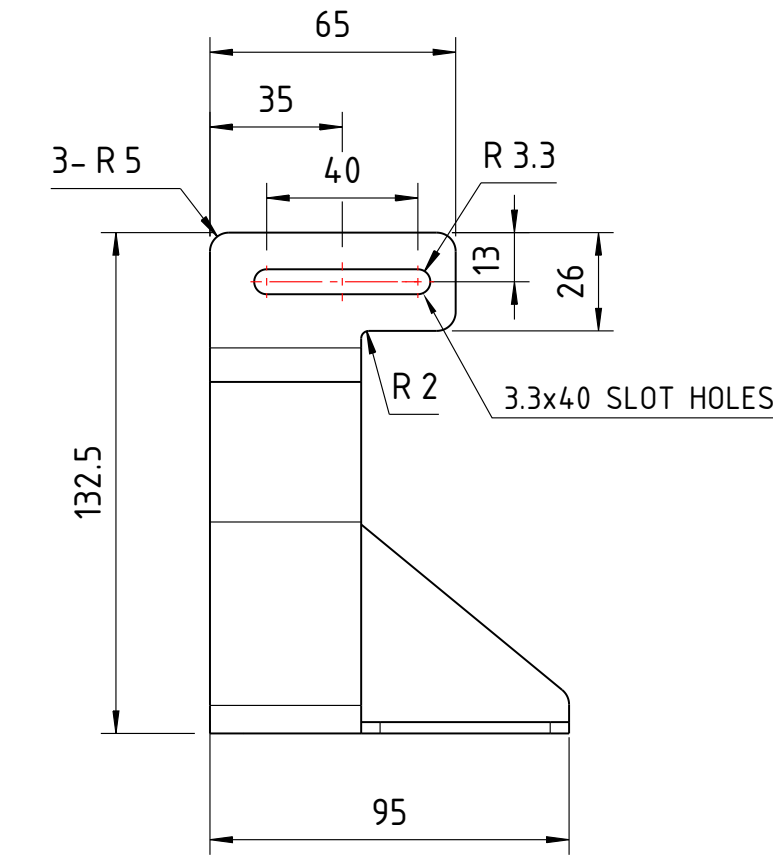
- NOTES
- NOTES:
1. ALL DIMENSIONS ARE IN mm.
 2. REMOVE ALL SHARP EDGES & BURRS.
 3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.
 5. ALL WELD AREAS SHALL BEA PASIVATED.
 6. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

UN CONTROLLED

		---		637x279x3THK					
SL.No.	QTY	PART / STOCK No.		DESCRIPTION		SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)	
							MATERIAL		
				PRODUCT	TRAIN B28				
				REF DRG	---				
				MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209				
				HEAT TREAT.	---	APPD	KRISHNA PRASAD	06.06.26	
				SURFACE TREAT.	---	REVD	KRISHNA PRASAD	06.06.26	
				TITLE	PROFILE		CHKD	SANTOSH KUMAR	06.06.26
						DRWN	R ABINAYA	06.06.26	
						SCALE		SHEET	Wt.(kg)
						2:5		2 OF 2	0.93
						DRG No.	843-27327		ALT
									
ALT.No.	ECN No./CHANGES		DATE	BY	CHKD	APPD	BANGALORE COMPLEX		A
3							1		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												

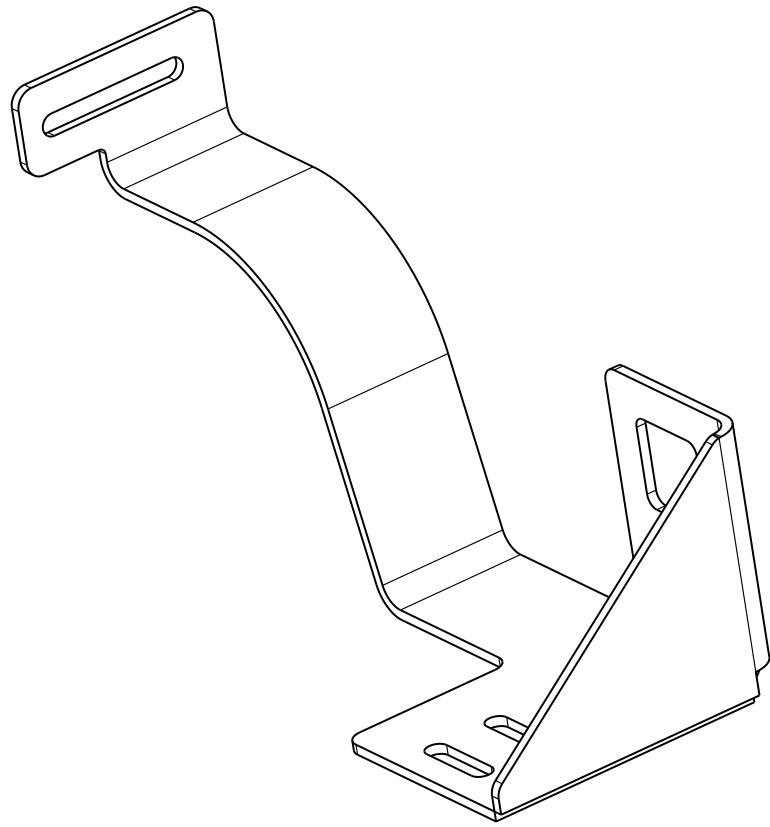
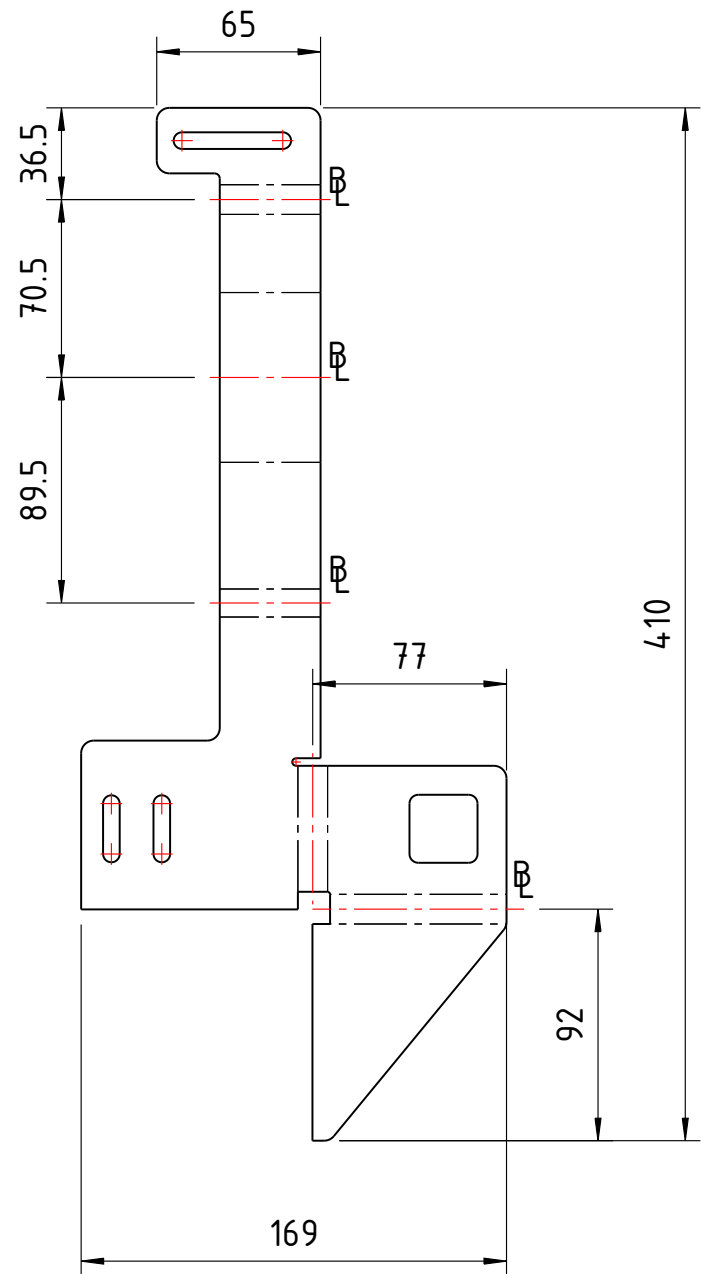


SECTION A-A
1:1

- NOTES
1. ALL DIMENSIONS ARE IN mm.
 2. REMOVE ALL SHARP EDGES & BURRS.
 3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 4. ALL WELD AREAS SHALL BE PASSIVATED.
 5. SHOWN SURFACE SHALL BE POWDER COATED TO RAL 9016, 30% GLOSSINES / SATIN.
 6. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

UN CONTROLLED

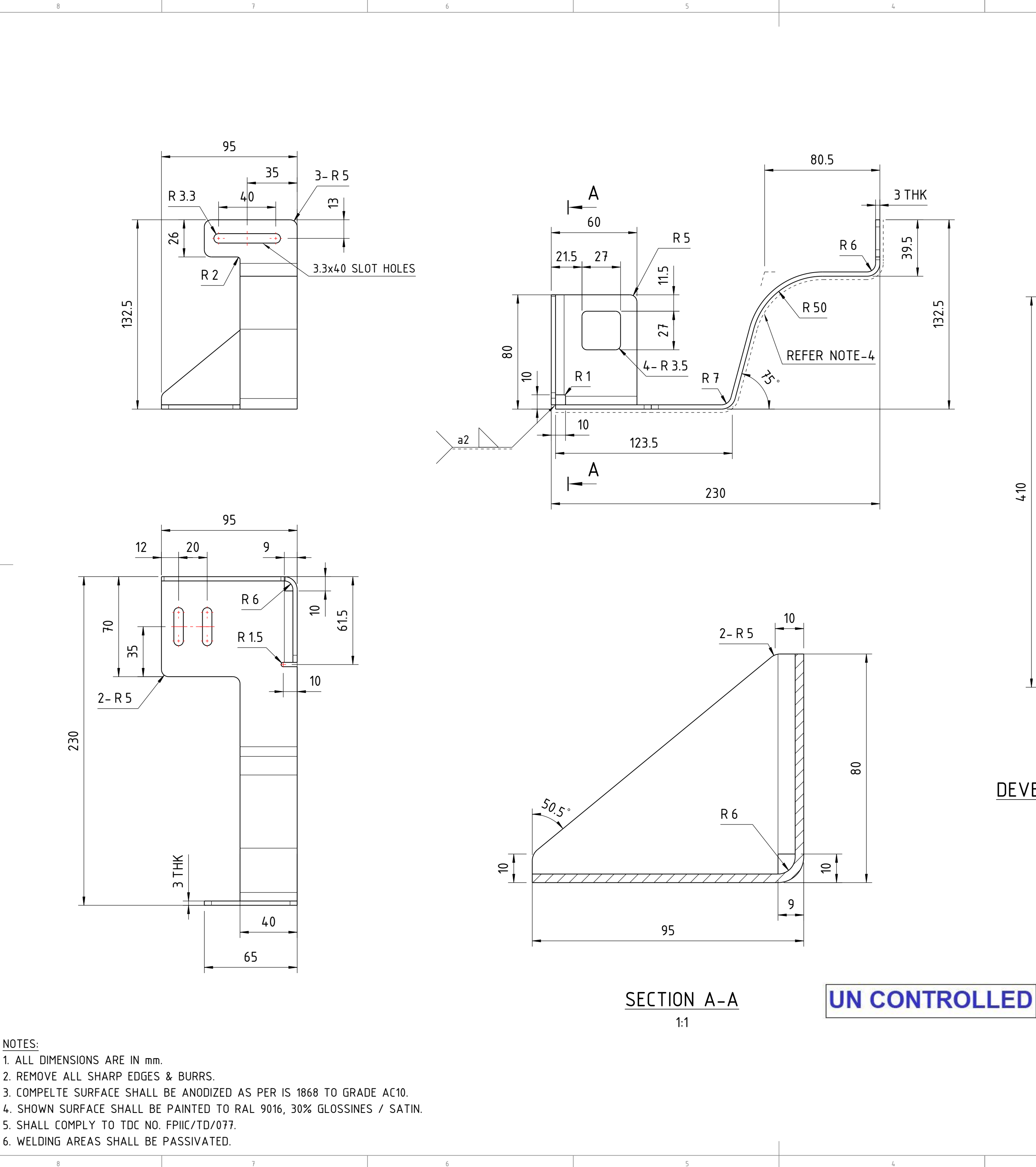
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM		RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
		TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1						GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920						VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-6063			STATUS:		PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817			WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3							
INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5										



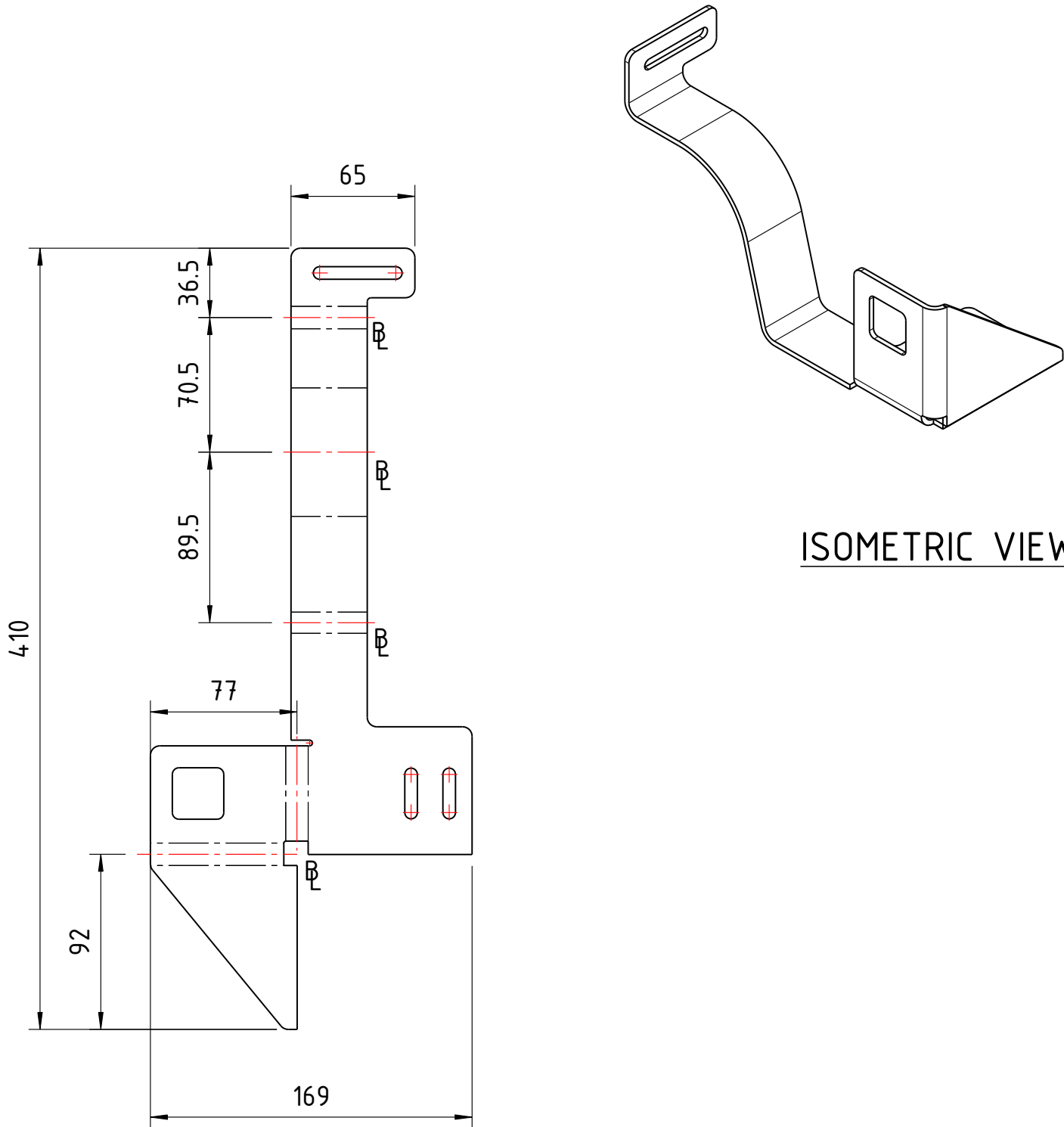
ISOMETRIC VIEW

DEVELOPED VIEW WITH BENDING LINE DETAILS

		---		169x410x3THK							
SL.No.	QTY	PART / STOCK No.		DESCRIPTION		SIZE (mm)		COMPANY STD./I.S	Wt. (Kg)		
						MATERIAL					
					PRODUCT	TRAIN B28					
					REF DRG	--					
					MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209					
					HEAT TREAT.	--	APPD	KRISHNA PRASAD	06.06.26		
					SURFACE TREAT.	--	REVD	KRISHNA PRASAD	06.06.26		
					TITLE	BRACKET			CHKD	SANTOSH KUMAR	06.06.26
									DRWN	R ABINAYA	06.06.26
					SCALE		SHEET	1 OF 1	Wt.(kg)	0.19	
ALT.No.	ECN No./CHANGES	DATE	BY	CHKD	APPD	DRG No.		843-27338		ALT	
BANGALORE COMPLEX											



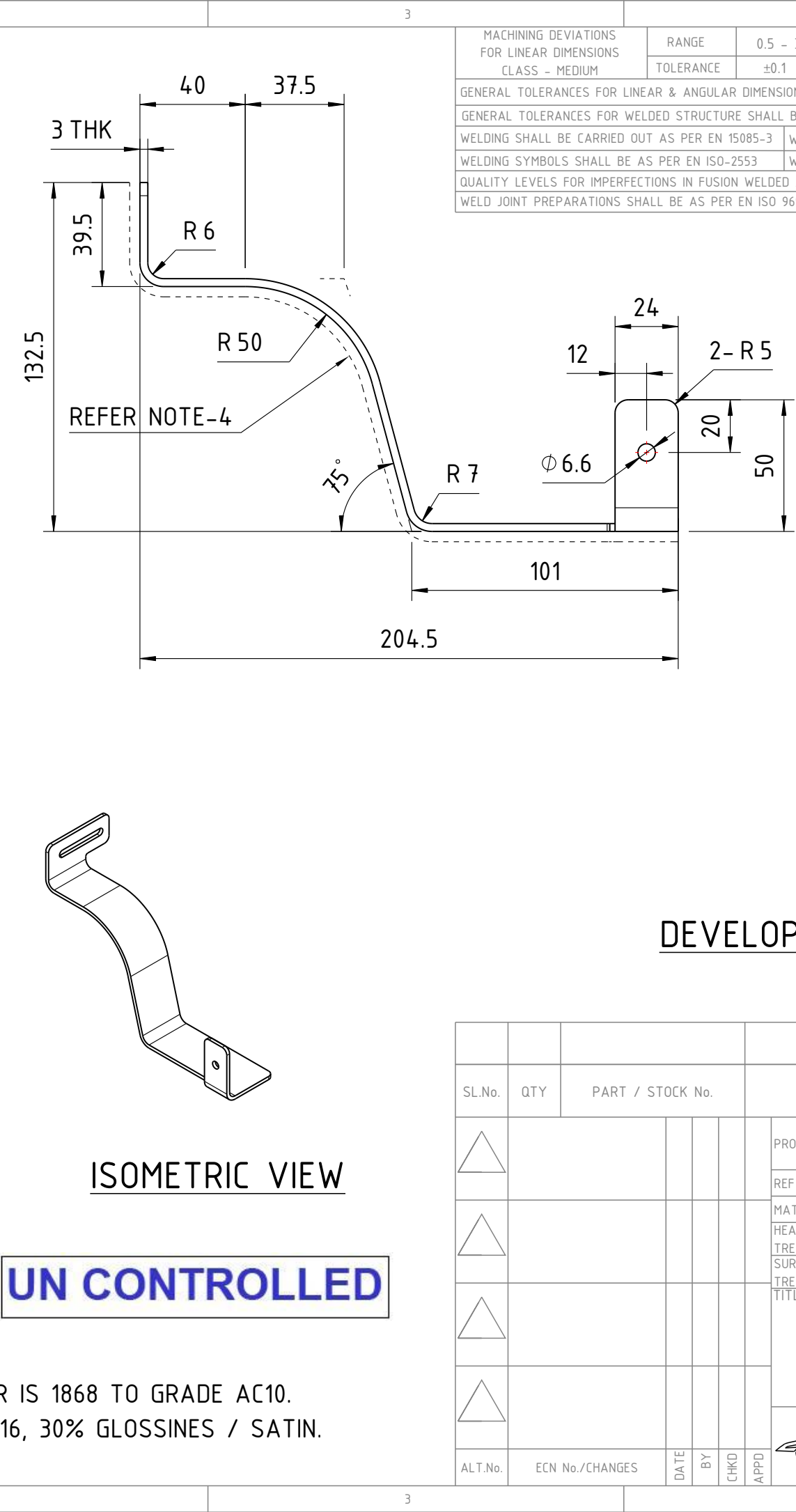
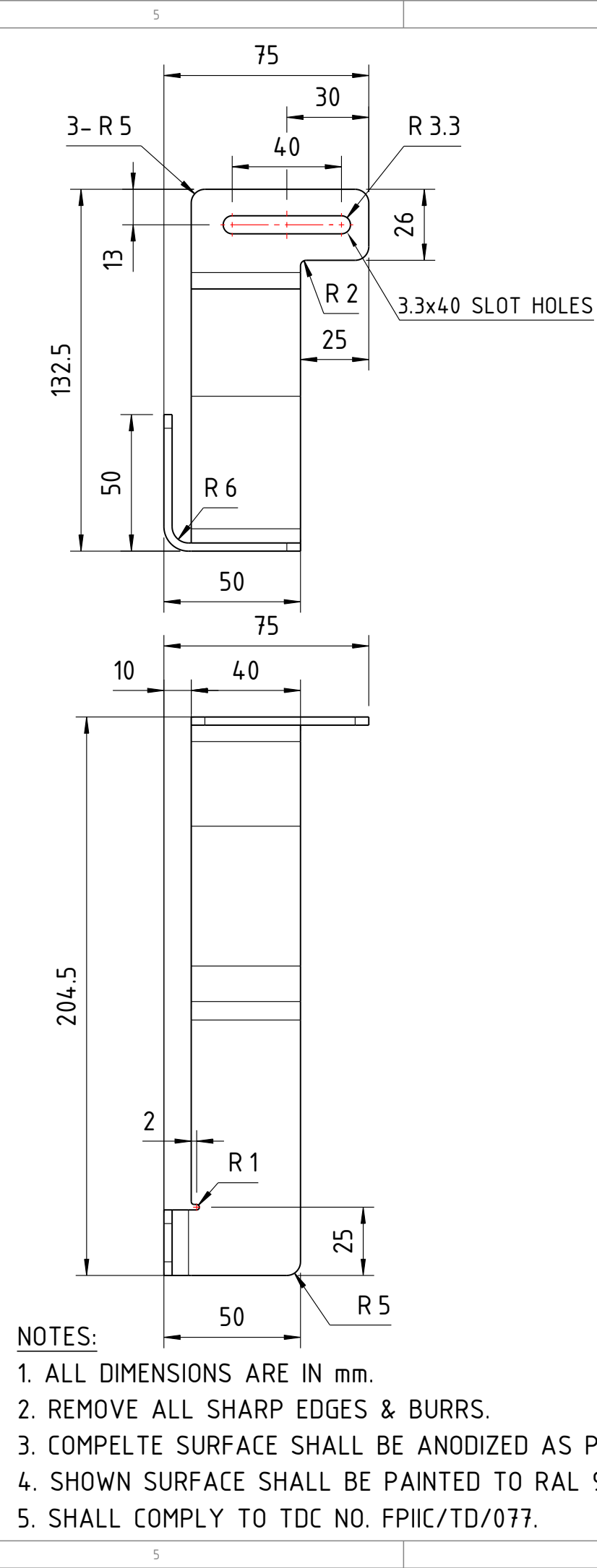
		2					1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000	
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2					
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.					
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-6063		STATUS:		PROTO/PRODUCTION			
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817										
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3					INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



DEVELOPED VIEW WITH BENDING LINE DETAILS

- NOTES:
1. ALL DIMENSIONS ARE IN mm.
 2. REMOVE ALL SHARP EDGES & BURRS.
 3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.
 5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.
 6. WELDING AREAS SHALL BE PASSIVATED.

		---		410x169x3THK			
SL.No.	QTY	PART / STOCK No.		DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)
				PRODUCT	TRAIN B28		
				REF DRG	---		
				MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209		
				HEAT TREAT.	---	APPD	KRISHNA PRASAD 06.06.26
				SURFACE TREAT.	---	REVD	KRISHNA PRASAD 06.06.26
				TITLE	BRACKET		
				DRWN	R ABINAYA 06.06.26		
				SCALE	1:2	SHEET	1 OF 1 0.19
				ALT	0		
ALT.No.	ECN No./CHANGES	DATE	BY	CHKD	APPD	BANGALORE COMPLEX	
						843-27339	



MACHINING DEVIATIONS FOR LINEAR DIMENSIONS		RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
CLASS - MEDIUM		TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1						GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920						VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:		PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817										
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3						INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5				

DEVELOPED VIEW WITH BENDING LINE DETAILS

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)
				296x119x3THK		
					MATERIAL	
			PRODUCT	TRAIN B28		
			REF DRG	---		
			MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209		
			HEAT TREAT.	---	APPD	KRISHNA PRASAD 06.02.26
			SURFACE TREAT.	---	REVD	KRISHNA PRASAD 06.02.26
			TREAT. TITLE		CHKD	SANTOSH KUMAR 06.02.26
					DRWN	R ABINAYA 06.02.26
					SCALE	1:2
					SHEET	1 OF 1
					Wt.(kg)	0.11
					DRG No.	843-27340
					ALT	0

BRACKET

BANGALORE COMPLEX

Technical drawing of a rectangular plate. The main view shows a rectangle with overall dimensions of 174 (width) and 224 (height). The inner dimensions are 154 (width) and 204 (height). There are four circular holes, one in each corner, with a diameter of 10. The corners are rounded with a radius of 5 (4-R 5). Section lines A-A are indicated. A detail view, SECTION A-A, shows a cross-section of the plate with a thickness of 2. The section view also shows a 90-degree angle and a 13.5 dimension. A note 'REFER NOTE-4' points to the section view. The bottom edge of the plate is labeled '2 THK'.

174
154
10
10
224
204
4 - R 5
A
A
2
9.5
13.5
90°
SECTION A-A
1:1
REFER NOTE-4
2 THK

NOTES

1:1

REFER NOTE-4

2 THK

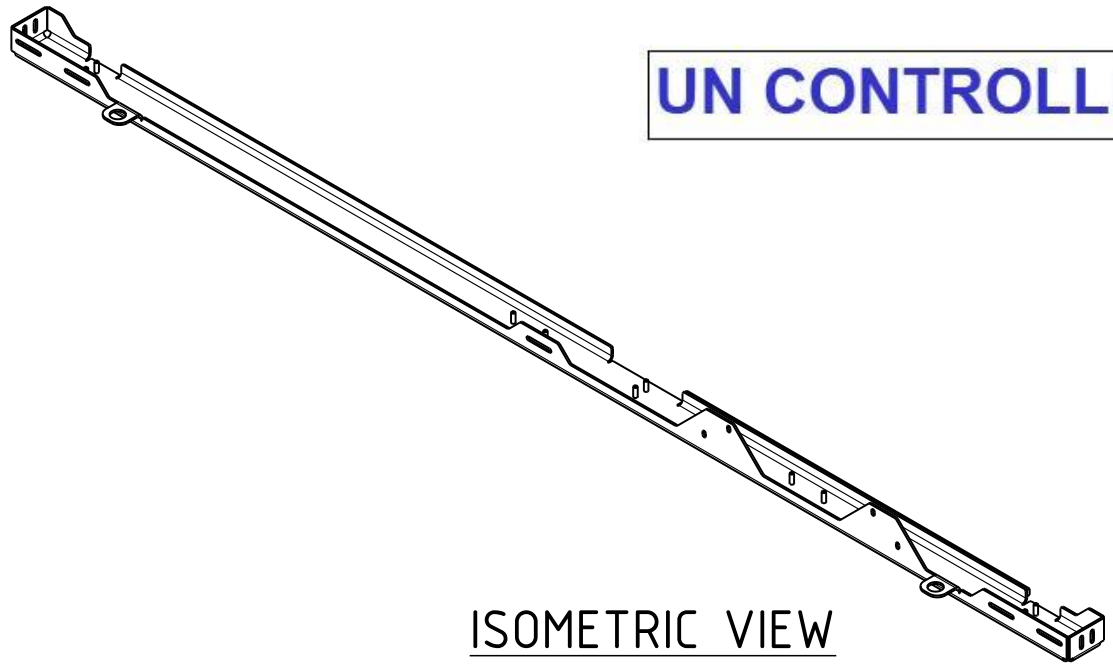
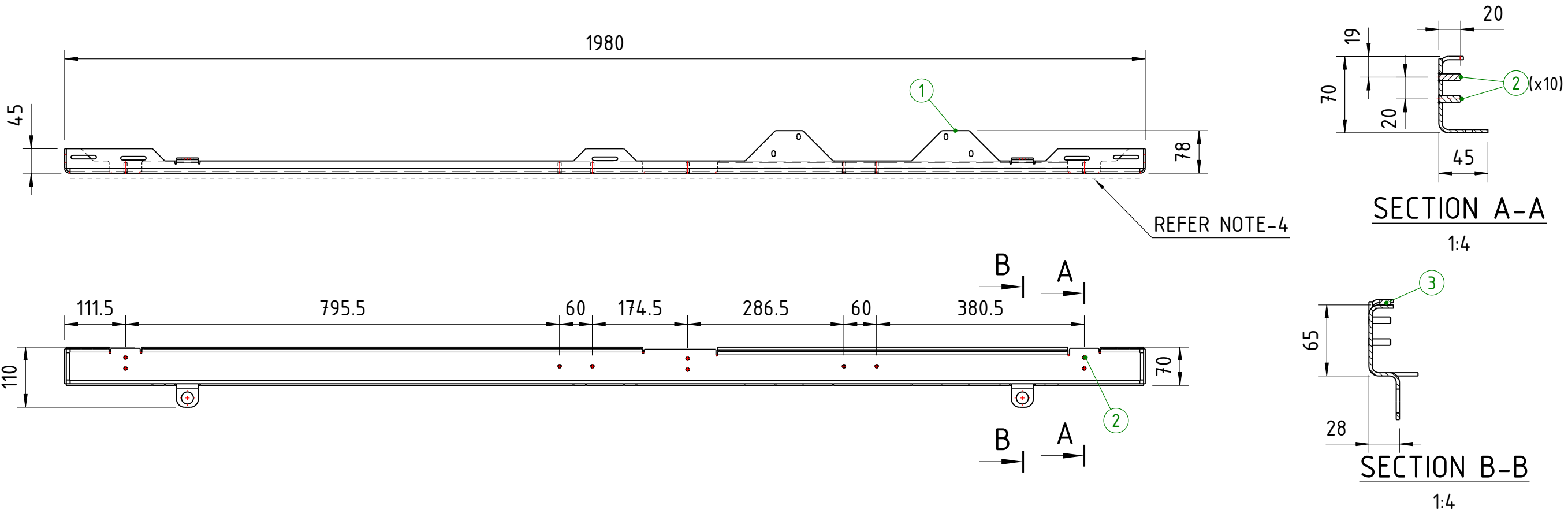
1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL 7048,30% GLOSSINES / SATIN.
5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

UN CONTROLLED

A4

GRADE No.	VALUE	SYMBOL
SURFACE ROUGHNESS		

		2				1				
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0,5 – 3	3 – 6	6 – 30	30 – 120	120 – 400	400 – 1000	1000 – 2000	2000 – 4000	
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2					
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.					
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3		WELDING PROCESS SHALL BE AS PER EN ISO-4063				STATUS:		PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553		WELDING POSITIONS SHALL BE AS PER EN ISO 6947								
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817										
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3					INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



UN CONTROLLED

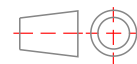
NOTES:

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.
5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

ISOMETRIC VIEW

ISOMETRIC VIEW

3	1	843-27377	RECTANGULAR SEALS EPDM		L=641mm		EPDM	
2	10	843-20133	SELF CLINCHING STUD		M6X20		A2-70	
1	1	843-27320	PROFILE		--		EN AW-5754-H22	

SL.No.	QTY	PART / STOCK No.				DESCRIPTION		SIZE (mm)	COMPANY STD./I.S		Wt. (Kg)
											MATERIAL
						PRODUCT	TRAIN B28				
						REF DRG	----				
						MATERIAL	----				
						HEAT TREAT.	----	APPD	KRISHNA PRASAD	12.06.26	
						SURFACE TREAT.	----	REVD	KRISHNA PRASAD	12.06.26	
						TITLE			CHKD	SANTOSH KUMAR	12.06.26
								DRWN	SANTOSH KUMAR	12.06.26	
								SCALE		SHEET	Wt.(kg)
								1:8		1 OF 1	1.89
ALT.No.						ECN No./CHANGES		DATE	BY	CHKD	APPD



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BANGALORE
COMPLEX

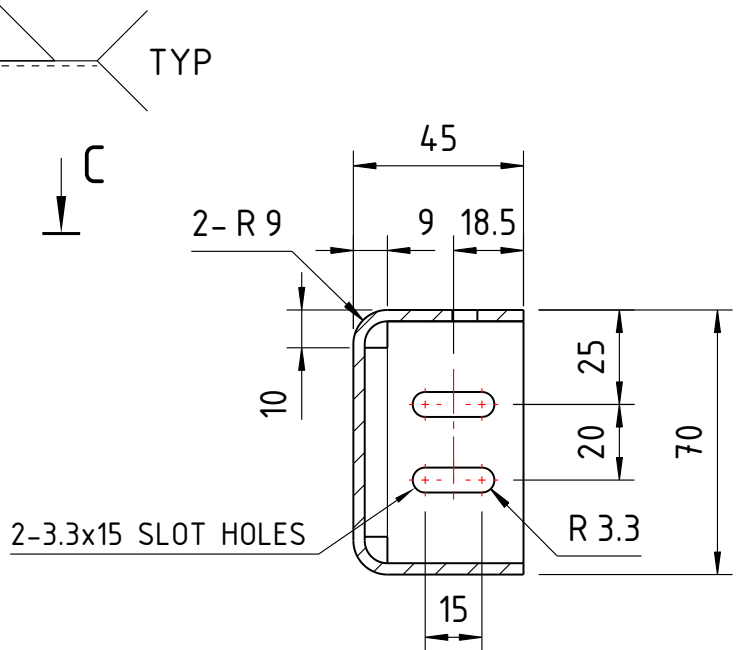
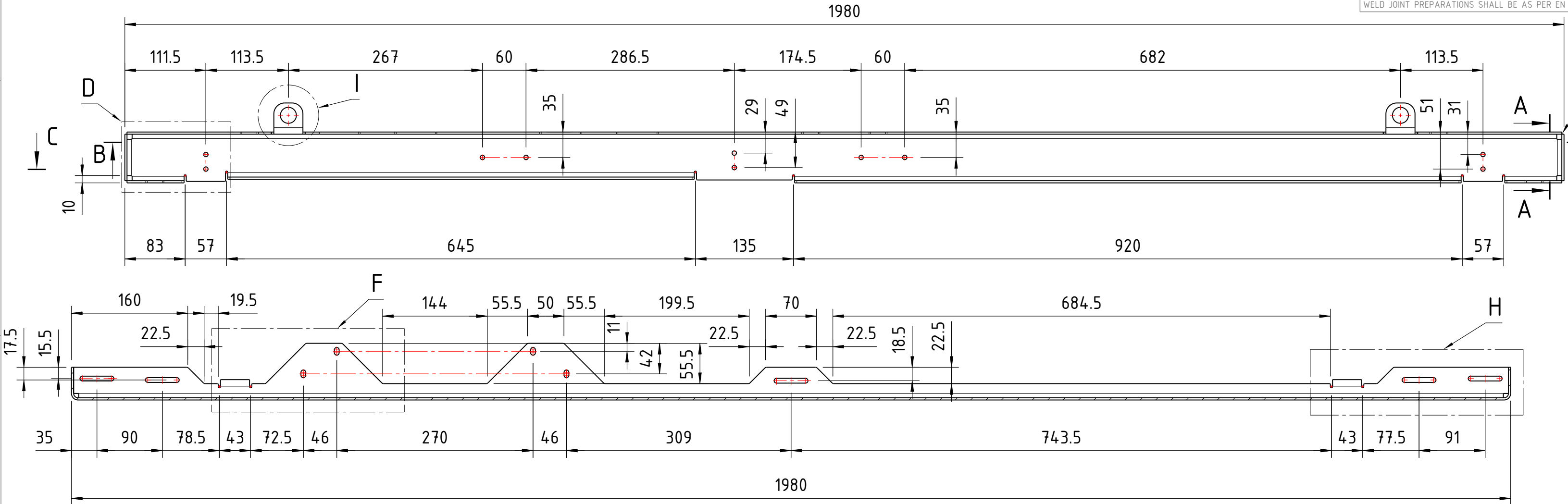
DRG No.
843-27542

ALT
0

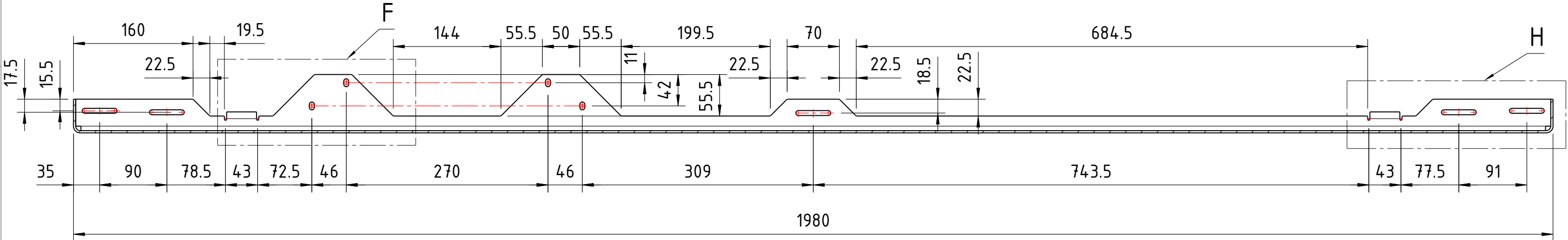
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GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12
VALUE	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
SYMBOL												
SURFACE ROUGHNESS												

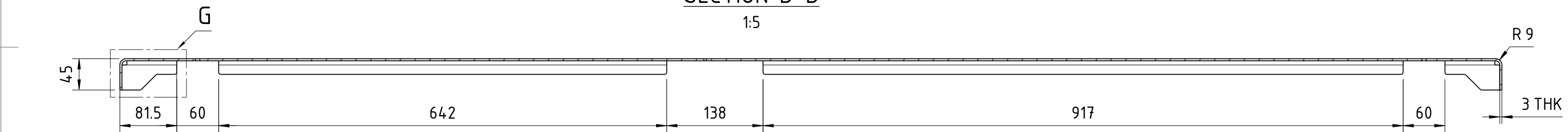
		2					1				
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000		
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2		
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2						
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.						
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:		PROTO/PRODUCTION			
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947								
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817											
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3					INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5						



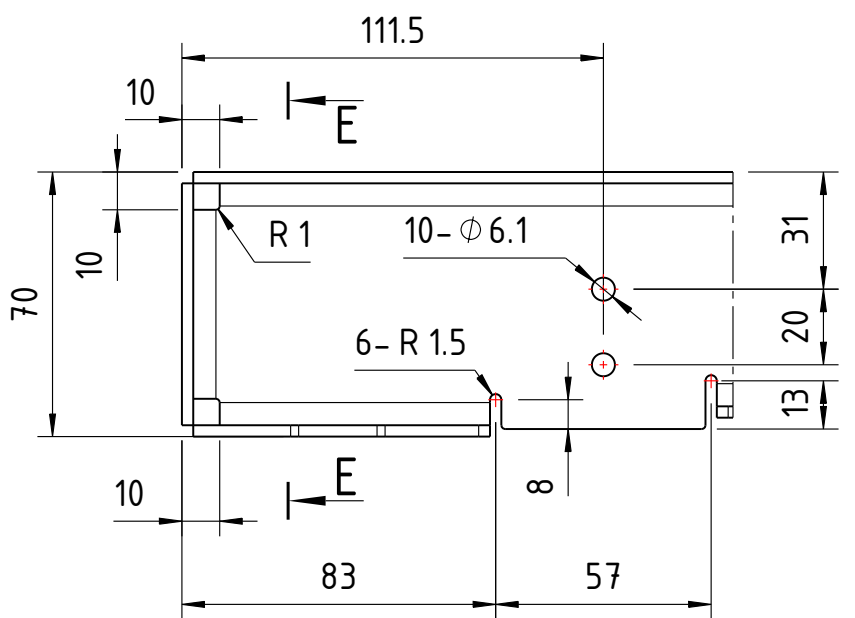
SECTION A-A
1:2



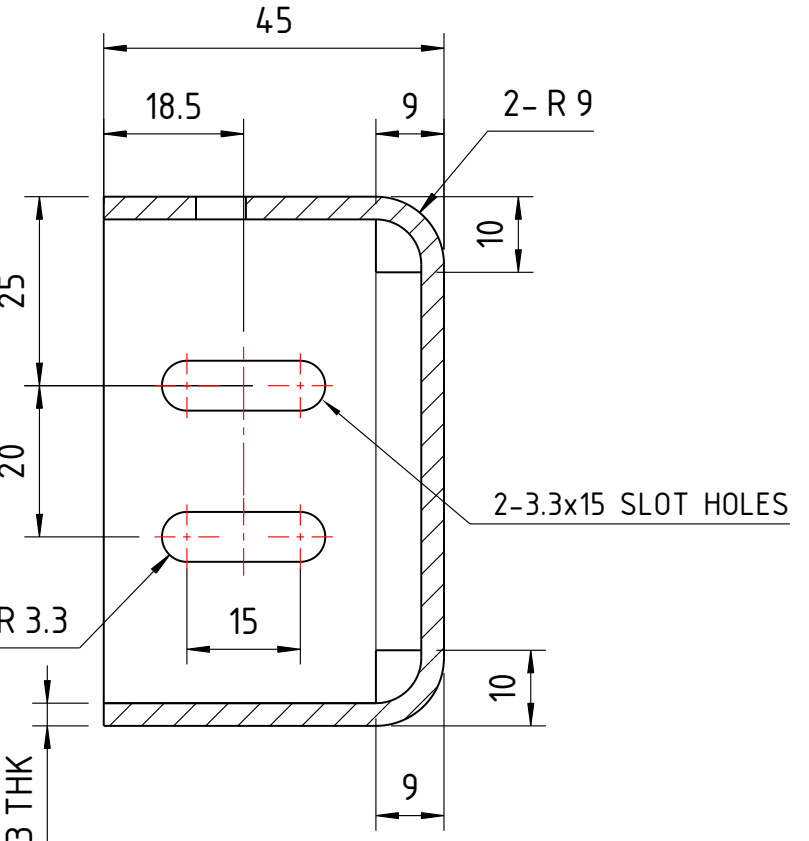
SECTION B-B
1:5



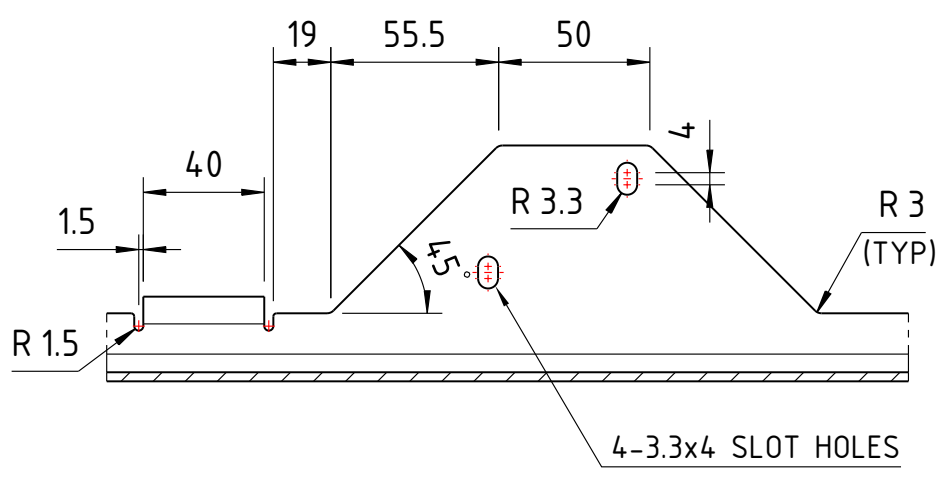
SECTION C-C
1:5



DETAIL-D
1:2



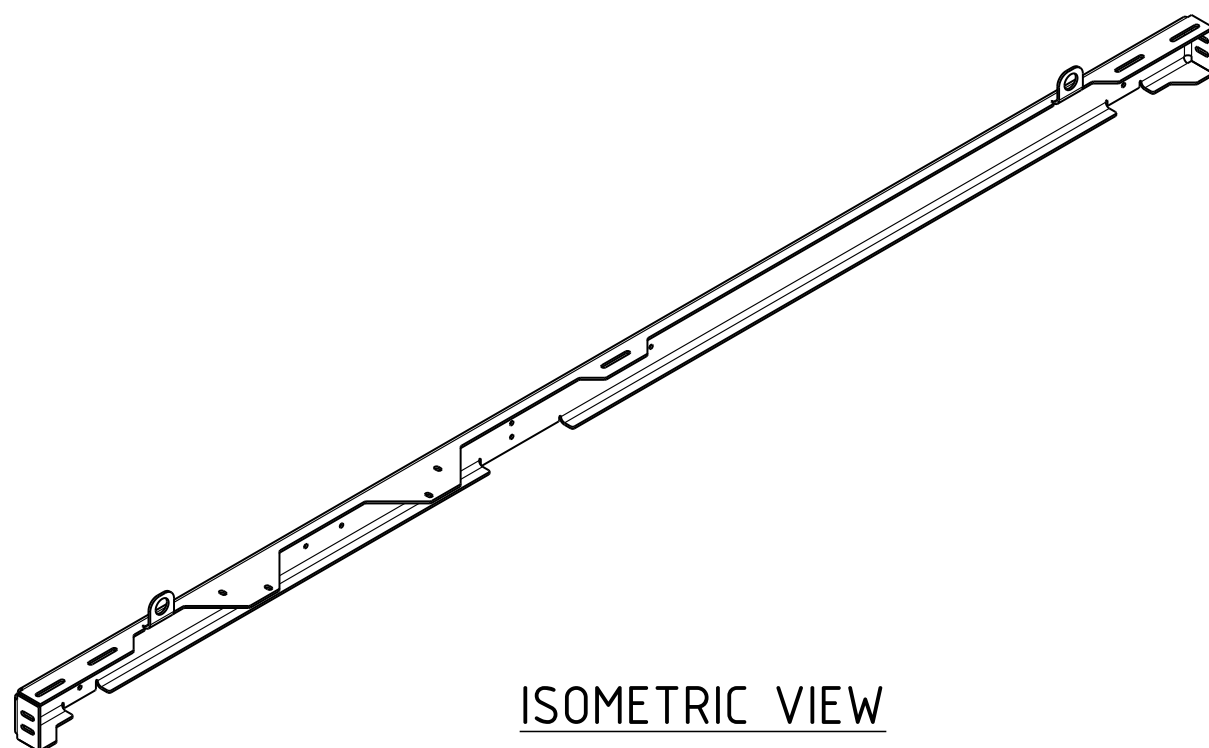
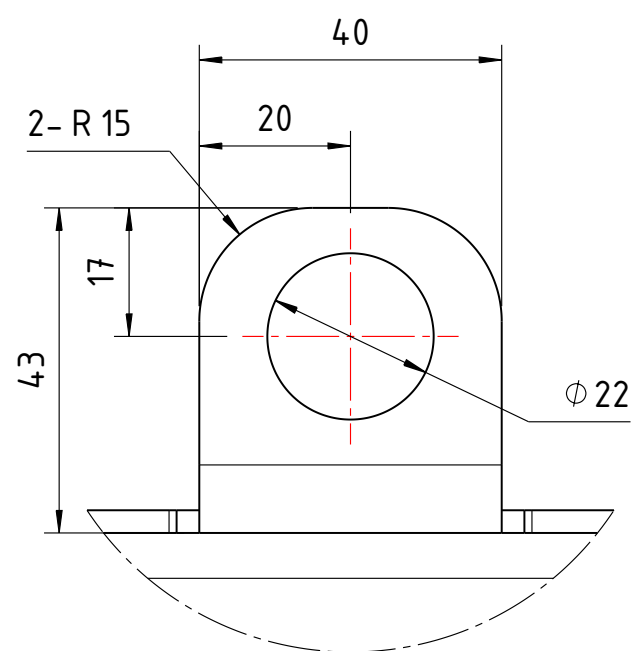
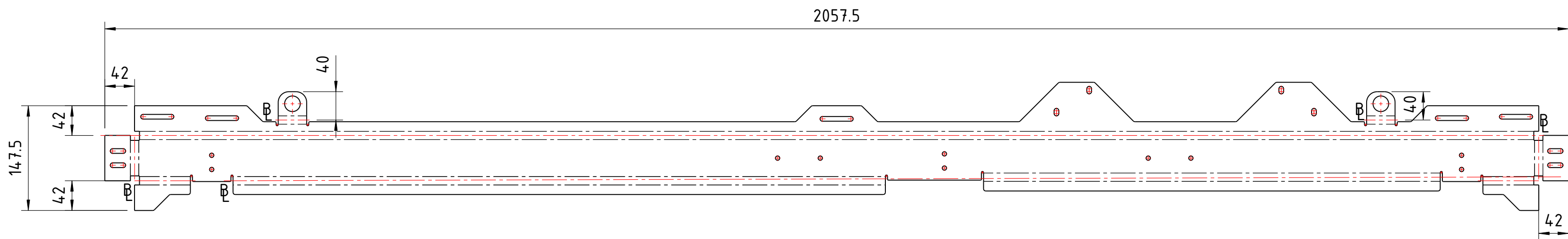
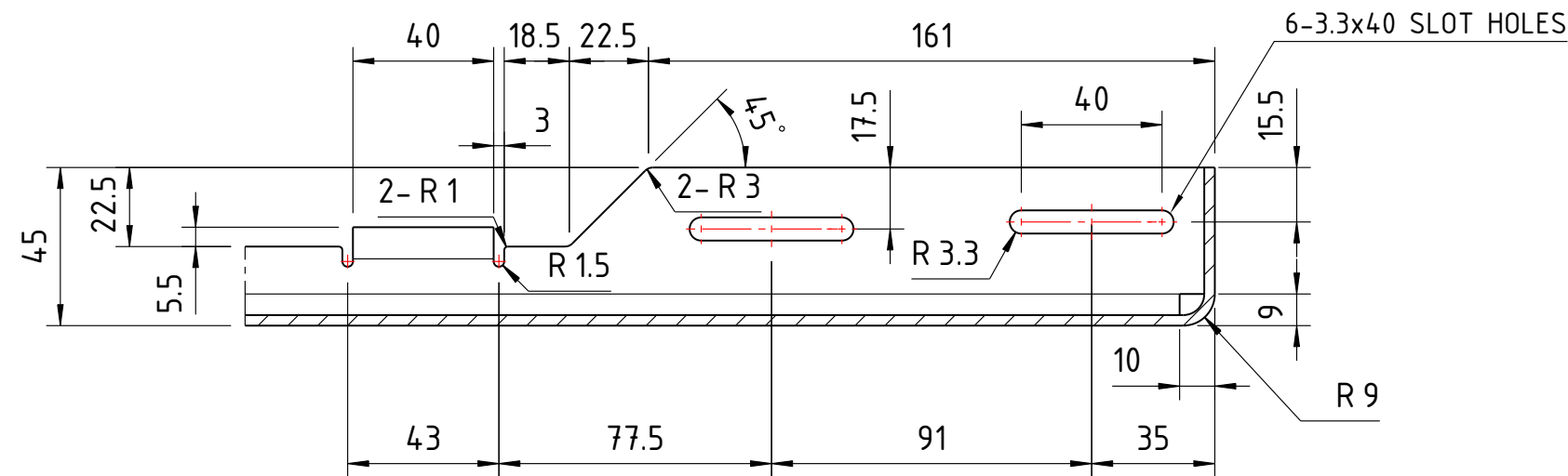
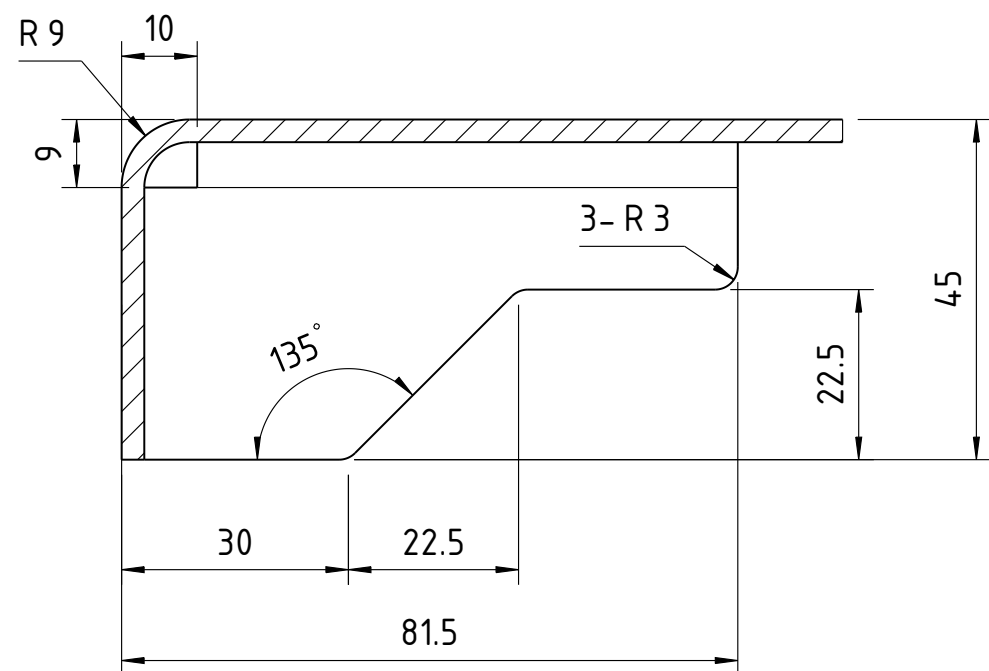
SECTION E-E
1:1



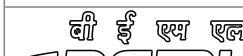
DETAIL-F
2:5

SL.No.		QTY	PART / STOCK No.		DESCRIPTION		SIZE (mm)		COMPANY STD./I.S		Wt. (Kg)	
							2058x148x3THK					
									MATERIAL			
					PRODUCT		TRAIN B28					
					REF DRG		---					
					MATERIAL		EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209					
					HEAT TREAT.		---		APPD KRISHNA PRASAD		08.06.26	
					SURFACE TREAT.		---		REVD KRISHNA PRASAD		08.06.26	
					TITLE		PROFILE		CHKD SANTOSH KUMAR		08.06.26	
									DRWN R ABINAYA		08.06.26	
					SCALE		1:5		SHEET 1 OF 1		Wt.(kg) 1.8	
					ALT		0					
ALT.No.		ECN No./CHANGES		DATE	BY	CRD	APPD	BANGALORE COMPLEX		843-27320		ALT

3		2					1				
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM		RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000	
		TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1						GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2					
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 1920						VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.					
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS: PROTO/PRODUCTION					
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947								
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817											
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3						INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



UN CONTROLLED

		---					2058x148x3THK				
SL.No.	QTY	PART / STOCK No.				DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)		
								MATERIAL			
						PRODUCT	TRAIN B28				
						REF DRG	--				
						MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209				
						HEAT TREAT.	--	APPD	KRISHNA PRASAD	08.06.26	
						SURFACE TREAT.	--	REV D	KRISHNA PRASAD	08.06.26	
						TITLE	PROFILE	CHKD	SANTOSH KUMAR	08.06.26	
								DRWN	R ABINAYA	08.06.26	
								SCALE		SHEET	Wt.(kg)
								1:5		2 OF 2	1.8
ALT.No.	ECN No./CHANGES	DATE	BY	CHKD	APPD	BANGALORE COMPLEX		DRG No.		843-27320	ALT
											

NOTES

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. ALL WELD AREAS SHALL BE PASSIVATED.
5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

5

4

3

2

1

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2

GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1

GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920

WELDING SHALL BE CARRIED OUT AS PER EN 15085-3

WELDING SYMBOLS SHALL BE AS PER EN ISO-2553

QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817

WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3

GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2

VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.

WELDING PROCESS SHALL BE AS PER EN ISO-4063

WELDING POSITIONS SHALL BE AS PER EN ISO 6947

INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5

STATUS:

PROTO/PRODUCTION

1305

45

1

19

105.5

116

384

116

334

116

17.5

3

A

B

REFER NOTE-4

20

25

20

34

2

12

52.5

3(x6)

3

SECTION A-A

1:2

SECTION B-B

1:2

ISOMETRIC VIEW

NOTES:

1. ALL DIMENSIONS ARE IN mm.

2. REMOVE ALL SHARP EDGES & BURRS.

3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.

4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.

5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

UN CONTROLLED

3	6	BOLLHOFF 343 48 050 020	RIVET NUT	M5	SS
2	2	843-20133	SELF CLINCHING STUD	M6-20	A2-70
1	1	843-27321	PROFILE	--	EN AW-5754-H22

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)
					MATERIAL	
△			PRODUCT	TRAIN B28		
△			REF DRG	---		
△			MATERIAL	---		
△			HEAT TREAT.	---	APPD	KRISHNA PRASAD 12.06.26
△			SURFACE TREAT.	---	REVD	KRISHNA PRASAD 12.06.26
△			TITLE	---	CHKD	SANTOSH KUMAR 12.06.26
△				---	DRWN	SANTOSH KUMAR 12.06.26
△				---	SCALE	1:5
△				---	SHEET	1 OF 1
△				---	Wt.(kg)	1.15
△				---	DRG No.	843-27543
△				---	ALT	0

ALT.No.

ECN No./CHANGES

DATE

BY

CHKD

APPD

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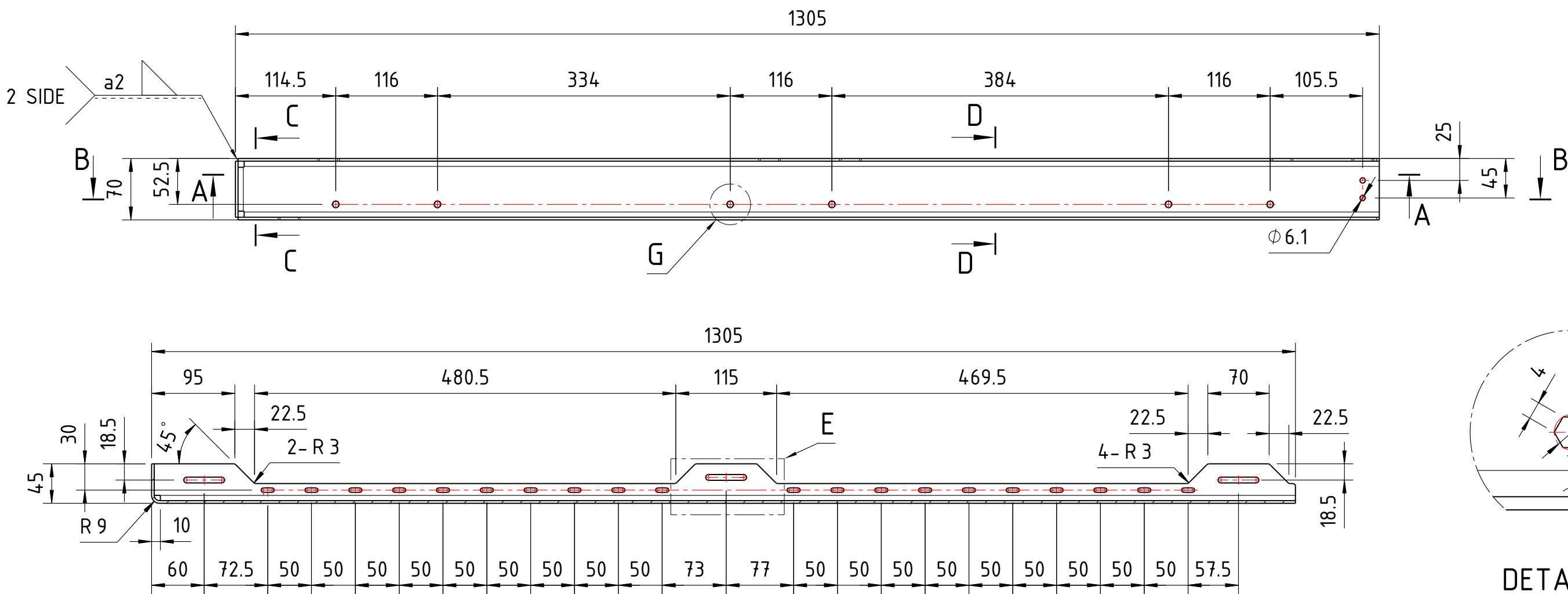
BEML Beyond Possibilities

A3

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

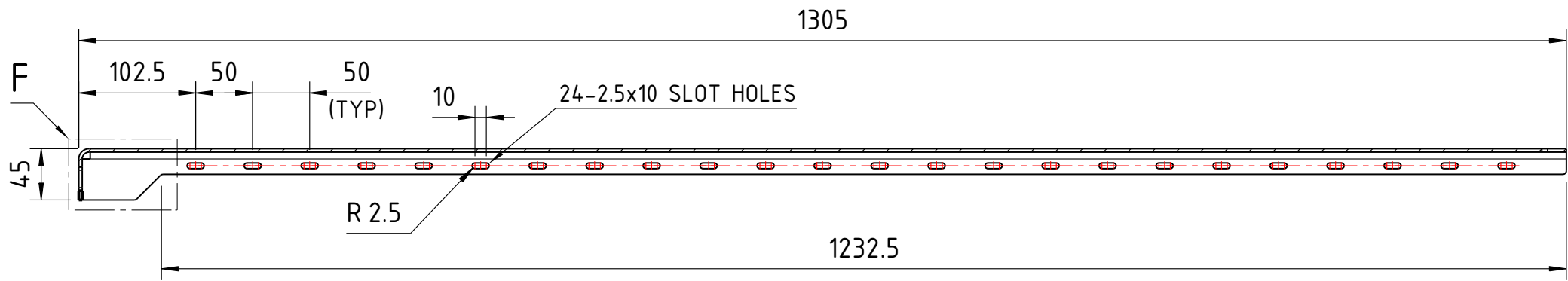


SECTION A-A
1:5

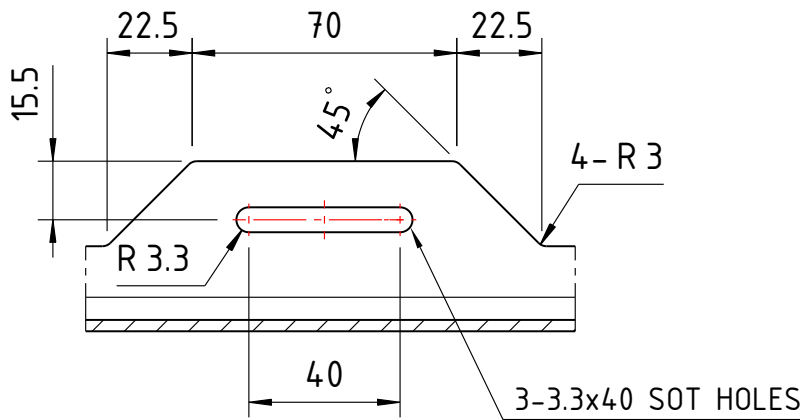
SECTION D-D
2:5

DETAIL-G
1:1

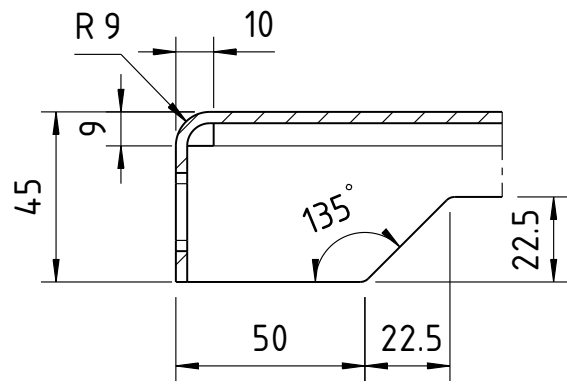
SECTION C-C
1:1



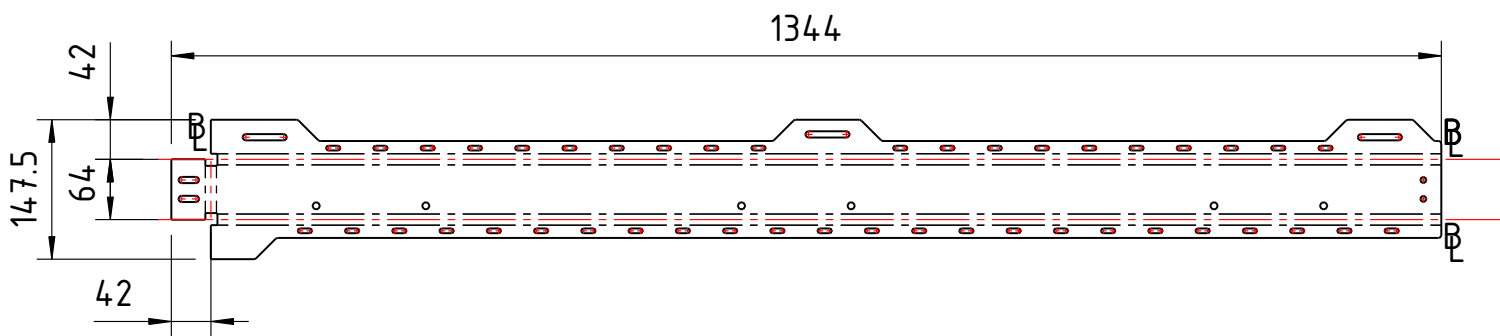
SECTION B-B
1:5



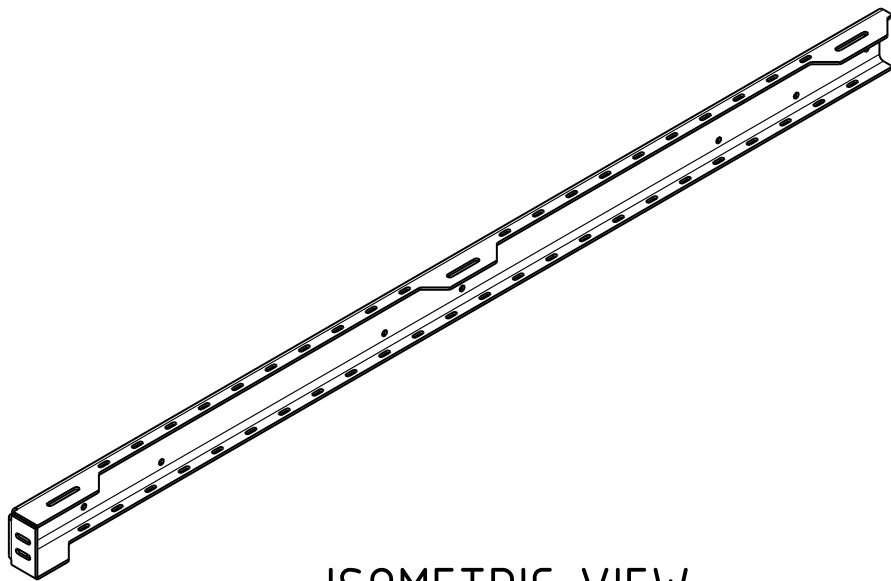
DETAIL-E
1:2



DETAIL-F
1:2



DEVELOPED VIEW WITH BENDING LINE DETAILS



ISOMETRIC VIEW

NOTES

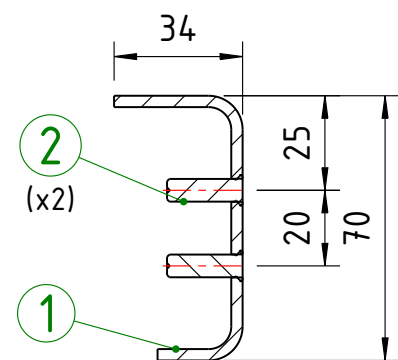
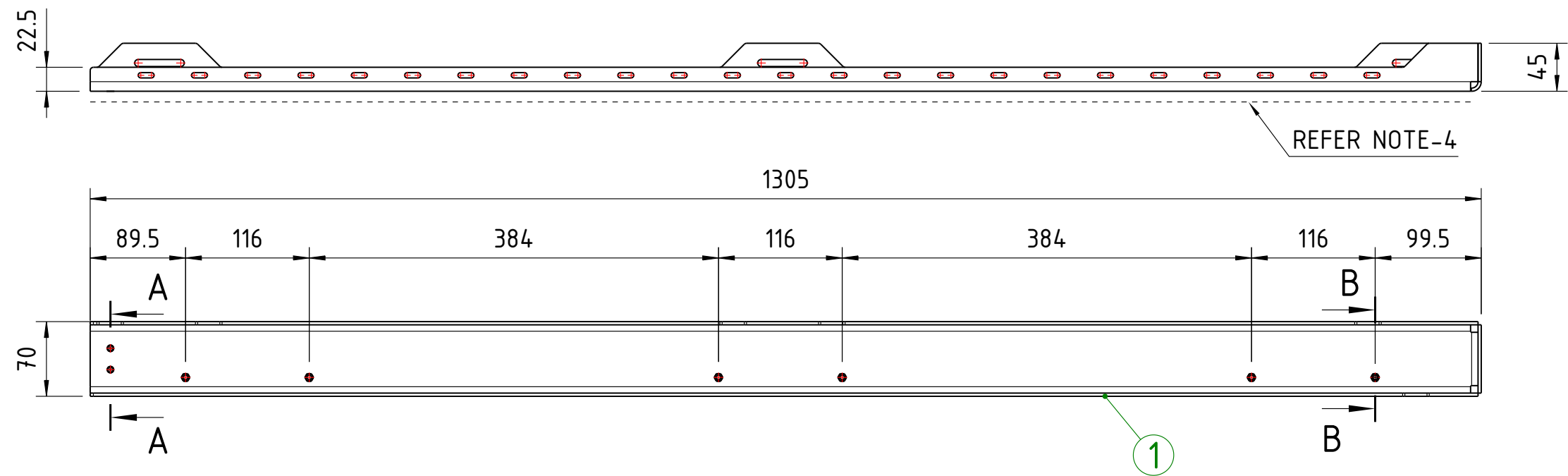
1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. ALL WELD AREAS SHALL BE PASSIVATED.
5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-6063			STATUS:	PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					

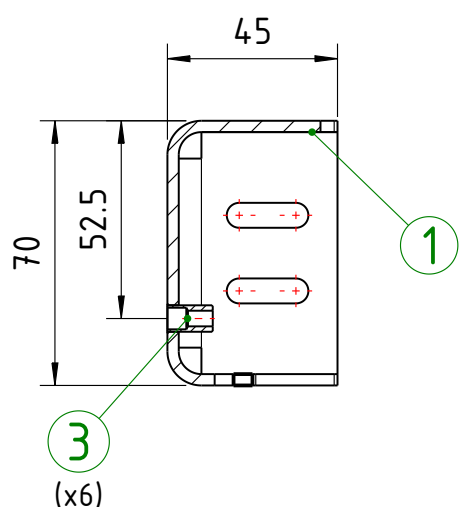
UN CONTROLLED

		---		1344x148x3THK			
SL.No.	QTY	PART / STOCK No.		DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)
						MATERIAL	
				PRODUCT	TRAIN B28		
				REF DRG	---		
				MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209		
				HEAT TREAT.	---	APPD	KRISHNA PRASAD 08.06.26
				SURFACE TREAT.	---	REVD	KRISHNA PRASAD 08.06.26
				TITLE	PROFILE		
				DRWN	R ABINAYA	CHKD	SANTOSH KUMAR 08.06.26
				SCALE	1:5	SHEET	1 OF 1 1.8
ALT.No.	ECN No./CHANGES	DATE	BY	CRKD	APPD	DRG No.	843-27321
BANGALORE COMPLEX						ALT	0

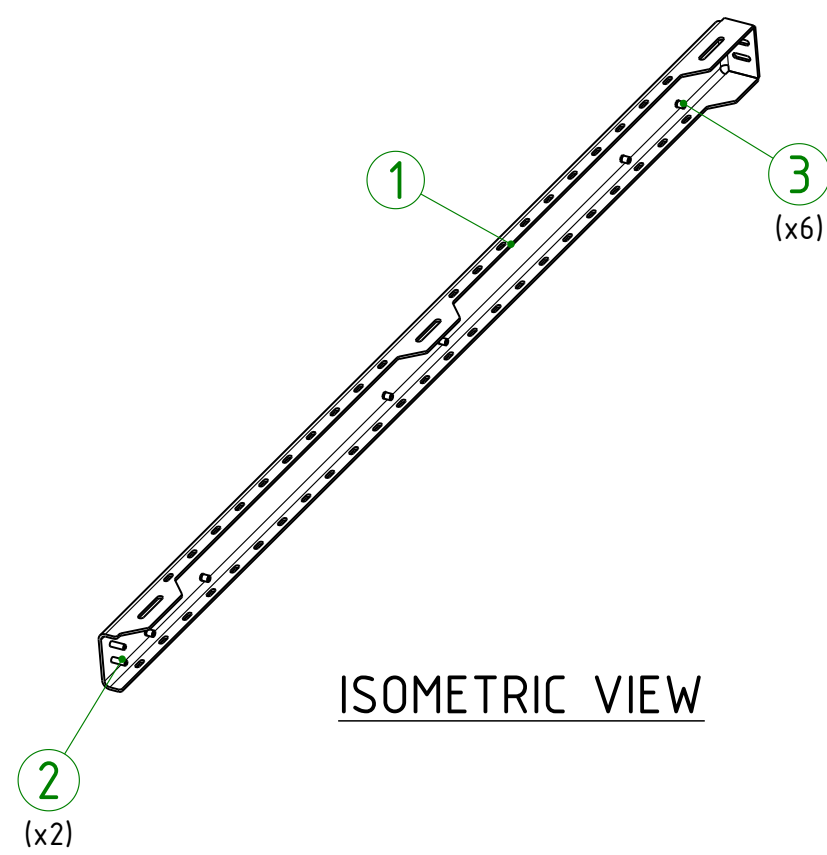
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:	PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



SECTION A-A
1:2

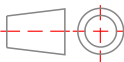


SECTION B-B
1:2



ISOMETRIC VIEW

UN CONTROLLED

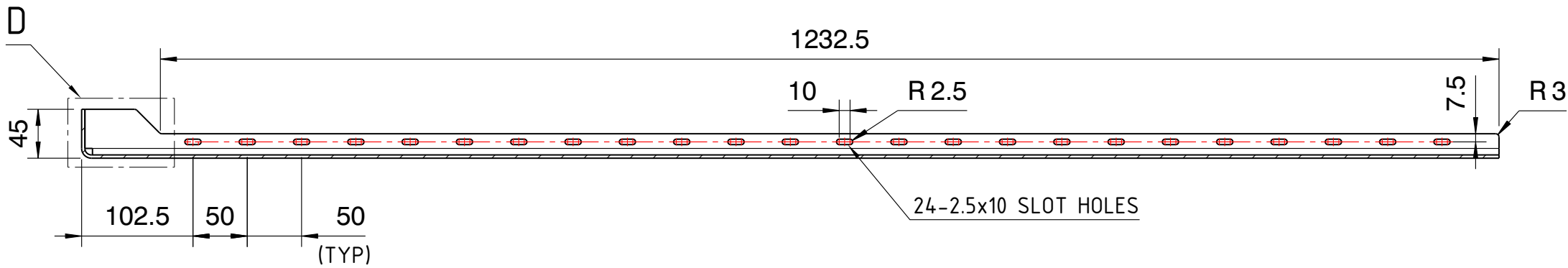
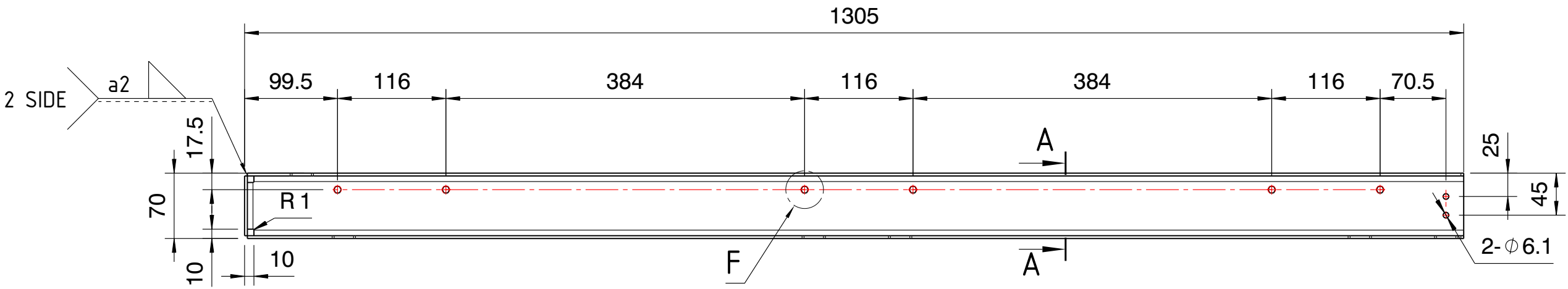
3	6	BOLLHOFF 343 48 050 020	RIVET NUT			M5		SS		
2	2	843-20133	SELF CLINCHING STUD			M6-20		A2-70		
1	1	843-27322	PROFILE			--		EN AW-5754-H22		
SL.No.	QTY	PART / STOCK No.	DESCRIPTION			SIZE (mm)		COMPANY STD./I.S	Wt. (Kg)	
								MATERIAL		
						PRODUCT TRAIN B28				
						REF DRG ---				
						MATERIAL ASSY				
						HEAT TREAT.	---	APPD	KRISHNA PRASAD	12.06.26
						SURFACE TREAT.	---	REVD	KRISHNA PRASAD	12.06.26
						TITLE	PROFILE	CHKD	SANTOSH KUMAR	12.06.26
								DRWN	SANTOSH KUMAR	12.06.26
						SCALE			SHEET	Wt.(kg)
						1:5		1 OF 1	1.15	
ALT.No.	ECN No./CHANGES	DATE	BY	CHKO	APPD	DRG No.		843-27544		ALT
						BANGALORE COMPLEX				

(x2)

NOTES:

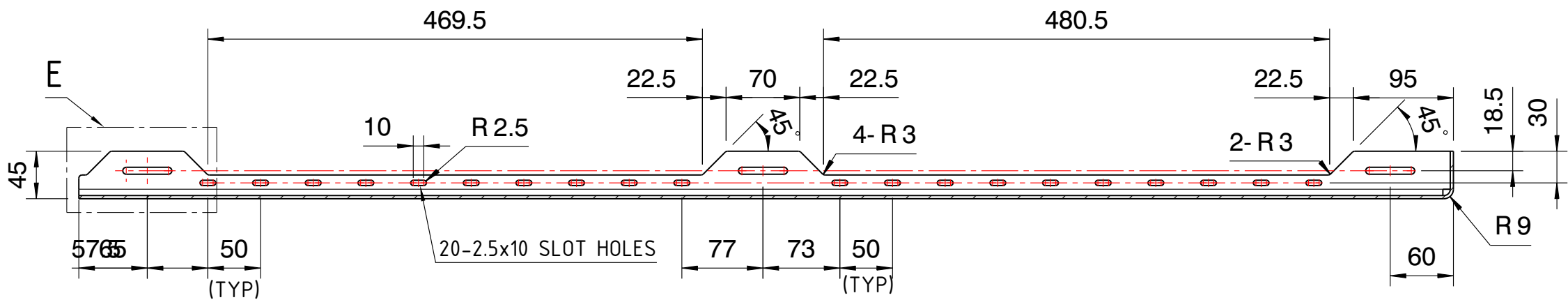
1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.
5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

		2					1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000	
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2					
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.					
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:	PROTO/PRODUCTION			
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817										
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3										
INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5										



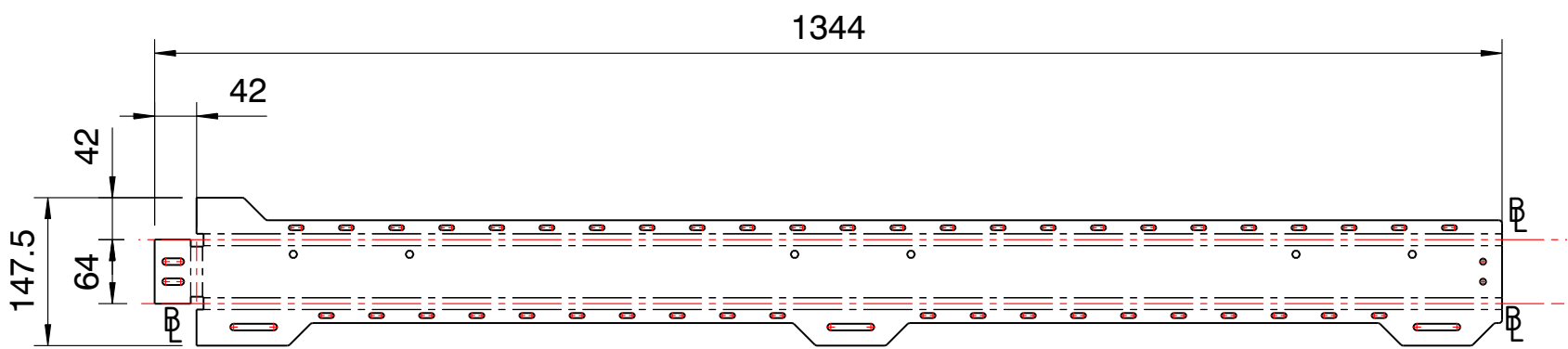
SECTION B-B

1:5



SECTION C-C

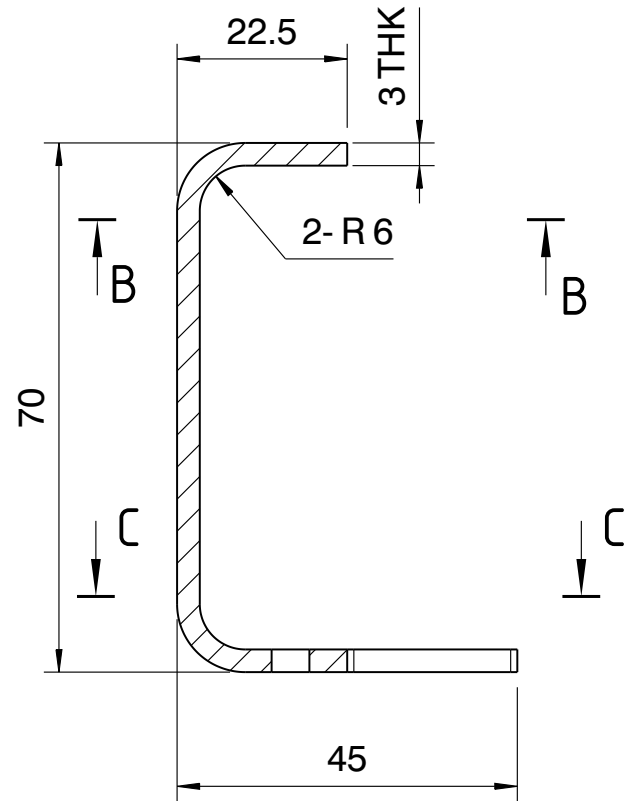
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DEVELOPED VIEW WITH BENDING LINE DETAILS

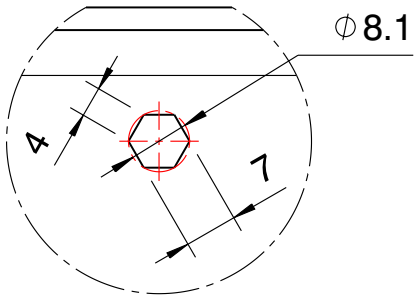
NOTES

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. ALL WELD AREAS SHALL BE PASSIVATED.
5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.



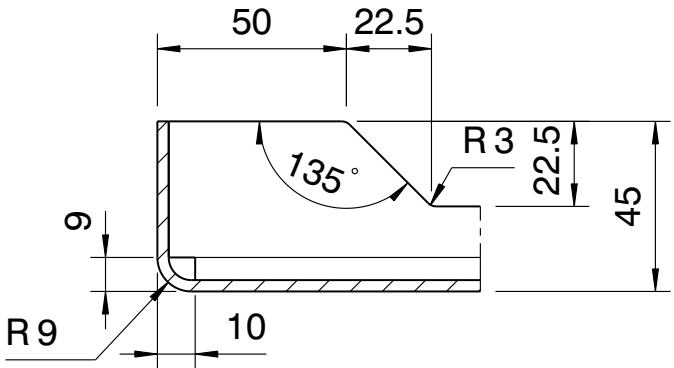
SECTION A-A

1:2



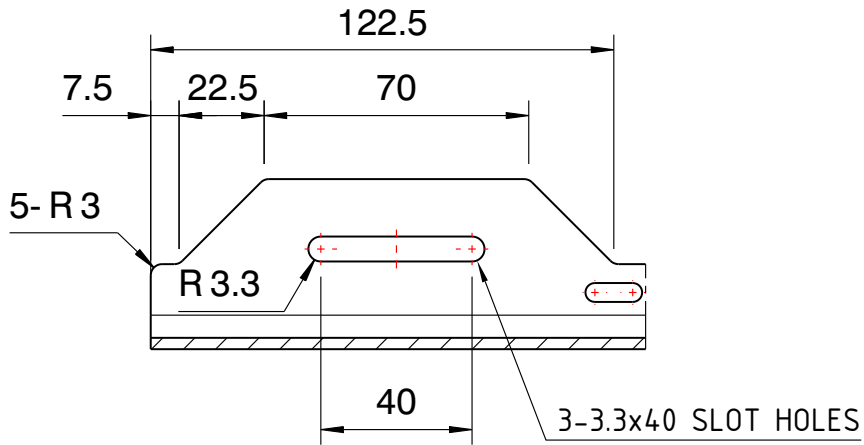
DETAIL-F

1:1



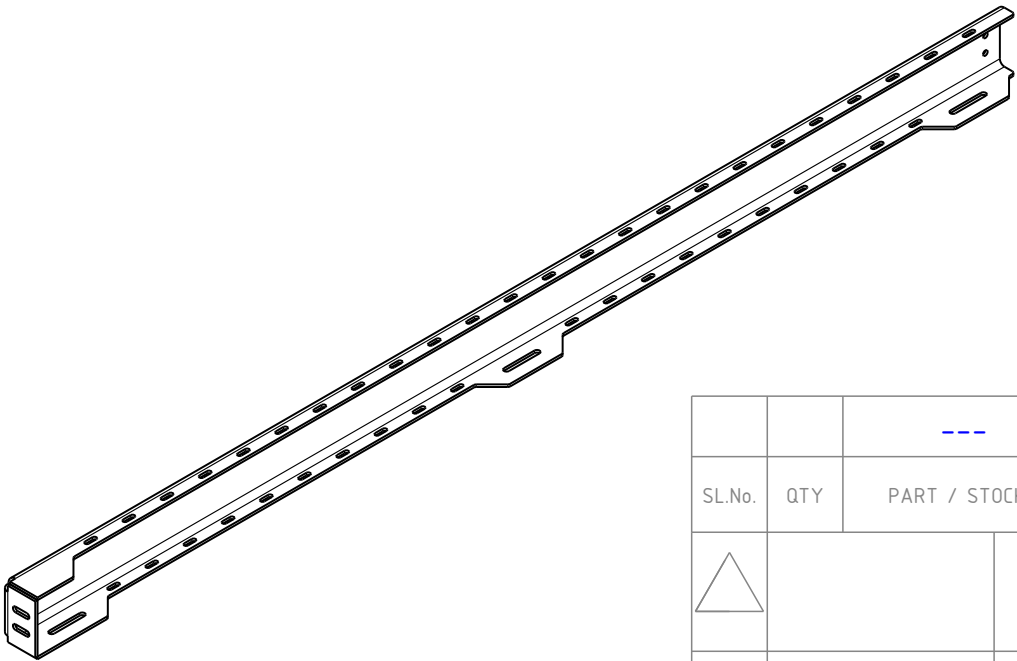
DETAIL-D

1:2



DETAIL-E

1:2

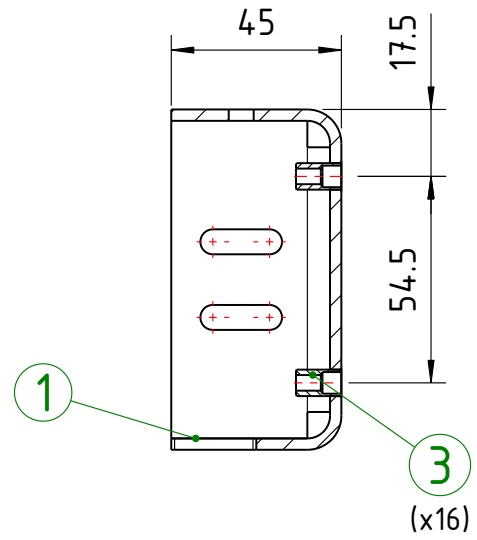
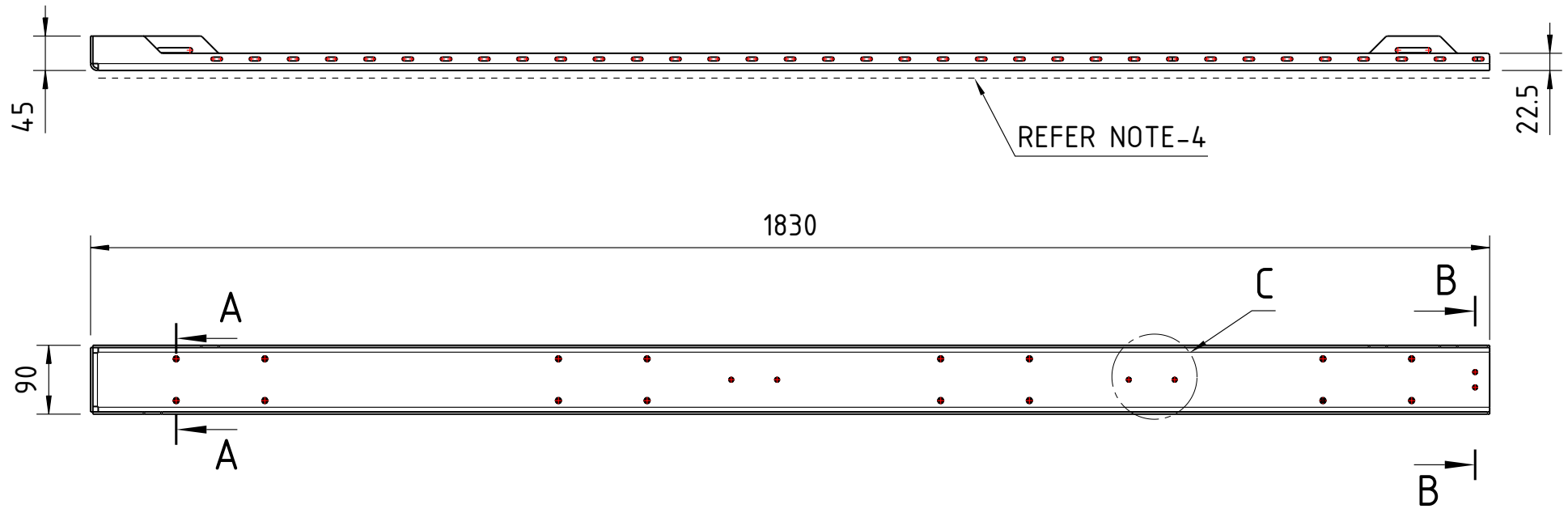


ISOMETRIC VIEW

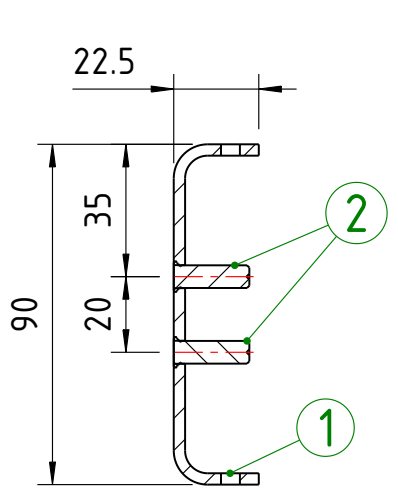
UN CONTROLLED

		---				1344x148x3THK				
SL.No.	QTY	PART / STOCK No.			DESCRIPTION		SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)	
								MATERIAL		
					PRODUCT	TRAIN B28				
					REF DRG	--				
					MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209				
					HEAT TREAT.	--	APPD	KRISHNA PRASAD	09.06.26	
					SURFACE TREAT.	--	REVD	KRISHNA PRASAD	09.06.26	
					TITLE	PROFILE	CHKD	SANTOSH KUMAR	09.06.26	
							DRWN	R ABINAYA	09.06.26	
							SCALE		SHEET	Wt.(kg)
							1:5		1 OF 1	1.13
ALT.No.	ECN No./CHANGES			DATE	BY	CHKD	APPD	BANGALORE COMPLEX		
								DRG No.		
								843-27322		

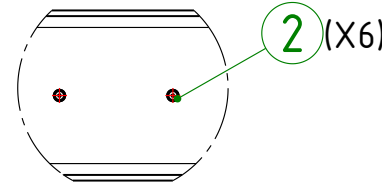
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:	PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



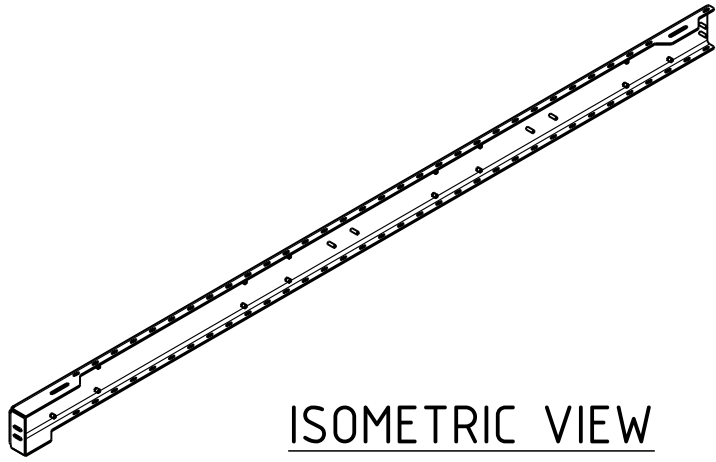
SECTION A-A
1:2



SECTION B-B
1:2



DETAIL-C
1:4

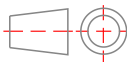


ISOMETRIC VIEW

NOTES:

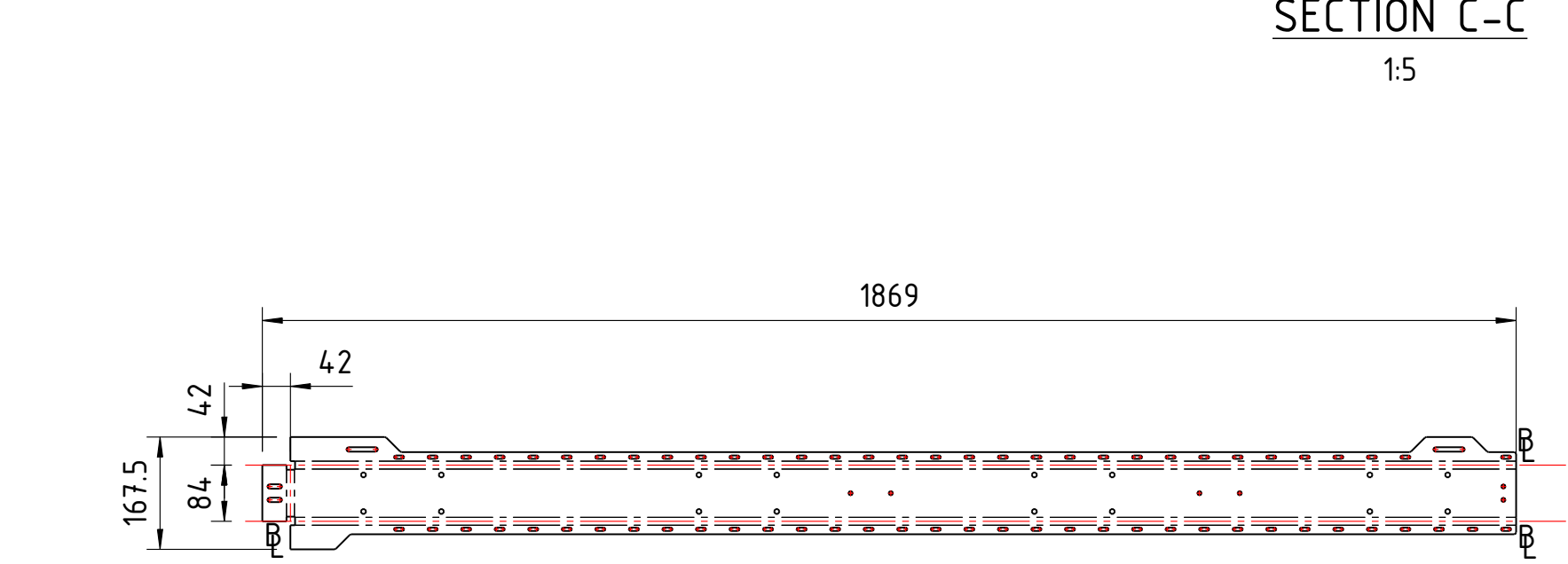
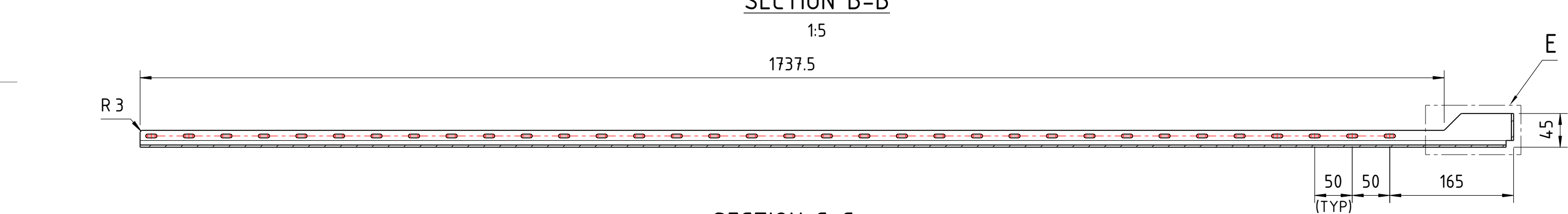
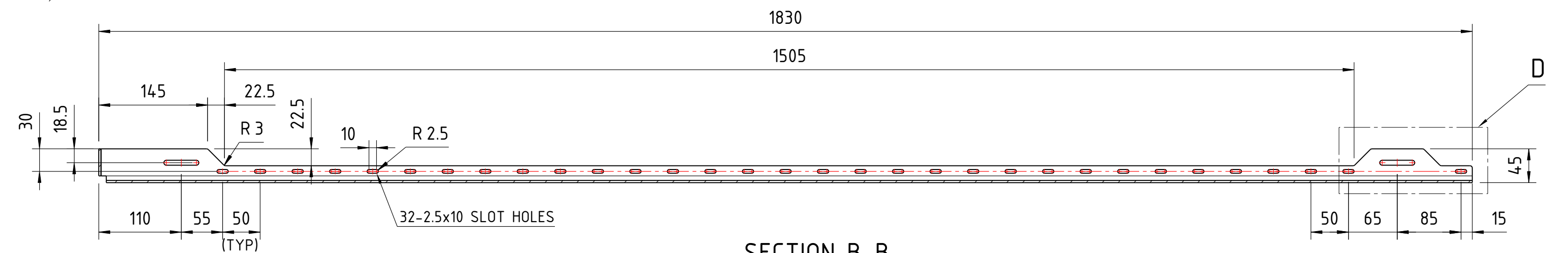
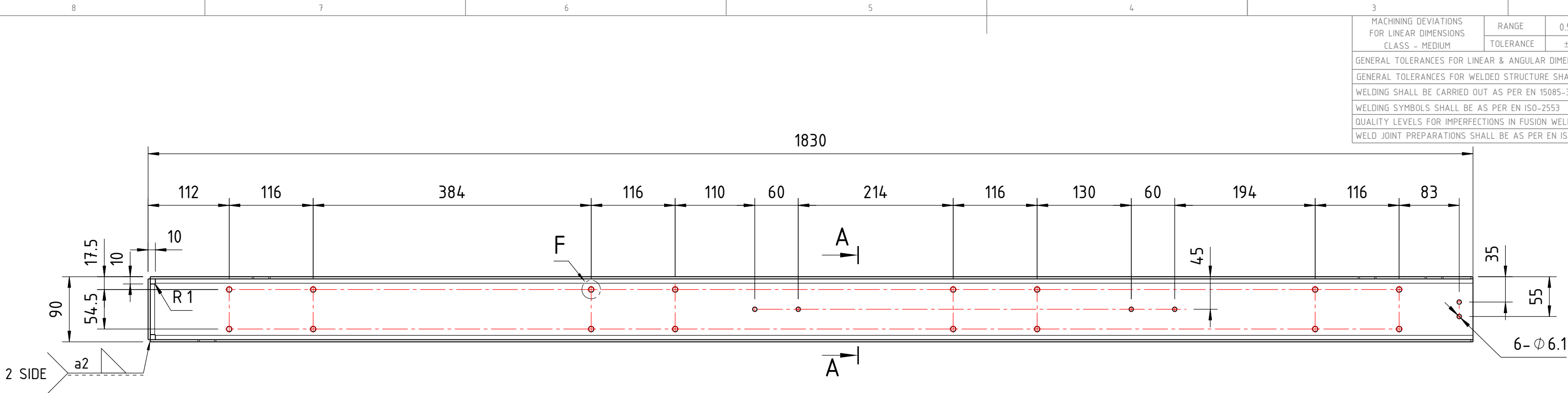
1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.
5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

UN CONTROLLED

3	16	BOLLHOFF 343 48 050 020	RIVET NUT				M5		SS		
2	6	843-20133	SELF CLINCHING STUD				M6X20		A2-70		
1	1	843-27323	PROFILE				--		EN AW-5754-H22		
SL.No.	QTY	PART / STOCK No.	DESCRIPTION				SIZE (mm)		COMPANY STD./I.S Wt. (Kg)		
									MATERIAL		
						PRODUCT	TRAIN B28				
						REF DRG	---				
						MATERIAL	ASSY				
						HEAT TREAT.	---		APPD	KRISHNA PRASAD	12.06.26
						SURFACE TREAT.	---		REVD	KRISHNA PRASAD	12.06.26
						TITLE			CHKD	SANTOSH KUMAR	12.06.26
						PROFILE			DRWN	SANTOSH KUMAR	12.06.26
							SCALE		SHEET	Wt.(kg)	
							1:8	1 OF 1	1.91		
ALT.No.	ECN No./CHANGES		DATE	BY	CHKD	APPD	DRG No.		ALT		
							843-27545				
 BANGALORE COMPLEX											

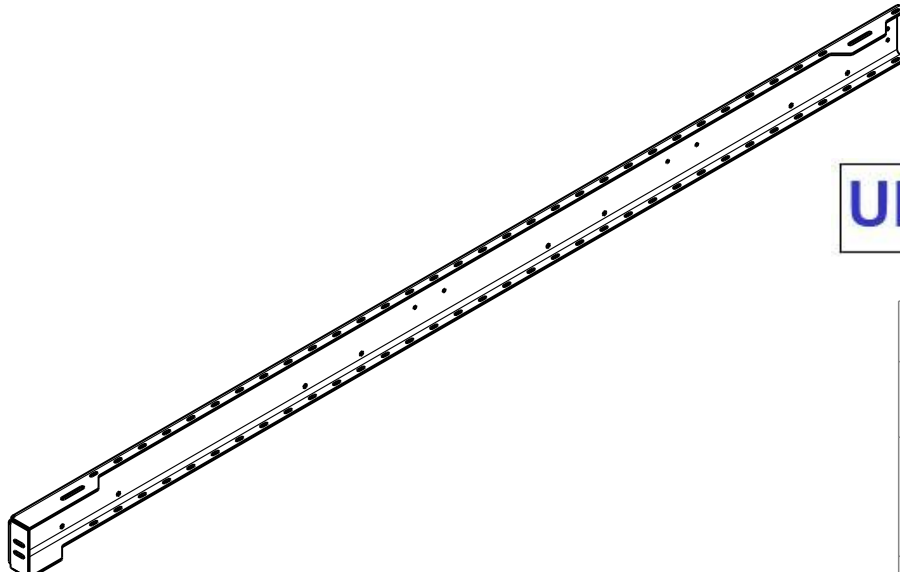
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GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12
VALUE	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
SYMBOL												
SURFACE ROUGHNESS												



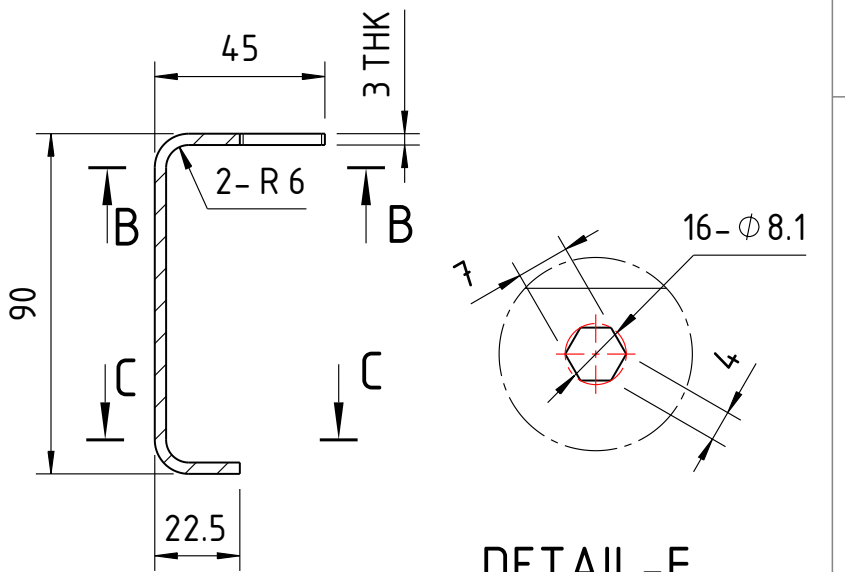
DEVELOPED VIEW WITH BENDING LINE DETAILS

- NOTES
1. ALL DIMENSIONS ARE IN mm.
 2. REMOVE ALL SHARP EDGES & BURRS.
 3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 4. ALL WELD AREAS SHALL BE PASSIVATED.
 5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.



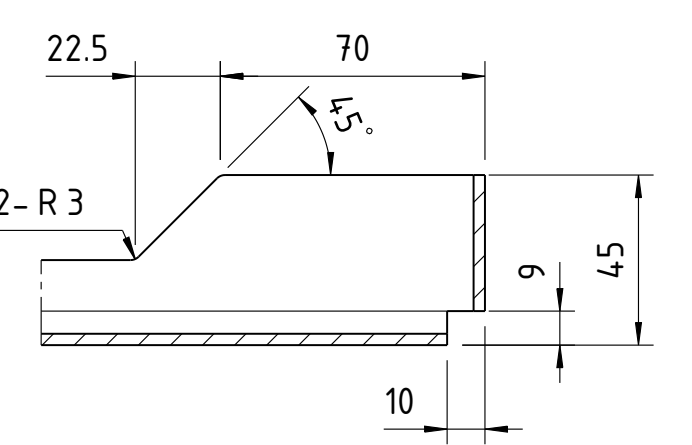
ISOMETRIC VIEW

3		2				1				
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM		RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
		TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1						GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920						VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3				WELDING PROCESS SHALL BE AS PER EN ISO-4063		STATUS:		PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553		WELDING POSITIONS SHALL BE AS PER EN ISO 6947								
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817										
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5						

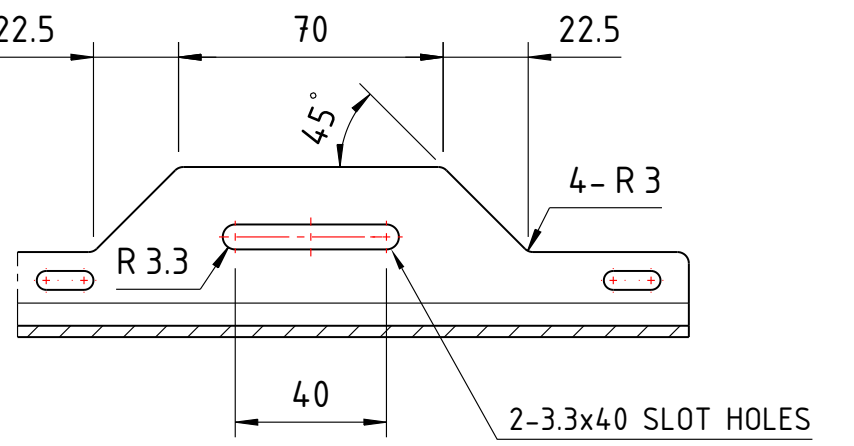


DETAIL-F

SECTION A-A
1:1

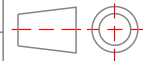


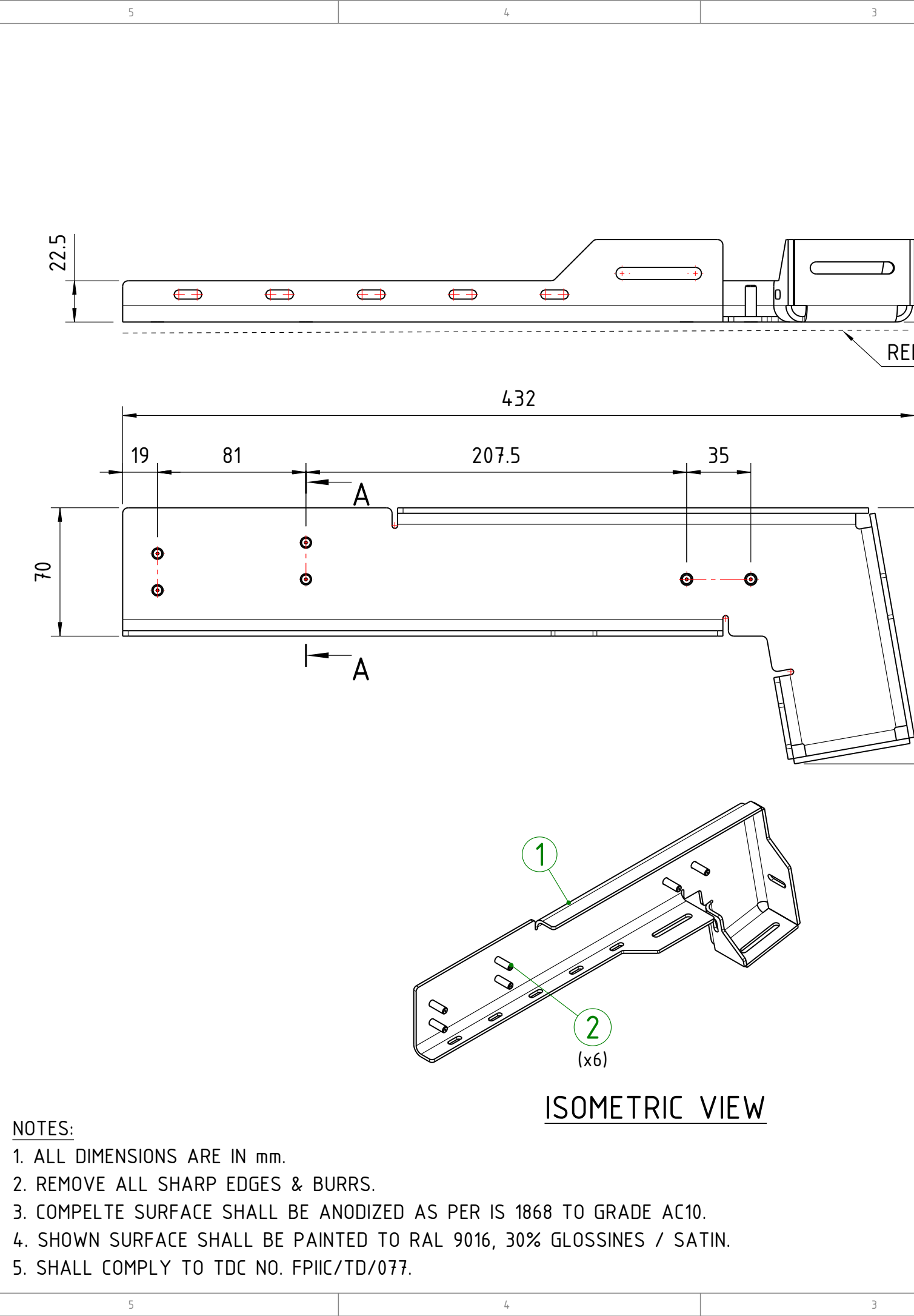
DETAIL-E
1:2



DETAIL-D
1:2

UN CONTROLLED

		---				1869x168x3THK				
SL.No.	QTY	PART / STOCK No.			DESCRIPTION		SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)	
								MATERIAL		
					PRODUCT	TRAIN B28				
					REF DRG	--				
					MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209				
					HEAT TREAT.	--	APPD	KRISHNA PRASAD	09.06.26	
					SURFACE TREAT.	--	REVD	KRISHNA PRASAD	09.06.26	
					TITLE	PROFILE	CHKD	SANTOSH KUMAR	09.06.26	
							DRWN	R ABINAYA	09.06.26	
							SCALE		SHEET	Wt.(kg)
							1:5		1 of 1	1.85
							DRG No.			
ALT.No.	ECN No./CHANGES			DATE	BY	CHKD	APPD	BANGALORE COMPLEX		
								843-27322		
								ALT		



- NOTES:
- ALL DIMENSIONS ARE IN mm.
 - REMOVE ALL SHARP EDGES & BURRS.
 - COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 - SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.
 - SHALL COMPLY TO TDC NO. FPIIC/TD/077.

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM		RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
		TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1						GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920						VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:		PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817										
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3						INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5				

UN CONTROLLED

2	6	843-20133	SELF CLINCHING STUD	M6X20	A2-70
1	1	843-27324	PROFILE	--	EN AW-5754-H22

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)
					MATERIAL	
			PRODUCT	TRAIN B28		
			REF DRG	---		
			MATERIAL	ASSY		
			HEAT TREAT.	---	APPD	KRISHNA PRASAD 12.06.26
			SURFACE TREAT.	---	REVD	KRISHNA PRASAD 12.06.26
			TITLE	---	CHKD	SANTOSH KUMAR 12.06.26
					DRWN	SANTOSH KUMAR 12.06.26
					SCALE	2:5
					SHEET	1 OF 1
					Wt.(kg)	0.44
					DRG No.	843-27546
					ALT	0

ALT.No.

ECN No./CHANGES

DATE

BY

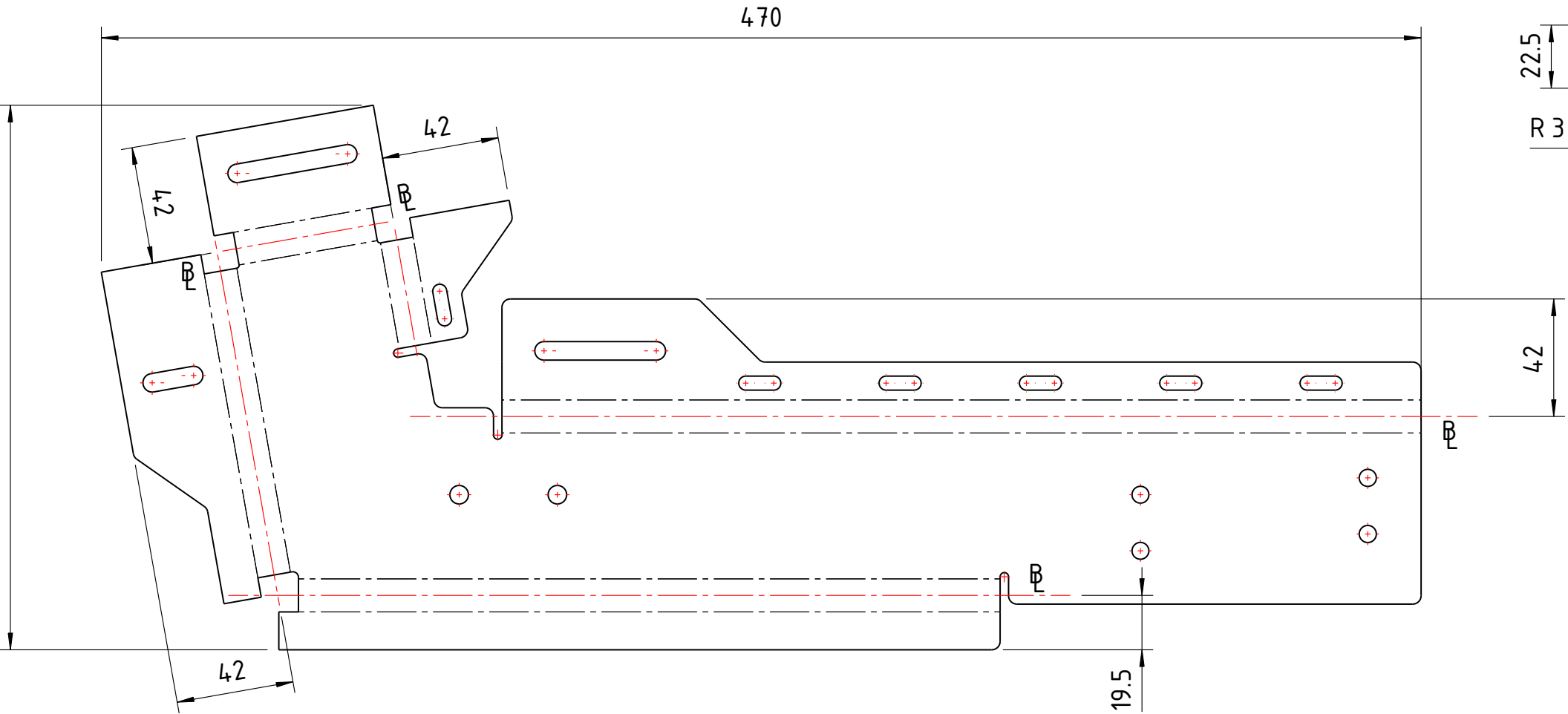
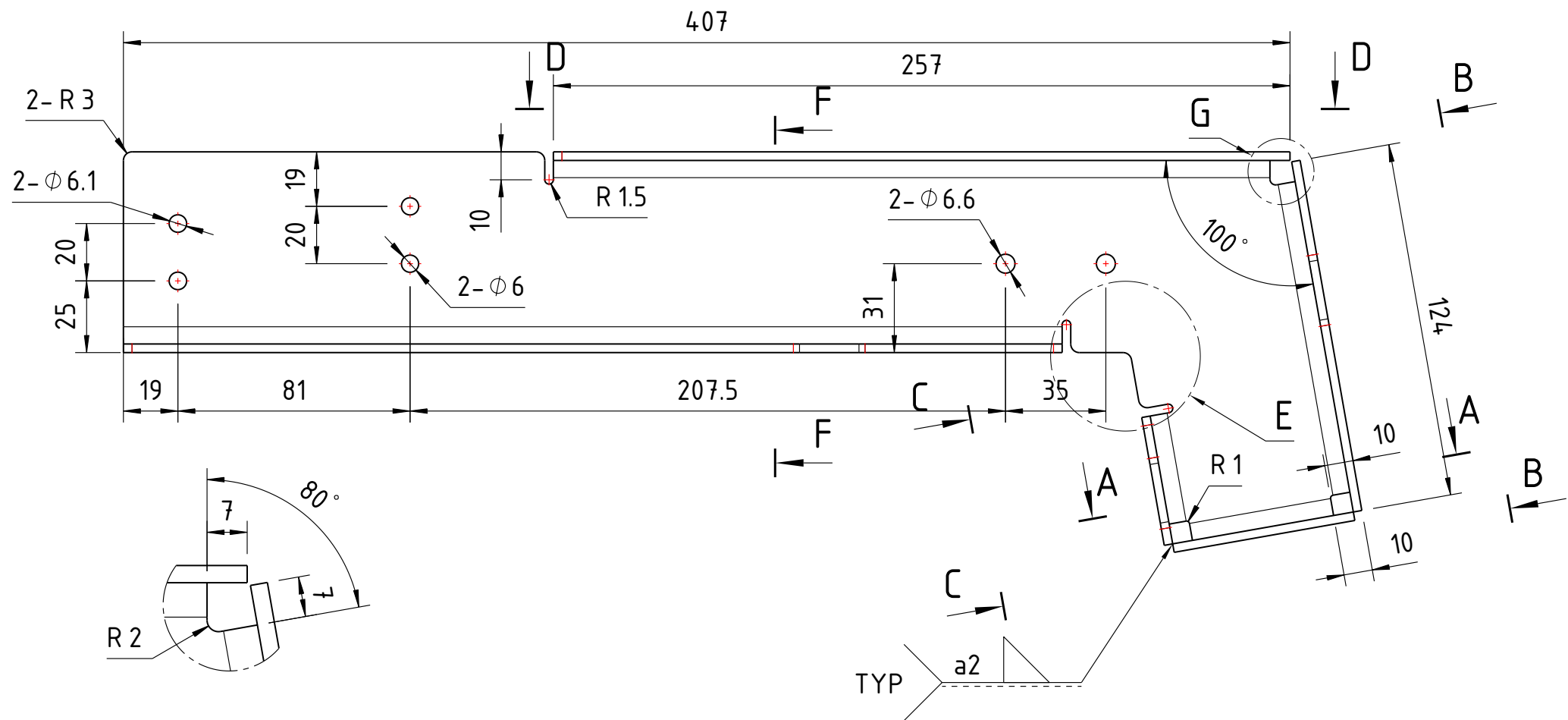
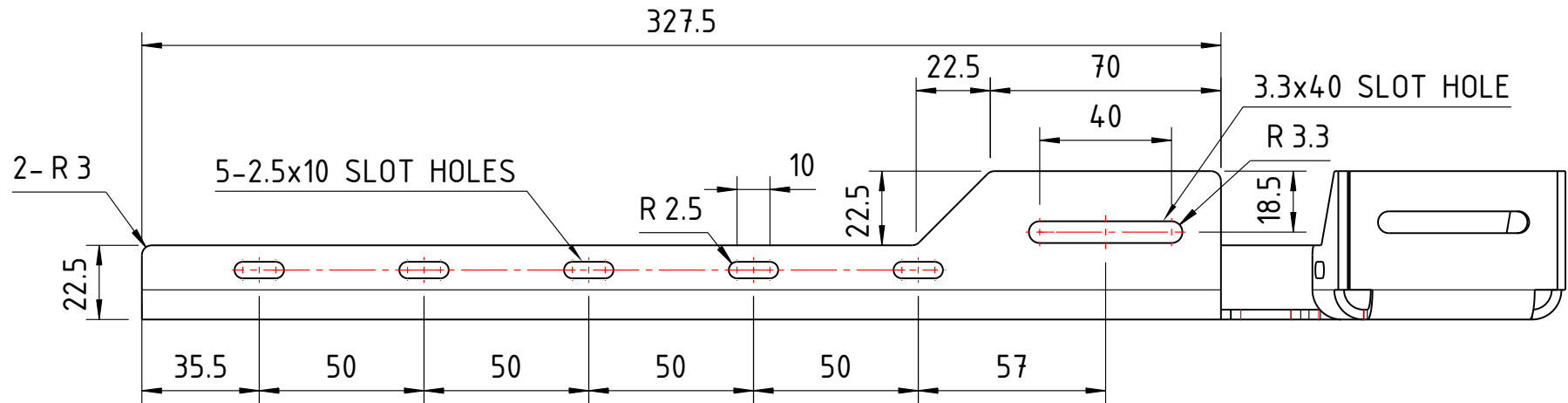
CHKD

APPD

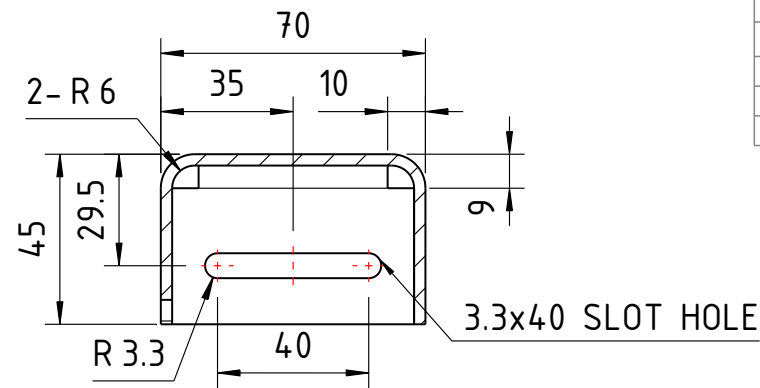
PROFIE

बी ई एम एल BANGALORE COMPLEX

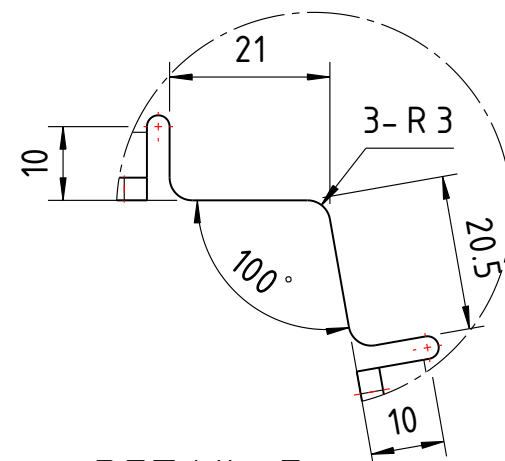
BEML Beyond Possibilities



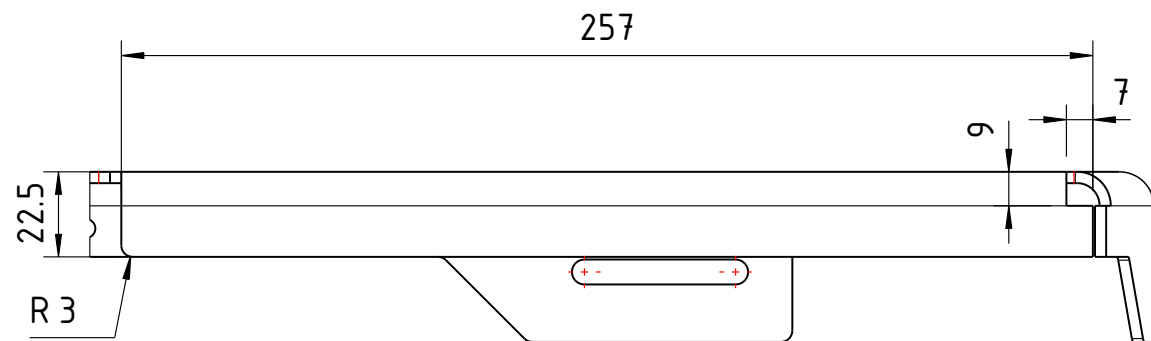
- NOTES**
1. ALL DIMENSIONS ARE IN mm.
 2. REMOVE ALL SHARP EDGES & BURRS.
 3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 4. ALL WELD AREAS SHALL BE PASSIVATED.
 5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.



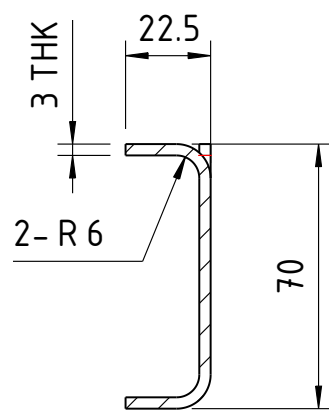
SECTION A-A
1:2



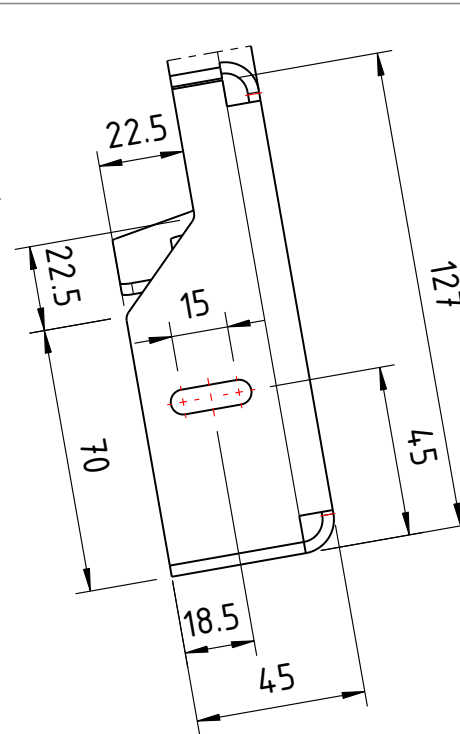
DETAIL-E
1:1



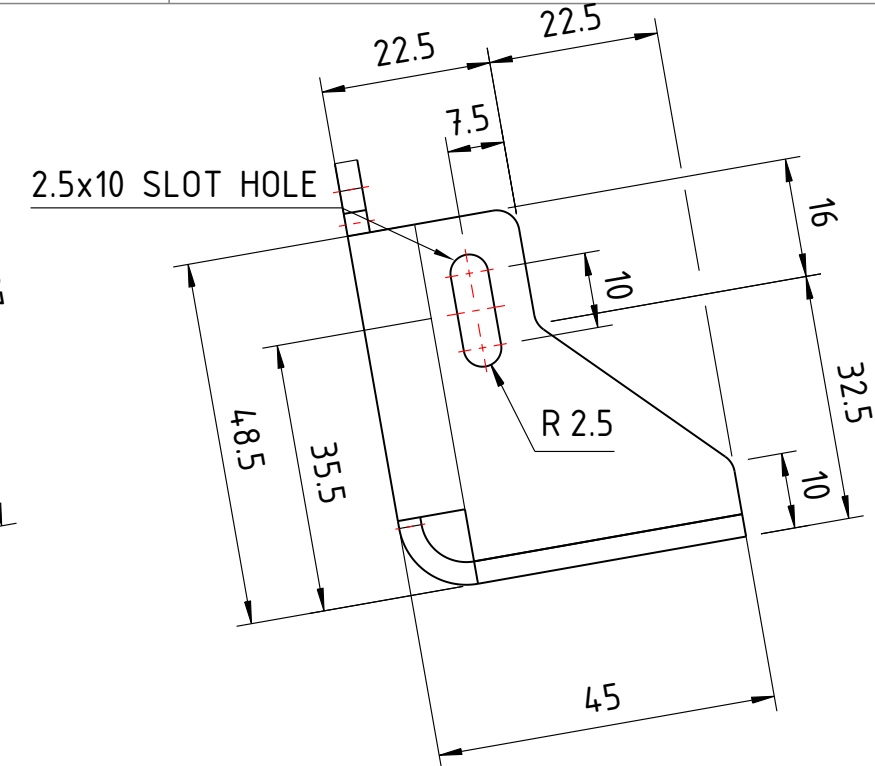
SECTION D-D
1:2



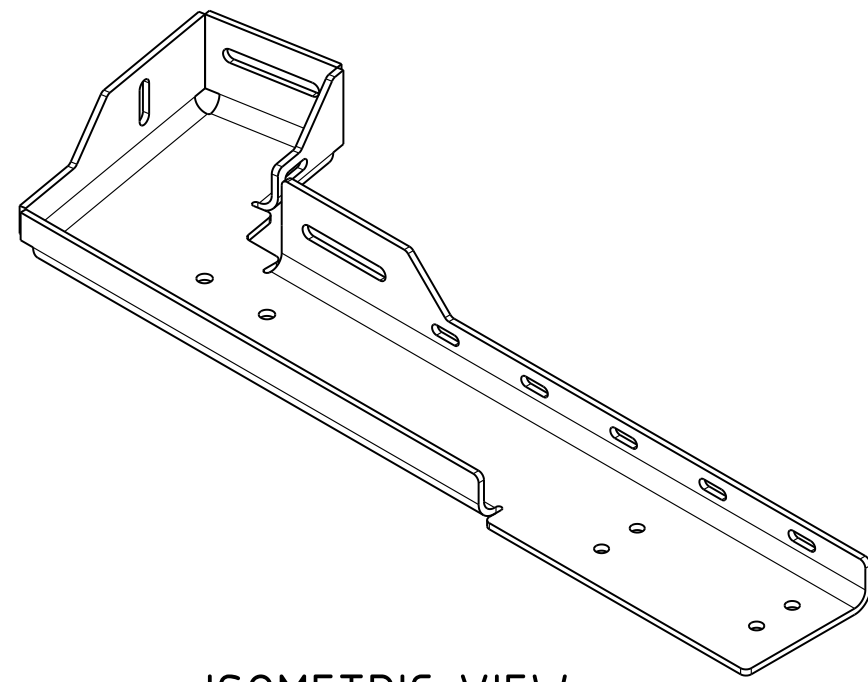
SECTION F-F
1:2



SECTION B-B
1:2

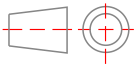
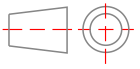


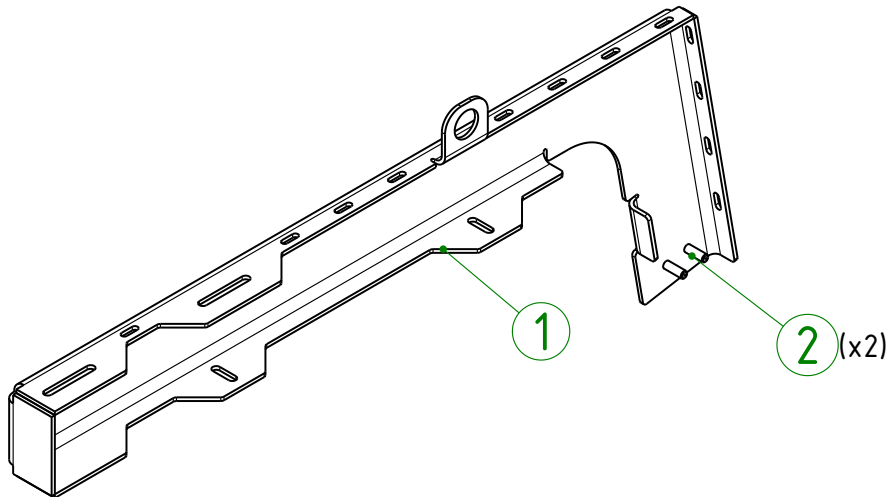
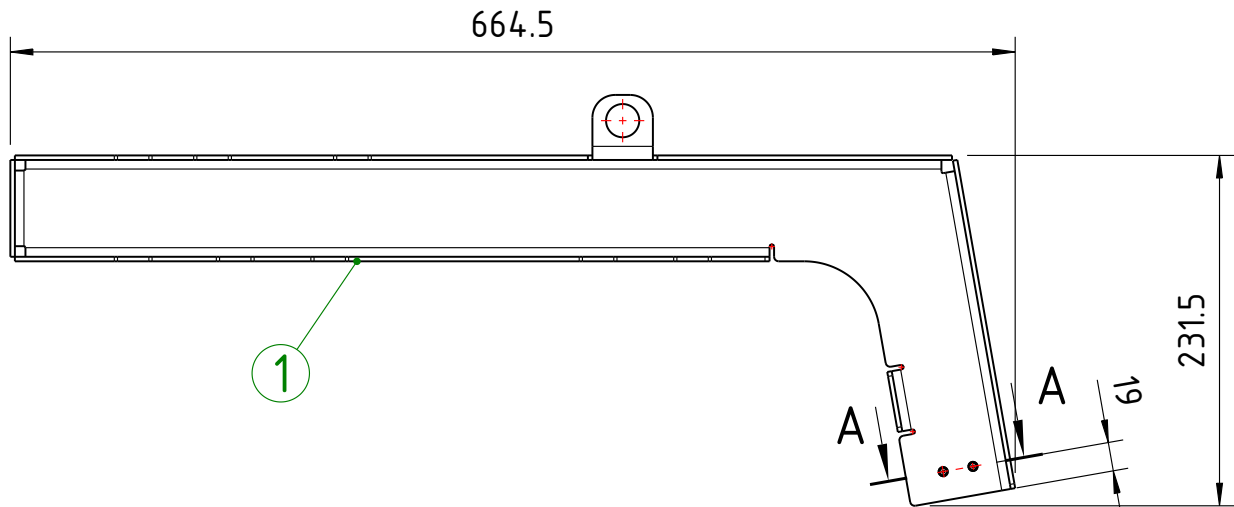
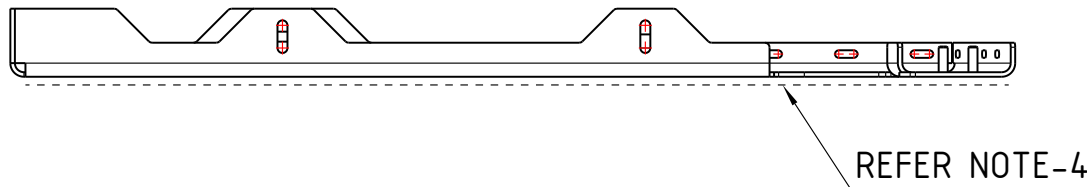
SECTION C-C
1:1



ISOMETRIC VIEW

UN CONTROLLED

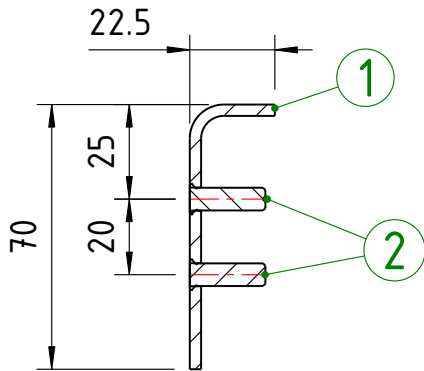
		---				470x194x3THK					
SL.No.	QTY	PART / STOCK No.		DESCRIPTION		SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)			
							MATERIAL				
						TRAIN B28					
						PRODUCT					
						REF DRG	--				
						MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209				
						HEAT TREAT.	--	APPD	KRISHNA PRASAD	09.06.26	
						SURFACE TREAT.	--	REVD	KRISHNA PRASAD	09.06.26	
						TITLE					
						PROFILE					
						CHKD	SANTOSH KUMAR	09.06.26			
						DRWN	R ABINAYA	09.06.26			
						SCALE		SHEET	Wt.(kg)		
						1:2		1 OF 1	0.41		
ALT.No.	ECN No./CHANGES		DATE	BY	CHKD	APPD	BANGALORE COMPLEX		DRG No.	843-27324	ALT
										0	



ISOMETRIC VIEW

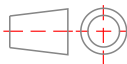
- NOTES:
- 1. ALL DIMENSIONS ARE IN mm.
 - 2. REMOVE ALL SHARP EDGES & BURRS.
 - 3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 - 4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.
 - 5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

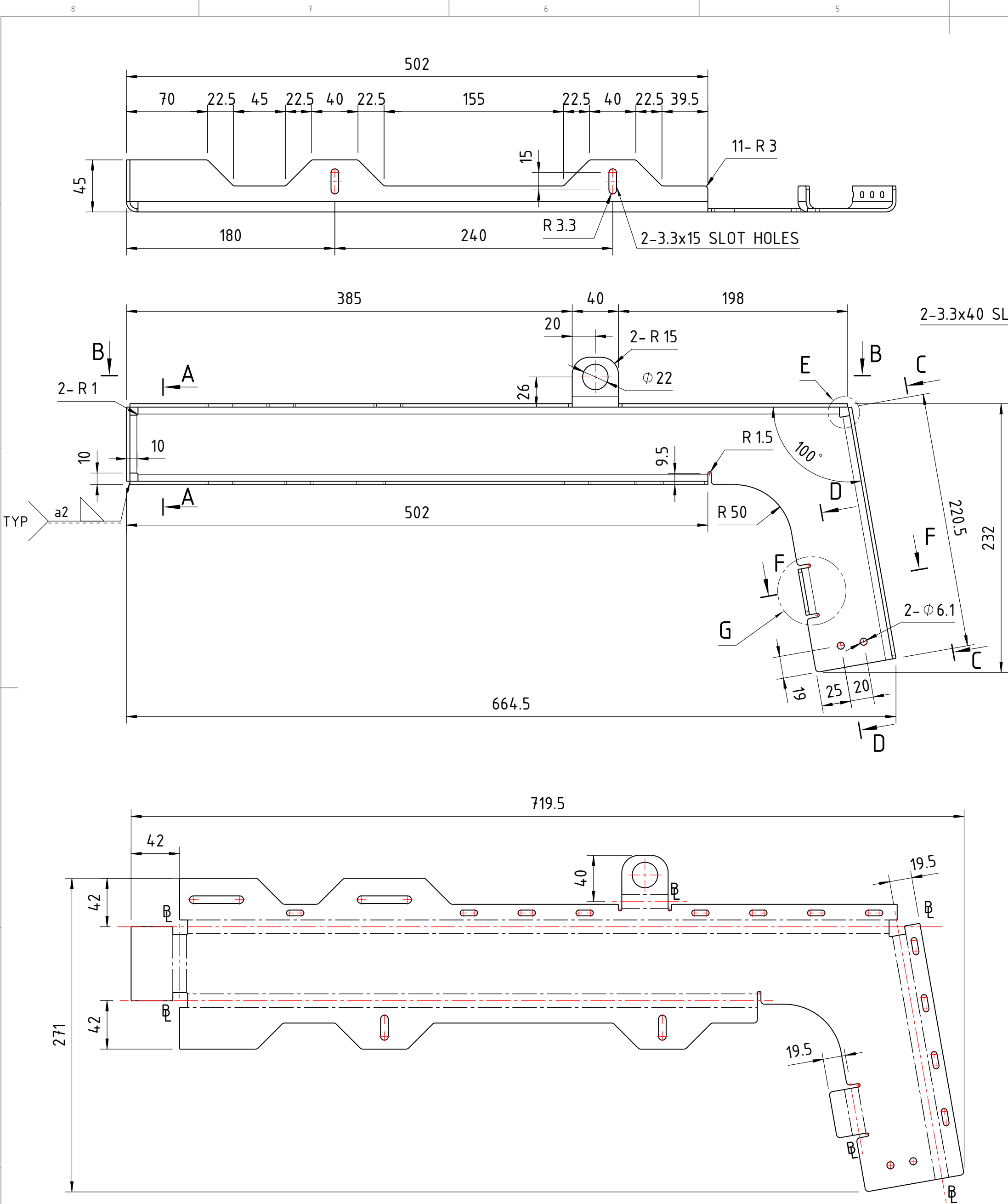
		2				1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:	PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



SECTION A-A
1:2

UN CONTROLLED

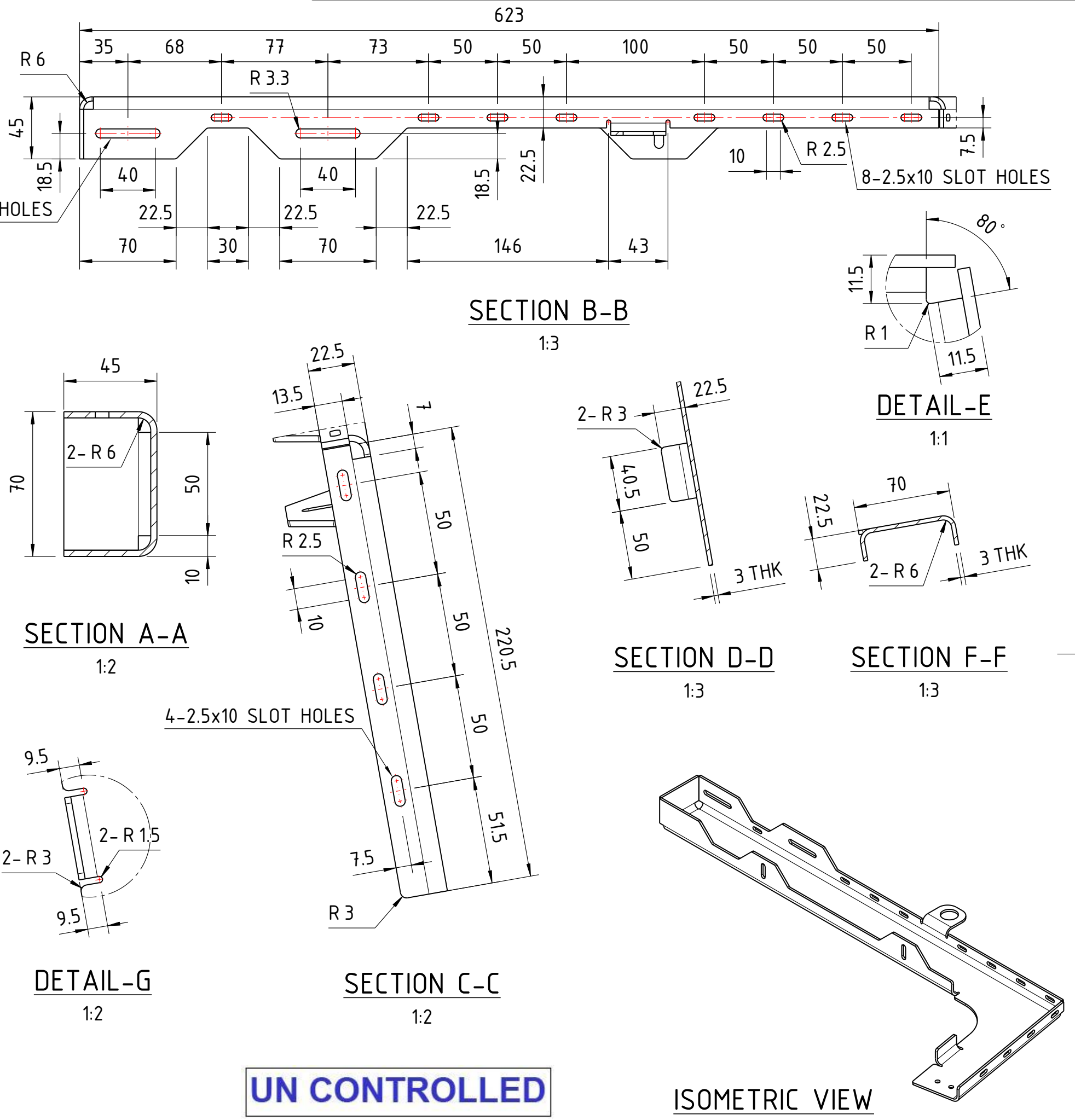
2	2	843-20133	SELF CLINCHING STUD			M6X20			A2-70							
1	1	843-27325	PROFILE			--			EN AW-5754-H22							
SL.No.	QTY	PART / STOCK No.			DESCRIPTION			SIZE (mm)		COMPANY STD./I.S Wt. (Kg)						
											MATERIAL					
						PRODUCT	TRAIN B28									
						REF DRG	---									
						MATERIAL	ASSY									
						HEAT TREAT.	---	APPD	KRISHNA PRASAD		12.06.26					
						SURFACE TREAT.	---	REVD	KRISHNA PRASAD		12.06.26					
						TITLE	PROFILE					CHKD	SANTOSH KUMAR	12.06.26		
						DRWN						SANTOSH KUMAR		12.06.26		
						SCALE							SHEET	Wt.(kg)		
						2:5							1 OF 1	0.53		
						BANGALORE COMPLEX						DRG No.	843-27547		ALT	
ALT.No.	ECN No./CHANGES		DATE	BY	CHKD	APPD										



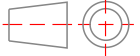
DEVELOPED VIEW WITH BENDING LINE DETAILS

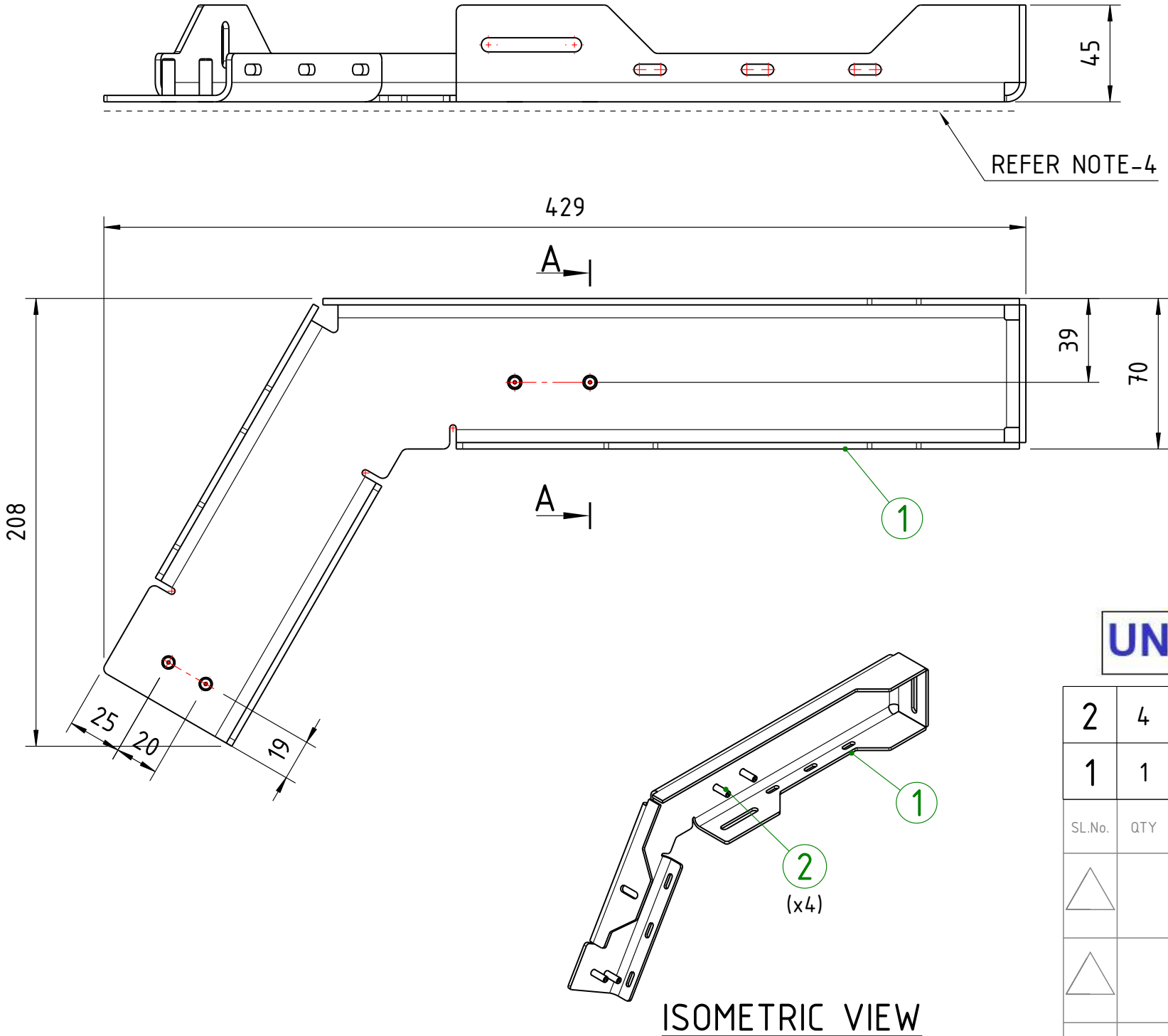
- NOTES
- 1. ALL DIMENSIONS ARE IN mm.
 - 2. REMOVE ALL SHARP EDGES & BURRS.
 - 3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 - 4. ALL WELD AREAS SHALL BE PASSIVATED.
 - 5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

			2				1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000	
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2					
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.					
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:		PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817										
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3						INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5				



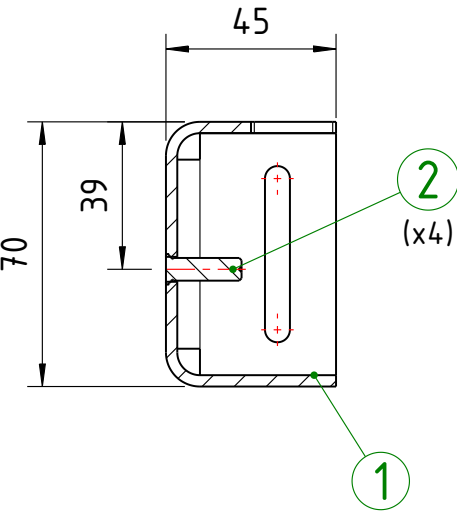
UN CONTROLLED

		---		720x271x3THK						
SL.No.	QTY	PART / STOCK No.		DESCRIPTION		SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)		
							MATERIAL			
					PRODUCT	TRAIN B28				
					REF DRG	--				
					MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209				
					HEAT TREAT.	--	APPD	KRISHNA PRASAD	09.06.26	
					SURFACE TREAT.	--	REVD	KRISHNA PRASAD	09.06.26	
					TITLE	PROFILE	CHKD	SANTOSH KUMAR	09.06.26	
							DRWN	R ABINAYA	09.06.26	
							SCALE		SHEET	1 OF 1
							1:3			
							DRG No.			
ALT.No.	ECN No./CHANGES		DATE	BY	CHKD	APPD	 BANGALORE COMPLEX		ALT	
3						2		1		A2



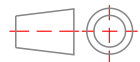
- NOTES:
- 1. ALL DIMENSIONS ARE IN mm.
 - 2. REMOVE ALL SHARP EDGES & BURRS.
 - 3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 - 4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.
 - 5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

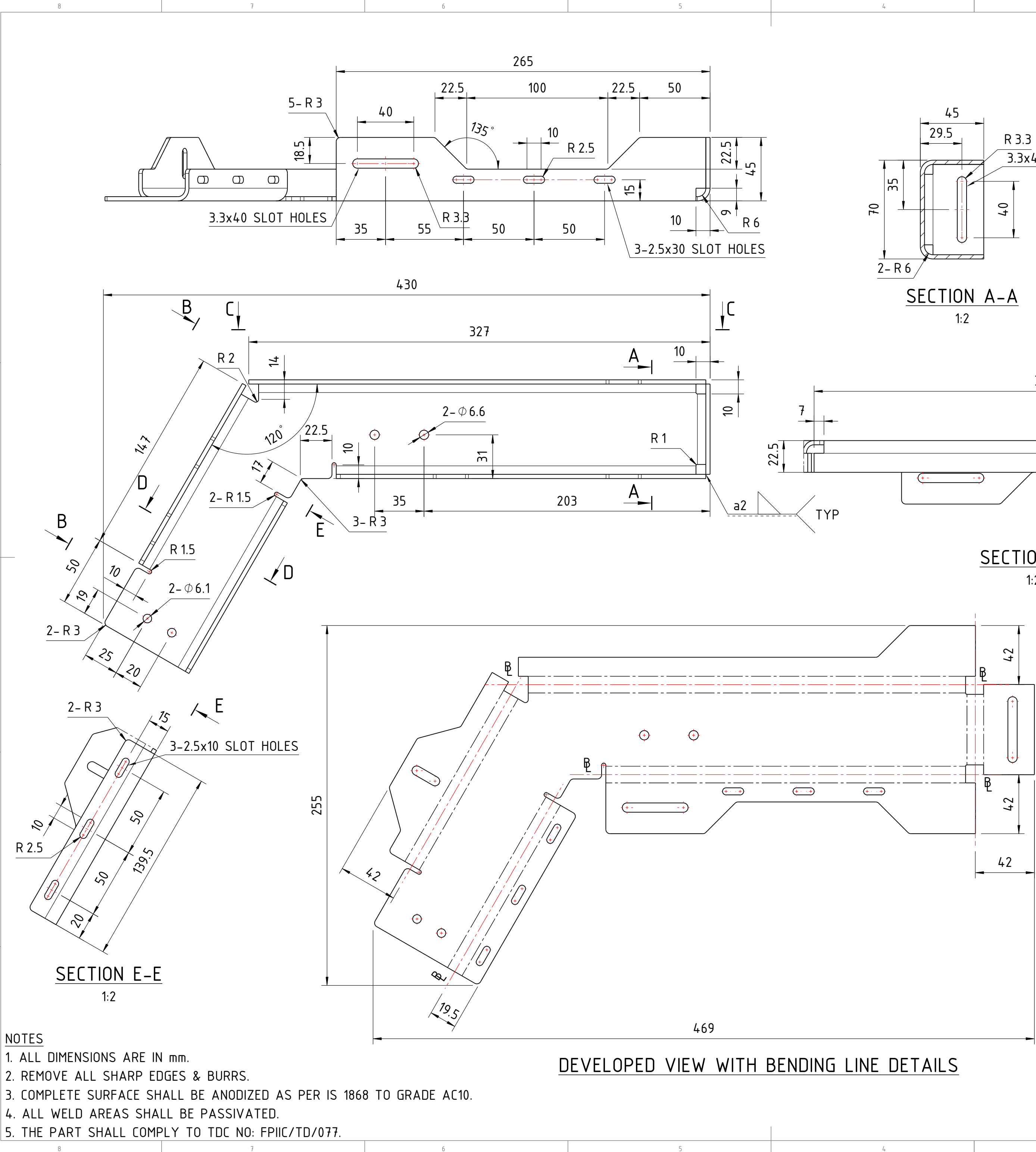
		2				1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:	PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



SECTION A-A
1:2

UN CONTROLLED

2	4	843-20133	SELF CLINCHING STUD			M6X20			A2-70								
1	1	843-27326	PROFILE			--			EN AW-5754-H22								
SL.No.	QTY	PART / STOCK No.			DESCRIPTION			SIZE (mm)		COMPANY STD./I.S Wt. (Kg)							
											MATERIAL						
						PRODUCT	TRAIN B28										
						REF DRG	---										
						MATERIAL	ASSY										
						HEAT TREAT.	---	APPD	KRISHNA PRASAD		12.06.26						
						SURFACE TREAT.	---	REVD	KRISHNA PRASAD		12.06.26						
						TITLE	PROFILE			CHKD	SANTOSH KUMAR	12.06.26					
										DRWN	SANTOSH KUMAR	12.06.26					
										SCALE		SHEET	Wt.(kg)				
										2:5		1 OF 1	0.53				
ALT.No.						ECN No./CHANGES		DATE	BY	CHKD	APPD	DRG No.		843-27548		ALT	
												BANGALORE COMPLEX					
																	



3			2		1				
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-6063		STATUS:		PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3					INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5				

SECTION A-A
1:2

SECTION D-D
1:2

SECTION B-B
1:2

SECTION C-C
1:2

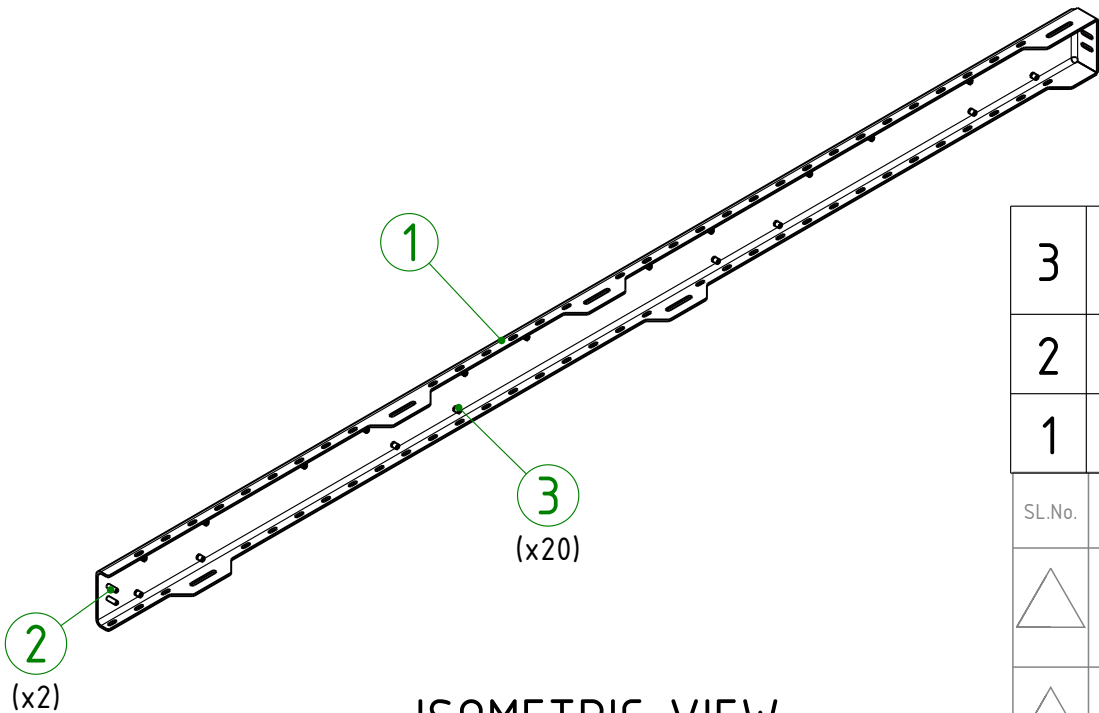
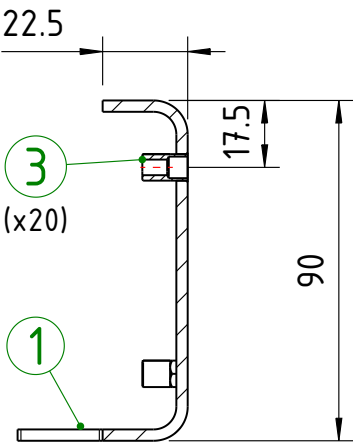
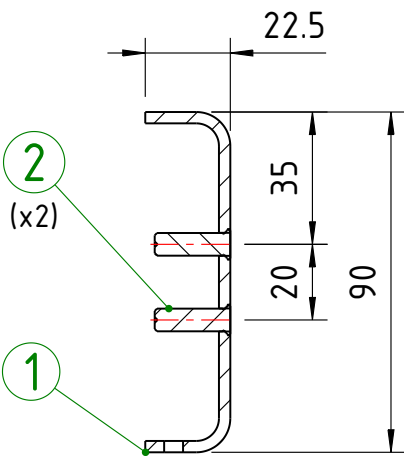
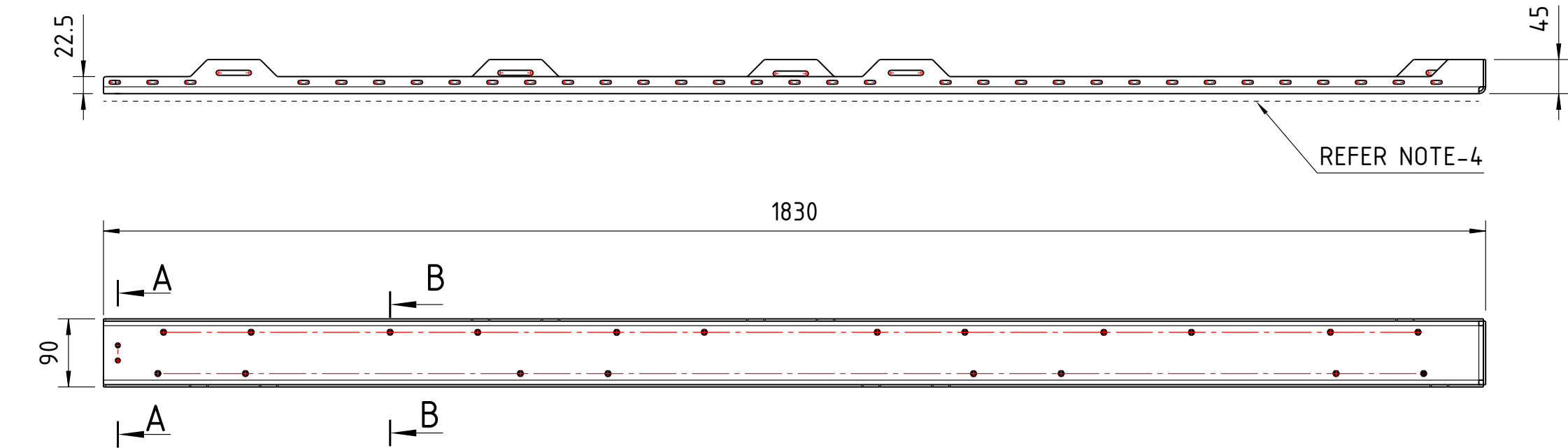
SECTION E-E
1:2

ISOMETRIC VIEW

UN CONTROLLED

---		469x255x3THK							
SL.No.	QTY	PART / STOCK No.		DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)		
				MATERIAL					
				TRAIN B28					
				REF DRG --					
				MATERIAL EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209					
				HEAT TREAT. --	APPD KRISHNA PRASAD	09.06.26			
				SURFACE TREAT. --	REVD KRISHNA PRASAD	09.06.26			
				TITLE	CHKD SANTOSH KUMAR	09.06.26			
				PROFILE	DRWN R ABINAYA	09.06.26			
					SCALE 1:2	SHEET 1 OF 1	0.45		
					DRG No. 843-27326		ALT 0		
ALT.No.		ECN No./CHANGES		DATE	BY	CHKD	APPD	BANGALORE COMPLEX	

		2				1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3		WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:		PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553		WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



UN CONTROLLED

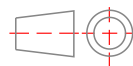
SECTION A-A
1:2

SECTION B-B
1:2

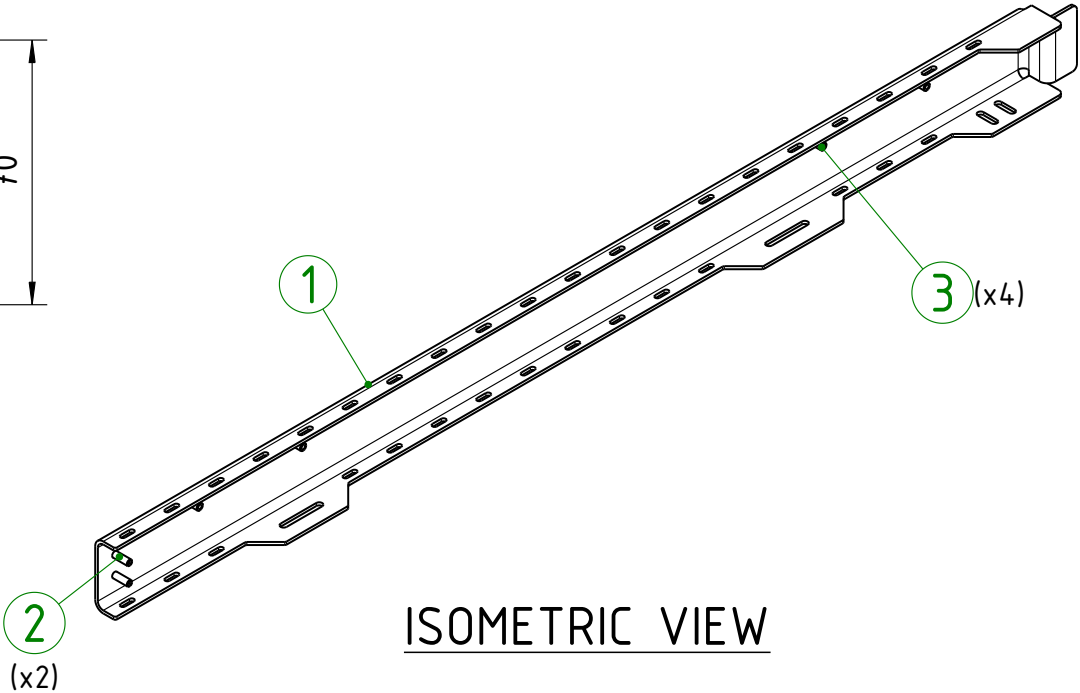
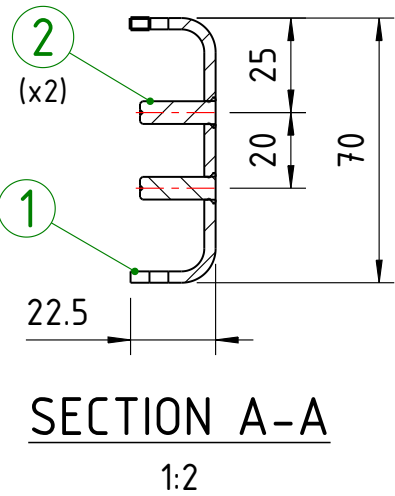
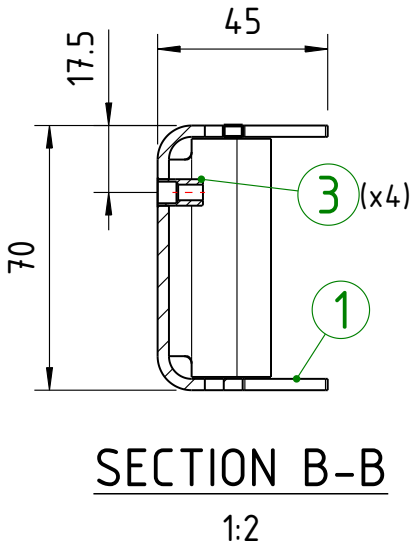
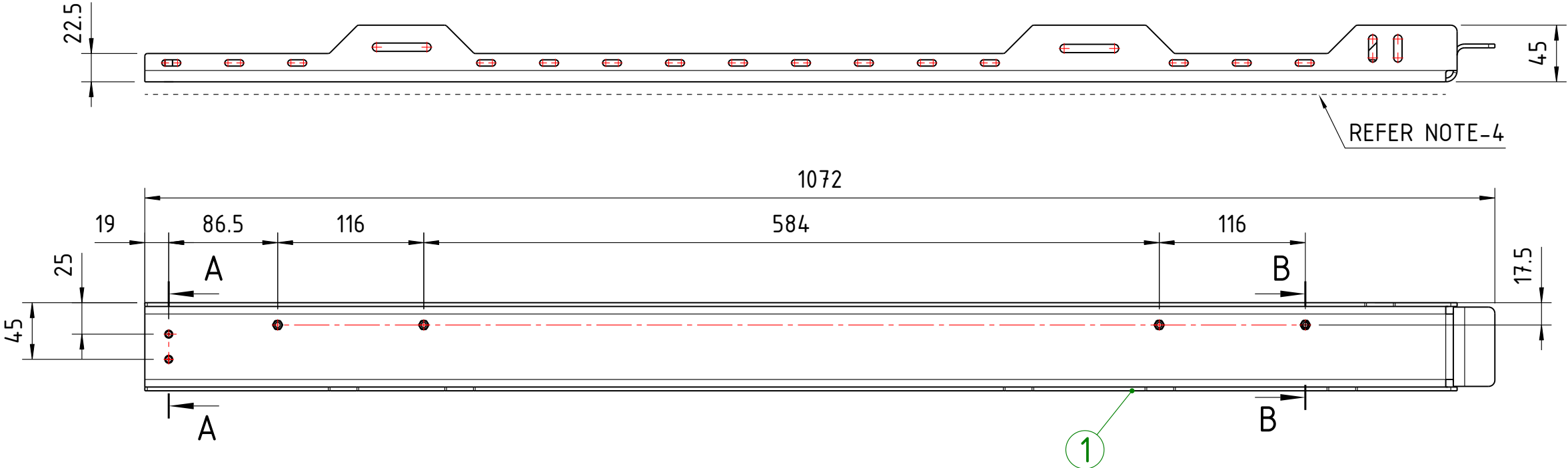
ISOMETRIC VIEW

NOTES:

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.
5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

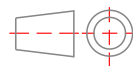
3	20	BOLLHOFF 343 48 050 020	RIVET NUT			M5			SS			
2	2	843-20133	SELF CLINCHING STUD			M6X20			A2-70			
1	1	844-27114	PROFILE			--			EN AW-5754-H22			
SL.No.	QTY	PART / STOCK No.			DESCRIPTION			SIZE (mm)		COMPANY STD./I.S Wt. (Kg)		
											MATERIAL	
						PRODUCT	TRAIN B28					
						REF DRG	---					
						MATERIAL	ASSY					
						HEAT TREAT.	---		APPD	KRISHNA PRASAD		12.06.26
						SURFACE TREAT.	---		REVD	KRISHNA PRASAD		12.06.26
						TITLE			CHKD	SANTOSH KUMAR		12.06.26
									DRWN	SANTOSH KUMAR		12.06.26
									SCALE		SHEET	Wt.(kg)
									1:7		1 OF 1	1.94
									DRG No.	844-27035		ALT
												
ALT.No.		ECN No./CHANGES			DATE	BY	CHKD	APPD	BANGALORE COMPLEX	BEML	Beyond Possibilities	

		2				1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:	PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



- NOTES:
- ALL DIMENSIONS ARE IN mm.
 - REMOVE ALL SHARP EDGES & BURRS.
 - COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 - SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.
 - SHALL COMPLY TO TDC NO. FPIIC/TD/077.

UN CONTROLLED

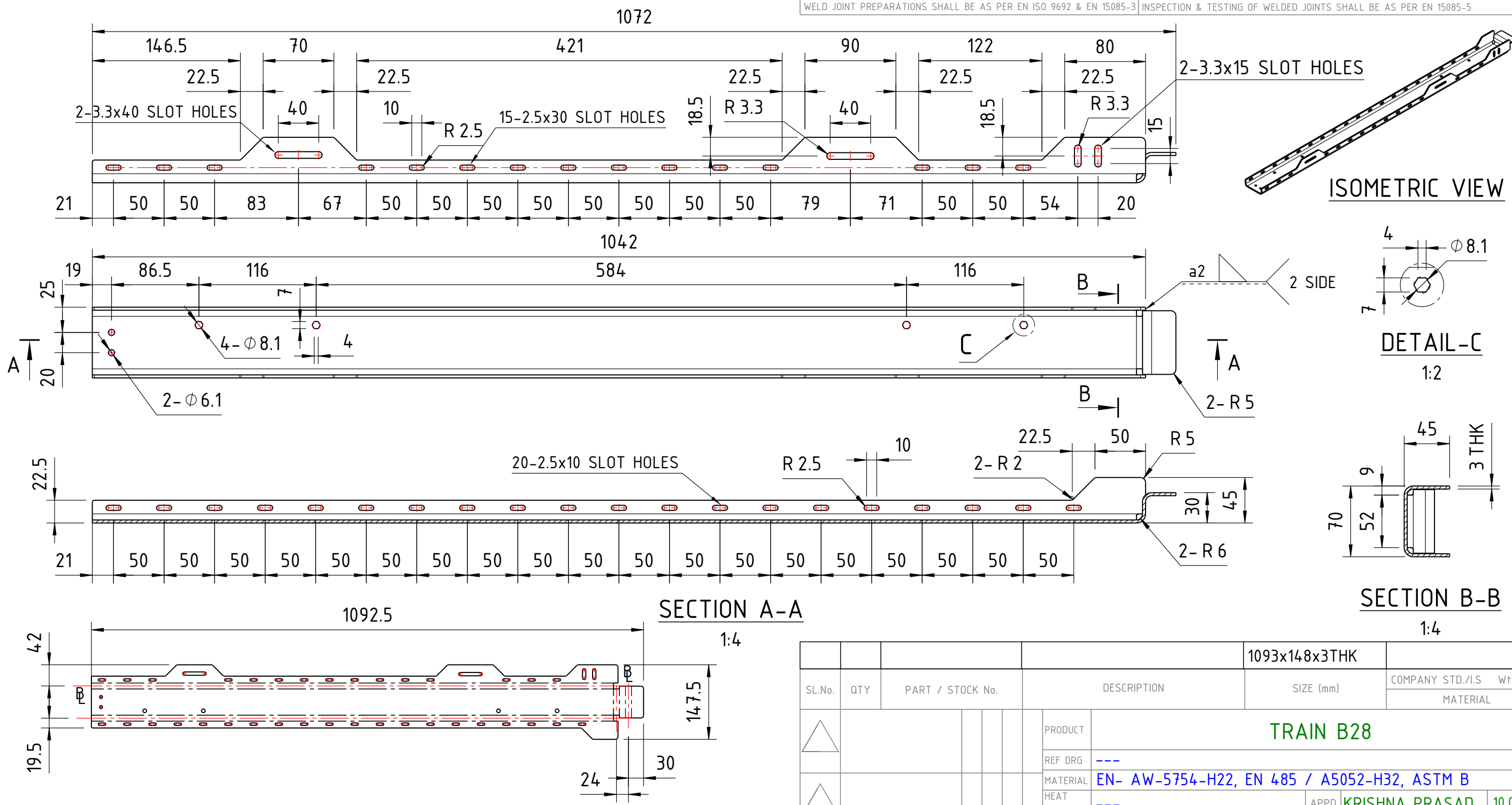
3	4	BOLLHOFF 343 48 050 020	RIVET NUT			M5			SS			
2	2	843-20133	SELF CLINCHING STUD			M6X20			A2-70			
1	1	844-27115	PROFILE			--			EN AW-5754-H22			
SL.No.	QTY	PART / STOCK No.	DESCRIPTION			SIZE (mm)			COMPANY STD./I.S Wt. (Kg)			
									MATERIAL			
						PRODUCT	TRAIN B28					
						REF DRG	---					
						MATERIAL	ASSY					
						HEAT TREAT.	---	APPD	KRISHNA PRASAD		12.06.26	
						SURFACE TREAT.	---	REVD	KRISHNA PRASAD		12.06.26	
						TITLE			CHKD	SANTOSH KUMAR 12.06.26		
						PROFILE			DRWN	SANTOSH KUMAR 12.06.26		
									SCALE		SHEET	Wt.(kg)
									1:4		1 OF 1	0.71
ALT.No. ECN No./CHANGES						DRG No.			844-27036			ALT
DATE BY CHKO APPD						BANGALORE COMPLEX						
												

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GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12	SYMBOL	SURFACE ROUGHNESS
VALUE	0.075	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50		

UN CONTROLLED

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 – 3	3 – 6	6 – 30	30 – 120	120 – 400	400 – 1000	1000 – 2000	2000 – 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3		WELDING PROCESS SHALL BE AS PER EN ISO-4063				STATUS:	PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553		WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3					INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5				



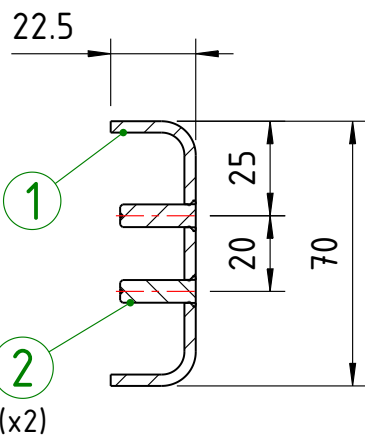
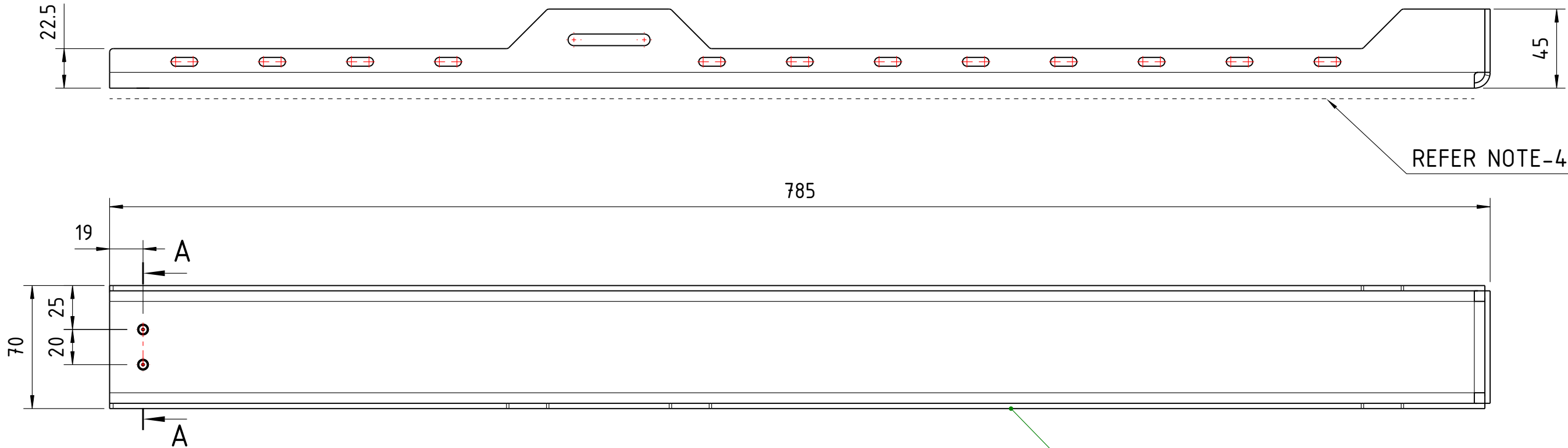
NOTES

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. ALL WELD AREAS SHALL BE PASSIVATED.
5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

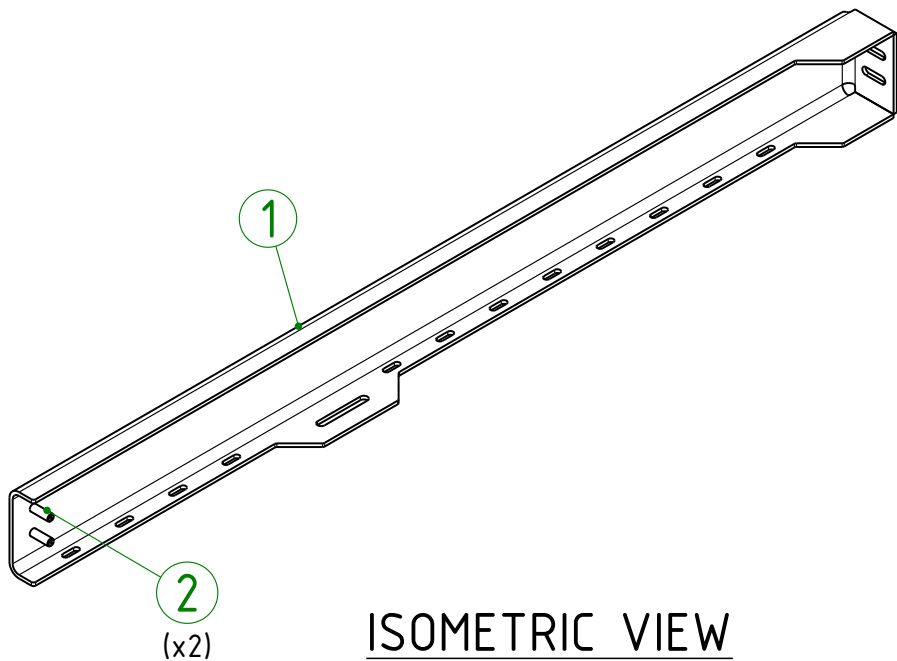
SL.No.		QTY	PART / STOCK No.		DESCRIPTION	SIZE (mm)	1093x148x3THK	COMPANY STD./I.S	Wt. (Kg)
								MATERIAL	
					PRODUCT	TRAIN B28			
					REF DRG	---			
					MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B			
					HEAT TREAT.	---	APPD	KRISHNA PRASAD	10.06.26
					SURFACE TREAT.	---	REVD	KRISHNA PRASAD	10.06.26
					TITLE	---	CHKD	SANTOSH KUMAR	10.06.26
							DRWN	R ABINAYA	10.06.26
							SCALE	1:4	Wt.(kg)
								1 OF 1	0.92
							DRG No.	844-27115	ALT
									0

BANGALORE COMPLEX

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3		WELDING PROCESS SHALL BE AS PER EN ISO-6063				STATUS:	PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553		WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



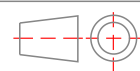
SECTION A-A
1:2



ISOMETRIC VIEW

- NOTES:
1. ALL DIMENSIONS ARE IN mm.
 2. REMOVE ALL SHARP EDGES & BURRS.
 3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.
 5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

UN CONTROLLED

2	2	843-20133	SELF CLINCHING STUD			M6X20	A2-70			
1	1	844-27116	PROFILE			--	EN AW-5754-H22			
SL.No.	QTY	PART / STOCK No.			DESCRIPTION		SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)	
								MATERIAL		
					PRODUCT	TRAIN B28				
					REF DRG	---				
					MATERIAL	ASSY				
					HEAT TREAT.	---	APPD	KRISHNA PRASAD	12.06.26	
					SURFACE TREAT.	---	REVD	KRISHNA PRASAD	12.06.26	
					TITLE	PROFILE	CHKD	SANTOSH KUMAR	12.06.26	
							DRWN	SANTOSH KUMAR	12.06.26	
							SCALE		SHEET	Wt.(kg)
							1:5		1 OF 1	0.71
ALT.No.	ECN No./CHANGES		DATE	BY	CHKD	APPD	DRG No.		ALT	
 BANGALORE COMPLEX							844-27037			

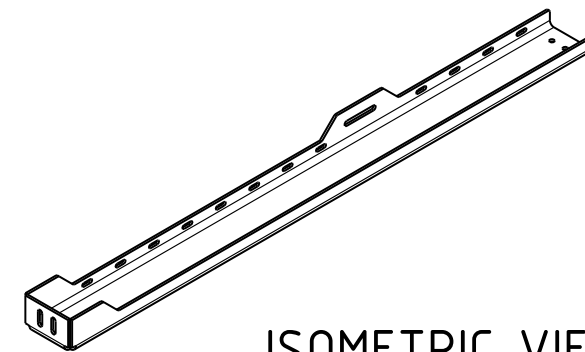
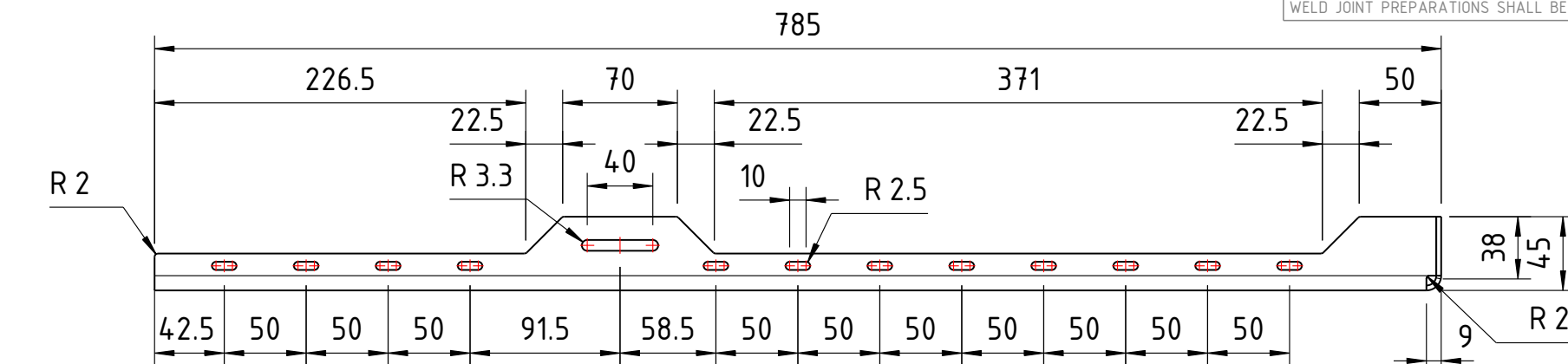
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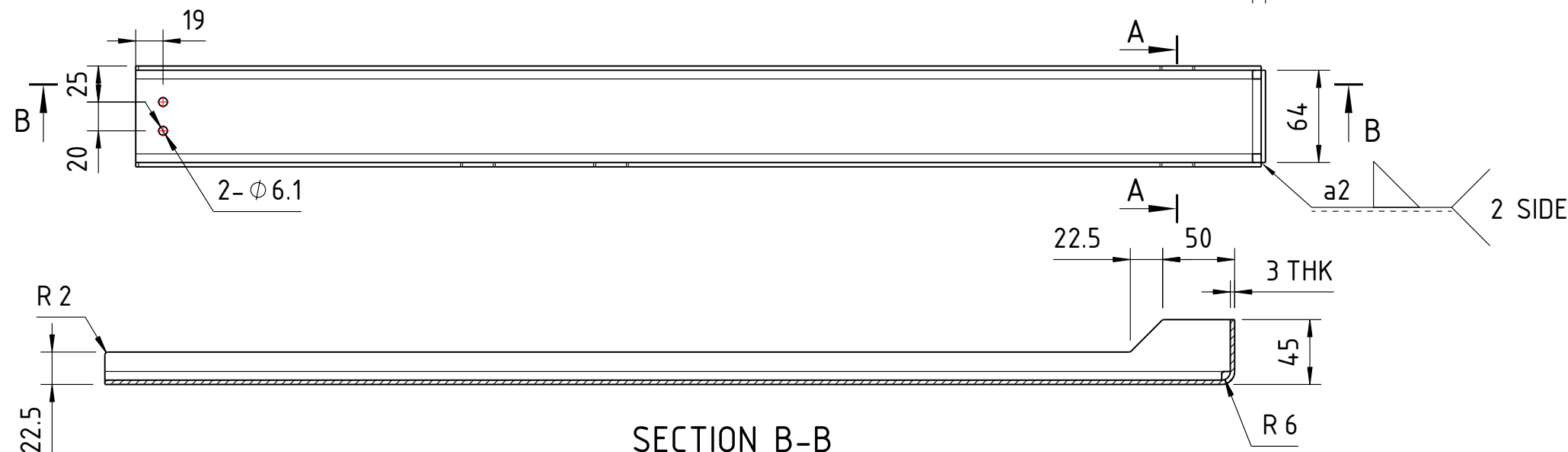
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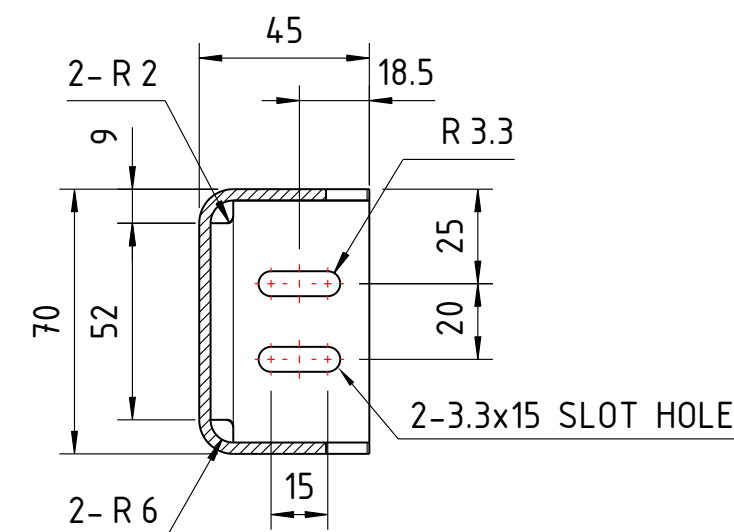
		2				1				
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 – 3	3 – 6	6 – 30	30 – 120	120 – 400	400 – 1000	1000 – 2000	2000 – 4000	
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2					
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.					
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3		WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:		PROTO/PRODUCTION			
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553		WELDING POSITIONS SHALL BE AS PER EN ISO 6947								
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817										
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3 INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5										



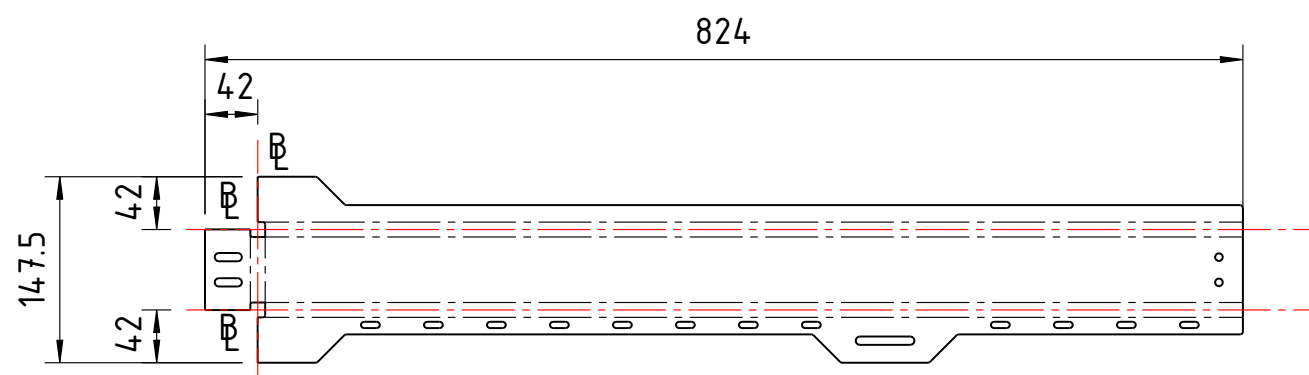
ISOMETRIC VIEW



SECTION B-B
1:4

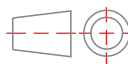
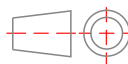


SECTION A-A
1:2



DEVELOPED VIEW WITH BENDING LINE DETAILS

UN CONTROLLED

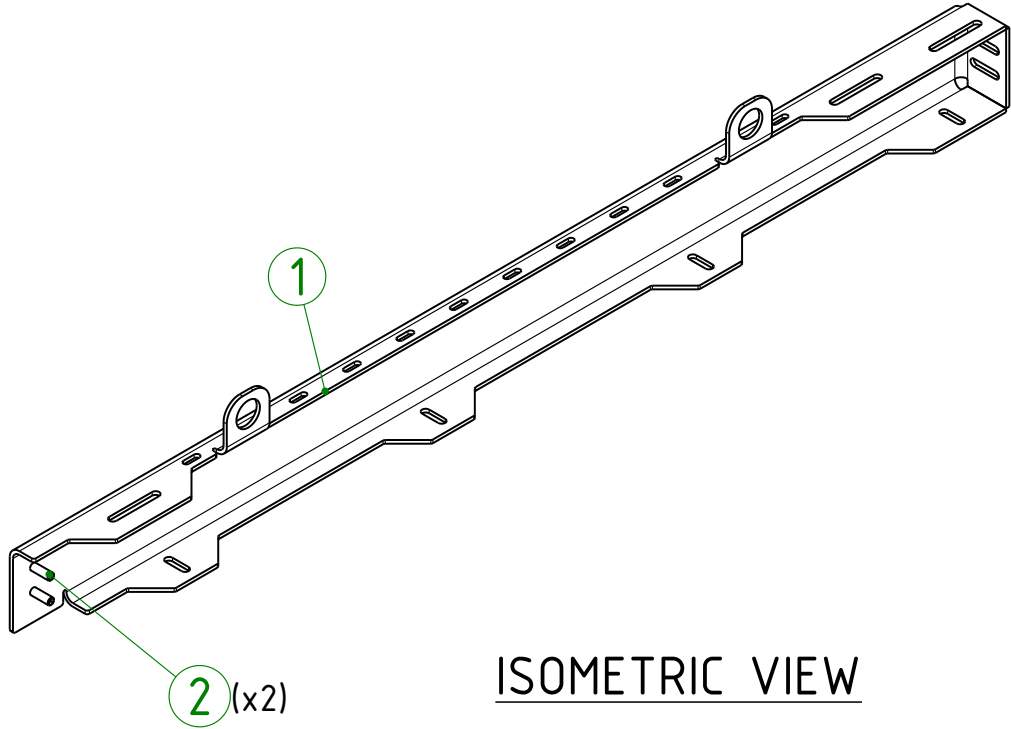
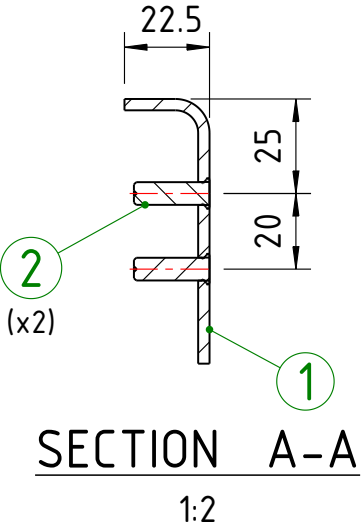
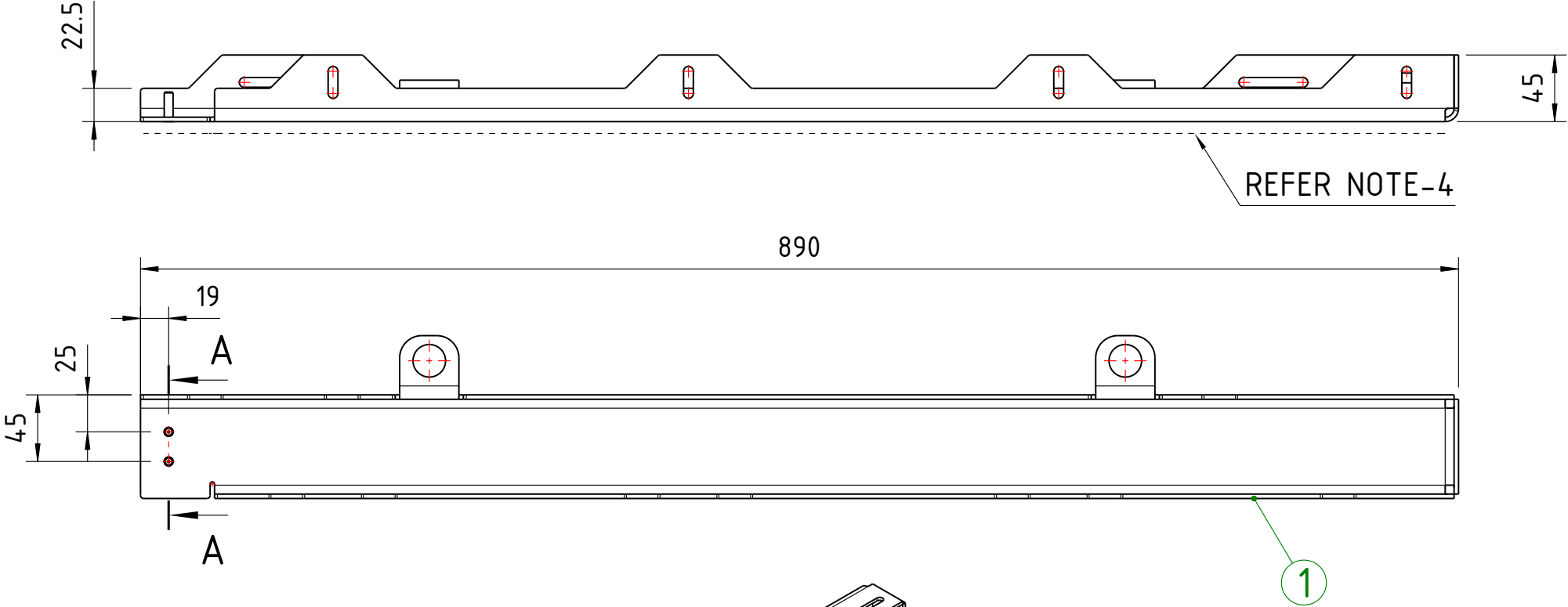
										824x148x3THK			
SL.No.	QTY	PART / STOCK No.				DESCRIPTION				SIZE (mm)		COMPANY STD./I.S Wt. (Kg)	
												MATERIAL	
						PRODUCT	TRAIN B28						
						REF DRG	---						
						MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B						
						HEAT TREAT.	---	APPD	KRISHNA PRASAD		10.06.26		
						SURFACE TREAT.	---	REVD	KRISHNA PRASAD		10.06.26		
						TITLE	PROFILE		CHKD	SANTOSH KUMAR		10.06.26	
						DRWN			R ABINAYA		10.06.26		
						SCALE				SHEET	Wt.(kg)		
							1:4			1 OF 1	0.7		
ALT.No.	ECN No./CHANGES				DATE	BY	CHKD	APPD	DRG No.				ALT
									844-27116				
								BANGALORE COMPLEX					

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BEML COMPLEX

DRG No. 844-27116

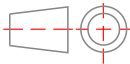
ALT
0

		2				1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:	PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



- NOTES:
- 1. ALL DIMENSIONS ARE IN mm.
 - 2. REMOVE ALL SHARP EDGES & BURRS.
 - 3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 - 4. SHOWN SURFACE SHALL BE POWDER COATED TO RAL 9016, 30% GLOSSINES / SATIN.
 - 5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

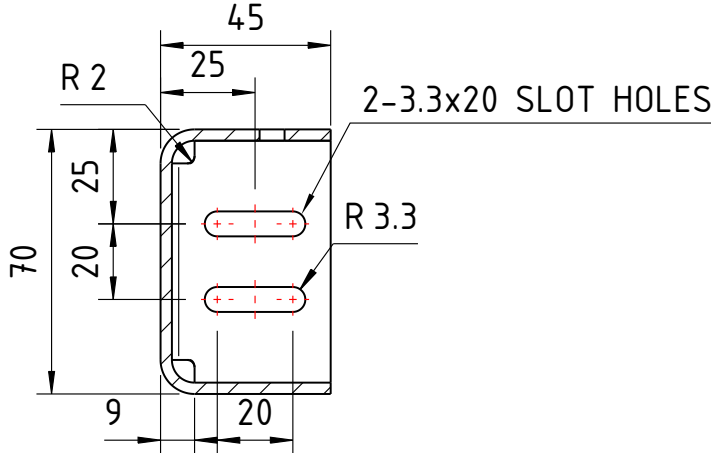
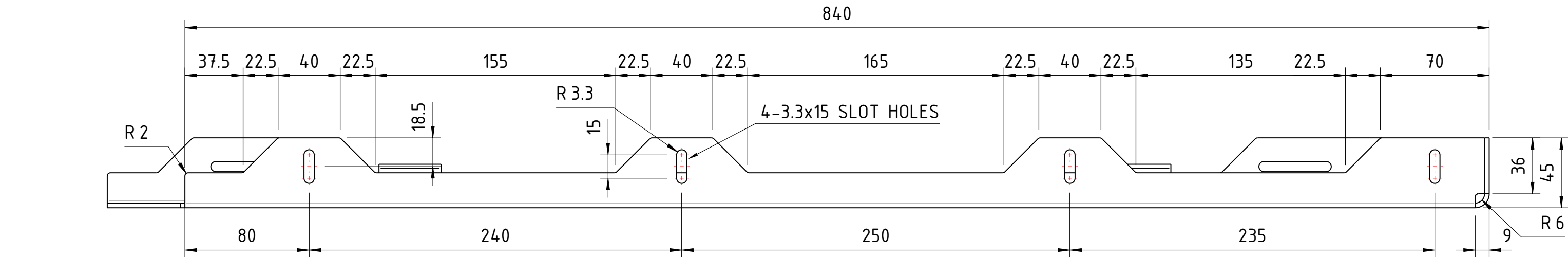
UN CONTROLLED

2	2	843-20133	SELF CLINCHING STUD			M6X20			A2-70						
1	1	844-27117	PROFILE			--			EN AW-5754-H22						
SL.No.	QTY	PART / STOCK No.			DESCRIPTION			SIZE (mm)		COMPANY STD./I.S Wt. (Kg)					
										MATERIAL					
						PRODUCT	TRAIN B28								
						REF DRG	---								
						MATERIAL	ASSY								
						HEAT TREAT.	---	APPD	KRISHNA PRASAD	12.06.26					
						SURFACE TREAT.	---	REVD	KRISHNA PRASAD	12.06.26					
						TITLE	PROFILE								
						CHKD						SANTOSH KUMAR		12.06.26	
						DRWN						SANTOSH KUMAR		12.06.26	
						SCALE							SHEET	Wt.(kg)	
												1:5	1 OF 1	1.22	
ALT.No.	ECN No./CHANGES		DATE	BY	CHKD	APPD	BANGALORE COMPLEX			DRG No.		844-27038		ALT	
															

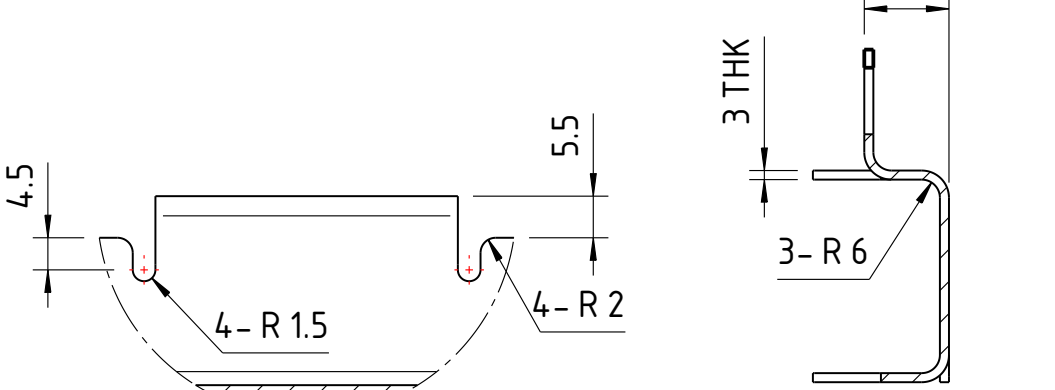
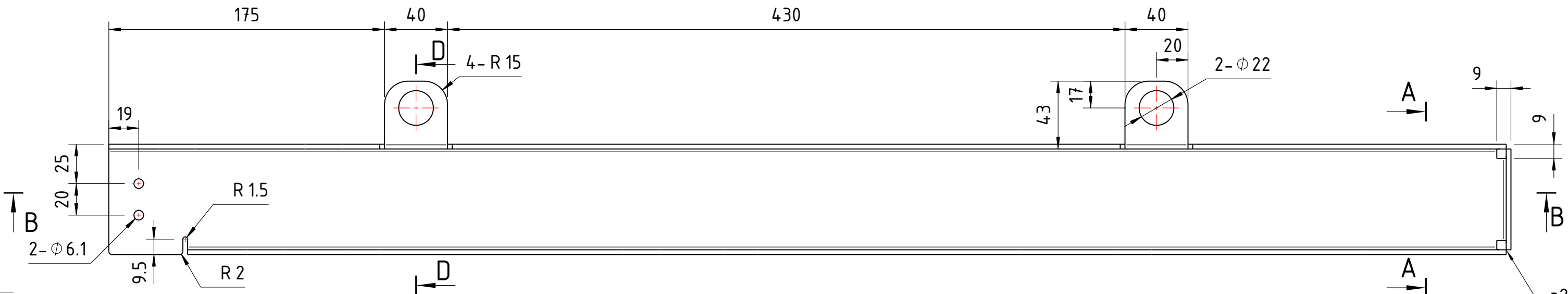
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GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12
VALUE	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
SYMBOL												
SURFACE ROUGHNESS												

		2				1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS: PROTO/PRODUCTION			
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3					INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5				

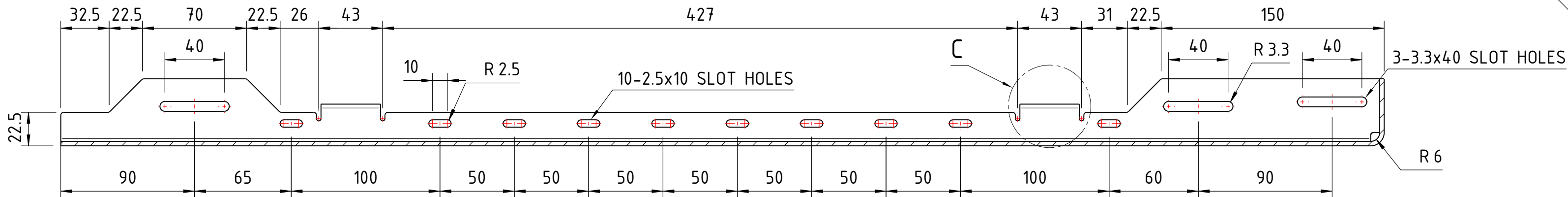


SECTION A-A
1:2

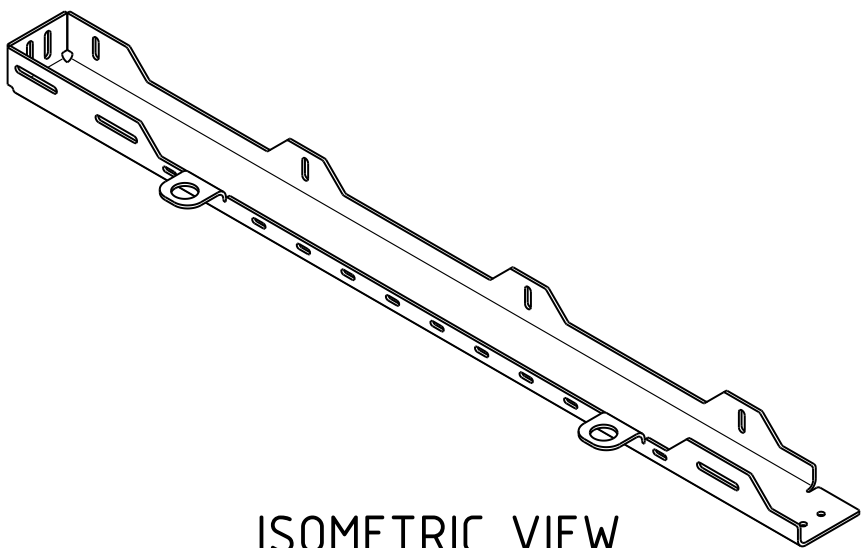


DETAIL-C
1:1

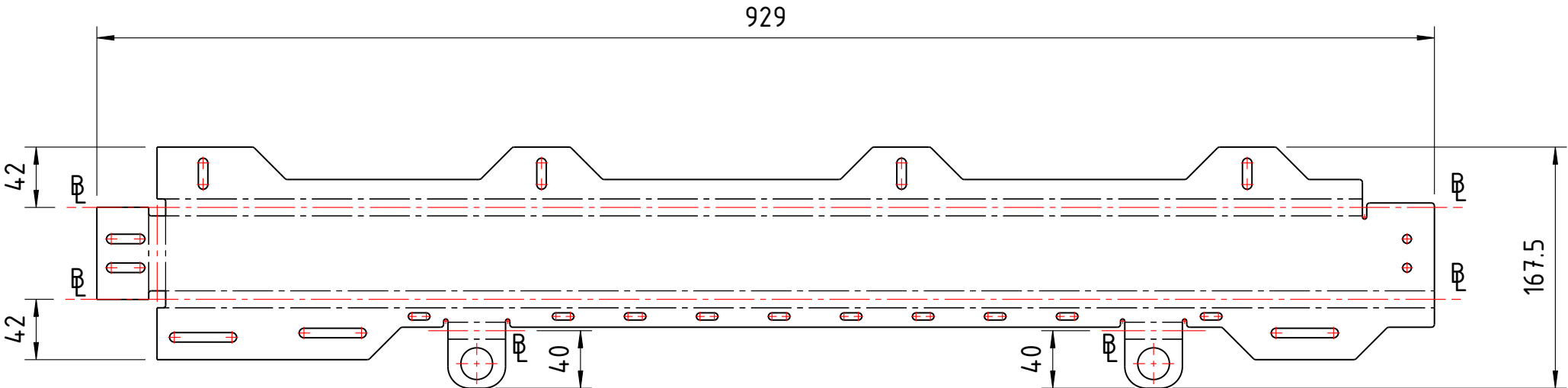
SECTION D-D
2:5



SECTION B-B
2:5



ISOMETRIC VIEW



DEVELOPED VIEW WITH BENDING LINE DETAILS

- NOTES
1. ALL DIMENSIONS ARE IN mm.
 2. REMOVE ALL SHARP EDGES & BURRS.
 3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 4. ALL WELD AREAS SHALL BE PASSIVATED.
 5. THE PART SHALL COMPLY TO TDC NO: FPIC/TD/077.

UN CONTROLLED

---		929x168x3THK			
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S
			PRODUCT	TRAIN B28	
			REF DRG	--	
			MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209	
			HEAT TREAT.	--	APPD KRISHNA PRASAD 10.06.26
			SURFACE TREAT.	--	REVD KRISHNA PRASAD 10.06.26
			TITLE	PROFILE	
			DRWN	R ABINAYA	10.06.26
			SCALE	2:5	0.85
			DRG No.	844-27117	ALT 0
ALT.No.	ECN No./CHANGES	DATE	BY	CRD	APPD
		BANGALORE COMPLEX			

UN CONTROLLED

1

2

3

4

5

1

2

3

4

5

2

6

843-20133

SELF CLINCHING STUD

M6X20

A2-70

1

1

844-27118

PROFILE

--

EN AW-5754-H22

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)	
					MATERIAL		
△			PRODUCT	TRAIN B28			
△			REF DRG	---			
△			MATERIAL	ASSY			
△			HEAT TREAT.	APPD	KRISHNA PRASAD	12.06.26	
△			SURFACE TREAT.	REVD	KRISHNA PRASAD	12.06.26	
△			TITLE	CHKD	SANTOSH KUMAR	12.06.26	
△			PROFILE	DRWN	SANTOSH KUMAR	12.06.26	
△				SCALE		SHEET	Wt.(kg)
△				1:5	1 OF 1	1.22	
ALT.No.	ECN No./CHANGES	DATE	BY	CHKD	APPD	BANGALORE COMPLEX	

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BEML

Beyond Possibilities

BANGALORE COMPLEX

DRG No.

844-27039

ALT

0

ISOMETRIC VIEW

SECTION A-A

1:2

NOTES:

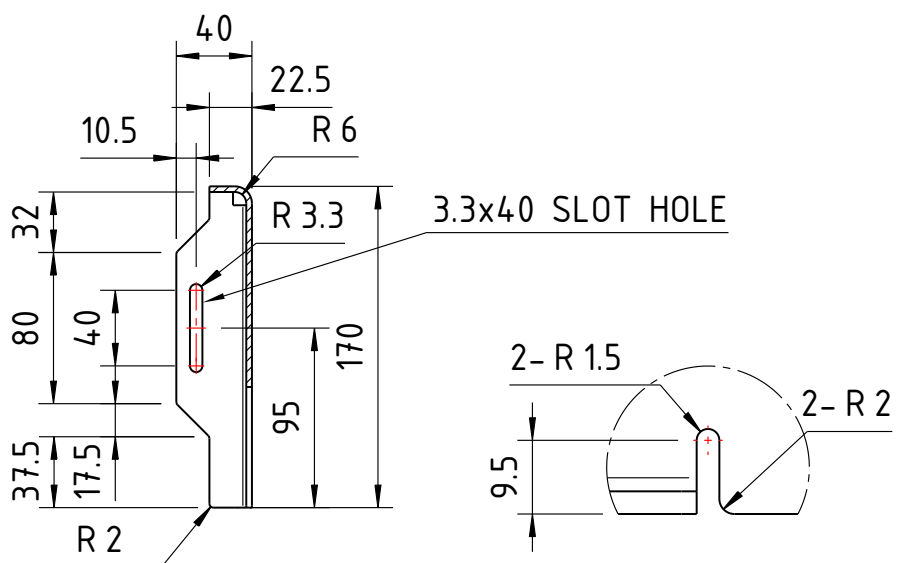
1. ALL DIMENSIONS ARE IN mm.

2. REMOVE ALL SHARP EDGES & BURRS.

3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.

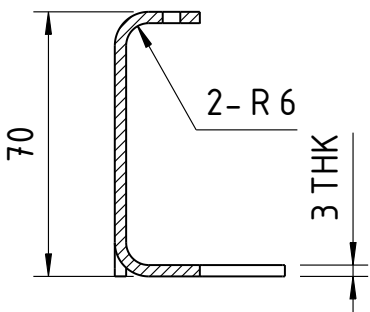
4. SHOWN SURFACE SHALL BE POWDER COATED TO RAL 9016, 30% GLOSSINES / SATIN.

5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

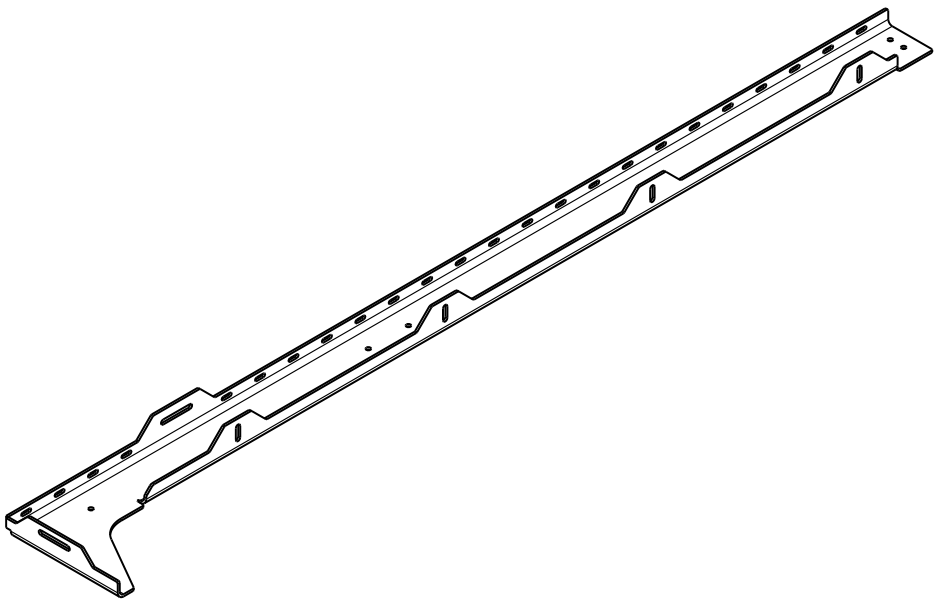
[illegible]

DETAIL-C

1:1



1:2



ISOMETRIC VIEW

UN CONTROLLED

NOTES

7

6

5

4

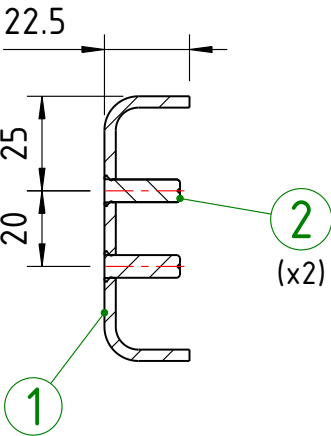
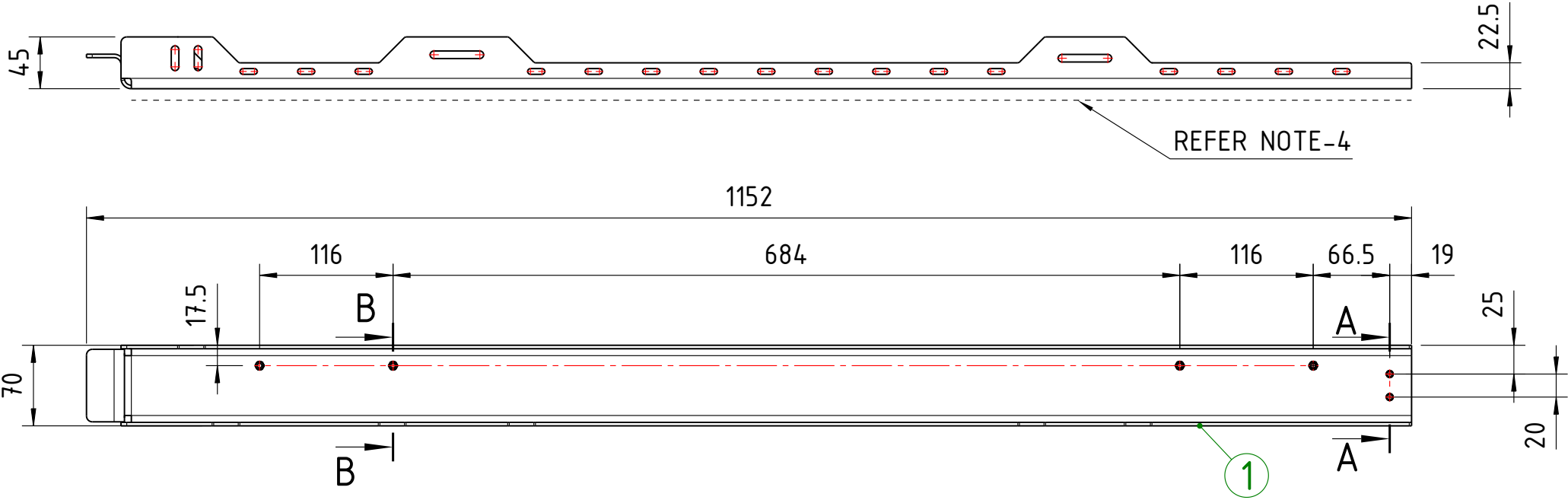
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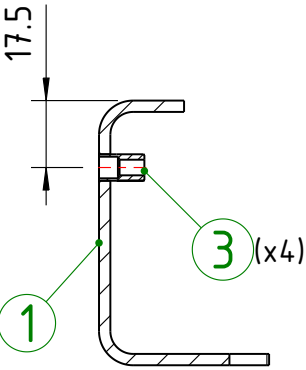
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A2

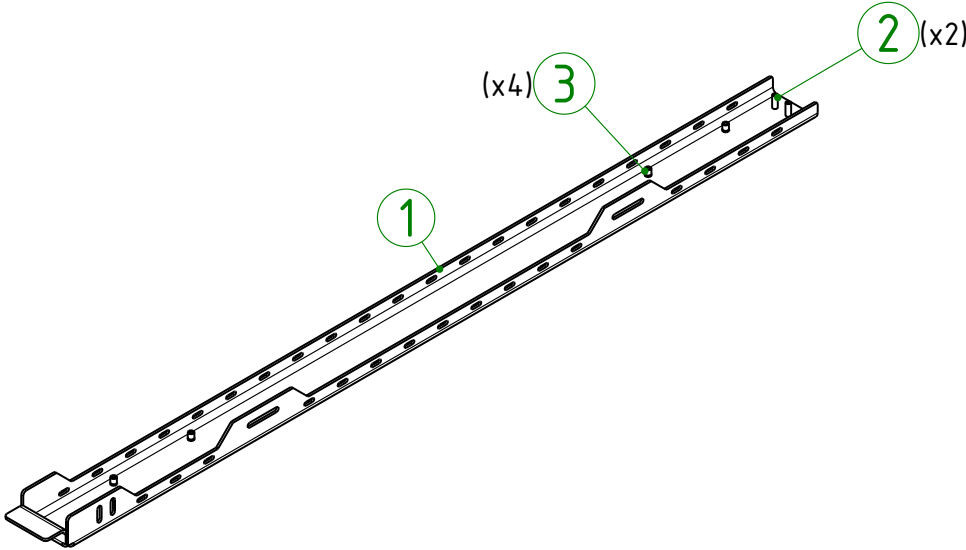
		2				1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3		WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:		PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553		WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



SECTION A-A
1:2



SECTION B-B
1:2



ISOMETRIC VIEW

NOTES:

- ALL DIMENSIONS ARE IN mm.
- REMOVE ALL SHARP EDGES & BURRS.
- COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
- SHOWN SURFACE SHALL BE POWDER COATED TO RAL 9016, 30% GLOSSINES / SATIN.
- SHALL COMPLY TO TDC NO. FPIIC/TD/077.

UN CONTROLLED

3	4	BOLLHOFF 343 48 050 020			RIVET NUT			M5			SS		
2	2	843-20133			SELF CLINCHING STUD			M6X20			A2-70		
1	1	844-27120			PROFILE			--			EN AW-5754-H22		
SL.No.	QTY	PART / STOCK No.			DESCRIPTION			SIZE (mm)			COMPANY STD./I.S Wt. (Kg)		
											MATERIAL		
						PRODUCT	TRAIN B28						
						REF DRG	---						
						MATERIAL	ASSY						
						HEAT TREAT.	---	APPD	KRISHNA PRASAD		12.06.26		
						SURFACE TREAT.	---	REVD	KRISHNA PRASAD		12.06.26		
						TITLE	PROFILE		CHKD	SANTOSH KUMAR		12.06.26	
								DRWN	SANTOSH KUMAR		12.06.26		
								SCALE		SHEET	Wt.(kg)		
								1:5		1 OF 1	1.01		
ALT.No. ECN No./CHANGES						DATE	BY	CHKD	APPD	DRG No.		ALT	
										844-27040			



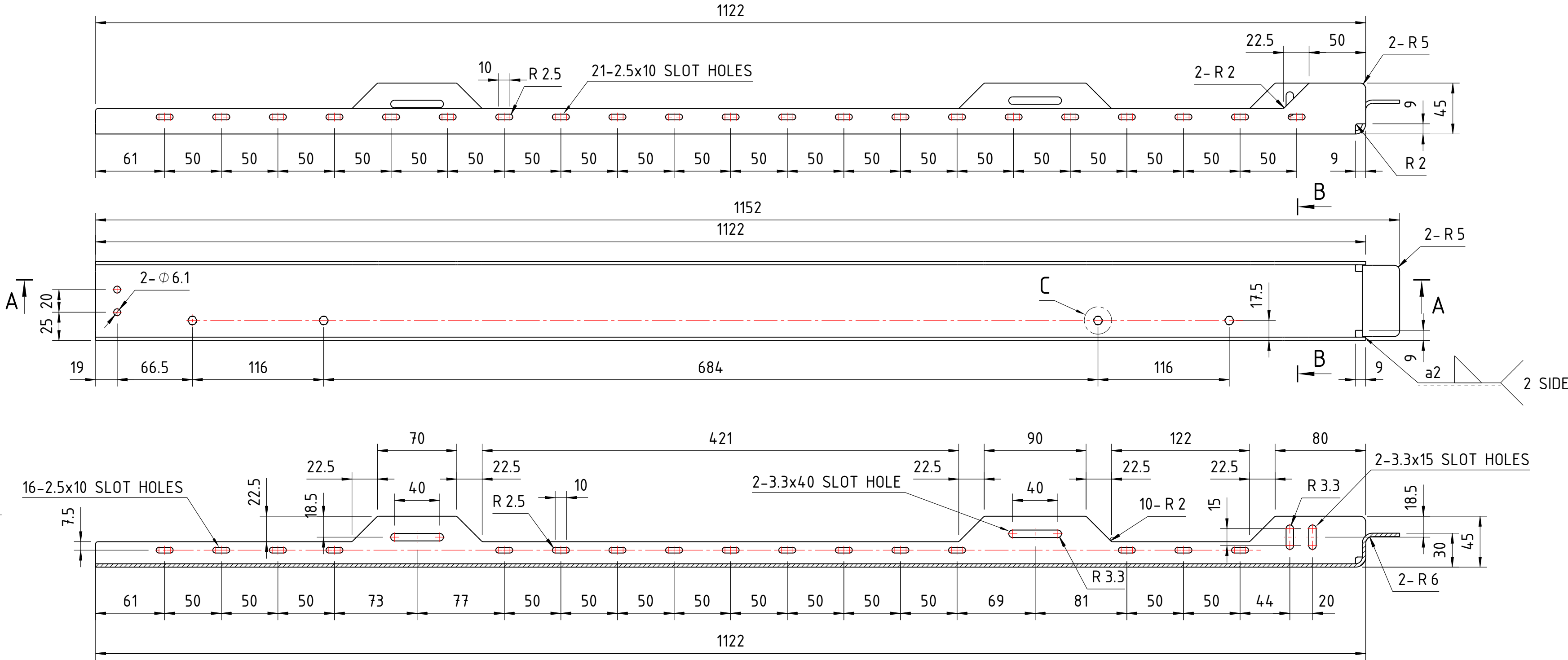
844-27040

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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												

UN CONTROLLED

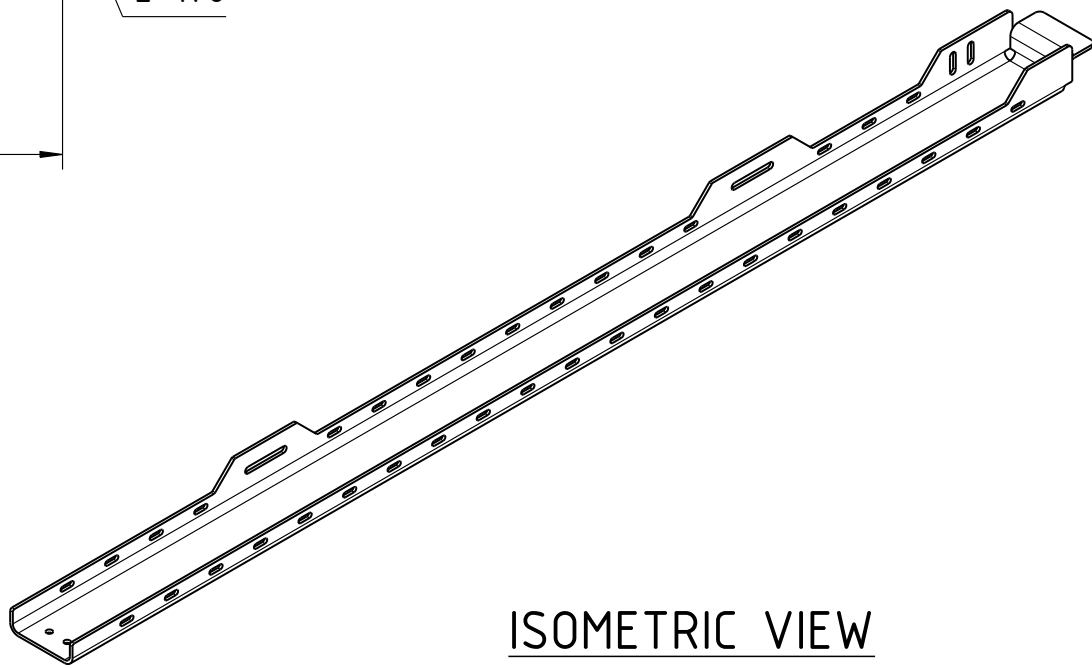
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-6063			STATUS:	PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



SECTION A-A
1:3

SECTION B-B
1:3

DETAIL-C
1:1

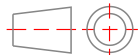


ISOMETRIC VIEW

DEVELOPED VIEW WITH BENDING LINE DETAILS

NOTES

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. ALL WELD AREAS SHALL BE PASSIVATED.
5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

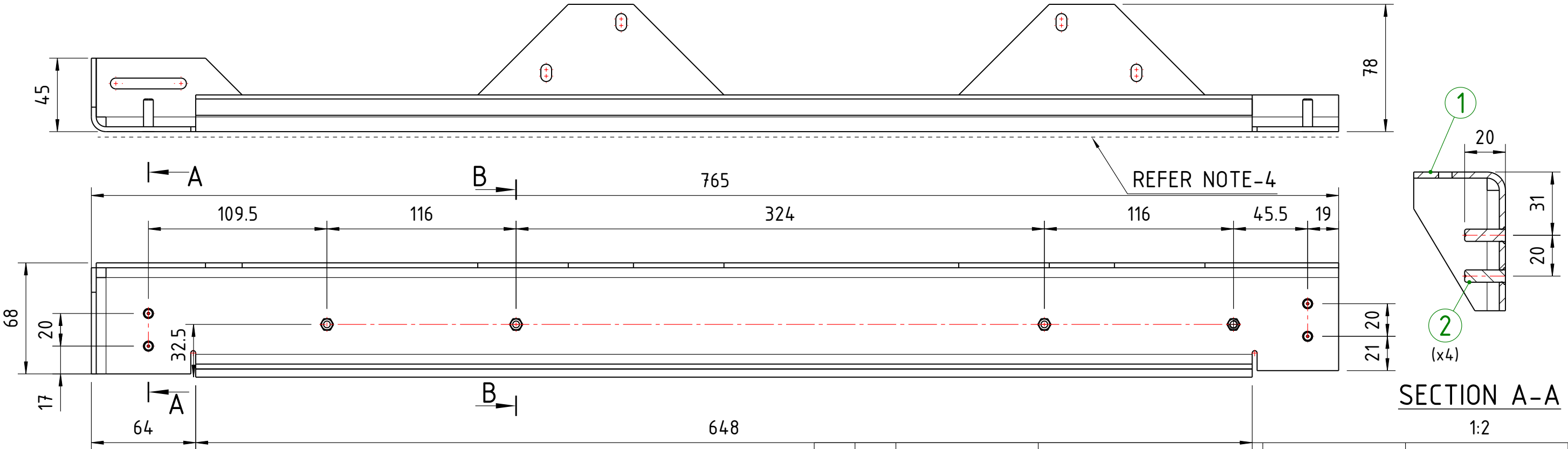
		---				1173x148x3THK				
SL.No.	QTY	PART / STOCK No.		DESCRIPTION		SIZE (mm)	COMPANY STD./I.S		Wt. (Kg)	
							MATERIAL			
					PRODUCT	TRAIN B28				
					REF DRG	--				
					MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209				
					HEAT TREAT.	--	APPD	KRISHNA PRASAD	10.06.26	
					SURFACE TREAT.	--	REVD	KRISHNA PRASAD	10.06.26	
					TITLE	PROFILE	CHKD	SANTOSH KUMAR	10.06.26	
							DRWN	SANTOSH KUMAR	10.06.26	
							SCALE		SHEET	Wt.(kg)
							1:2		1 OF 1	0.54
						DRG No.		ALT		
						BANGALORE		844-27120		
						COMPLEX				

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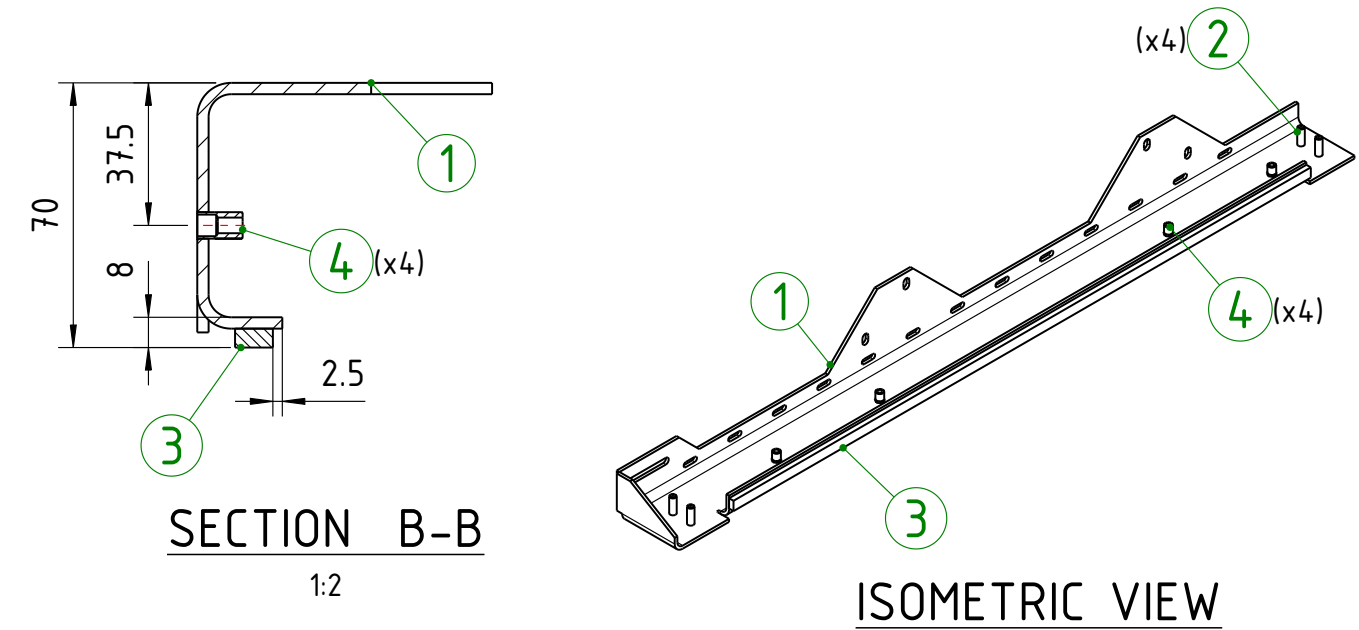
GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12
VALUE	0.075	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
SYMBOL												
SURFACE ROUGHNESS												

UN CONTROLLED

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 – 3	3 – 6	6 – 30	30 – 120	120 – 400	400 – 1000	1000 – 2000	2000 – 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:	PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



SECTION A-A
1:2

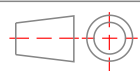


SECTION B-B
1:2

ISOMETRIC VIEW

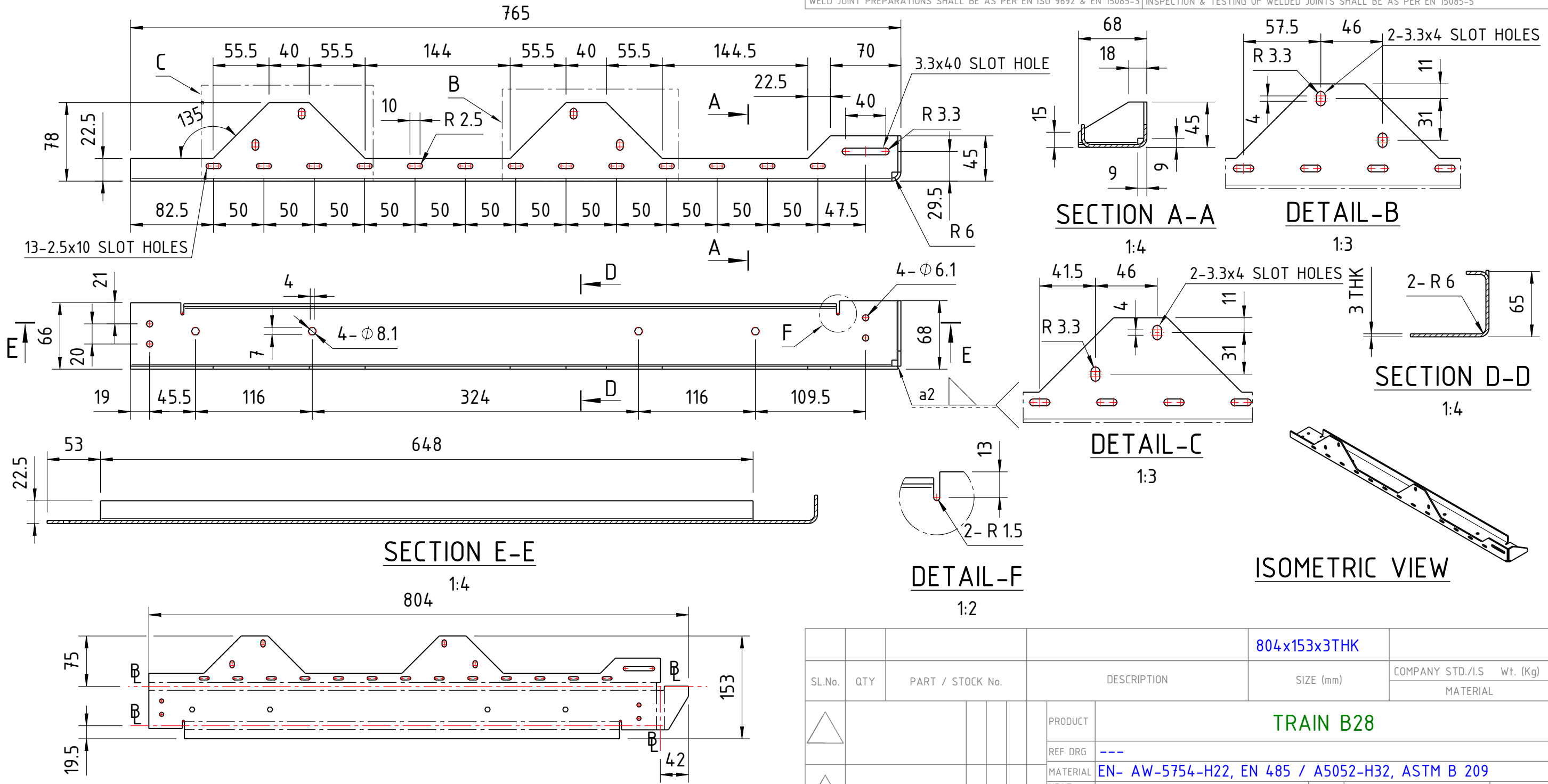
NOTES:

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE POWDER COATED TO RAL 9016, 30% GLOSSINES / SATIN.
5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

4	4	BOLLHOFF 343 48 050 020	RIVET NUT	M5	SS	
3	1	843-27348	RECTANGULAR SEALS EPDM	L=648mm	EPDM	
2	4	843-20133	SELF CLINCHING STUD	M6X20	A2-70	
1	1	844-27121	PROFILE	--	EN AW-5754-H22	
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S Wt. (Kg)	
					MATERIAL	
			PRODUCT	TRAIN B28		
			REF DRG	---		
			MATERIAL	EN AW-5754-H22, EN 485 / A5052-H32, ASTM B 209		
			HEAT TREAT.	---	APPD KRISHNA PRASAD 12.06.26	
			SURFACE TREAT.	---	REVD KRISHNA PRASAD 12.06.26	
			TITLE	CHKD SANTOSH KUMAR 12.06.26		
			PROFILE	DRWN SANTOSH KUMAR 12.06.26		
				SCALE 2:5		SHEET 1 OF 1
				Wt.(kg) 0.76		
ALT.No.	ECN No./CHANGES	DATE	BY	CHKD	APPD	
			BANGALORE COMPLEX		DRG No. 844-27041	
			BEML		ALT 0	

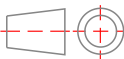
वी ई एम एल BANGALORE
BEML COMPLEX

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3		WELDING PROCESS SHALL BE AS PER EN ISO-4063				STATUS:	PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553		WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					

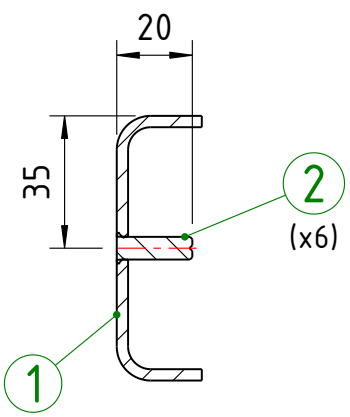
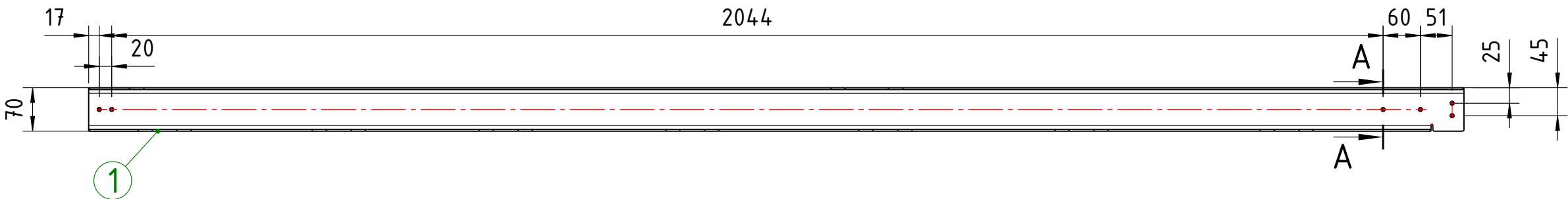
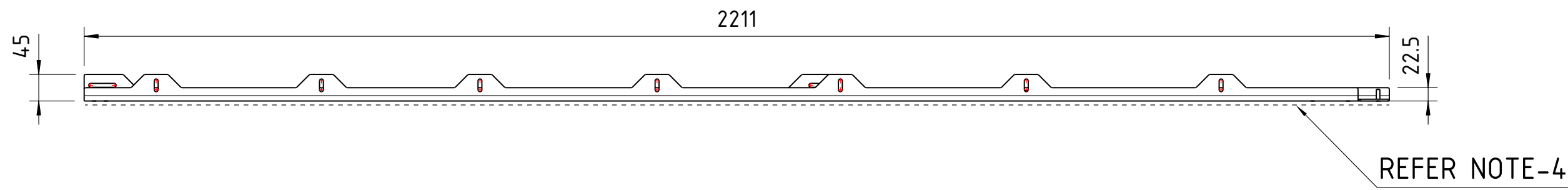


NOTES

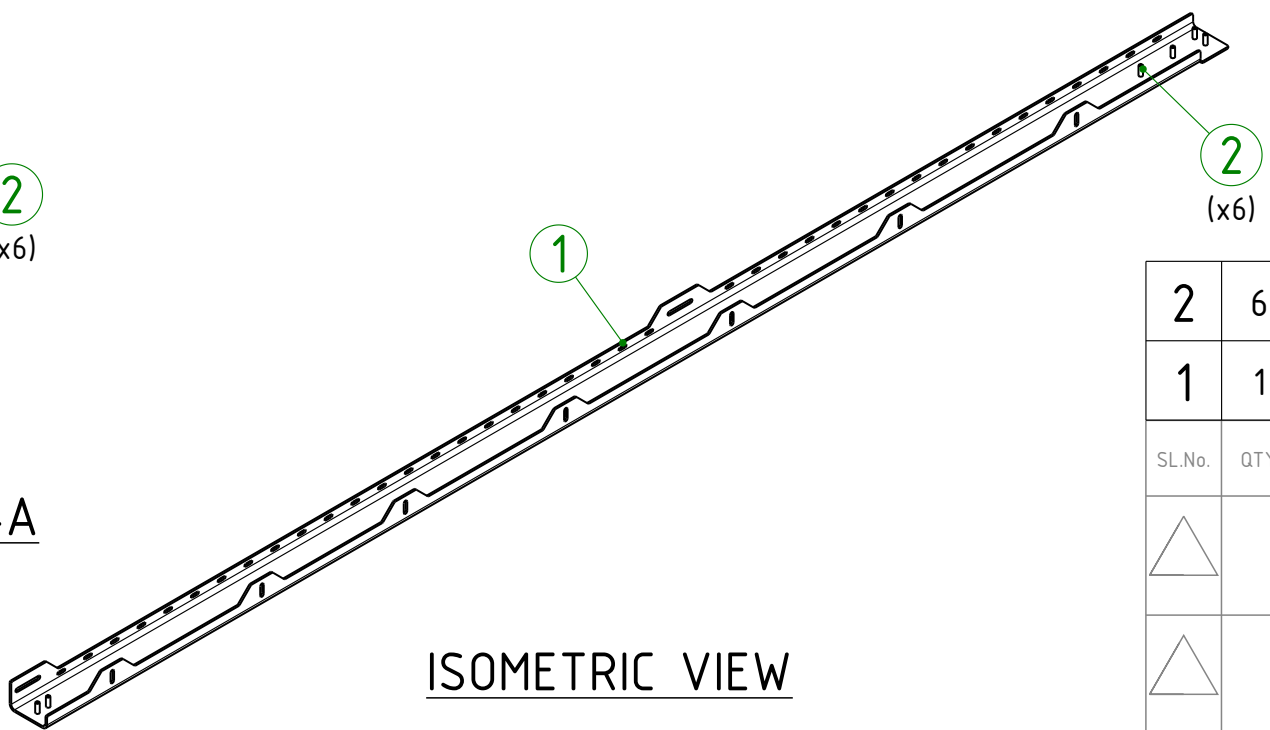
1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. ALL WELD AREAS SHALL BE PASSIVATED.
5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

						804x153x3THK						
SL.No.	QTY	PART / STOCK No.	DESCRIPTION				SIZE (mm)	COMPANY STD./I.S		Wt. (Kg)		
								MATERIAL				
							PRODUCT	TRAIN B28				
							REF DRG	---				
							MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209				
							HEAT TREAT.	---	APPD	KRISHNA PRASAD	11.06.26	
							SURFACE TREAT.	---	REVD	KRISHNA PRASAD	11.06.26	
							TITLE	CHKD	SANTOSH KUMAR	11.06.26		
							PROFILE	DRWN	SANTOSH KUMAR	11.06.26		
								SCALE		SHEET	Wt.(kg)	
								1:4	1 OF 1	0.7		
ALT.No.	ECN No./CHANGES		DATE	BY	CHKD	APPD	BANGALORE COMPLEX				DRG No.	ALT
							844-27121					

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:	PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



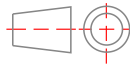
SECTION A-A
1:2



ISOMETRIC VIEW

- NOTES:
1. ALL DIMENSIONS ARE IN mm.
 2. REMOVE ALL SHARP EDGES & BURRS.
 3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 4. SHOWN SURFACE SHALL BE POWDER COATED TO RAL 9016, 30% GLOSSINES / SATIN.
 5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

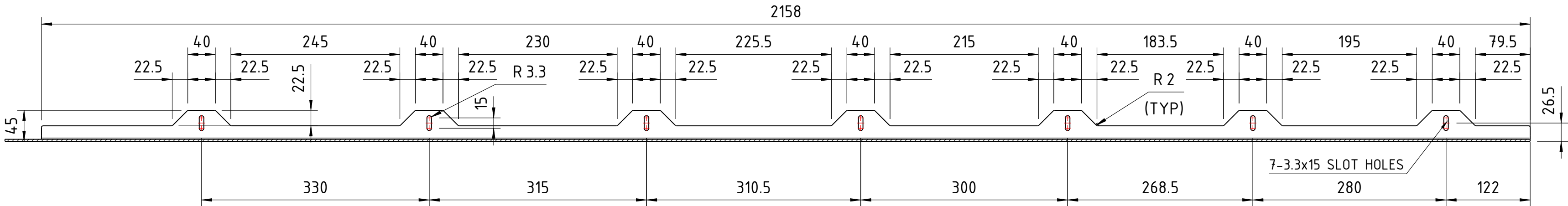
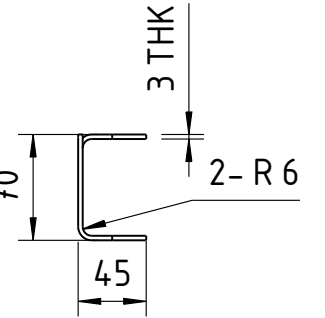
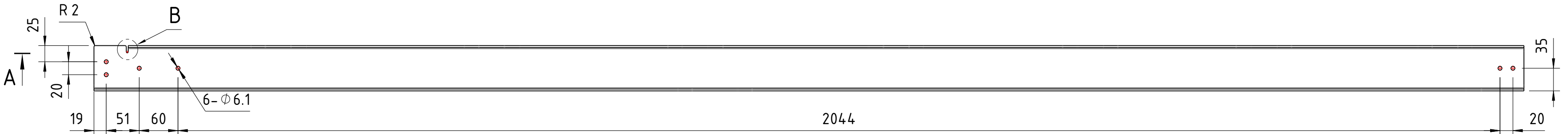
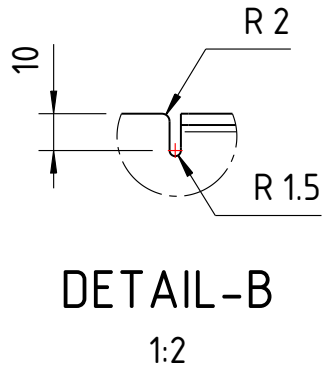
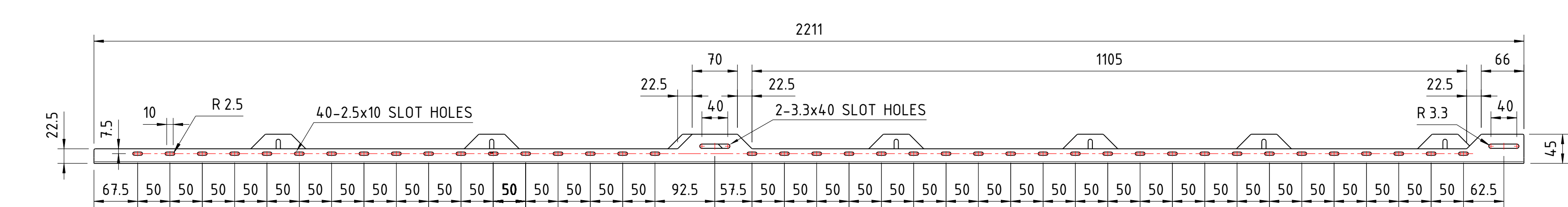
UN CONTROLLED

2	6	843-20133	SELF CLINCHING STUD				M6X20	A2-70	
1	1	844-27122	PROFILE				--	EN AW-5754-H22	
SL.No.	QTY	PART / STOCK No.			DESCRIPTION		SIZE (mm)	COMPANY STD./I.S Wt. (Kg)	
								MATERIAL	
					PRODUCT	TRAIN B28			
					REF DRG	---			
					MATERIAL	EN AW-5754-H22, EN 485 / A5052-H32, ASTM B 209			
					HEAT TREAT.	APPD	KRISHNA PRASAD	12.06.26	
					SURFACE TREAT.	REVD	KRISHNA PRASAD	12.06.26	
					TITLE	CHKD	SANTOSH KUMAR	12.06.26	
					PROFILE	DRWN	SANTOSH KUMAR	12.06.26	
						SCALE		SHEET	Wt.(kg)
						1:5		1 OF 1	1.94
ALT.No.	ECN No./CHANGES		DATE	BY	CHKO	APPD	DRG No.		
							844-27042		
							ALT		
									
 BANGALORE COMPLEX									

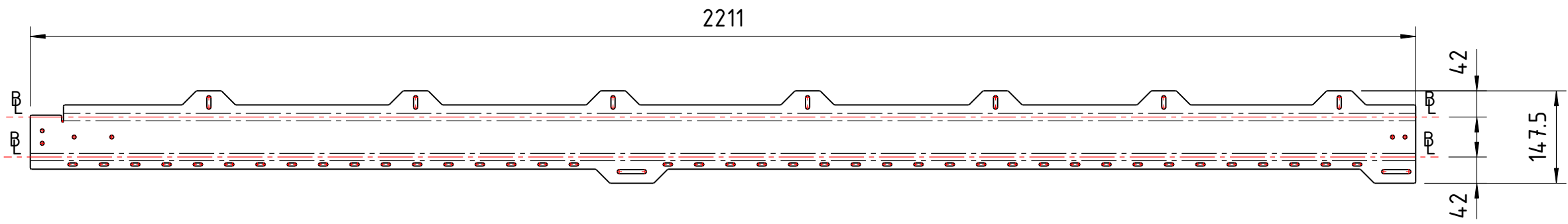
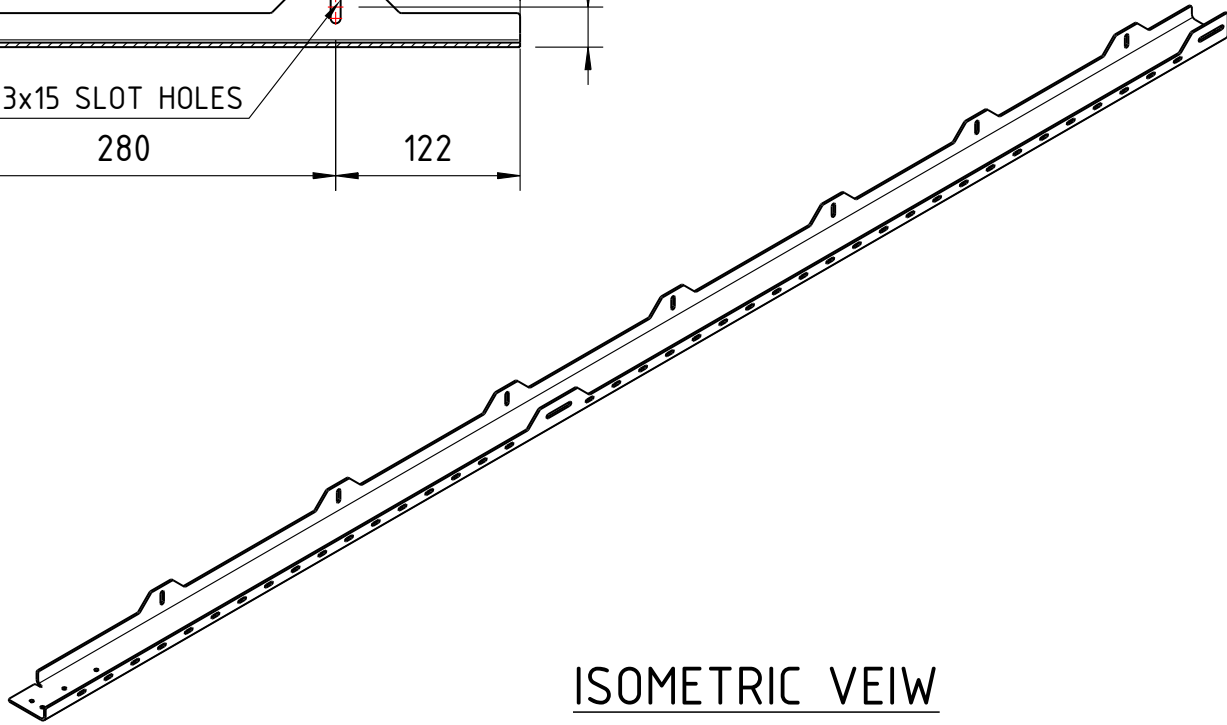
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GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12	SURFACE ROUGHNESS
VALUE	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50	
SYMBOL													

		2					1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000	
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2					
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.					
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-6063			STATUS:	PROTO/PRODUCTION			
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817			WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3							
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3										
			INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5							



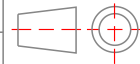
SECTION A-A
1:5



DEVELOPED VIEW WITH BENDING LINE DETAILS

UN CONTROLLED

- NOTES:
1. ALL DIMENSIONS ARE IN mm.
 2. REMOVE ALL SHARP EDGES & BURRS.
 3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 4. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

		---				2211x148x3THK				
SL.No.	QTY	PART / STOCK No.		DESCRIPTION		SIZE (mm)		COMPANY STD./I.S	Wt. (Kg)	
								MATERIAL		
					PRODUCT	TRAIN B28				
					REF DRG	--				
					MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209				
					HEAT TREAT.	--	APPD	KRISHNA PRASAD	11.06.26	
					SURFACE TREAT.	--	REVD	KRISHNA PRASAD	11.06.26	
					TITLE	PROFILE	CHKD	SANTOSH KUMAR	11.06.26	
							DRWN	SANTOSH KUMAR	11.06.26	
							SCALE		SHEET	Wt.(kg)
						1:5	1	OF 1	0.91	
ALT.No.	ECN No./CHANGES		DATE	BY	CHKD	APPD	BANGALORE COMPLEX		ALT	
								844-27122		
										A2

5

4

3

2

1

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS
CLASS - MEDIUM

RANGE

0.5 - 3

3 - 6

6 - 30

30 - 120

120 - 400

400 - 1000

1000 - 2000

2000 - 4000

TOLERANCE

±0.1

±0.1

±0.2

±0.3

±0.5

±0.8

±1.2

±2

GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1

GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2

GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920

VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.

WELDING SHALL BE CARRIED OUT AS PER EN 15085-3

WELDING PROCESS SHALL BE AS PER EN ISO-4063

WELDING SYMBOLS SHALL BE AS PER EN ISO-2553

WELDING POSITIONS SHALL BE AS PER EN ISO 6947

QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817

STATUS: **PROTO/PRODUCTION**

WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3

INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5

1240

45

70

REFER NOTE-4

60

625

60

336

19

35

70

25

45

A

A

1

2 (x6)

20

35

70

1

2 (x6)

SECTION A-A

1:2

ISOMETRIC VIEW

1

2 (x6)

NOTES:

1. ALL DIMENSIONS ARE IN mm.

2. REMOVE ALL SHARP EDGES & BURRS.

3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.

4. SHOWN SURFACE SHALL BE POWDER COATED TO RAL 9016, 30% GLOSSINES / SATIN.

5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

UN CONTROLLED

2	6	843-20133	SELF CLINCHING STUD	M6X20	A2-70
1	1	844-27123	PROFILE	--	EN AW-5754-H22

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)
					MATERIAL	
			PRODUCT	TRAIN B28		
			REF DRG	---		
			MATERIAL	EN AW-5754-H22, EN 485 / A5052-H32, ASTM B 209		
			HEAT TREAT.	APPD	KRISHNA PRASAD	12.06.26
			SURFACE TREAT.	REVD	KRISHNA PRASAD	12.06.26
			TREAT. TITLE	CHKD	SANTOSH KUMAR	12.06.26
				DRWN	SANTOSH KUMAR	12.06.26
				SCALE		SHEET
				1:5	1 OF 1	Wt.(kg)
						1.18
						ALT
						0

PROFILE

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BEML Beyond Possibilities

5

4

3

2

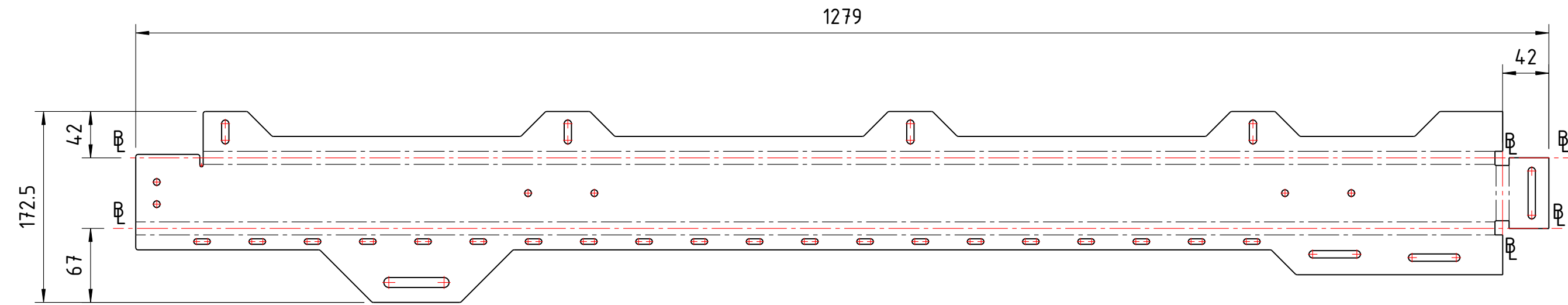
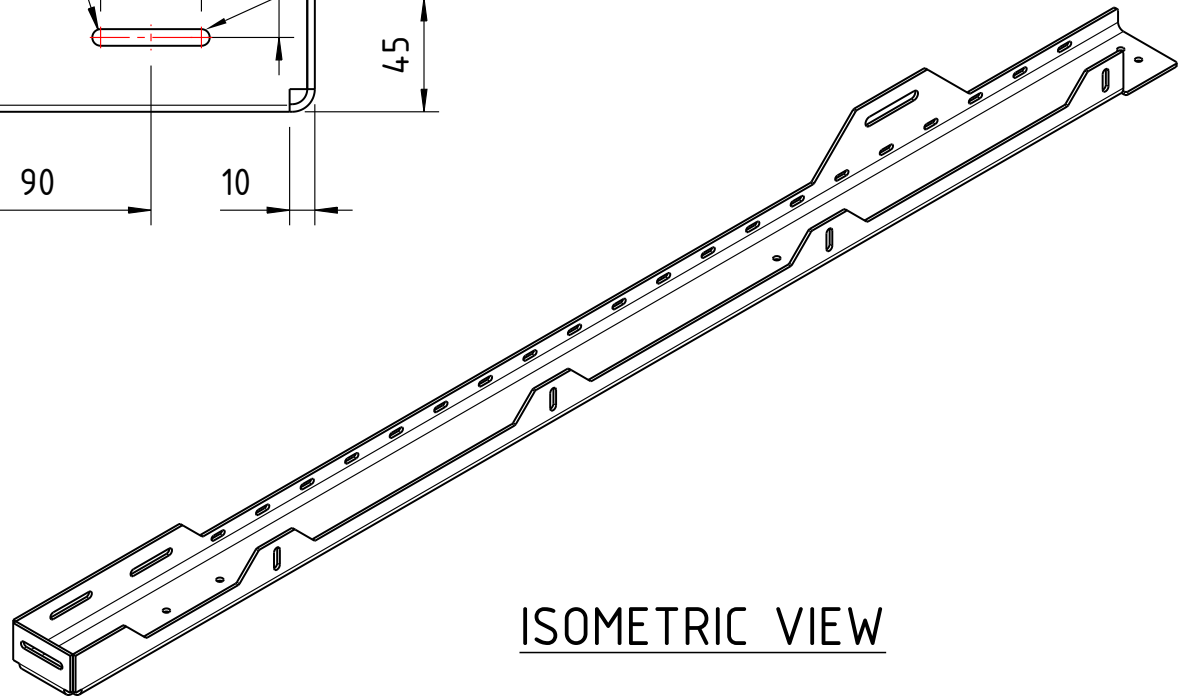
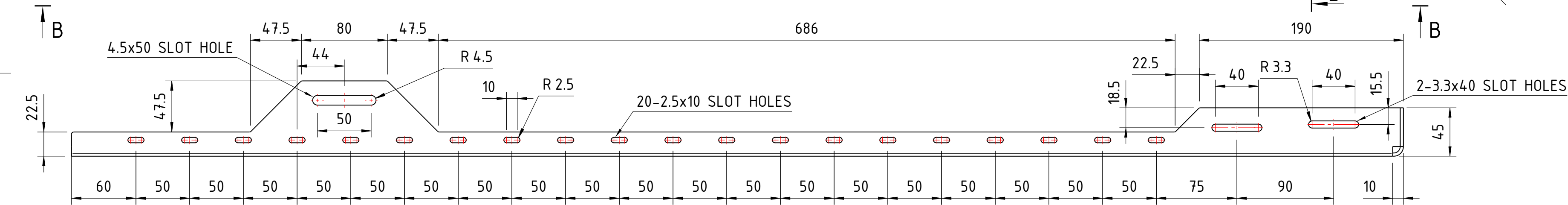
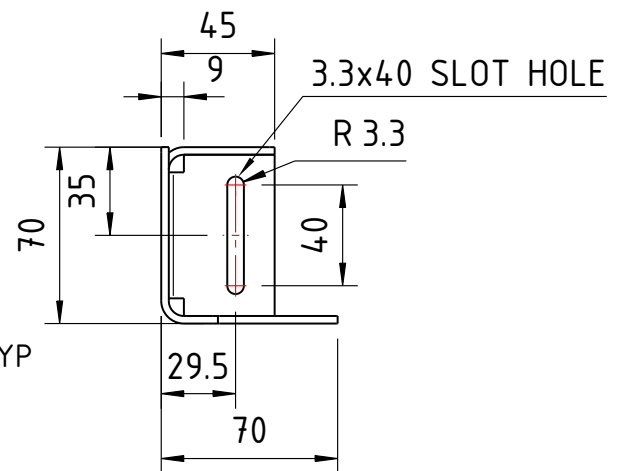
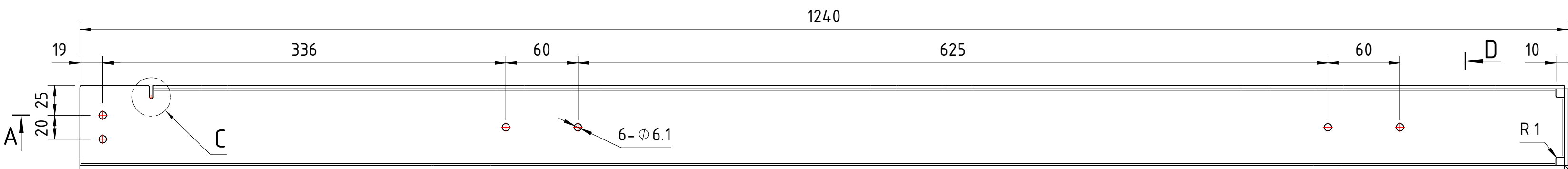
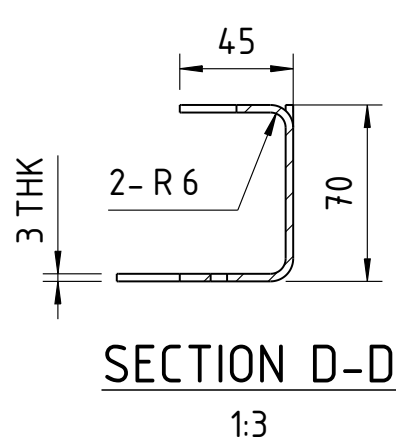
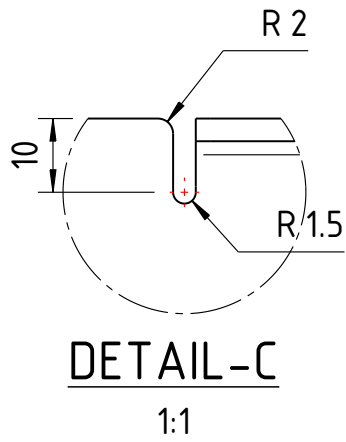
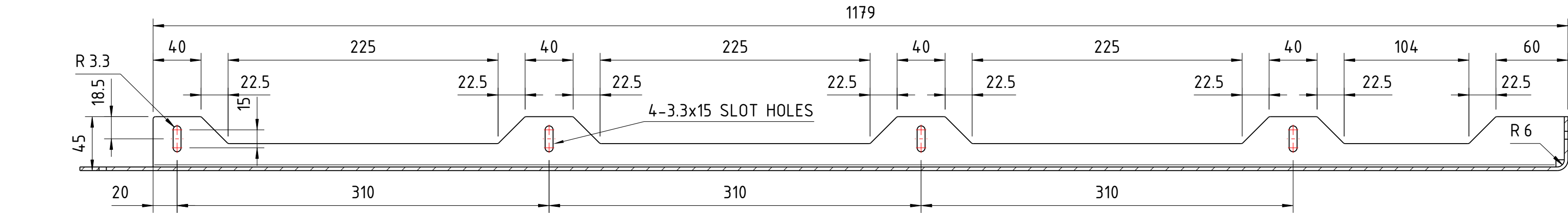
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GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12
VALUE	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
SYMBOL												
SURFACE ROUGHNESS												

2					1				
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-6063			STATUS:		PROTO/PRODUCTION	
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3			INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5						



UN CONTROLLED

- NOTES
1. ALL DIMENSIONS ARE IN mm.
 2. REMOVE ALL SHARP EDGES & BURRS.
 3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 4. ALL WELD AREAS SHALL BE PASSIVATED.
 5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

		---				1279x173x3THK				
SL.No.	QTY	PART / STOCK No.		DESCRIPTION		SIZE (mm)		COMPANY STD./I.S	Wt. (Kg)	
								MATERIAL		
					PRODUCT	TRAIN B28				
					REF DRG	--				
					MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209				
					HEAT TREAT	--	APPD	KRISHNA PRASAD	11.06.26	
					SURFACE TREAT	--	REVD	KRISHNA PRASAD	11.06.26	
					TITLE	PROFILE		CHKD	SANTOSH KUMAR	11.06.26
							DRWN	SANTOSH KUMAR	11.06.26	
							SCALE		SHEET	1 OF 1
							1:2		1 OF 1	1.16
							DRG No.			
ALT.No.	ECN No./CHANGES		DATE	BY	CHKD	APPD	BANGALORE COMPLEX			
3						2		1		A

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		~	△			△					△	△	△

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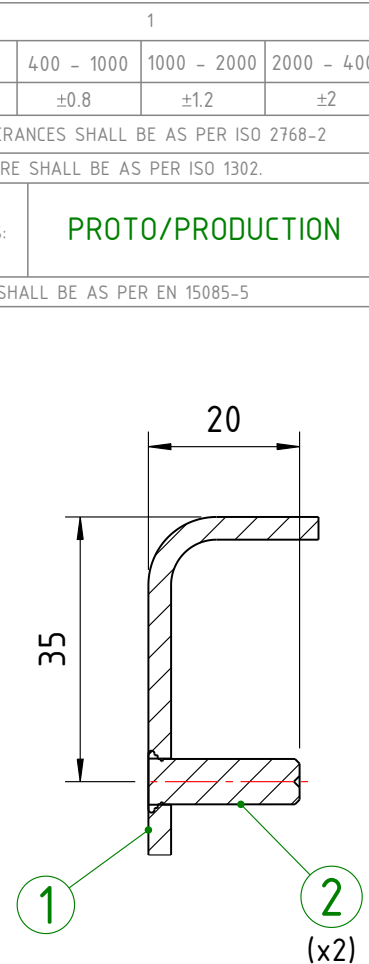
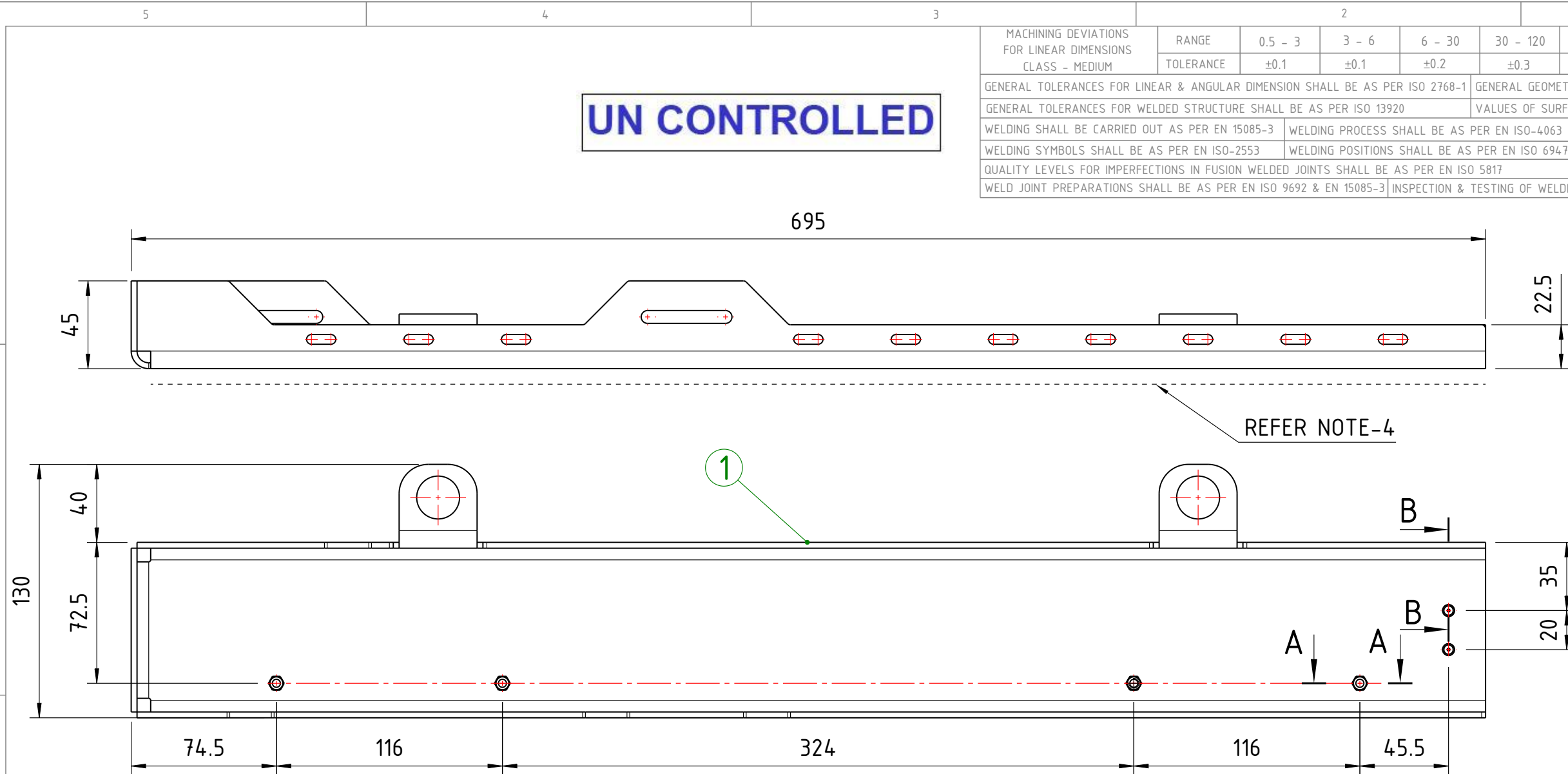
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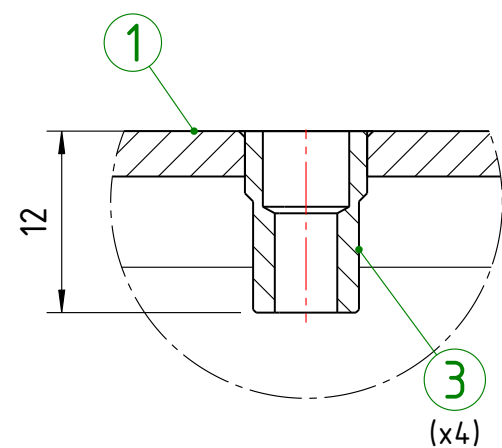
SURFACE
ROUGHNESS

		2				1				
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM		RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
		TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1						GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920						VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:		PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817										
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5						



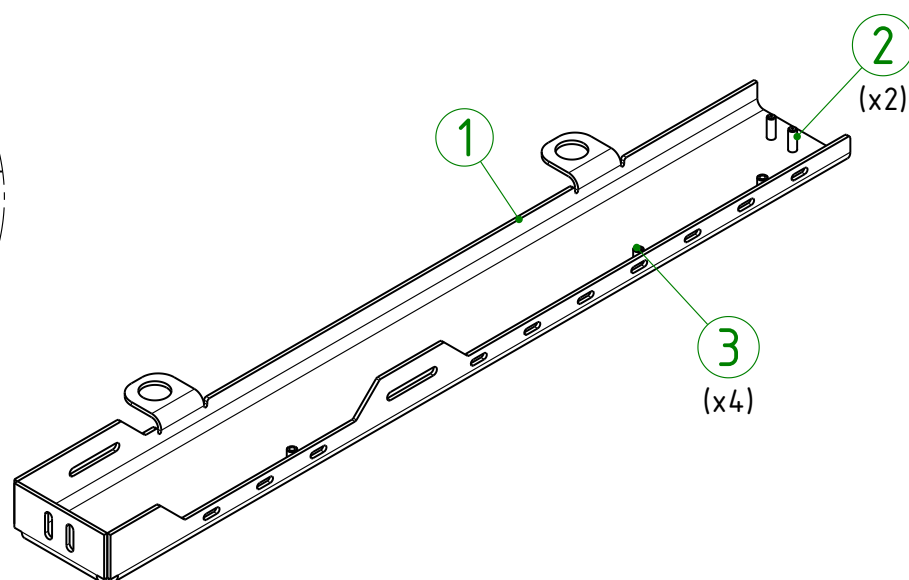
SECTION B-B

1:1



SECTION A-A

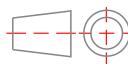
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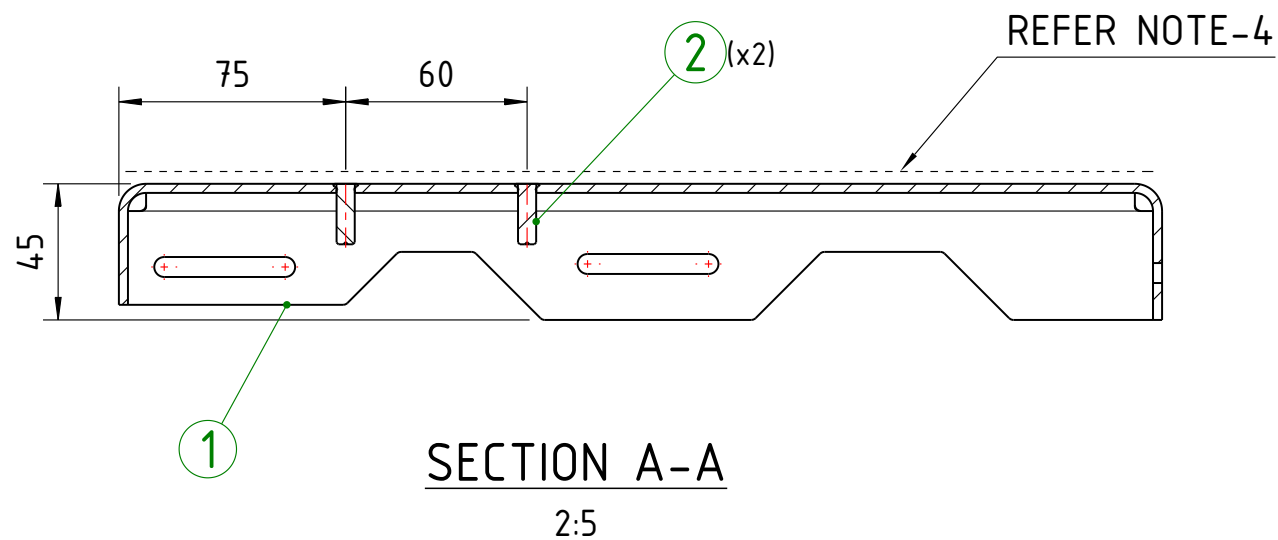
ISOMETRIC VIEW

NOTES:

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE POWDER COATED TO RAL 9016, 30% GLOSSINES / SATIN.
5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

3	4	BOLLHOFF 343 48 050 020	RIVET NUT		M5	SS	
2	2	843-20133	SELF CLINCHING STUD		M6X20	A2-70	
1	1	844-27124	PROFILE		--	EN AW-5754-H22	
SL.No.	QTY	PART / STOCK No.	DESCRIPTION		SIZE (mm)	COMPANY STD./I.S Wt. (Kg)	
						MATERIAL	
					PRODUCT	TRAIN B28	
					REF DRG	---	
					MATERIAL	EN AW-5754-H22, EN 485 / A5052-H32, ASTM B 209	
					HEAT TREAT.	---	
					SURFACE TREAT.	---	
					TITLE	PROFILE	
					CHKD	SANTOSH KUMAR	12.06.26
					DRWN	SANTOSH KUMAR	12.06.26
					SCALE		SHEET
					2:5		1 OF 1
ALT.No.	ECN No./CHANGES		DATE	BY	CHKD	APPD	DRG No.
							844-27044
						BANGALORE COMPLEX	
						ALT	
						0	

SURFACE
ROUGHNESS

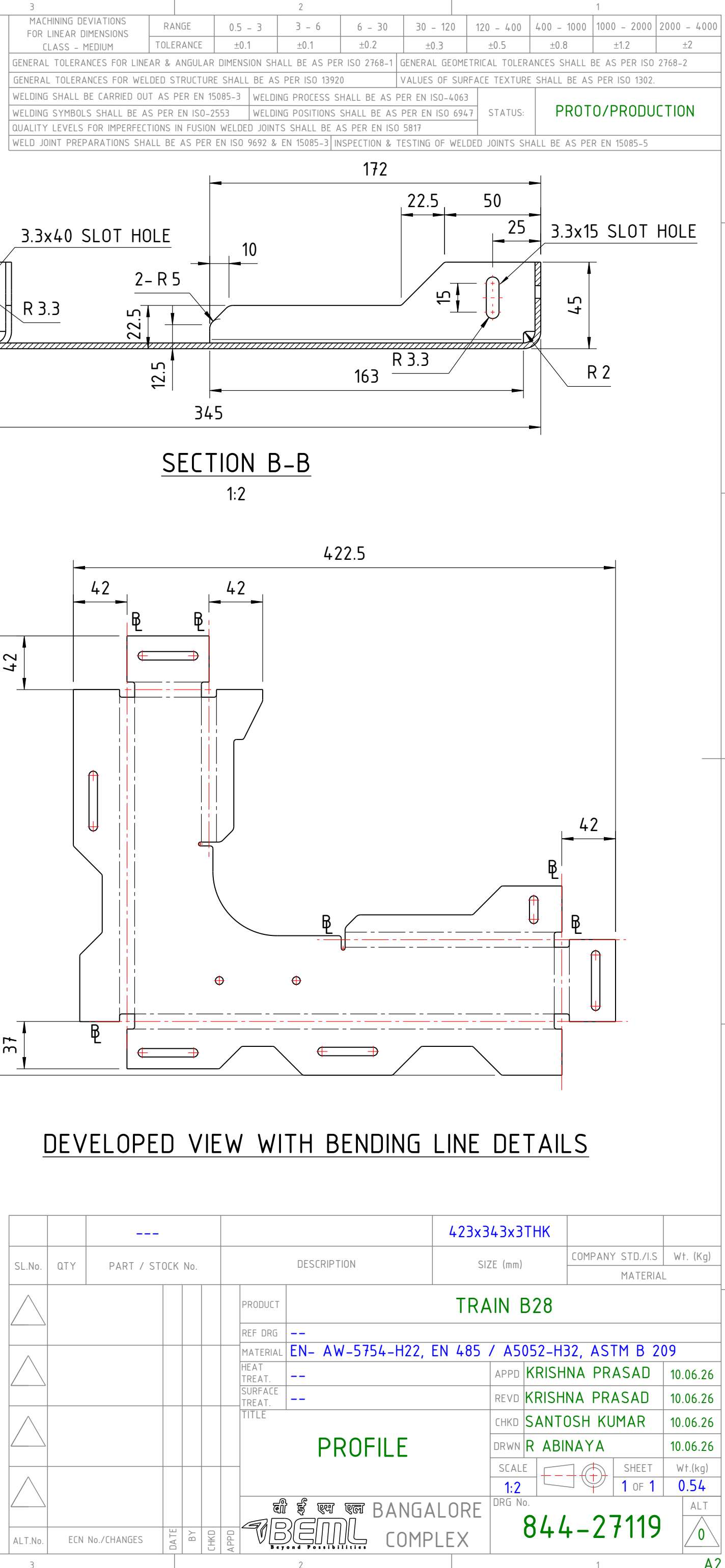
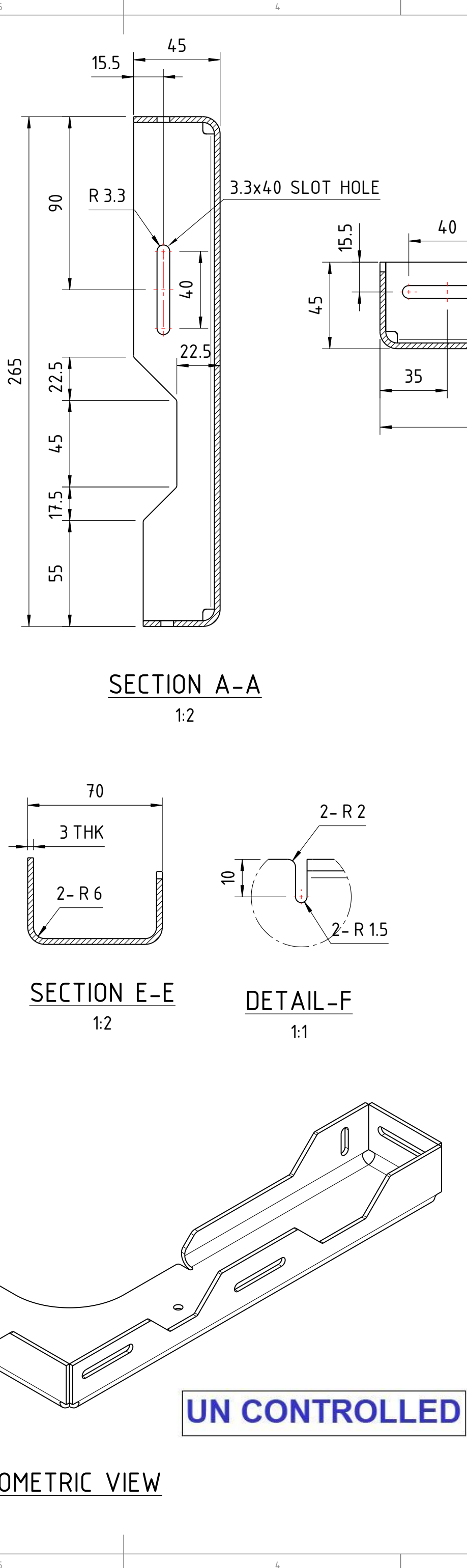
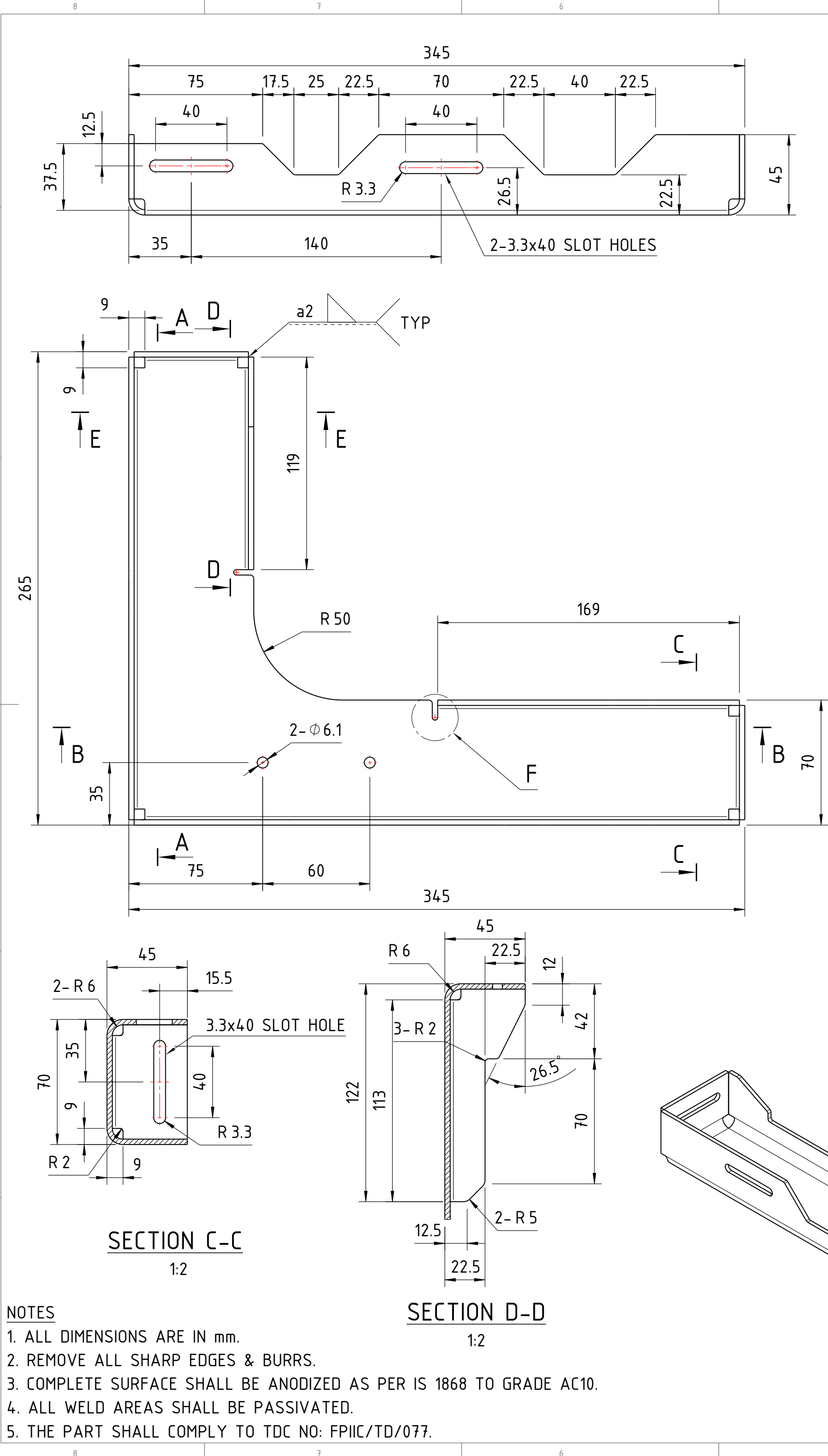


1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE POWDER COATED TO RAL 9016, 30% GLOSSINES / SATIN.
5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

[illegible]

UN CONTROLLED

The timeline shows the progression of the COVID-19 pandemic from early 2020 to early 2021. The timeline is divided into four quarters (1, 2, 3, 4) and includes a 'COVID-19' label with a green arrow pointing to the start of the pandemic in early 2020.

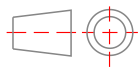


- NOTES
- ALL DIMENSIONS ARE IN mm.
 - REMOVE ALL SHARP EDGES & BURRS.
 - COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 - ALL WELD AREAS SHALL BE PASSIVATED.
 - THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

UN CONTROLLED

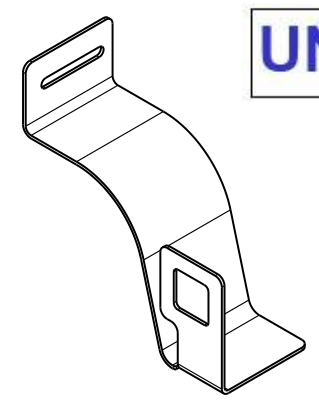
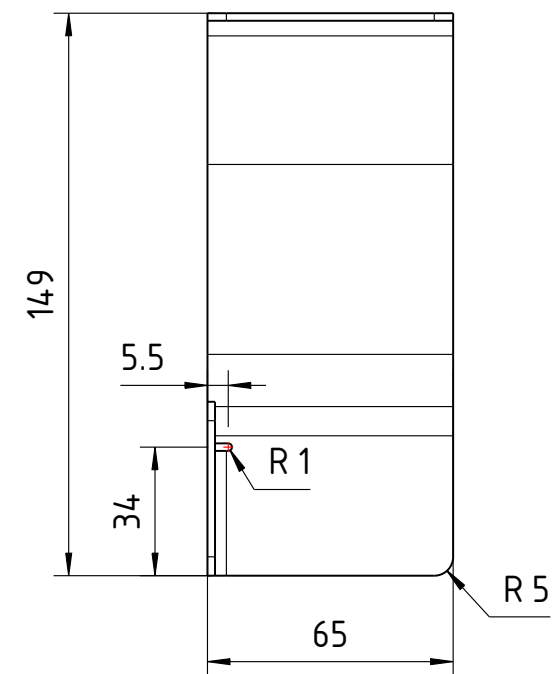
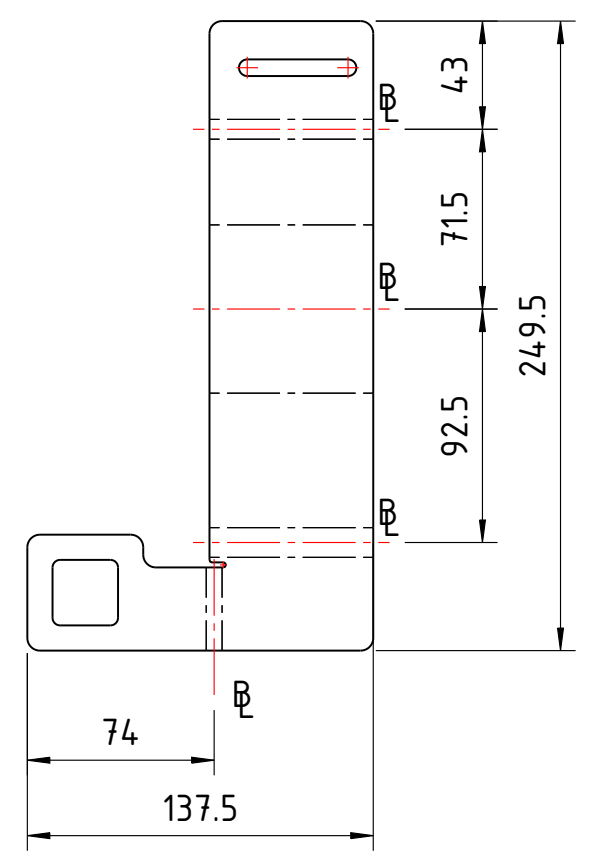
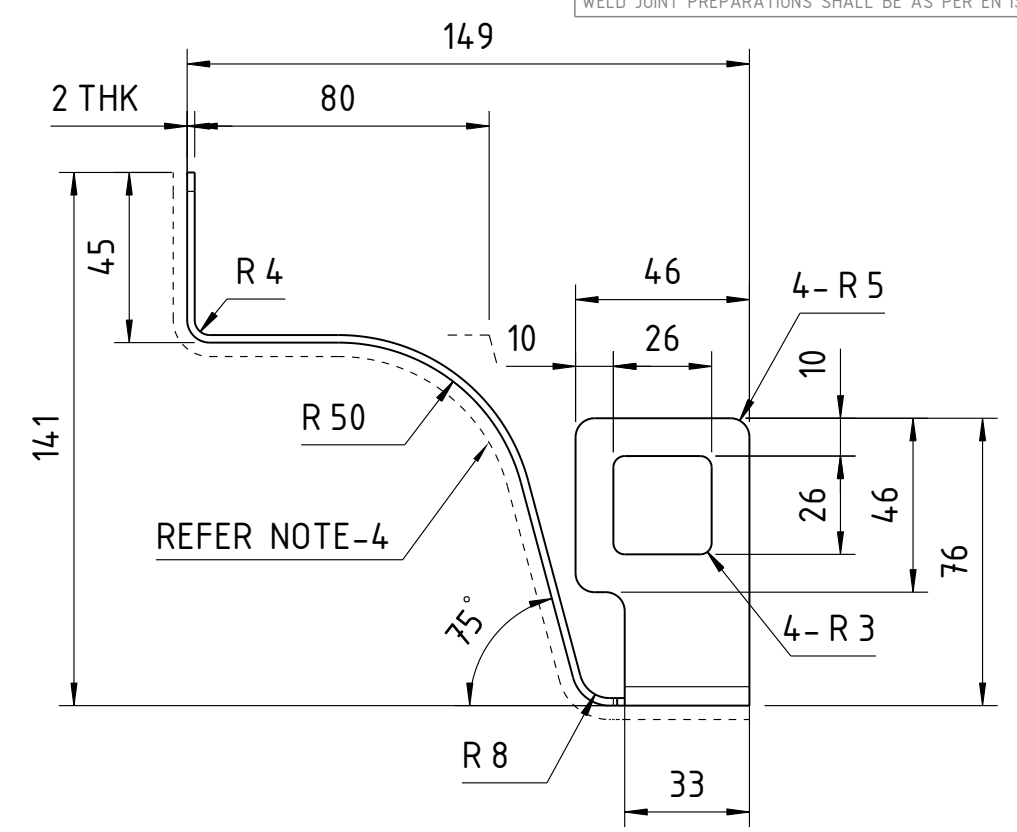
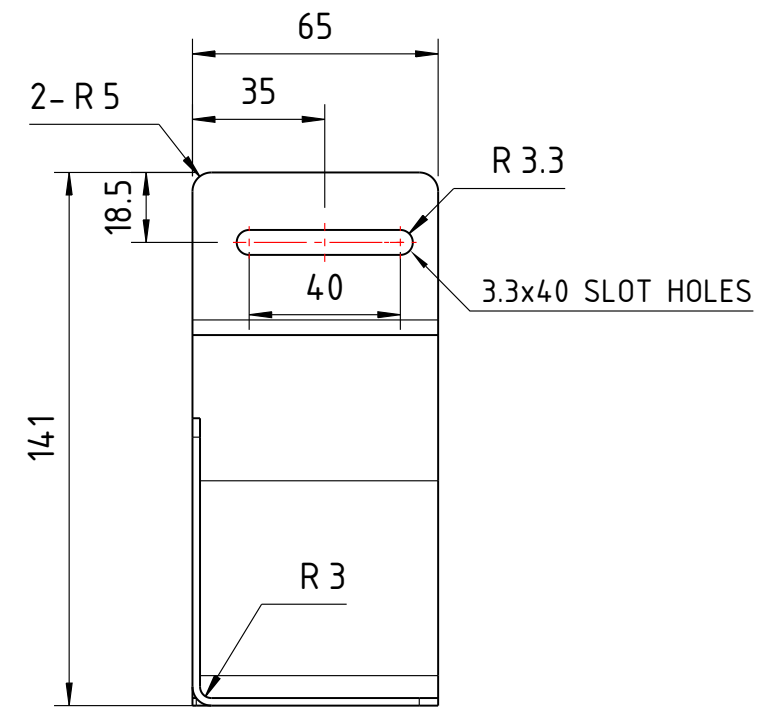
ISOMETRIC VIEW

DEVELOPED VIEW WITH BENDING LINE DETAILS

		---		423x343x3THK			
SL.No.	QTY	PART / STOCK No.		DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)
						MATERIAL	
				PRODUCT	TRAIN B28		
				REF DRG	--		
				MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209		
				HEAT TREAT.	--	APPD	KRISHNA PRASAD 10.06.26
				SURFACE TREAT.	--	REVD	KRISHNA PRASAD 10.06.26
				TITLE	CHKD	SANTOSH KUMAR	10.06.26
					DRWN	R ABINAYA	10.06.26
					SCALE		SHEET 1 OF 1
					1:2		Wt.(kg) 0.54
ALT.No.	ECN No./CHANGES		DATE	BY	CHKD	APPD	DRG No. 844-27119
						BANGALORE COMPLEX	
3				2		1	
						ALT 0	
						A	

SURFACE
ROUGHNESS

		2				1				
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0,5 – 3	3 – 6	6 – 30	30 – 120	120 – 400	400 – 1000	1000 – 2000	2000 – 4000	
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2					
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.					
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3		WELDING PROCESS SHALL BE AS PER EN ISO-4063				STATUS:		PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553		WELDING POSITIONS SHALL BE AS PER EN ISO 6947								
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817										
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3			INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5							



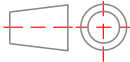
UN CONTROLLED

DEVELOPED VIEW WITH BENDING LINE DETAILS

ISOMETRIC VIEW

- NOTES:

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.
5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

							250x138x2THK					
SL.No.	QTY	PART / STOCK No.	DESCRIPTION				SIZE (mm)	COMPANY STD./I.S Wt. (Kg)				
								MATERIAL				
							PRODUCT	TRAIN B28				
							REF DRG	---				
							MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209				
							HEAT TREAT.	---	APPD	KRISHNA PRASAD	11.06.26	
							SURFACE TREAT.	---	REVD	KRISHNA PRASAD	11.06.26	
							TITLE	BRACKET	CHKD	SANTOSH KUMAR	11.06.26	
									DRWN	R ABINAYA	11.06.26	
									SCALE		SHEET	Wt.(kg)
									1:2	1 OF 1	0.1	
ALT.No.	ECN No./CHANGES		DATE	BY	CHKD	APPD	 BANGALORE COMPLEX				DRG No.	ALT
							844-27156					

5

4

3

2

1

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS
CLASS - MEDIUM

RANGE

0.5 - 3

3 - 6

6 - 30

30 - 120

120 - 400

400 - 1000

1000 - 2000

2000 - 4000

TOLERANCE

±0.1

±0.1

±0.2

±0.3

±0.5

±0.8

±1.2

±2

GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1

GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2

GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920

VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.

WELDING SHALL BE CARRIED OUT AS PER EN 15085-3

WELDING PROCESS SHALL BE AS PER EN ISO-4063

WELDING SYMBOLS SHALL BE AS PER EN ISO-2553

WELDING POSITIONS SHALL BE AS PER EN ISO 6947

QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817

STATUS: **PROTO/PRODUCTION**

WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3

INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5

1440

1

175

2

REFER NOTE-4

19

25

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SECTION A-A

1:2

ISOMETRIC VIEW

1

2

UN CONTROLLED

2	2	843-20133	SELF CLINCHING STUD	M6x20	A2-70
1	1	845-27154	PROFILE		EN AW-5754-H22

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)
					MATERIAL	
			PRODUCT	TRAIN B28		
			REF DRG	---		
			MATERIAL	ASSY		
			HEAT TREAT.		APPD	KRISHNA PRASAD 13.07.26
			SURFACE TREAT.		REVD	KRISHNA PRASAD 13.07.26
			TITLE		CHKD	SANTOSH KUMAR 13.07.26
					DRWN	SANTOSH KUMAR 13.07.26
					SCALE	1:5
					SHEET	1 OF 1
					Wt.(kg)	1.3
					DRG No.	845-27046
					ALT	0

ALT.No.

ECN No./CHANGES

DATE

BY

CHKD

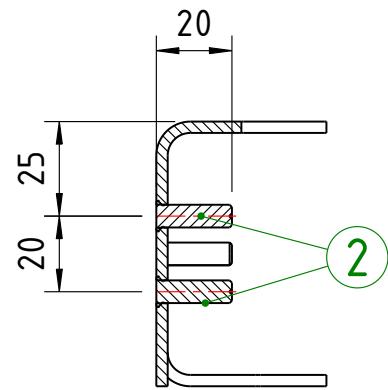
APPD

वी ई एम एल BANGALORE COMPLEX

BEML Beyond Possibilities

- NOTES:
- ALL DIMENSIONS ARE IN mm.
 - REMOVE ALL SHARP EDGES & BURRS.
 - COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 - SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.
 - SHALL COMPLY TO TDC NO. FPIIC/TD/077.

GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1		GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2	
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920		VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.	
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3	WELDING PROCESS SHALL BE AS PER EN ISO-4063	STATUS:	PROTO/PRODUCTION
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553	WELDING POSITIONS SHALL BE AS PER EN ISO 6947		
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817			
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3		INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5	

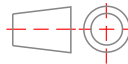


1:2



1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.
5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

2	4	843-20133	SELF CLINCHING STUD	M6x20	A2-70
1	1	845-27155	PROFILE		EN AW-5754-H22

						PRODUCT	TRAIN B28				
						REF DRG	---				
						MATERIAL	ASSY				
						HEAT TREAT.	---	APPD	KRISHNA PRASAD	13.07.26	
						SURFACE TREAT.	---	REVD	KRISHNA PRASAD	13.07.26	
						TITLE	PROFILE	CHKD	SANTOSH KUMAR	13.07.26	
								DRWN	SANTOSH KUMAR	13.07.26	
								SCALE		SHEET	Wt.(kg)
								1:5		1 OF 1	0.97
ALT.No.	ECN No./CHANGES	DATE	BY	CHKO	APPD	 BANGALORE COMPLEX			DRG No.	845-27047	ALT
											

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2

1

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM

RANGE

0.5 - 3

3 - 6

6 - 30

30 - 120

120 - 400

400 - 1000

1000 - 2000

2000 - 4000

TOLERANCE

±0.1

±0.1

±0.2

±0.3

±0.5

±0.8

±1.2

±2

GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1

GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2

GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920

VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.

WELDING SHALL BE CARRIED OUT AS PER EN 15085-3

WELDING PROCESS SHALL BE AS PER EN ISO-4063

WELDING SYMBOLS SHALL BE AS PER EN ISO-2553

WELDING POSITIONS SHALL BE AS PER EN ISO 6947

QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817

STATUS: **PROTO/PRODUCTION**

WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3

INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5

1110

1

REFER NOTE-4

2

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3

90

19

390.5

116

324

116

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B

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UN CONTROLLED

ISOMETRIC VIEW

SECTION A-A

1:2

SECTION B-B

1:2

3

4

BOLLHOFF 343
48 050 020

RIVET NUT

M5

SS

2

2

843-20133

SELF CLINCHING

M6x20

A2-70

1

1

845-27156

PROFILE

EN AW-5754-H22

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)			
					MATERIAL				
△			PRODUCT	TRAIN B28					
△			REF DRG	---					
△			MATERIAL	ASSY					
△			HEAT TREAT.	APPD	KRISHNA PRASAD	13.07.26			
△			SURFACE TREAT.	REVD	KRISHNA PRASAD	13.07.26			
△			TITLE	CHKD	SANTOSH KUMAR	13.07.26			
△				DRWN	SANTOSH KUMAR	13.07.26			
△				SCALE	1:5	SHEET	Wt.(kg)		
					1 OF 1	1.25			
ALT.No.	ECN No./CHANGES	DATE	BY	CHKD	APPD	DRG No.	845-27048		ALT
							0		

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BANGALORE

COMPLEX

BEML

Beyond Possibilities

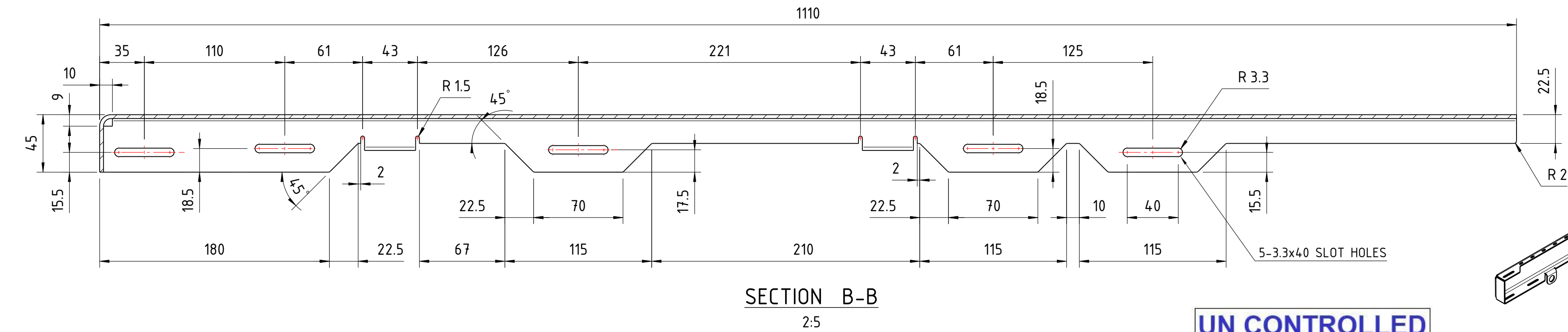
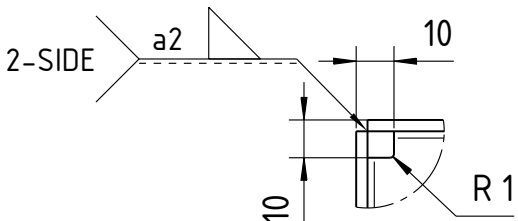
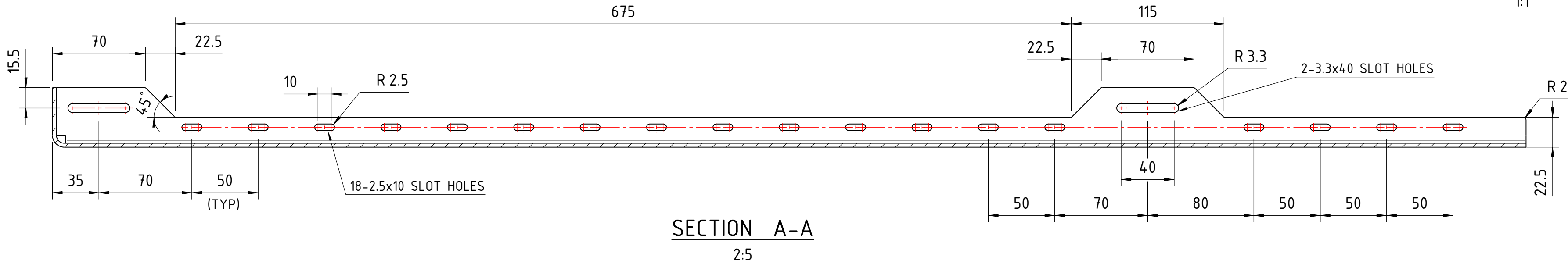
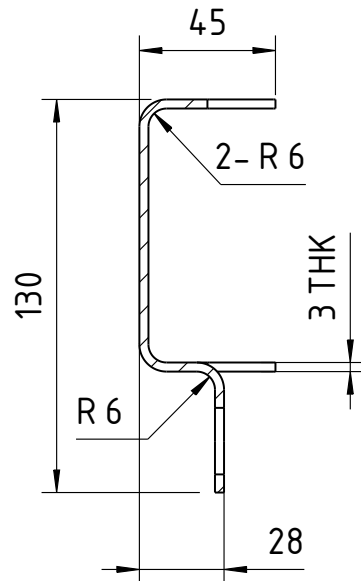
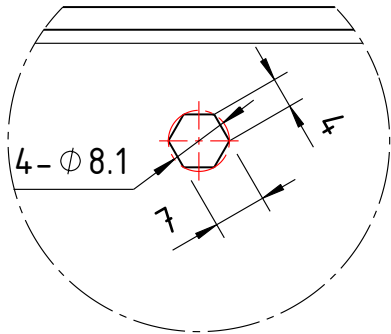
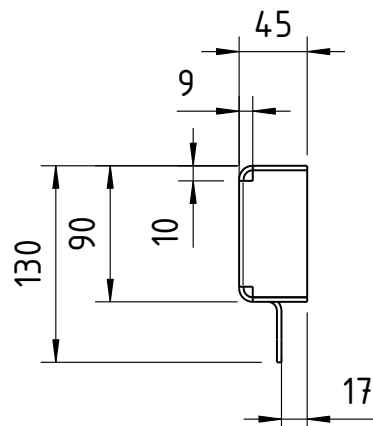
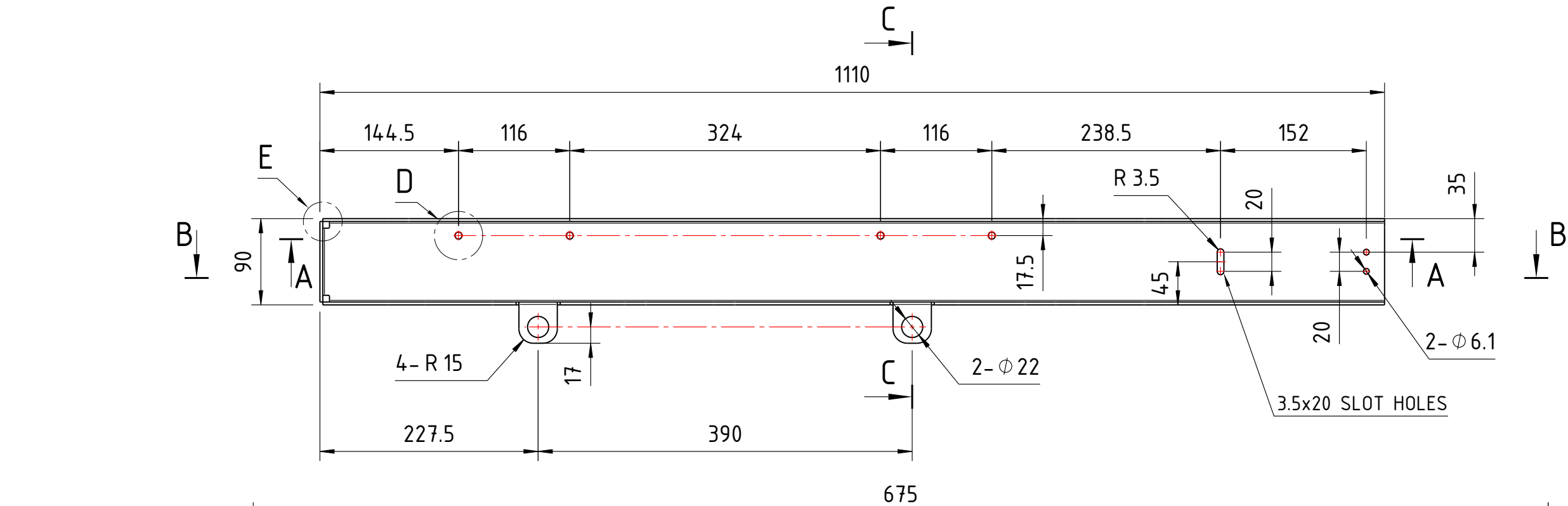
NOTES:

- ALL DIMENSIONS ARE IN mm.
- REMOVE ALL SHARP EDGES & BURRS.
- COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
- SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.
- SHALL COMPLY TO TDC NO. FPIIC/TD/077.

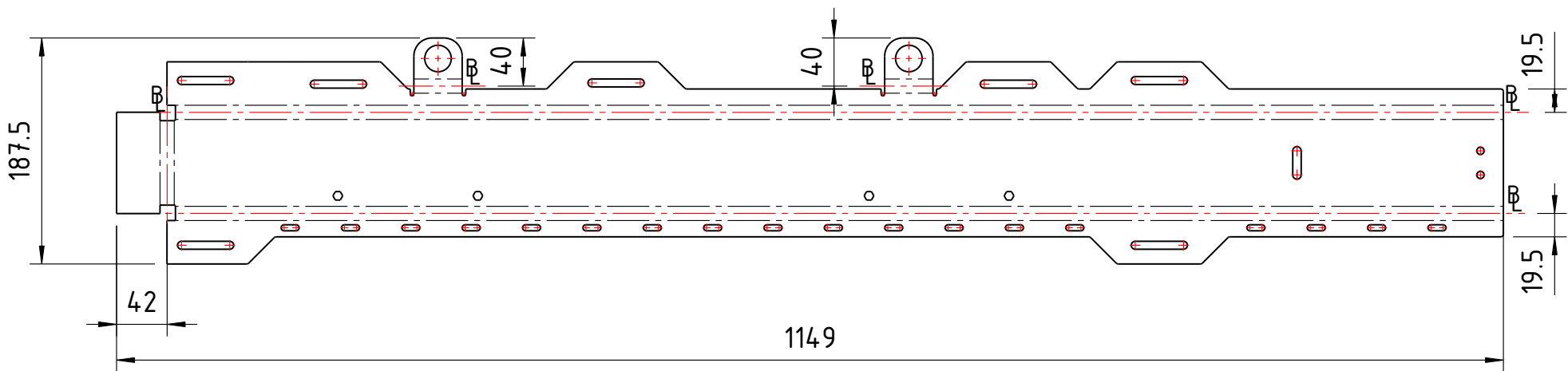
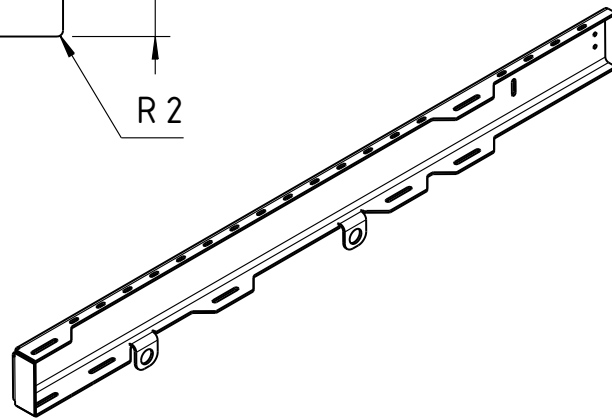
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GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12
VALUE	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
SYMBOL												
SURFACE ROUGHNESS												

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-6063			STATUS:	PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3						INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5			



DETAIL-E
1:2



- NOTES
1. ALL DIMENSIONS ARE IN mm.
 2. REMOVE ALL SHARP EDGES & BURRS.
 3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 4. ALL WELD AREAS SHALL BE PASSIVATED.
 5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

DEVELOPED VIEW WITH BENDING LINE DETAILS

UN CONTROLLED

---		1149x188X3THK			
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S
			PRODUCT	TRAIN B28	
			REF DRG	---	
			MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209	
			HEAT TREAT.	APPD	KRISHNA PRASAD 10.07.26
			SURFACE TREAT.	REVD	KRISHNA PRASAD 10.07.26
			TITLE	CHKD	SANTOSH KUMAR 10.07.26
				DRWN	SANTOSH KUMAR 10.07.26
				SCALE	1:5
ALT.No.	ECN No./CHANGES	DATE	BY	CRKD	APPD
BANGALORE COMPLEX		845-27156		ALT 0	

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3

2

1

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS
CLASS - MEDIUM

RANGE

0.5 - 3

3 - 6

6 - 30

30 - 120

120 - 400

400 - 1000

1000 - 2000

2000 - 4000

TOLERANCE

±0.1

±0.1

±0.2

±0.3

±0.5

±0.8

±1.2

±2

GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1

GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2

GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920

VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.

WELDING SHALL BE CARRIED OUT AS PER EN 15085-3

WELDING PROCESS SHALL BE AS PER EN ISO-4063

WELDING SYMBOLS SHALL BE AS PER EN ISO-2553

WELDING POSITIONS SHALL BE AS PER EN ISO 6947

QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817

STATUS: **PROTO/PRODUCTION**

WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3

INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5

1005

70

19

967

102.5

1

2

REFER NOTE-4

A

B

SECTION A-A

1:2

SECTION B-B

1:2

ISOMETRIC VIEW

1

2

NOTES:

1. ALL DIMENSIONS ARE IN mm.

2. REMOVE ALL SHARP EDGES & BURRS.

3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.

4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.

5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

UN CONTROLLED

2	4	843-20133	SELF CLINCHING STUD	M6x20	A2-70
1	1	845-27157	PROFILE		EN AW-5754-H22

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)
					MATERIAL	
			PRODUCT	TRAIN B28		
			REF DRG	---		
			MATERIAL	ASSY		
			HEAT TREAT.		APPD	KRISHNA PRASAD 13.07.26
			SURFACE TREAT.		REVD	KRISHNA PRASAD 13.07.26
			TITLE		CHKD	SANTOSH KUMAR 13.07.26
					DRWN	SANTOSH KUMAR 13.07.26
					SCALE	1:5
					SHEET	1 OF 1
					Wt.(kg)	1.03
					DRG No.	845-27049
					ALT	0

PROFILE

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BEML

Beyond Possibilities

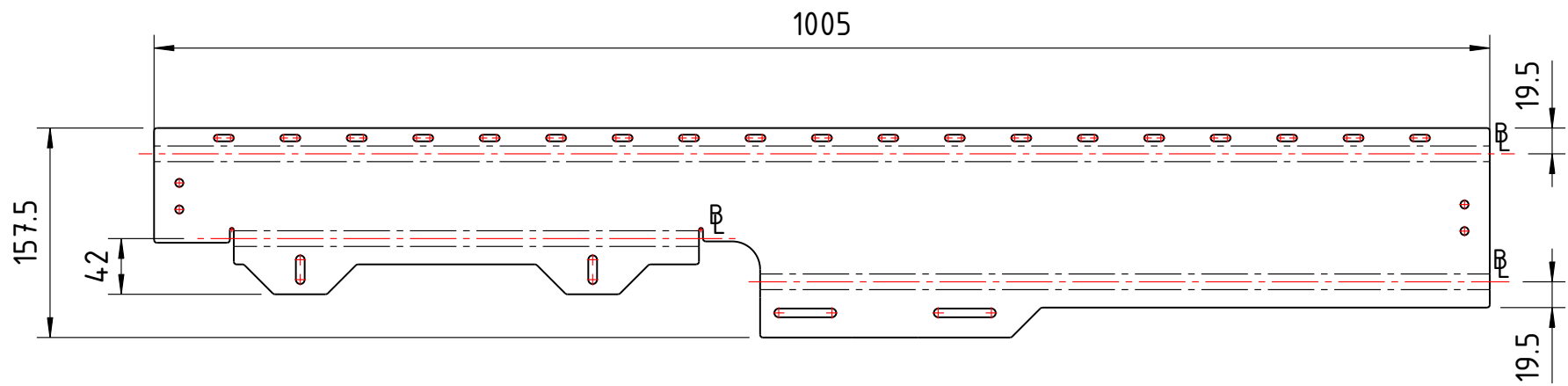
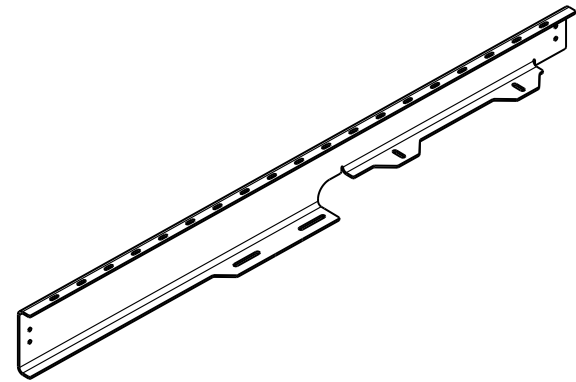
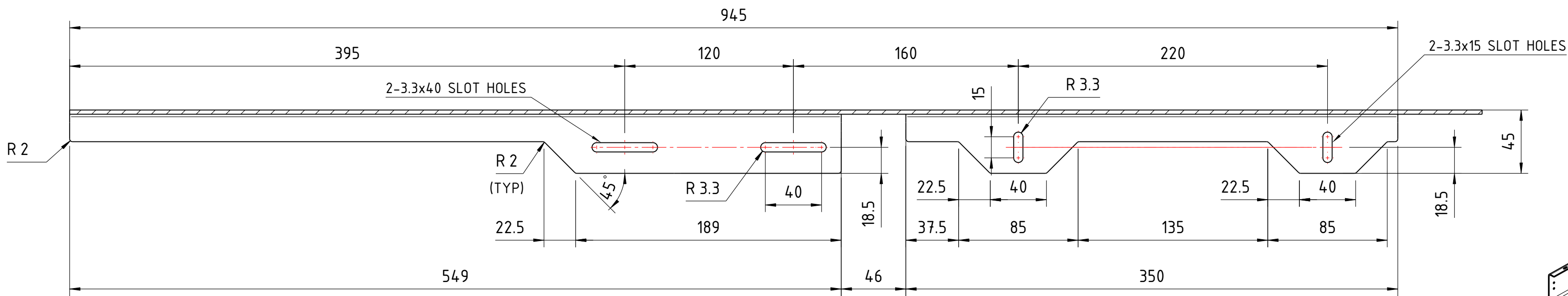
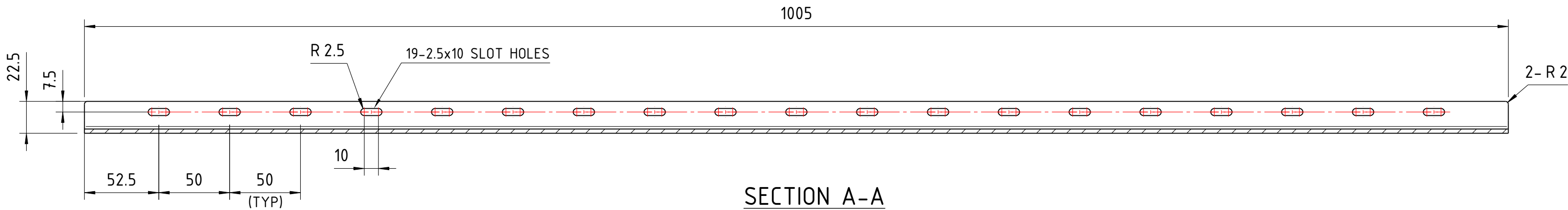
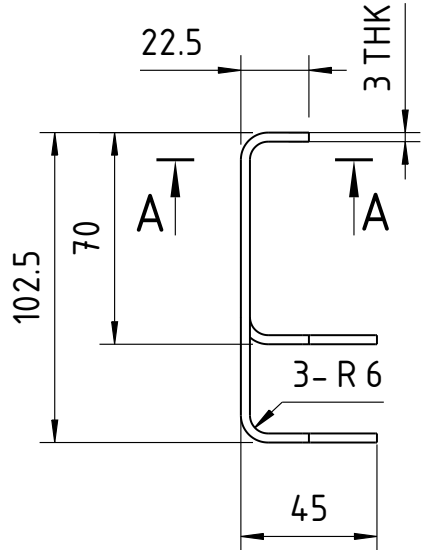
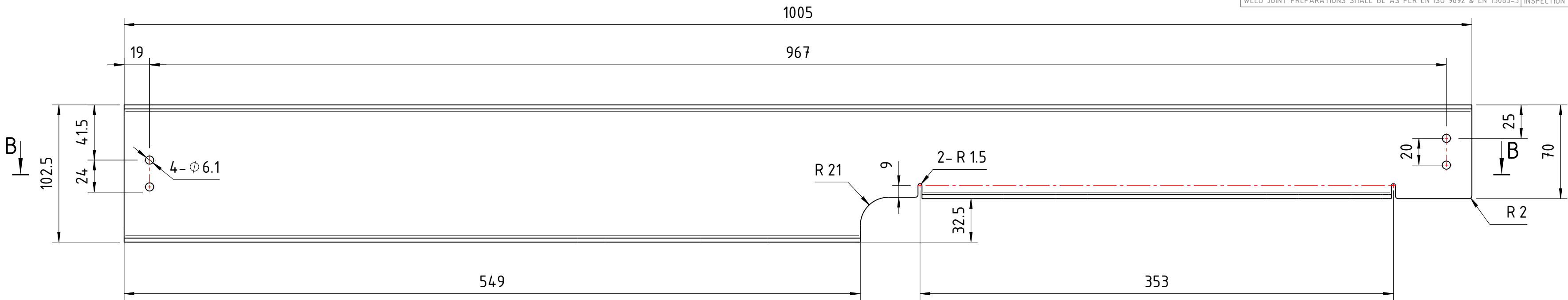
BANGALORE COMPLEX

A3

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

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-6063			STATUS:		PROTO/PRODUCTION	
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3					INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5				



NOTES

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

DEVELOPED VIEW WITH BENDING LINE DETAILS

UN CONTROLLED

ISOMETRIC VIEW

		---		1005x158x3THK			
SL.No.	QTY	PART / STOCK No.		DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)
				PRODUCT	TRAIN B28		
				REF DRG	--		
				MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209		
				HEAT TREAT.	--	APPD KRISHNA PRASAD	10.07.26
				SURFACE TREAT.	--	REVD KRISHNA PRASAD	10.07.26
				TITLE	PROFILE		
				DRWN	SANTOSH KUMAR	CHKD SANTOSH KUMAR	10.07.26
				SCALE	1:5	SHEET 1 OF 1	Wt.(kg) 1.01
ALT.No.	ECN No./CHANGES	DATE	BY	CHKD	APPD	DRG No. 845-27157	
BANGALORE COMPLEX						ALT	0

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		~	△			△			△		△	△	△

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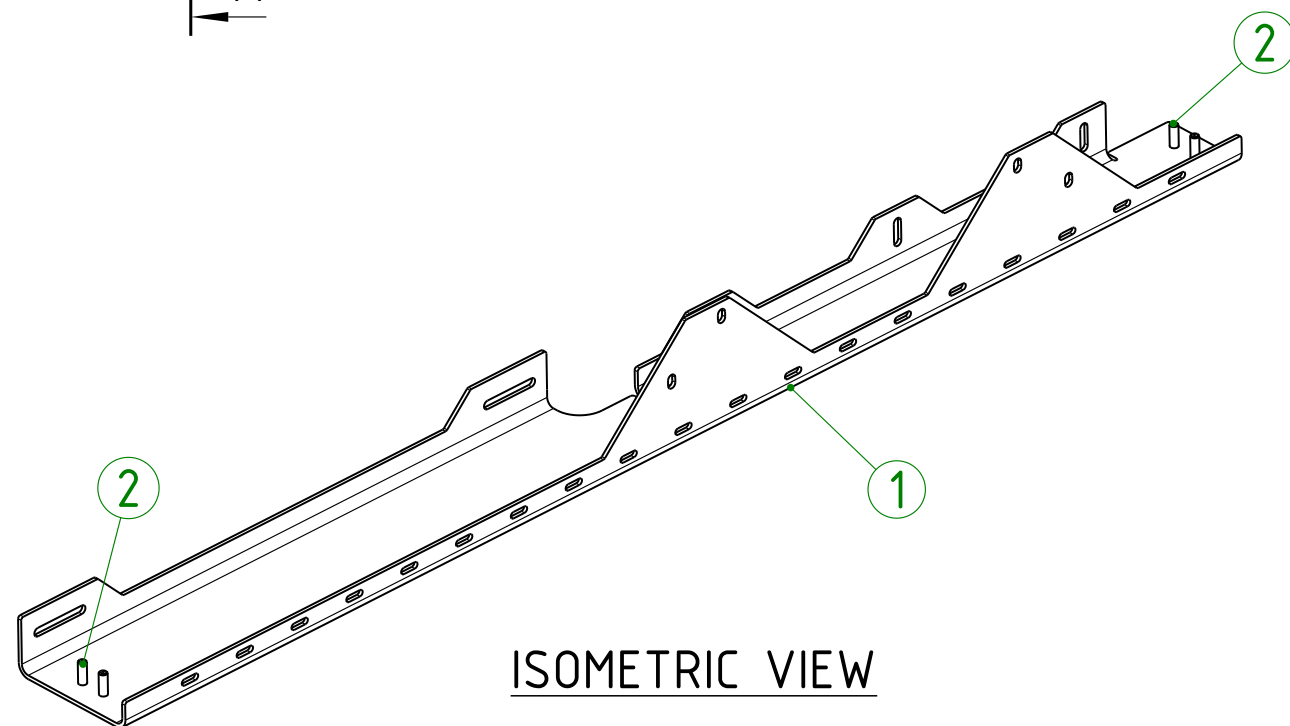
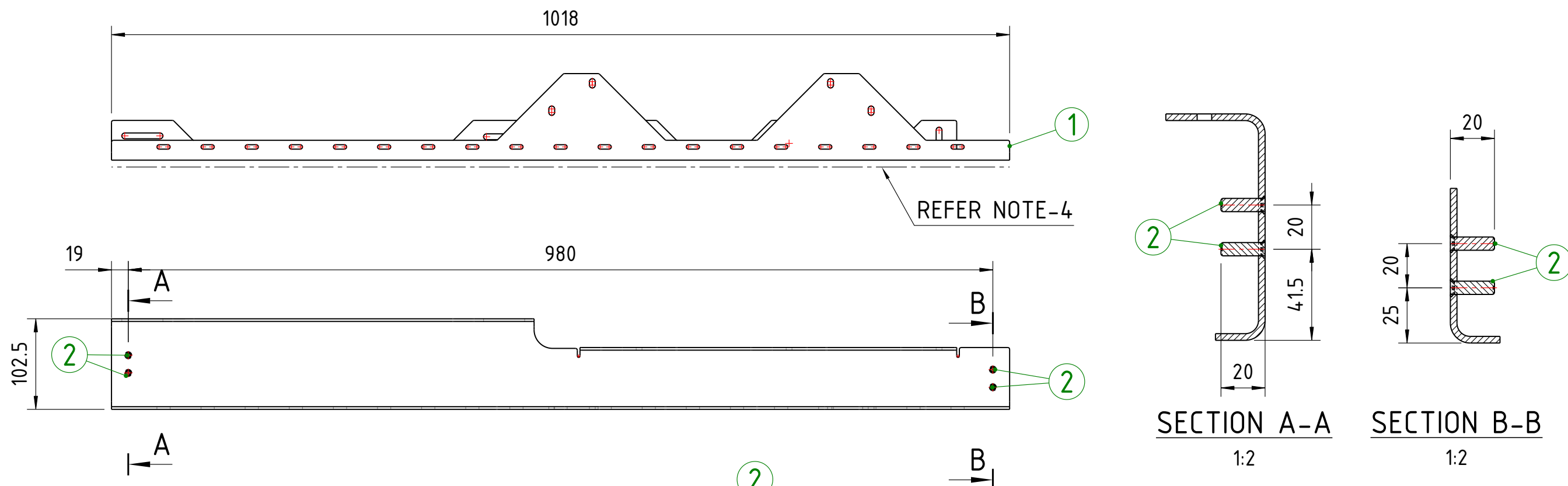
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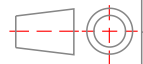
		2				1				
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 – 3	3 – 6	6 – 30	30 – 120	120 – 400	400 – 1000	1000 – 2000	2000 – 4000	
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2					
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.					
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3		WELDING PROCESS SHALL BE AS PER EN ISO-4063				STATUS:	PROTO/PRODUCTION			
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553		WELDING POSITIONS SHALL BE AS PER EN ISO 6947								
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817										
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5						



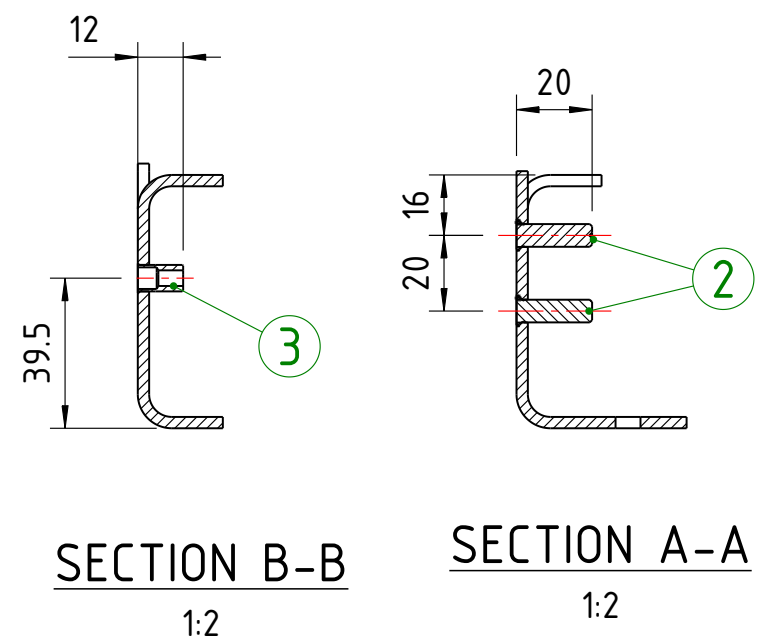
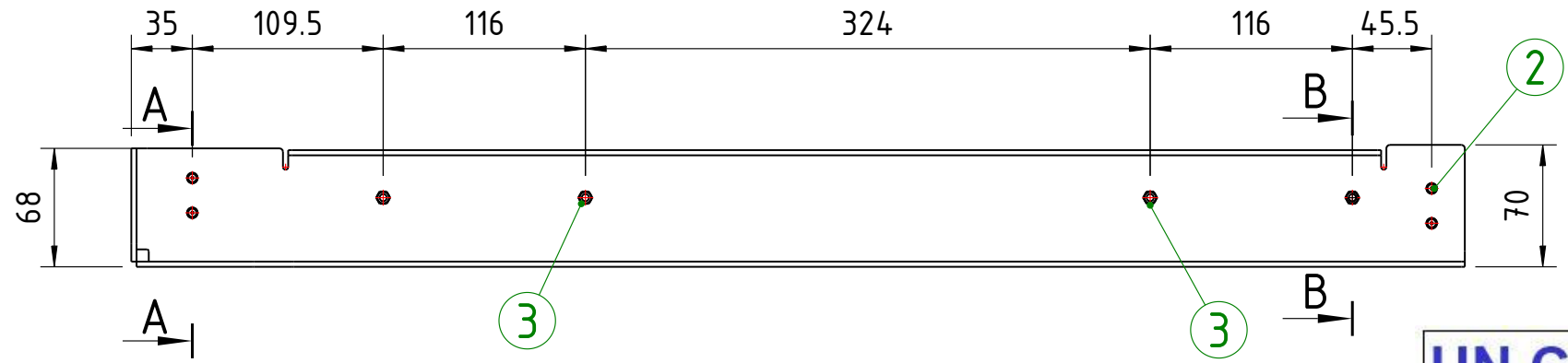
NOTES:

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.
5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

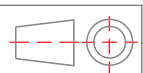
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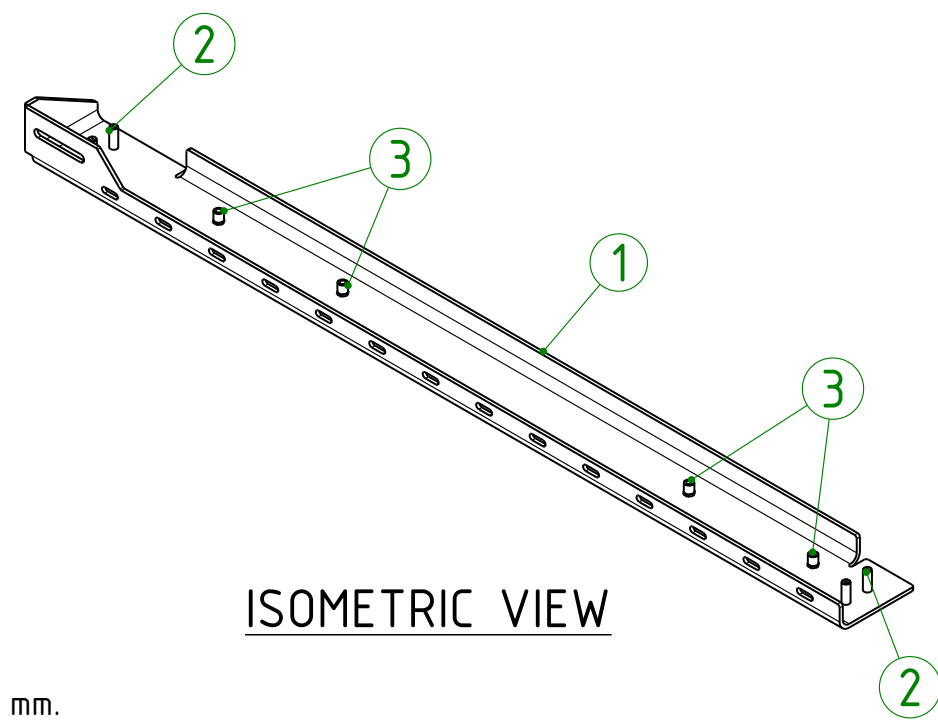
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1	1	845-27158	PROFILE		EN AW-5754-H22
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S Wt. (Kg)
					MATERIAL
			PRODUCT	TRAIN B28	
			REF DRG	---	
			MATERIAL	ASSY	
			HEAT TREAT.	---	
			SURFACE TREAT.	---	
			TITLE		
				APPD	KRISHNA PRASAD 13.07.26
				REVD	KRISHNA PRASAD 13.07.26
				CHKD	SANTOSH KUMAR 13.07.26
				DRWN	SANTOSH KUMAR 13.07.26
				SCALE	
				1:5	 SHEET 1 OF 1 Wt.(kg) 1.16
ALT.No.	ECN No./CHANGES	DATE	BY	CHKD	APPD
					
			BANGALORE COMPLEX		
			DRG No. 845-27050		
			ALT 0		

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:	PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



UN CONTROLLED

3	4	BOLLHOFF 343 48 050 020	RIVET NUT				M5		SS		
2	4	843-20133	SELF CLINCHING STUD				M6x20		A2-70		
1	1	845-27159	PROFILE						EN AW-5754-H22		
SL.No.	QTY	PART / STOCK No.	DESCRIPTION				SIZE (mm)		COMPANY STD./I.S Wt. (Kg)		
									MATERIAL		
						PRODUCT	TRAIN B28				
						REF DRG	---				
						MATERIAL	ASSY				
						HEAT TREAT.	---	APPD	KRISHNA PRASAD	13.07.26	
						SURFACE TREAT.	---	REVD	KRISHNA PRASAD	13.07.26	
						TITLE	PROFILE	CHKD	SANTOSH KUMAR	13.07.26	
								DRWN	SANTOSH KUMAR	13.07.26	
								SCALE		SHEET	Wt.(kg)
								1:4	1 OF 1	0.64	
ALT.No.	ECN No./CHANGES		DATE	BY	CHKO	APPD	DRG No.		ALT		
							845-27051				
						BANGALORE COMPLEX					
											



NOTES:

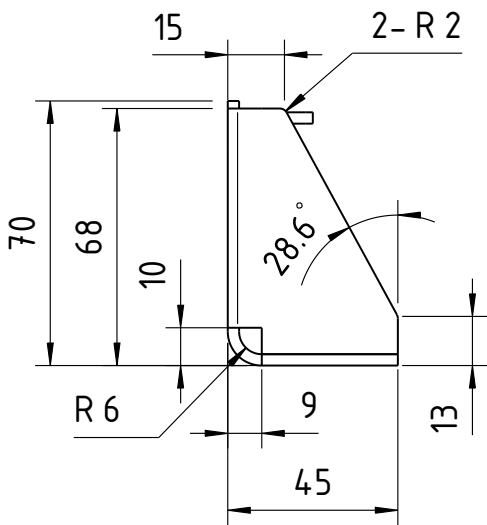
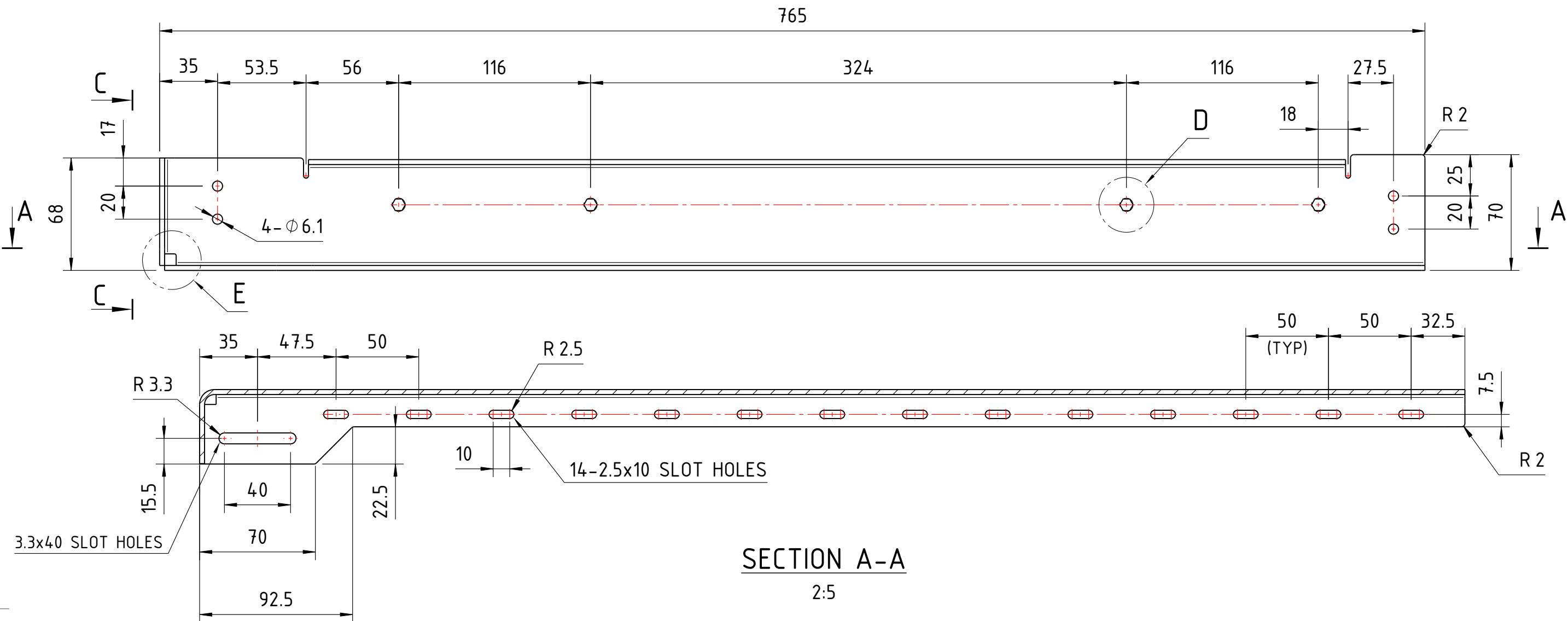
1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.
5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

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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												

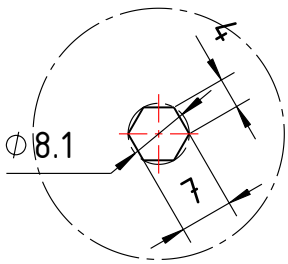
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3		2					1				
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM		RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000	
		TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1						GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2					
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920						VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.					
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3				WELDING PROCESS SHALL BE AS PER EN ISO-6063			STATUS:	PROTO/PRODUCTION			
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553				WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817											
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3											
INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5											



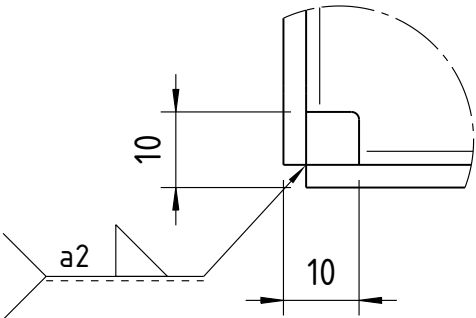
SECTION C-C

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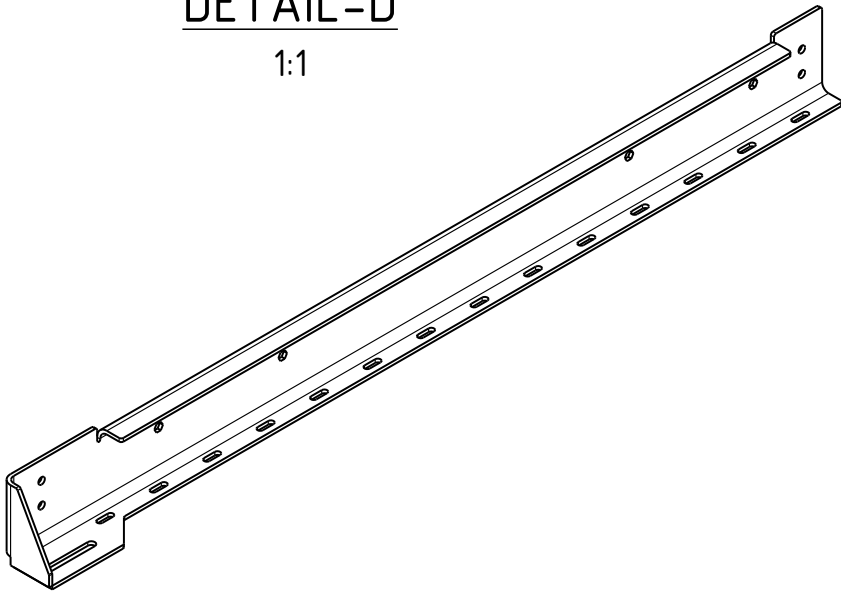
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1:1

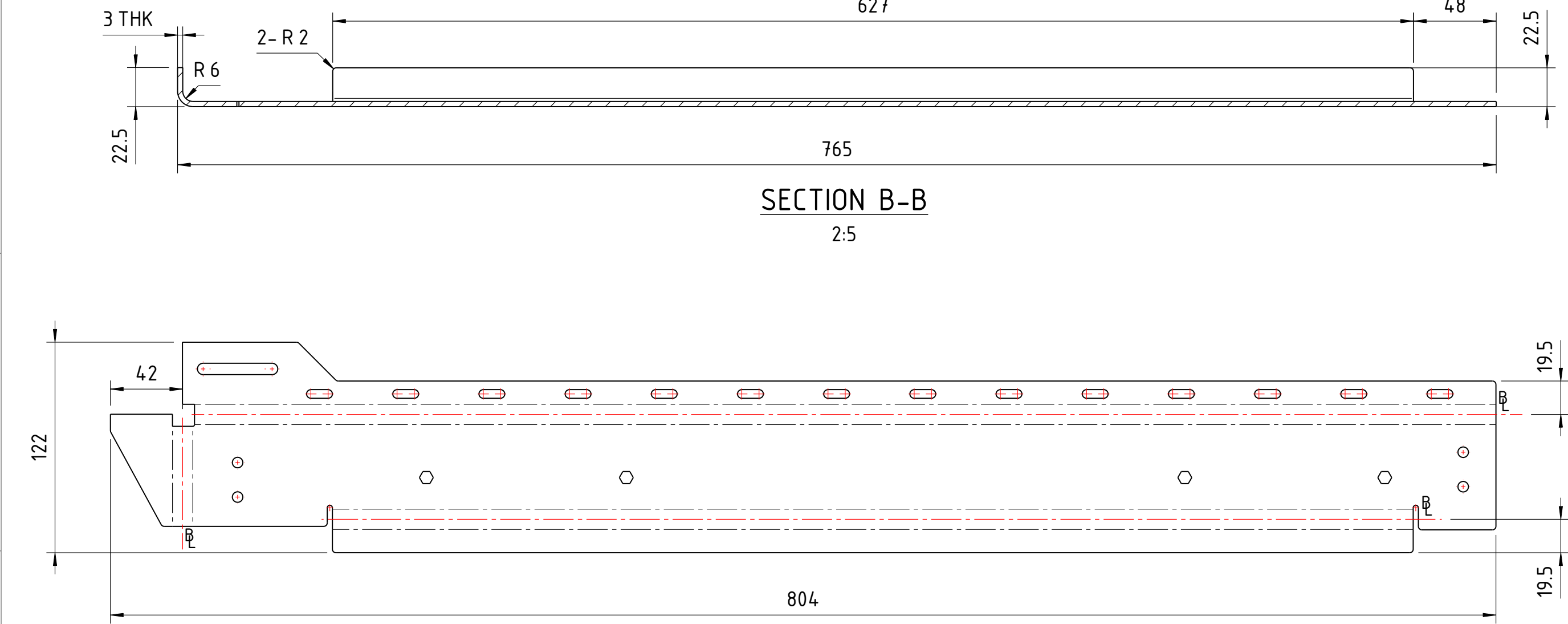


DETAIL-E

1:1



ISOMETRIC VIEW



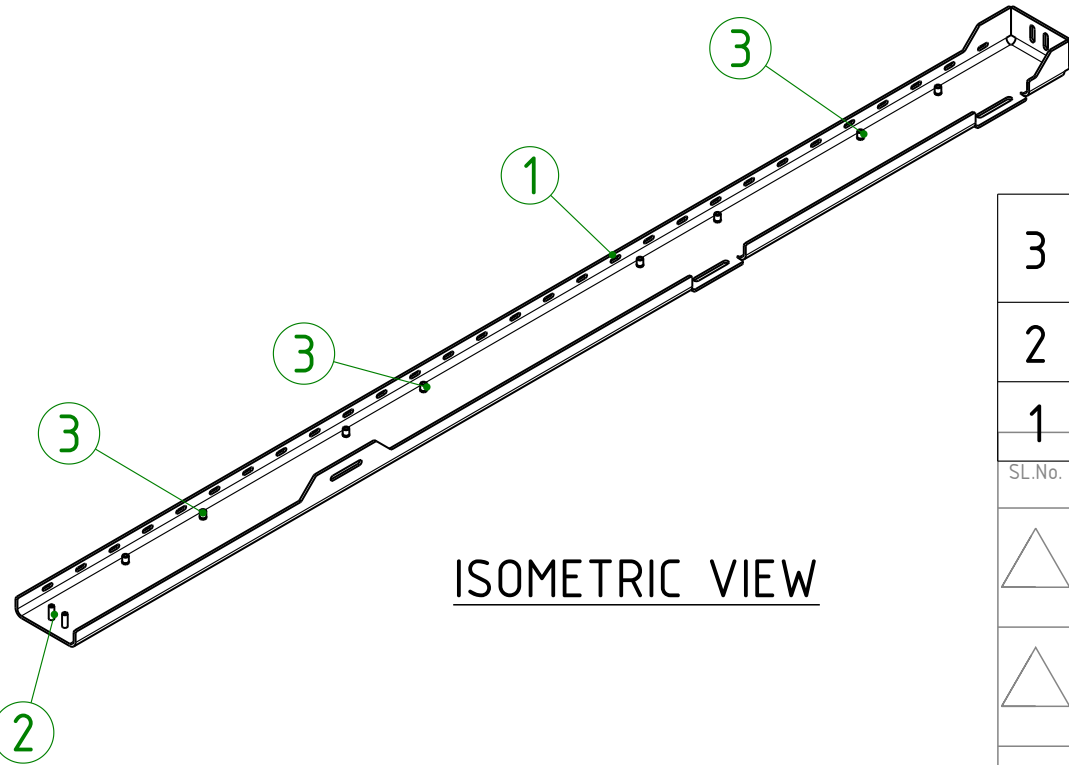
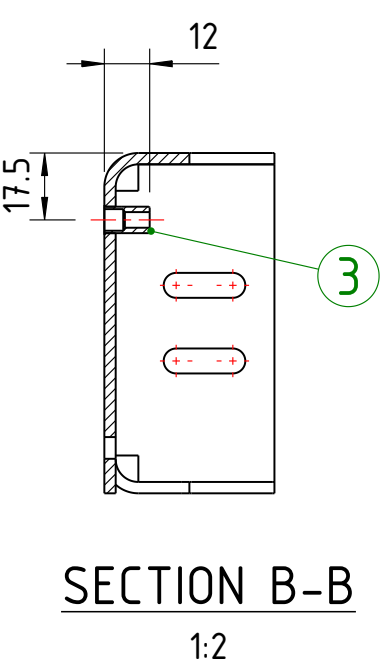
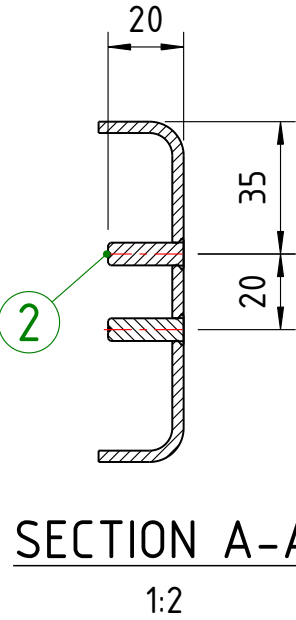
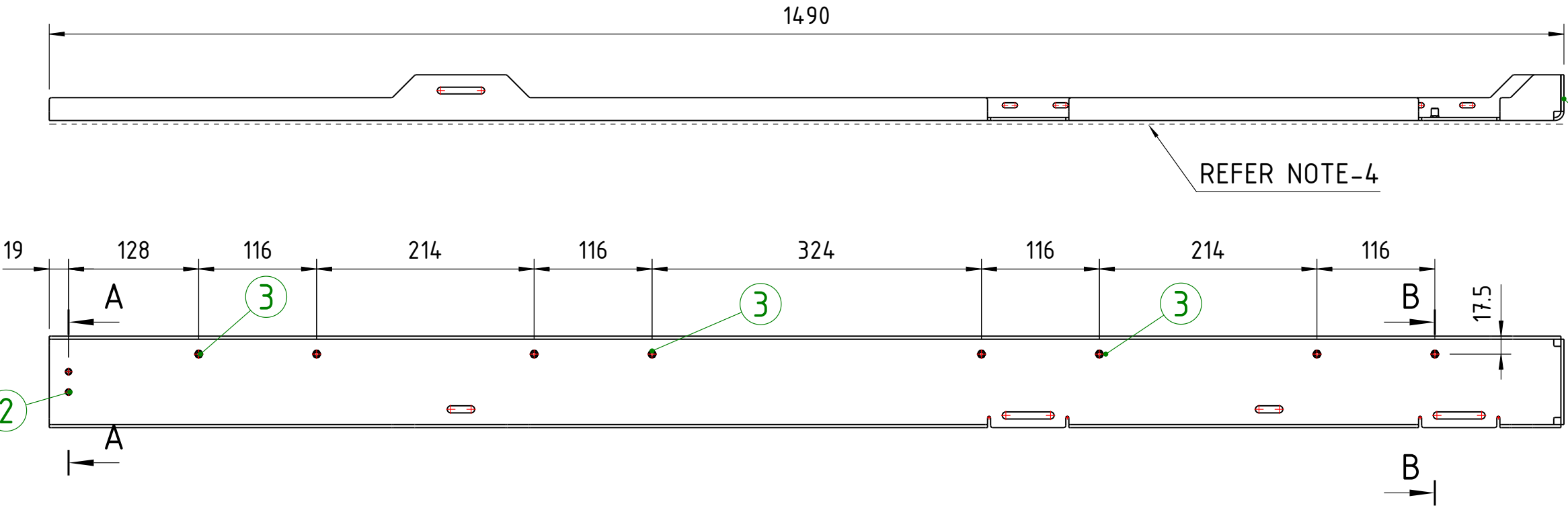
NOTES

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. ALL WELD AREAS SHALL BE PASSIVATED.
5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

DEVELOPED VIEW WITH BENDING LINE DETAILS

---		804x122x3THK			
SL.No.	QTY	PART / STOCK No.		DESCRIPTION	SIZE (mm)
				COMPANY STD./I.S	Wt. (Kg)
				MATERIAL	
				PRODUCT	
				REF DRG	
				MATERIAL	
				HEAT TREAT.	
				SURFACE TREAT.	
				TITLE	
				SCALE	
				SHEET	
				DRG No.	
				ALT	
				0	

		2				1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:	PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



UN CONTROLLED

- NOTES:
- ALL DIMENSIONS ARE IN mm.
 - REMOVE ALL SHARP EDGES & BURRS.
 - COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 - SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.
 - SHALL COMPLY TO TDC NO. FPIIC/TD/077.

3	8	BOLLHOFF 343 48 050 020	RIVET NUT	M5	SS
2	2	843-20133	SELF CLINCHING STUD	M6x20	A2-70
1	1	845-27162	PROFILE		EN AW-5754-H22
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	MATERIAL
△			PRODUCT	TRAIN B28	
△			REF DRG	---	
△			MATERIAL	ASSY	
△			HEAT TREAT.	APPD	KRISHNA PRASAD 13.07.26
△			SURFACE TREAT.	REVD	KRISHNA PRASAD 13.07.26
△			TITLE	CHKD	SANTOSH KUMAR 13.07.26
△			PROFILE	DRWN	SANTOSH KUMAR 13.07.26
△				SCALE	1:5
△				SHEET	1 OF 1
ALT.No.	ECN No./CHANGES	DATE	BY	CHKD	APPD
			BANGALORE COMPLEX		ALT
			845-27052		0

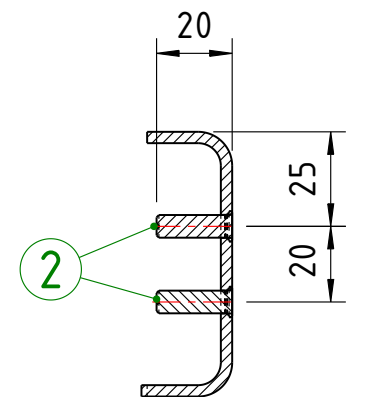
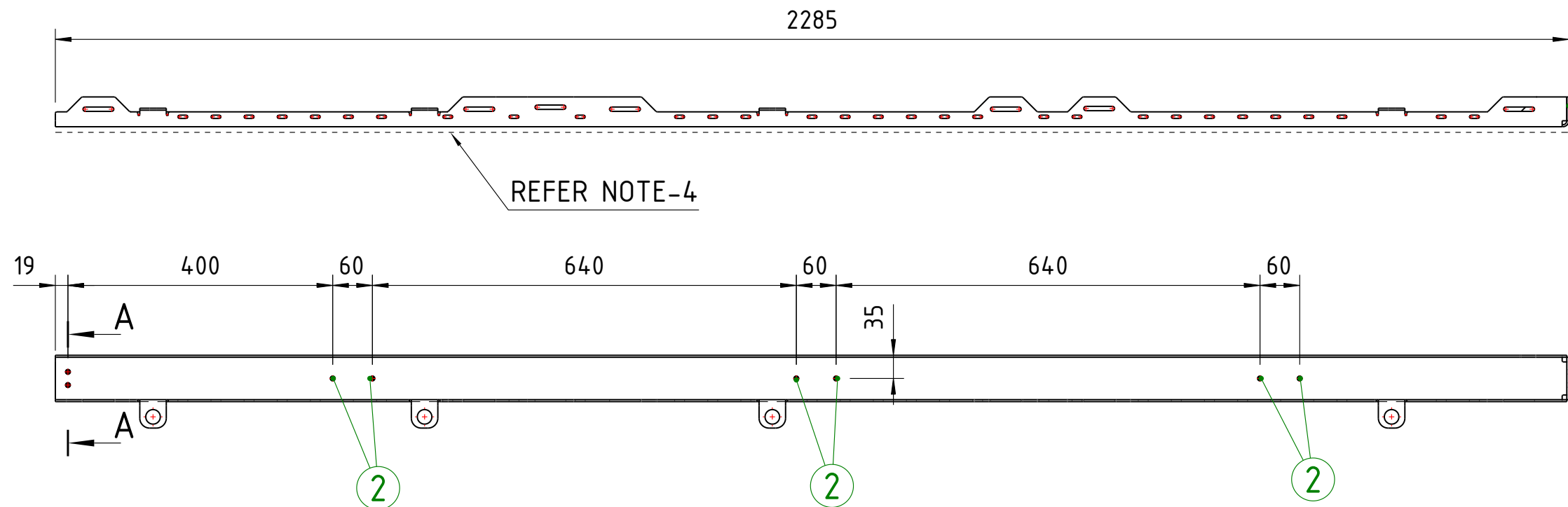
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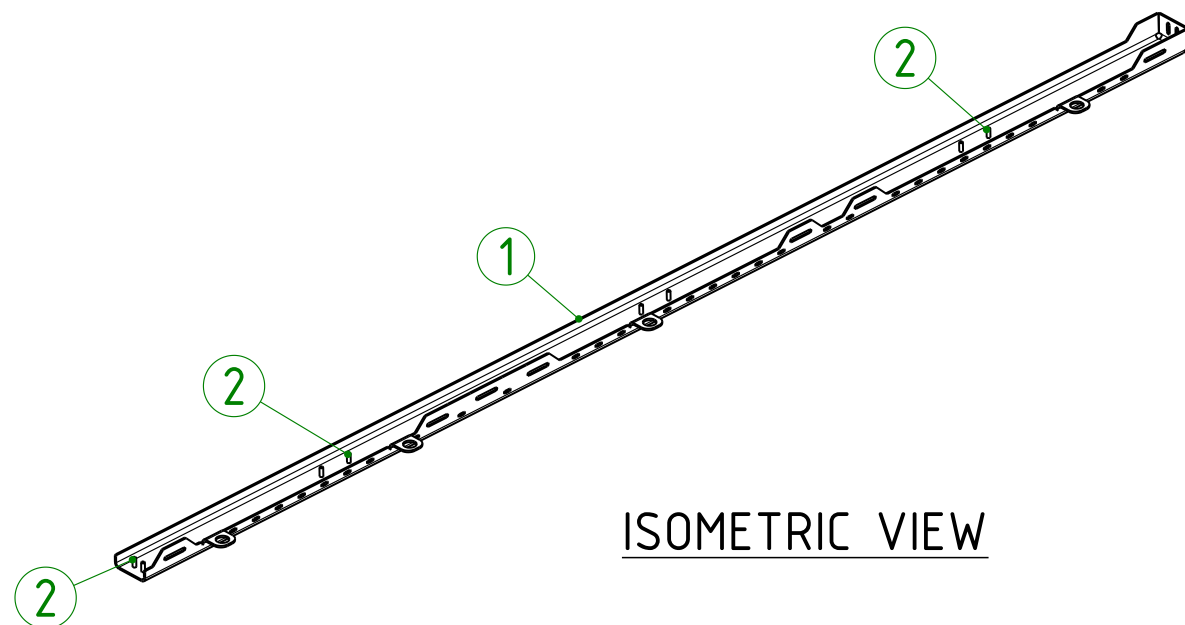
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		2				1				
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM		RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
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WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:		PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817										
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5						



SECTION A-A

1:2



ISOMETRIC VIEW

UN CONTROLLED

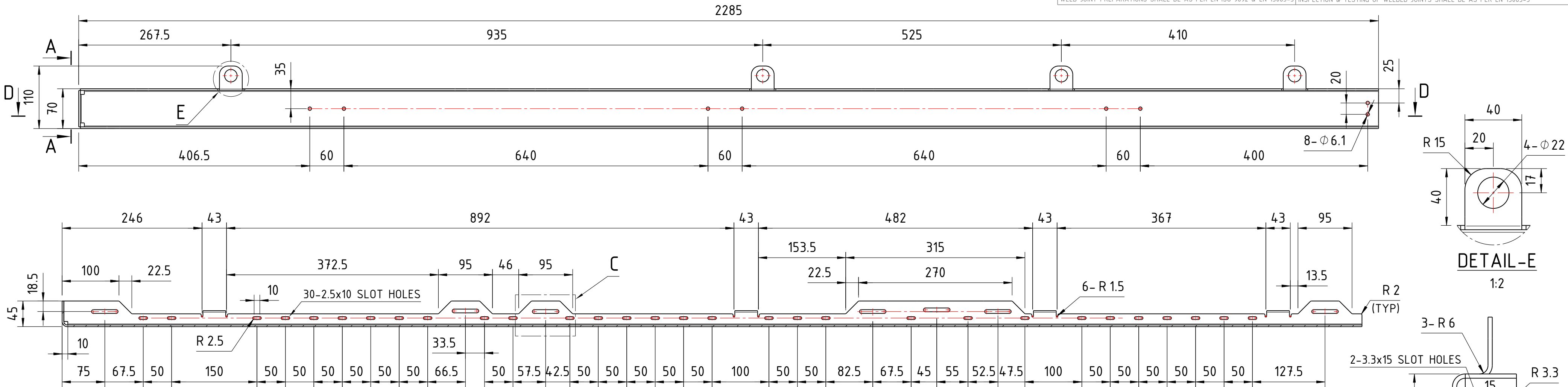
2	8	843-20133	SELF CLINCHING STUD			M6x20		A2-70										
1	1	845-27161	PROFILE					EN AW-5754-H22										
SL.No.	QTY	PART / STOCK No.			DESCRIPTION		SIZE (mm)		COMPANY STD./I.S Wt. (Kg)									
									MATERIAL									
						PRODUCT	TRAIN B28											
						REF DRG	---											
						MATERIAL	ASSY											
						HEAT TREAT. SURFACE TREAT.	---	APPD	KRISHNA PRASAD 13.07.26									
						TITLE	---	REVD	KRISHNA PRASAD 13.07.26									
							CHKD	SANTOSH KUMAR	13.07.26									
							DRWN	SANTOSH KUMAR	13.07.26									
							SCALE		SHEET	Wt.(kg)								
							1:8		1 OF 1	2.08								
ALT.No.						ECN No./CHANGES		DATE	BY	CHKD	APPD	BANGALORE COMPLEX		DRG No.	845-27053		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												

UN CONTROLLED

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-6063			STATUS:	PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



DETAIL-E

1:2

SECTION B-B

1:5

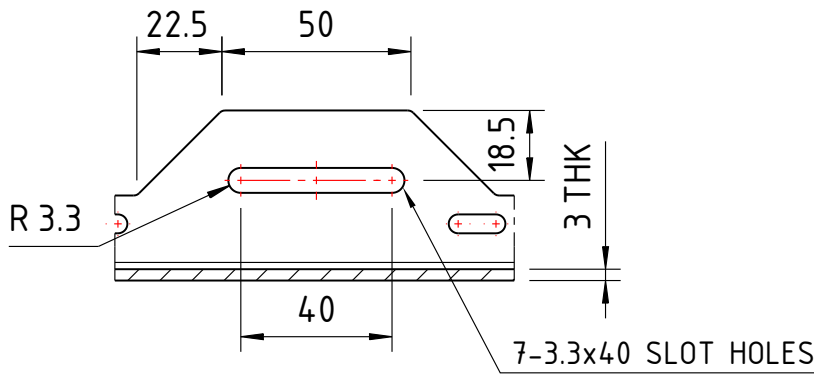
SECTION D-D

1:2

SECTION A-A

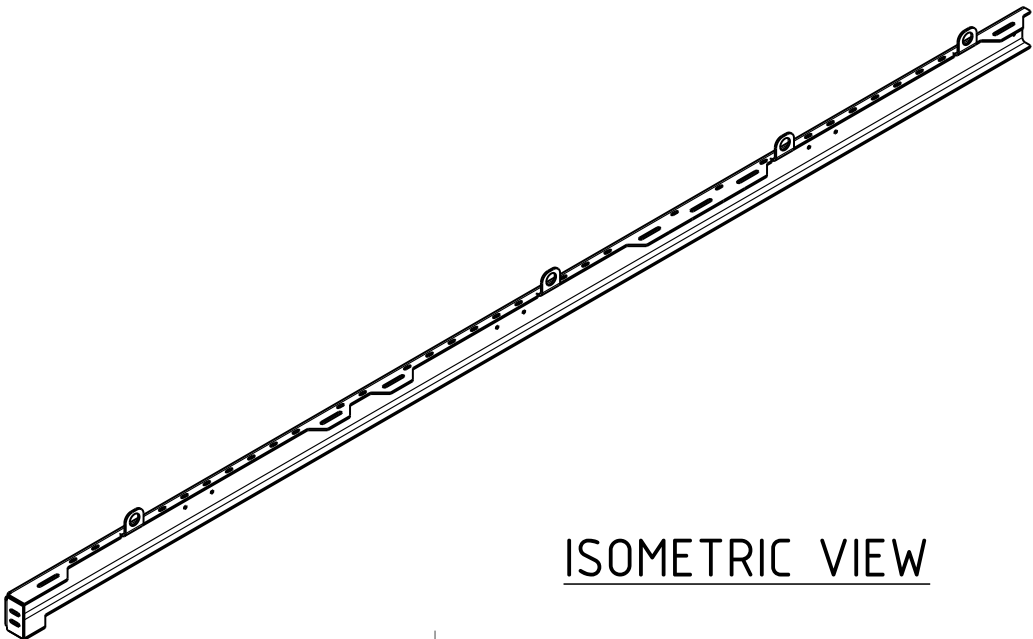
1:2

DEVELOPED VIEW WITH BENDING LINE DETAILS



DETAIL-C

1:2



ISOMETRIC VIEW

NOTES:

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

		---		2624x168x3THK			
SL.No.	QTY	PART / STOCK No.		DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)
				PRODUCT	TRAIN B28		
				REF DRG	---		
				MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209		
				HEAT TREAT.	---	APPD	KRISHNA PRASAD 11.07.26
				SURFACE TREAT.	---	REVD	KRISHNA PRASAD 11.07.26
				PROFILE			
				CHKD	SANTOSH KUMAR 11.07.26		
				DRWN	SANTOSH KUMAR 11.07.26		
				SCALE	1:5	SHEET	1 OF 1
				DRG No.	845-27161		
ALT.No.	ECN No./CHANGES		DATE	BY	CRKD	APPD	ALT
							0

BANGALORE
COMPLEX

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1

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2

GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1

GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2

GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920

VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.

WELDING SHALL BE CARRIED OUT AS PER EN 15085-3

WELDING PROCESS SHALL BE AS PER EN ISO-4063

WELDING SYMBOLS SHALL BE AS PER EN ISO-2553

WELDING POSITIONS SHALL BE AS PER EN ISO 6947

QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817

WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3

INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5

752.5

1

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A

2

1

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SECTION A-A

1:2

ISOMETRIC VIEW

NOTES:
1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.
5. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

UN CONTROLLED

2	2	843-20133	SELF CLINCHING STUD	M6x20	A2-70	
1	1	845-27163	PROFILE		EN AW-5754-H22	
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)
					MATERIAL	
△			PRODUCT	TRAIN B28		
△			REF DRG	---		
△			MATERIAL	ASSY		
△			HEAT TREAT.	APPD	KRISHNA PRASAD	13.07.26
△			SURFACE TREAT.	REVD	KRISHNA PRASAD	13.07.26
△			TITLE	CHKD	SANTOSH KUMAR	13.07.26
△			PROFILE	DRWN	SANTOSH KUMAR	13.07.26
△				SCALE		SHEET
				2:5	1 OF 1	0.74
ALT.No.	ECN No./CHANGES	DATE	BY	CHKD	APPD	DRG No.
						845-27054
						ALT
						0

बी ई एम एल BANGALORE COMPLEX

1

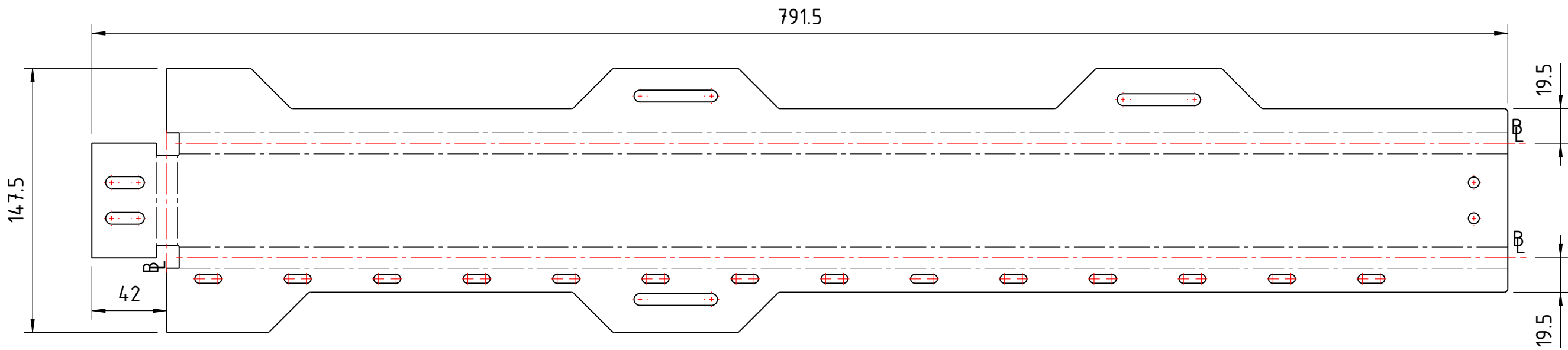
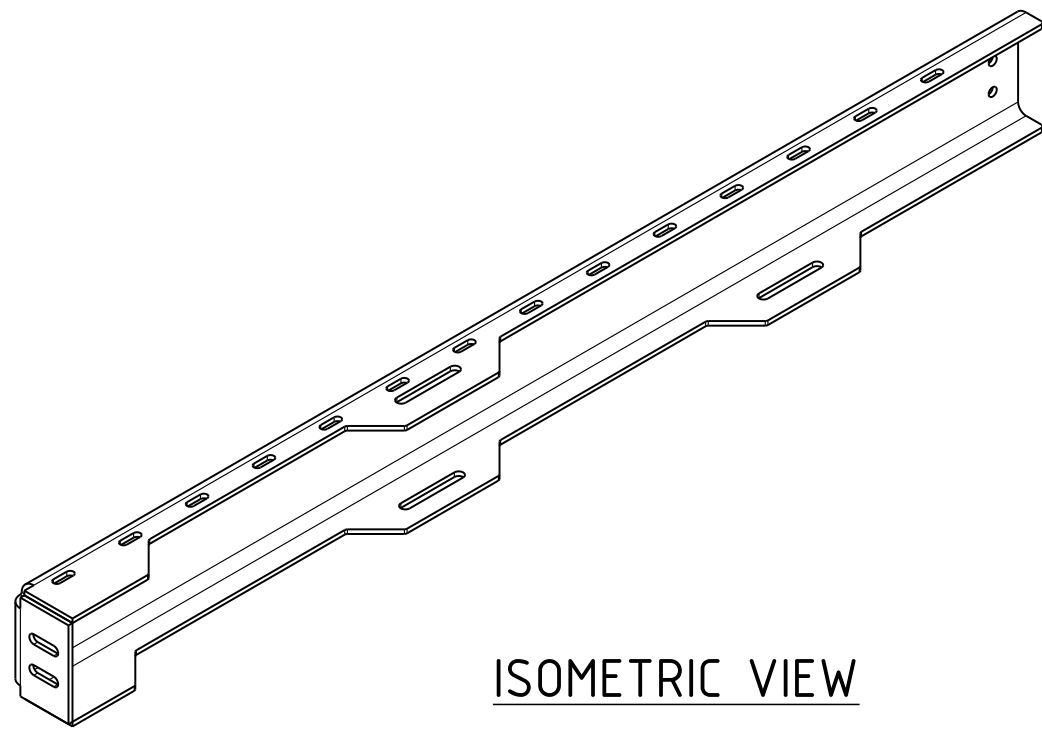
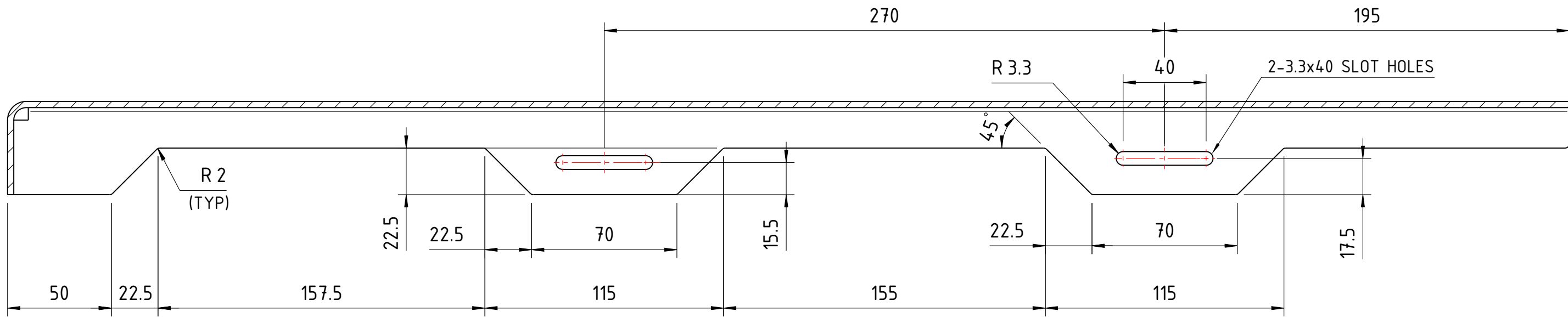
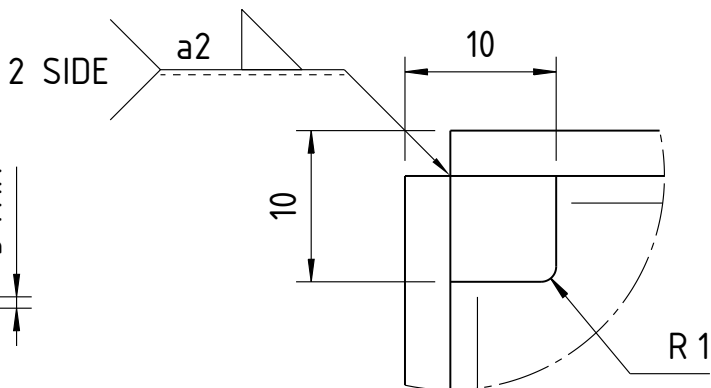
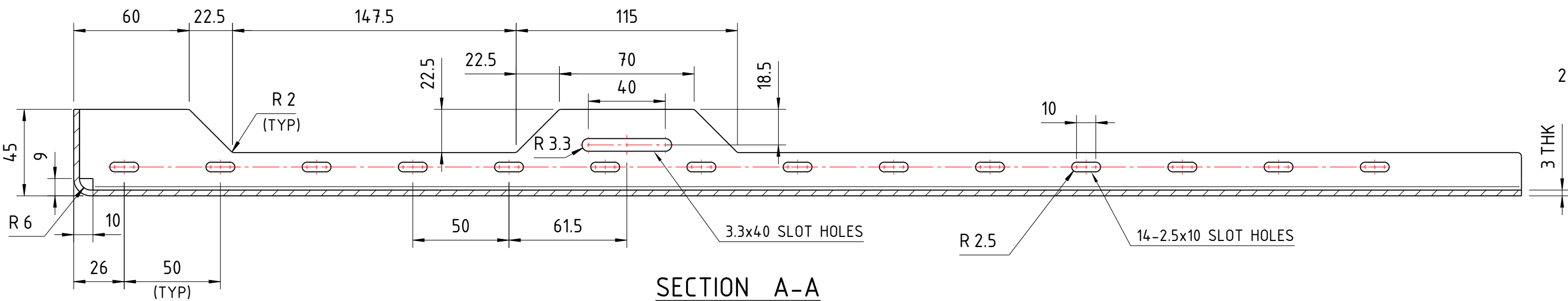
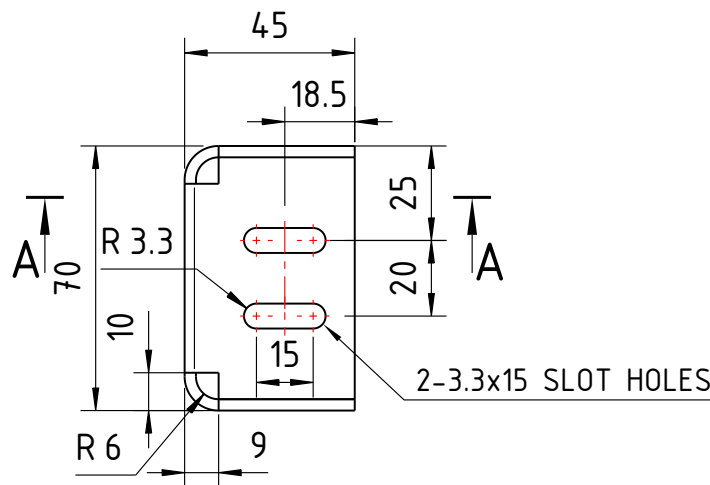
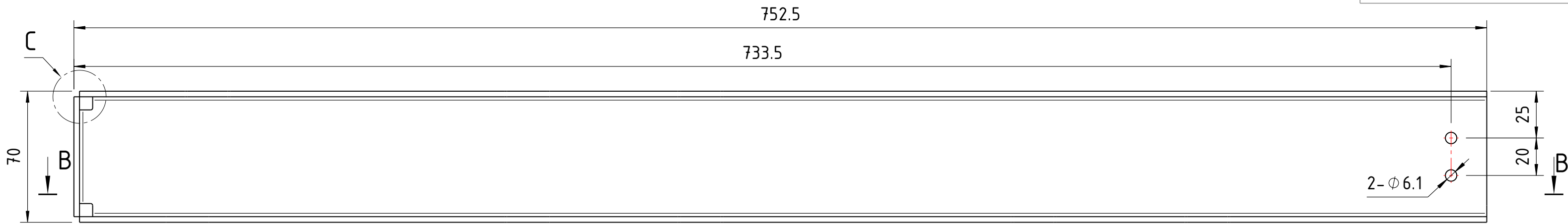
A3

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

UN CONTROLLED

		2					1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000	
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2					
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.					
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:	PROTO/PRODUCTION			
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817										
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3										
INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5										



- NOTES:
1. ALL DIMENSIONS ARE IN mm.
 2. REMOVE ALL SHARP EDGES & BURRS.
 3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 4. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.
 5. WELDING AREAS SHALL BE PASSIVATED.

DEVELOPED VIEW WITH BENDING LINE DETAILS

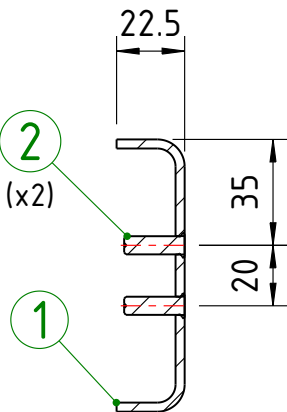
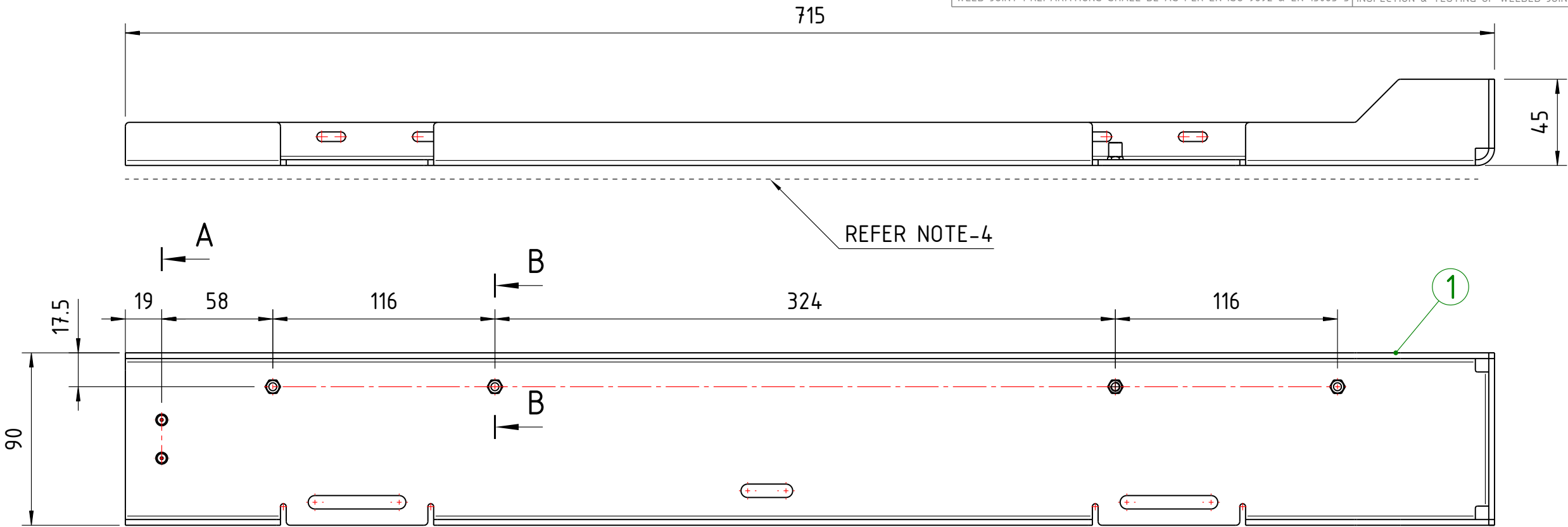
		---		792x148x3THK					
SL.No.	QTY	PART / STOCK No.		DESCRIPTION		SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)	
							MATERIAL		
					PRODUCT	TRAIN B28			
					REF DRG	--			
					MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209			
					HEAT TREAT.	--	APPD	KRISHNA PRASAD	13.07.26
					SURFACE TREAT.	--	REVD	KRISHNA PRASAD	13.07.26
					TITLE	PROFILE			
					SCALE		SHEET	Wt (kg)	
					1:2		1 OF 1	0.7	
					DRG No.	ALT			
ALT.No.	ECN No./CHANGES		DATE	BY	CHKD	APPD	BANGALORE COMPLEX		845-27163

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GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12
VALUE	0.075	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
SYMBOL												
SURFACE ROUGHNESS												

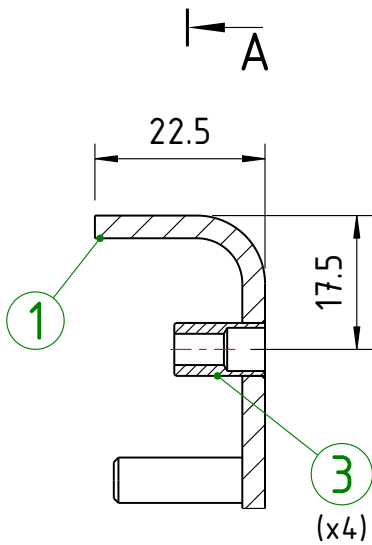
UN CONTROLLED

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 – 3	3 – 6	6 – 30	30 – 120	120 – 400	400 – 1000	1000 – 2000	2000 – 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:	PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



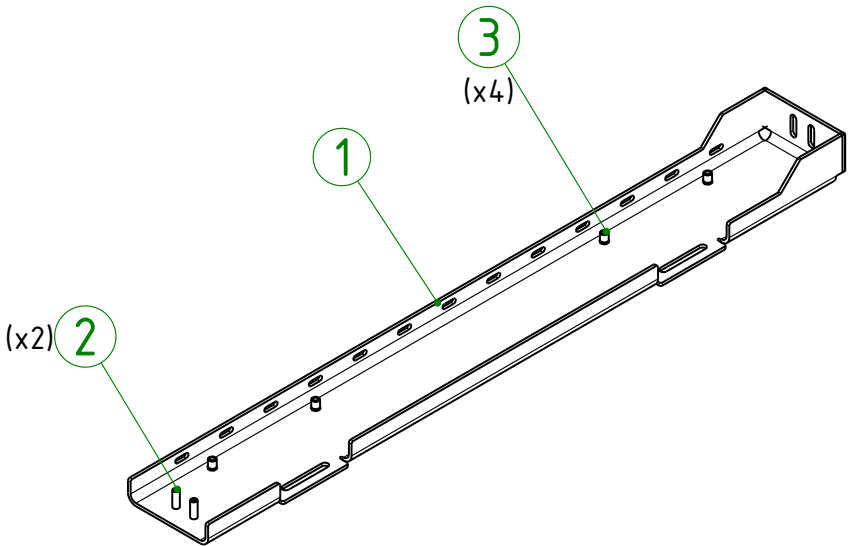
SECTION A-A

1:2



SECTION B-B

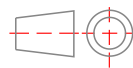
1:1



ISOMETRIC VIEW

NOTES

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL9016, 30% GLOSSINESS / STAIN.
5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

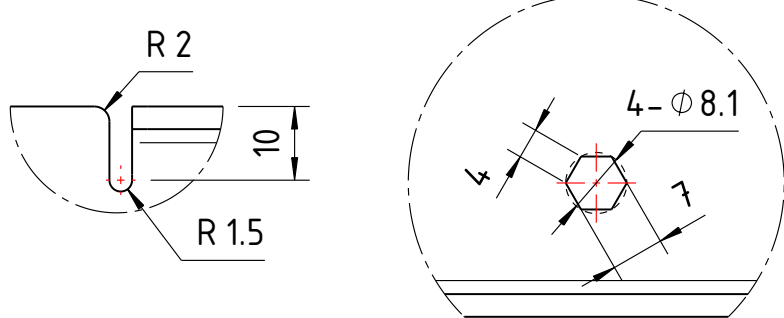
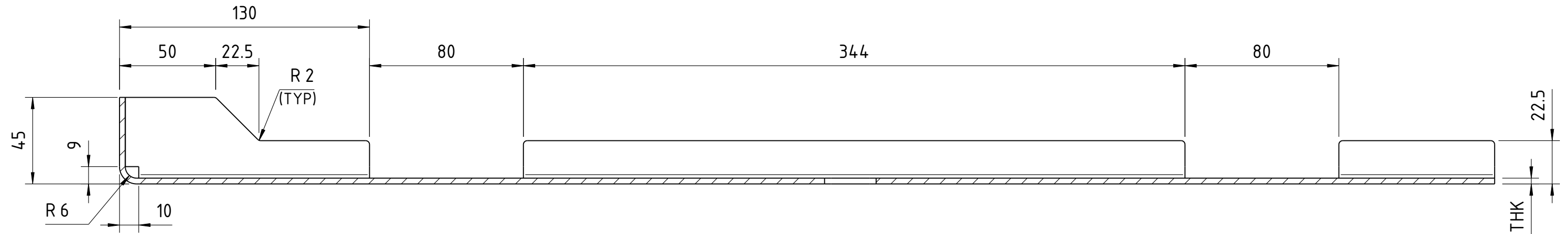
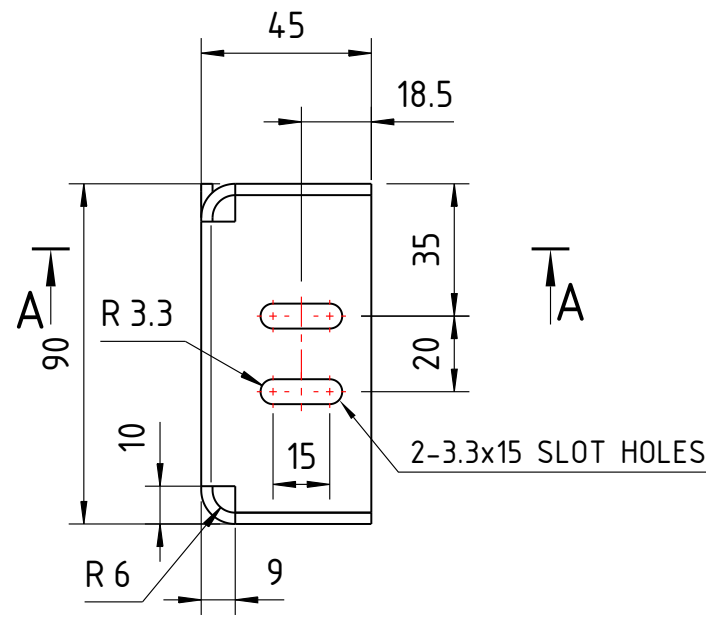
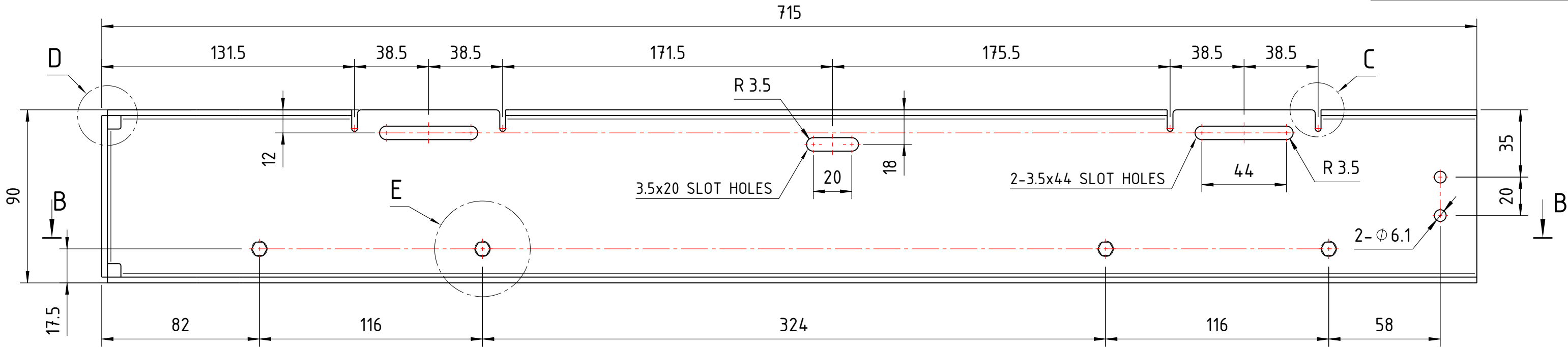
3	4	BOLLHOFF 343 48 050 020			RIVET NUT			M5			SS					
2	2	843-20133			SELF CLINCHING STUD			M6x20			A2-70					
1	1	845-27164			PROFILE						EN AW-5754-H22					
SL.No.		QTY		PART / STOCK No.			DESCRIPTION			SIZE (mm)		COMPANY STD./I.S		Wt. (Kg)		
												MATERIAL				
							PRODUCT		TRAIN B28							
							REF DRG		---							
							MATERIAL		ASSY							
							HEAT TREAT.		---		APPD		KRISHNA PRASAD		13.07.26	
							SURFACE TREAT.		---		REVD		KRISHNA PRASAD		13.07.26	
							TITLE									
											CHKD		SANTOSH KUMAR		13.07.26	
											DRWN		SANTOSH KUMAR		13.07.26	
											SCALE				SHEET	
											2:5		1 OF 1		Wt.(kg)	
															0.74	
															DRG No.	
															ALT	
ALT.No.		ECN No./CHANGES			DATE		BY		CHKD		APPD		BANGALORE COMPLEX		845-27055	
																

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BEML COMPLEX

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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												

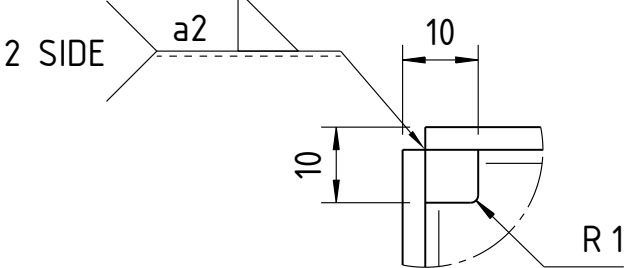
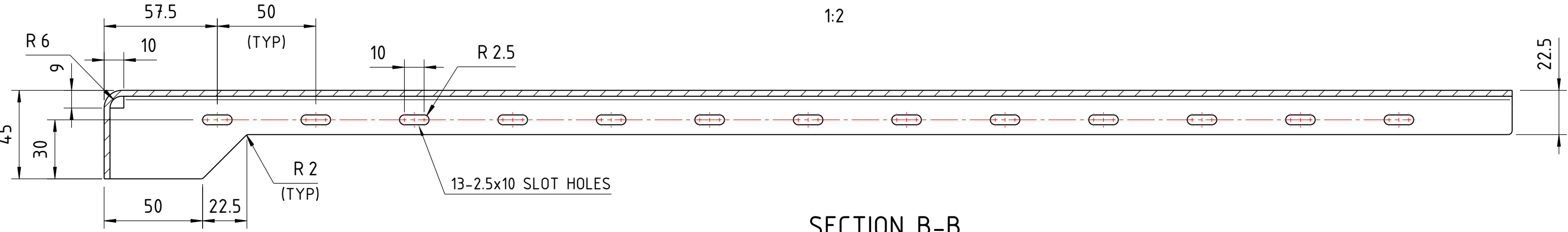
		2					1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000	
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2					
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.					
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:	PROTO/PRODUCTION			
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817										
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3										
INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5										



SECTION A-A
1:2

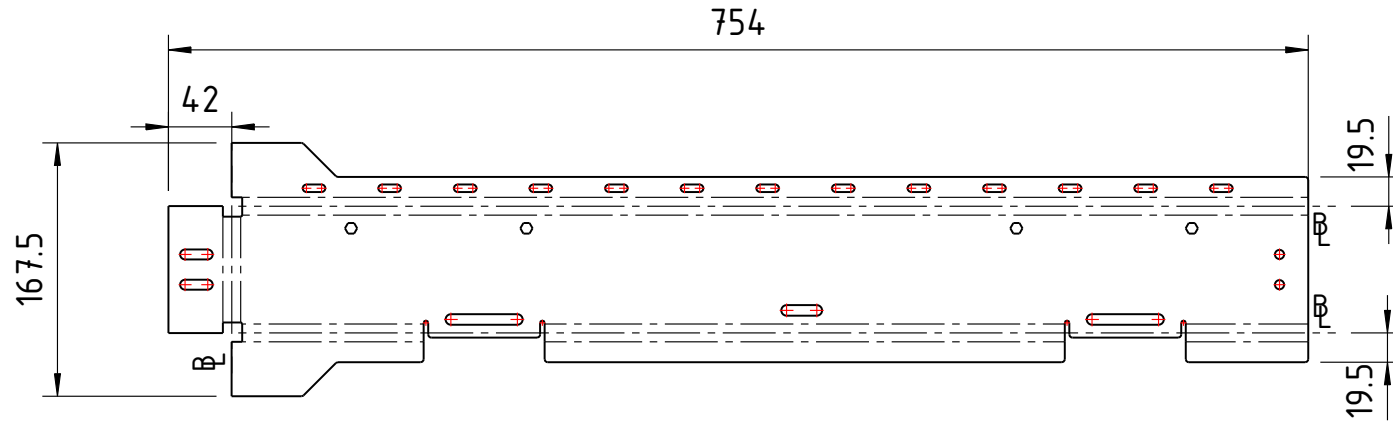
DETAIL-C
1:1

DETAIL-E
1:1

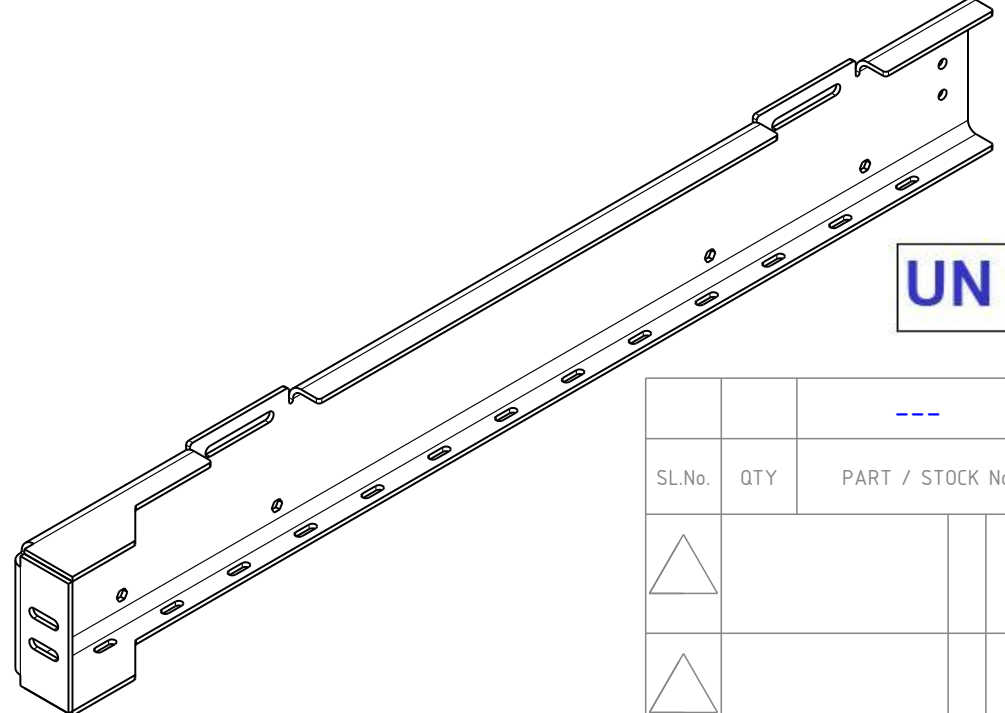


SECTION B-B
1:2

DETAIL-D
1:1



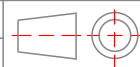
DEVELOPED VIEW WITH BENDING LINE DETAILS



ISOMETRIC VIEW

UN CONTROLLED

- NOTES:
1. ALL DIMENSIONS ARE IN mm.
 2. REMOVE ALL SHARP EDGES & BURRS.
 3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 4. THE PART SHALL COMPLY TO TDC NO: FPIC/TD/077.
 5. WELDING AREAS SHALL BE PASSIVATED.

		---				754x168x3THK					
SL.No.	QTY	PART / STOCK No.			DESCRIPTION			SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)	
								MATERIAL			
					PRODUCT	TRAIN B28					
					REF DRG	--					
					MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209					
					HEAT TREAT.	--	APPD	KRISHNA PRASAD	13.07.26		
					SURFACE TREAT.	--	REVD	KRISHNA PRASAD	13.07.26		
					TITLE	PROFILE					
					 BANGALORE COMPLEX					ALT	
										DRG No.	
ALT.No.	ECN No./CHANGES			DATE	BY	CHKD	APPD		SHEET	Wt.(kg)	
								1:2	1 OF 1	0.72	
								845-27164			

5

4

3

2

1

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS
CLASS - MEDIUM

RANGE

0.5 - 3

3 - 6

6 - 30

30 - 120

120 - 400

400 - 1000

1000 - 2000

2000 - 4000

TOLERANCE

±0.1

±0.1

±0.2

±0.3

±0.5

±0.8

±1.2

±2

GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1

GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2

GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920

VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.

WELDING SHALL BE CARRIED OUT AS PER EN 15085-3

WELDING PROCESS SHALL BE AS PER EN ISO-4063

WELDING SYMBOLS SHALL BE AS PER EN ISO-2553

WELDING POSITIONS SHALL BE AS PER EN ISO 6947

QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817

STATUS: **PROTO/PRODUCTION**

WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3

INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5

665

45

REFER NOTE-4

1

2 (x2)

19

50

20

20

1

2 (x2)

SECTION A-A

1:2

1

2 (x2)

ISOMETRIC VIEW

UN CONTROLLED

2

1

843-20133

845-27166

SELF CLINCHING STUD

PROFILE

M6x20

A2-70

EN AW-5754-H22

SL.No.

QTY

PART / STOCK No.

DESCRIPTION

SIZE (mm)

COMPANY STD./I.S

Wt. (Kg)

MATERIAL

△

△

△

△

△

△

PRODUCT

REF DRG

MATERIAL

HEAT TREAT.

SURFACE TREAT.

TITLE

TRAIN B28

ASSY

PROFILE

बी ई एम एल BANGALORE COMPLEX

वर्क ई एम एल BEML

Beyond Possibilities

SCALE

2:5

SHEET

1 OF 1

Wt.(kg)

0.44

DRG No.

845-27057

ALT

0

NOTES

1. ALL DIMENSIONS ARE IN mm.

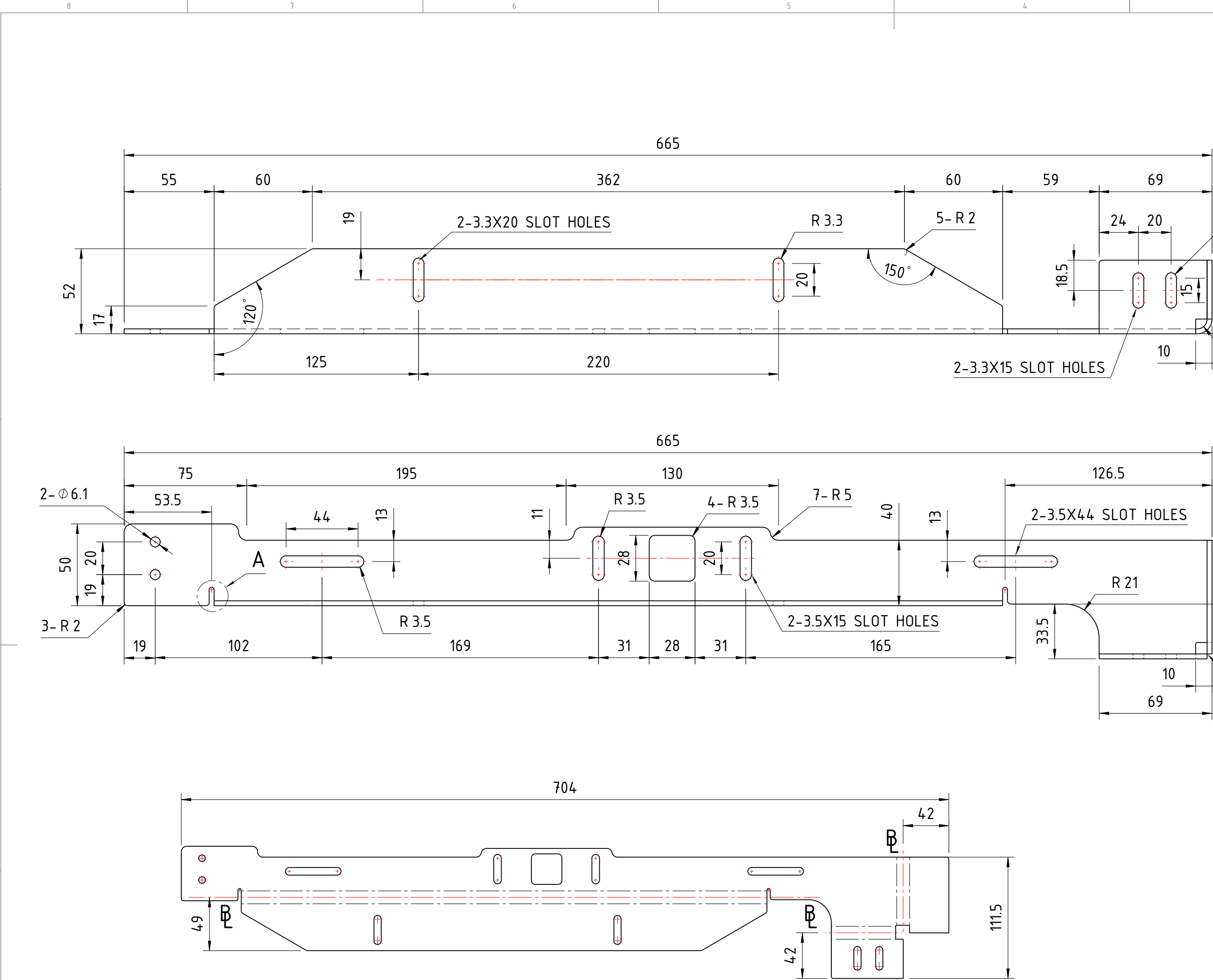
2. REMOVE ALL SHARP EDGES & BURRS.

3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.

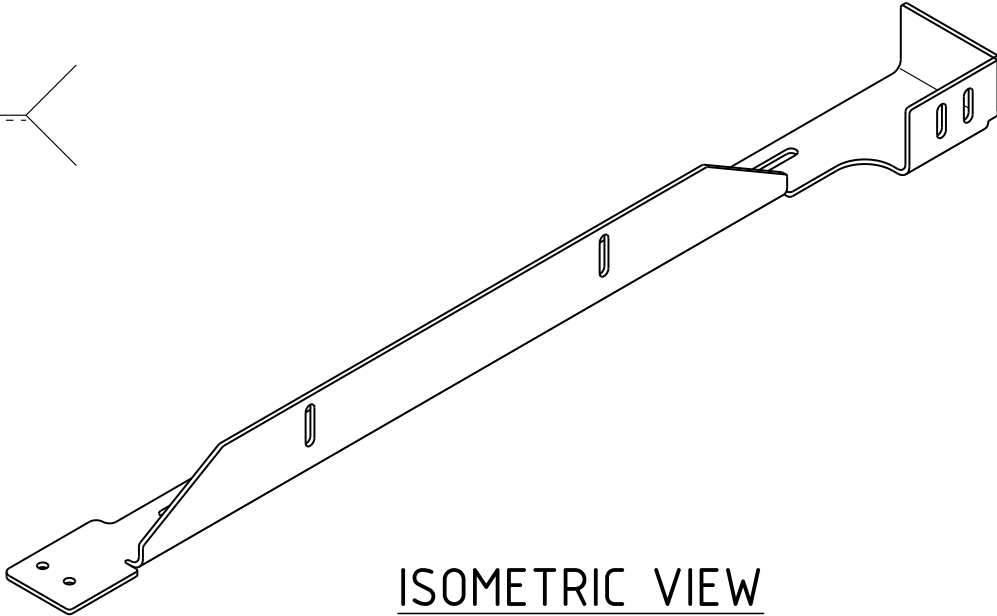
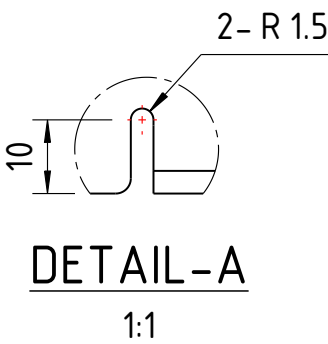
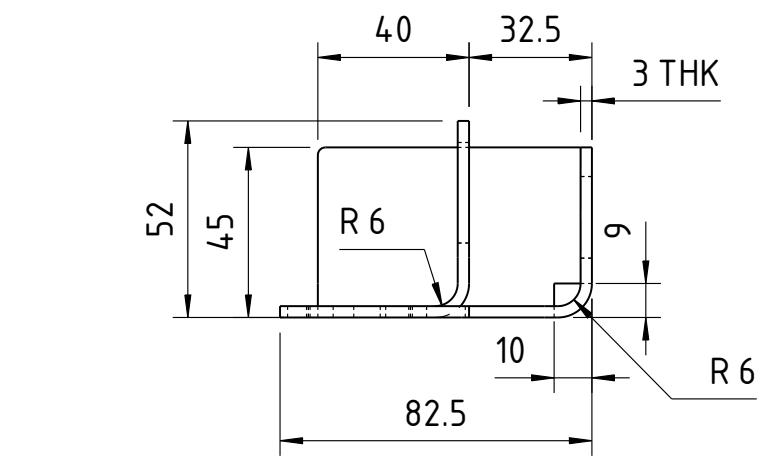
4. SHOWN SURFACE SHALL BE PAINTED TO RAL9016, 30% GLOSSINESS / STAIN.

5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

A3



DEVELOPED VIEW WITH BENDING LINE DETAILS



ISOMETRIC VIEW

UN CONTROLLED

- NOTES
1. ALL DIMENSIONS ARE IN mm.
 2. REMOVE ALL SHARP EDGES & BURRS.
 3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 4. ALL WELD AREAS SHALL BE PASSIVATED.
 5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

		---		704X112X3THK			
SL.No.	QTY	PART / STOCK No.		DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)
				PRODUCT	TRAIN B28		
				REF DRG	--		
				MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209		
				HEAT TREAT.	--	APPD	KRISHNA PRASAD 17.07.26
				SURFACE TREAT.	--	REVD	KRISHNA PRASAD 17.07.26
				TITLE	PROFILE		
				DRWN	SANTOSH KUMAR	CHKD	SANTOSH KUMAR 17.07.26
				SCALE	1:2	SHEET	1 OF 1 0.431
ALT.No.	ECN No./CHANGES	DATE	BY	CRD	APPD	BANGALORE COMPLEX	
						845-27166	
						ALT	0

5

4

3

2

1

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2

GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1

GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2

GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920

VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.

WELDING SHALL BE CARRIED OUT AS PER EN 15085-3

WELDING PROCESS SHALL BE AS PER EN ISO-4063

WELDING SYMBOLS SHALL BE AS PER EN ISO-2553

WELDING POSITIONS SHALL BE AS PER EN ISO 6947

QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817

WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3

INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5

STATUS:

PROTO/PRODUCTION

610

45

19

50

72.5

20

19

20

REFER NOTE-4

1

2 (x2)

SECTION A-A
1:2

1

2 (x2)

ISOMETRIC VIEW

NOTES

1. ALL DIMENSIONS ARE IN mm.

2. REMOVE ALL SHARP EDGES & BURRS.

3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.

4. SHOWN SURFACE SHALL BE PAINTED TO RAL9016, 30% GLOSSINESS / STAIN.

5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

UN CONTROLLED

2	2	843-20133	SELF CLINCHING STUD	M6x20	A2-70
1	1	845-27167	PROFILE		EN AW-5754-H22

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)
					MATERIAL	
			PRODUCT	TRAIN B28		
			REF DRG	---		
			MATERIAL	ASSY		
			HEAT TREAT.		APPD	KRISHNA PRASAD 13.07.26
			SURFACE TREAT.		REVD	KRISHNA PRASAD 13.07.26
			TITLE		CHKD	SANTOSH KUMAR 13.07.26
					DRWN	SANTOSH KUMAR 13.07.26
					SCALE	2:5
					SHEET	1 OF 1
					Wt.(kg)	0.4
					DRG No.	845-27058
					ALT	0

PROFILE

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BANGALORE COMPLEX

BEML

Beyond Possibilities

5

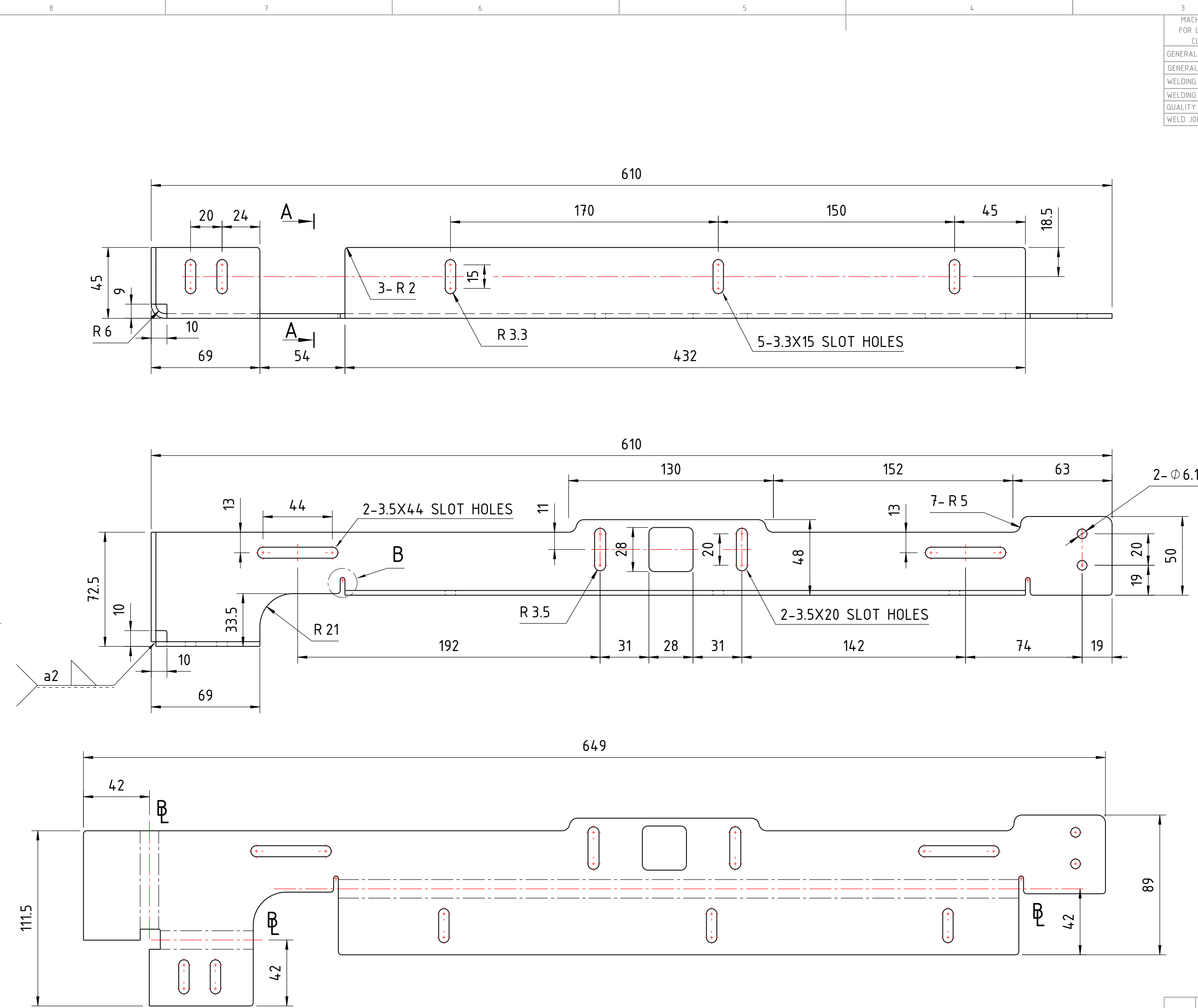
4

3

2

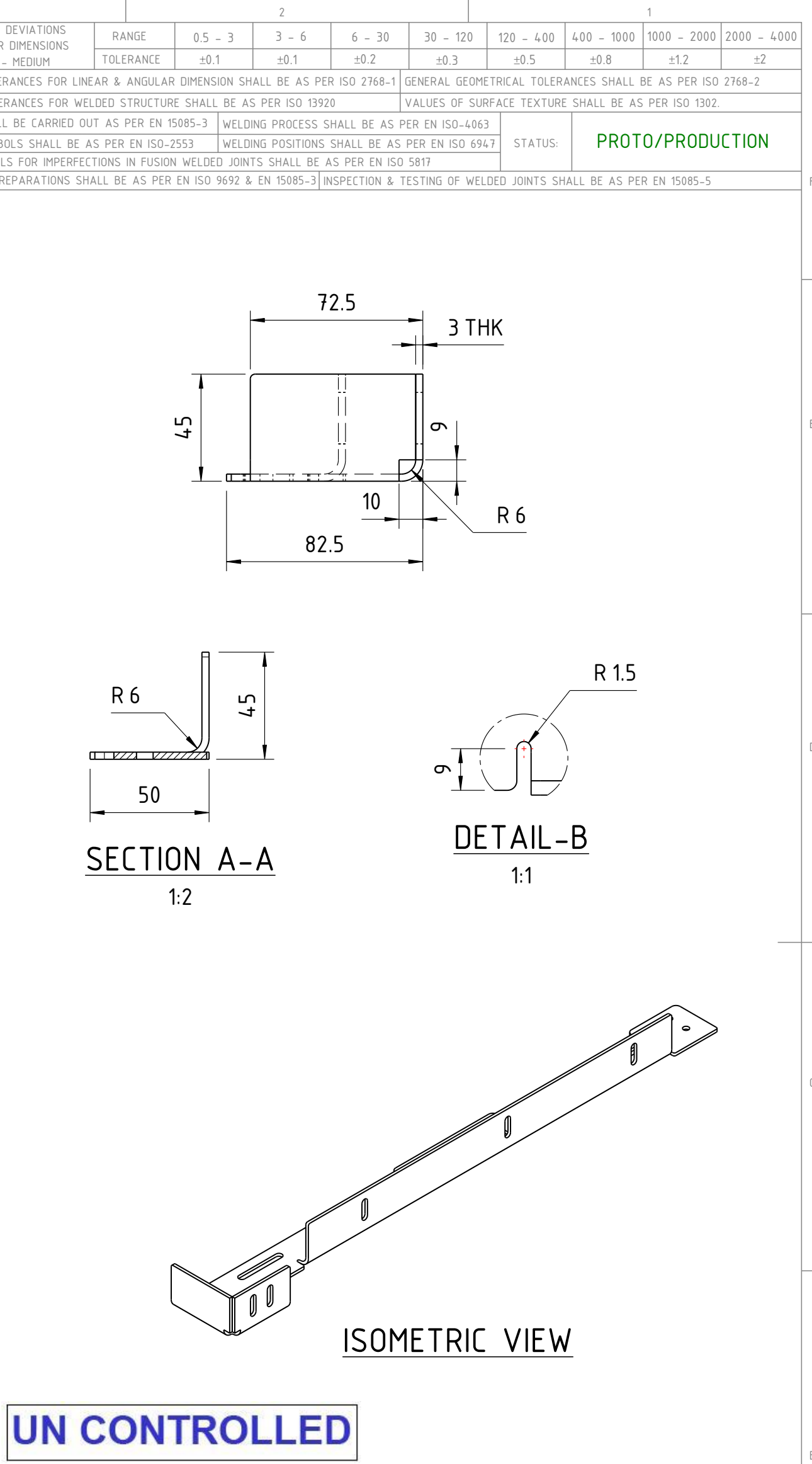
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A3

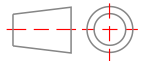


- NOTES
1. ALL DIMENSIONS ARE IN mm.
 2. REMOVE ALL SHARP EDGES & BURRS.
 3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 4. ALL WELD AREAS SHALL BE PASSIVATED.
 5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

3		2					1					
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM		RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000		
		TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2		
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1						GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2						
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920						VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.						
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3				WELDING PROCESS SHALL BE AS PER EN ISO-6063		STATUS: PROTO/PRODUCTION						
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553				WELDING POSITIONS SHALL BE AS PER EN ISO 6947								
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817												
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3						INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5						

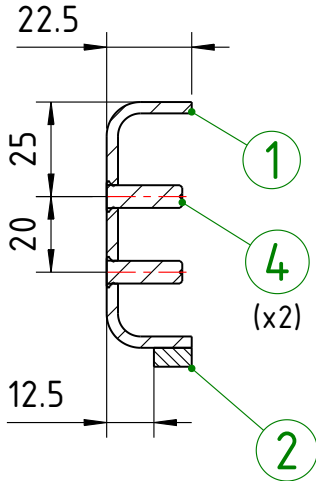
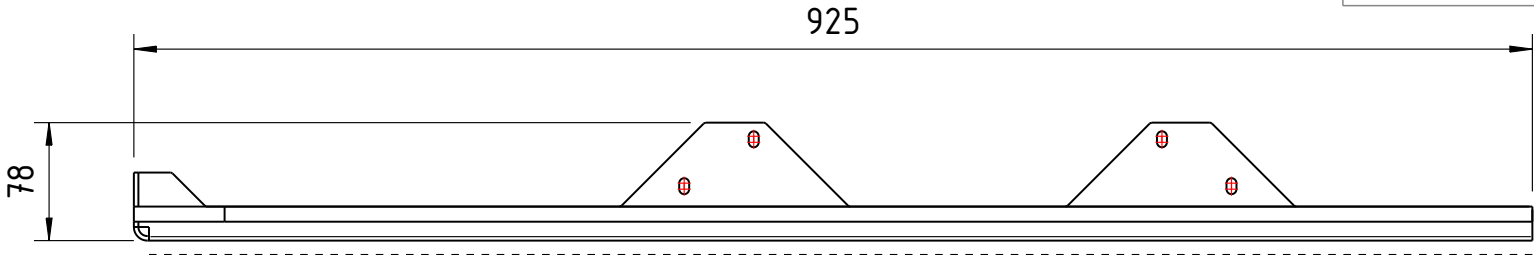


UN CONTROLLED

		---		649X112X3THK						
SL.No.	QTY	PART / STOCK No.		DESCRIPTION	SIZE (mm)	COMPANY STD./I.S		Wt. (Kg)		
						MATERIAL				
					PRODUCT	TRAIN B28				
					REF DRG	--				
					MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209				
					HEAT TREAT.	--	APPD	KRISHNA PRASAD	17.07.26	
					SURFACE TREAT.	--	REVD	KRISHNA PRASAD	17.07.26	
					TITLE	PROFILE	CHKD	SANTOSH KUMAR	17.07.26	
							DRWN	SANTOSH KUMAR	17.07.26	
							SCALE		SHEET	Wt.(kg)
							1:2		1 OF 1	0.386
ALT.No.	ECN No./CHANGES		DATE	BY	CHKD	APPD	BANGALORE COMPLEX		DRG No.	ALT
							845-27167			
3						2		1		A2

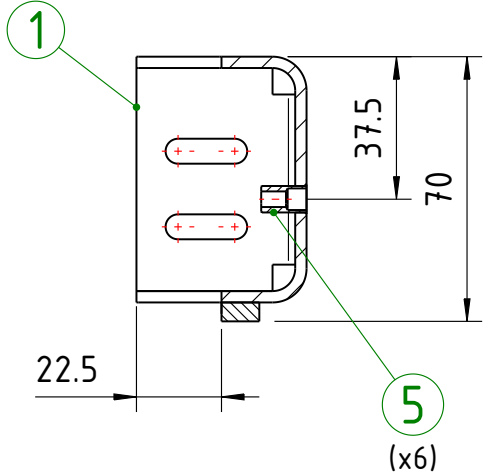
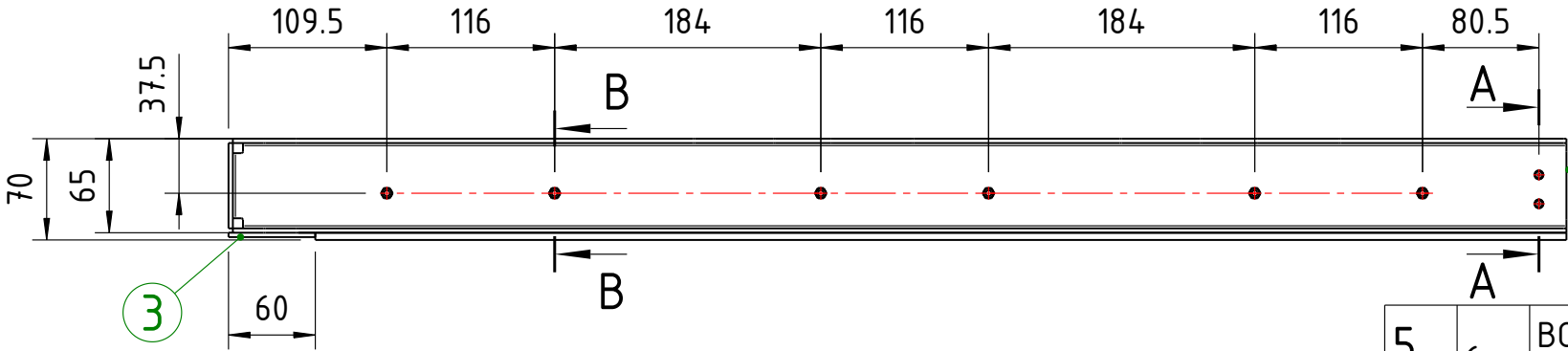
UN CONTROLLED

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 – 3	3 – 6	6 – 30	30 – 120	120 – 400	400 – 1000	1000 – 2000	2000 – 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3		WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:	PROTO/PRODUCTION			
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553		WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



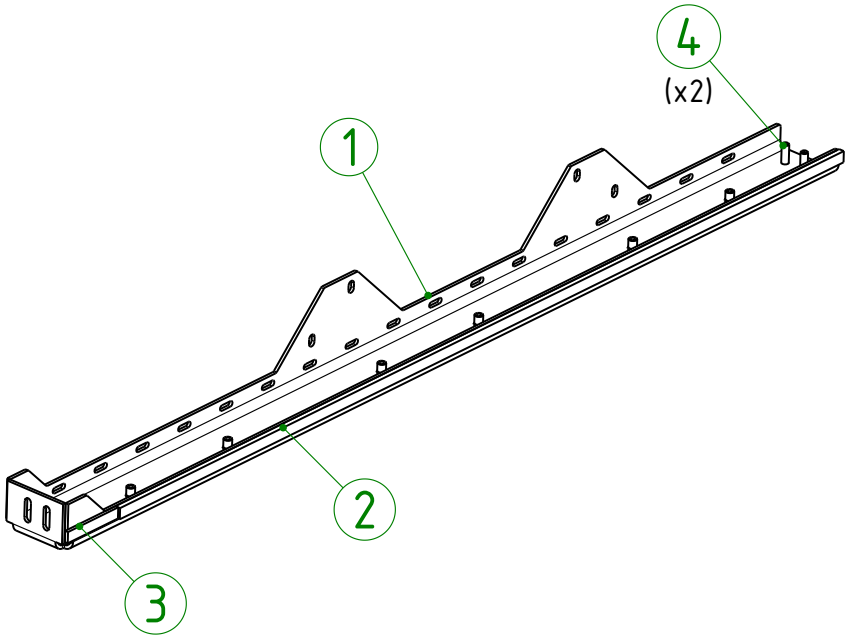
SECTION A-A

1:2



SECTION B-B

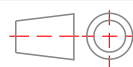
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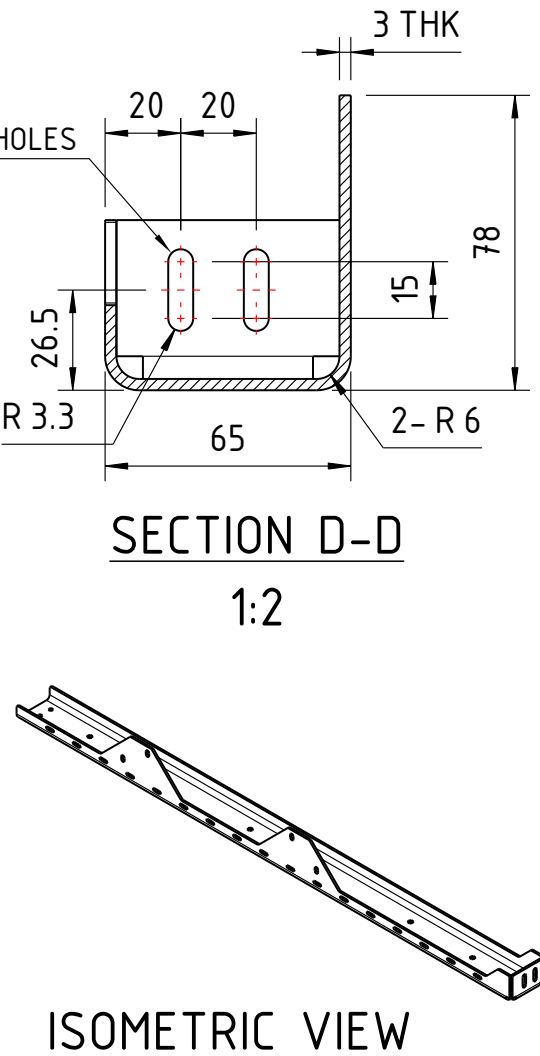
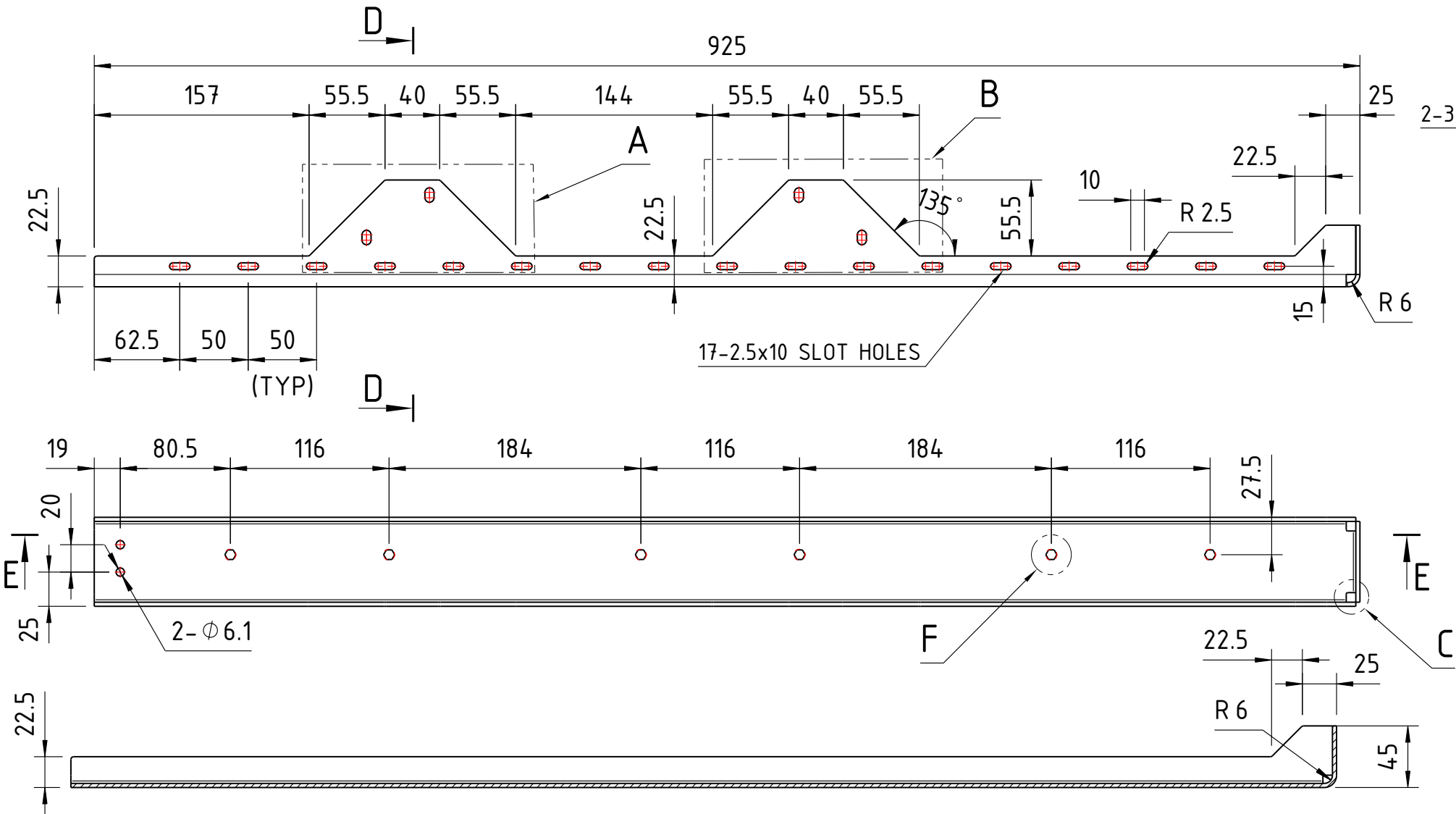
ISOMETRIC VIEW

NOTES

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL9016, 30% GLOSSINESS / STAIN.
5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

5	6	BOLLHOFF 343 48 050 020	RIVET NUT	Bollhoff 343 48 050 020	SS		
4	2	843-20133	SELF CLINCHING STUD	M6x20	A2-70		
3	1	845-27270	RECTANGULAR SEALS EPDM / CR	L=60mm	EPDM		
2	1	845-27198	RECTANGULAR SEALS EPDM / CR	L=865mm	EPDM		
1	1	845-27197	PROFILE		EN AW-5754-H22		
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)	
					MATERIAL		
			PRODUCT	TRAIN B28			
			REF DRG	---			
			MATERIAL	ASSY			
			HEAT TREAT.	---	APPD	KRISHNA PRASAD 13.07.26	
			SURFACE TREAT.	---	REVD	KRISHNA PRASAD 13.07.26	
			TITLE	---	CHKD	SANTOSH KUMAR 13.07.26	
			PROFILE	DRWN	SANTOSH KUMAR	13.07.26	
				SCALE		SHEET	Wt.(kg)
				2:5	1 OF 1	0.91	
				DRG No.	845-27081		ALT
ALT.No.	ECN No./CHANGES	DATE	BY	CHKD	APPD		
					BANGALORE COMPLEX		

		2				1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3		WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:		PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553		WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					

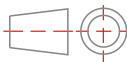


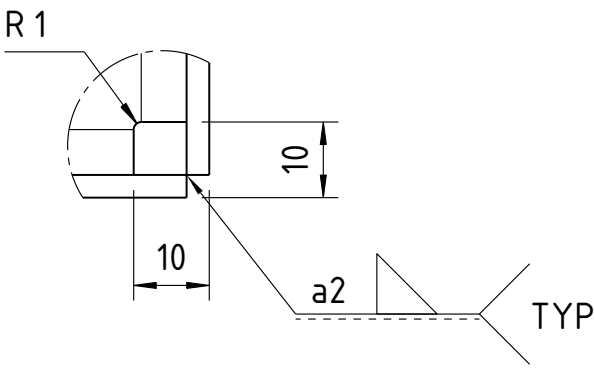
UN CONTROLLED

NOTES

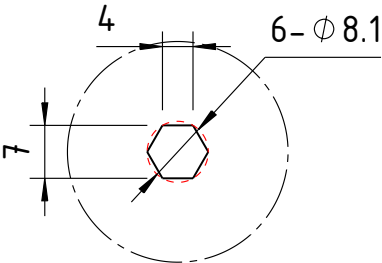
1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. ALL WELD AREAS SHALL BE PASSIVATED.
5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

						964x153x3THK					
SL.No.	QTY	PART / STOCK No.				DESCRIPTION	SIZE (mm)	COMPANY STD./I.S Wt. (Kg)			
								MATERIAL			
						PRODUCT	TRAIN B28				
						REF DRG	---				
						MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209				
						HEAT TREAT.	---	APPD	KRISHNA PRASAD	17.07.26	
						SURFACE TREAT.	---	REVD	KRISHNA PRASAD	17.07.26	
						TITLE	PROFILE	CHKD	SANTOSH KUMAR	17.07.26	
								DRWN	SANTOSH KUMAR	17.07.26	
								SCALE		SHEET	Wt.(kg)
								1:4		1 OF 2	0.83
ALT.No.	ECN No./CHANGES				DATE	BY	CHKD	APPD	DRG No.		ALT
									845-27197		
								BANGALORE COMPLEX			

								964x153x3THK			COMPANY STD./I.S Wt. (Kg)		
SL.No.	QTY	PART / STOCK No.			DESCRIPTION					SIZE (mm)		MATERIAL	
							PRODUCT	TRAIN B28					
							REF DRG	---					
							MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209					
							HEAT TREAT.	---	APPD	KRISHNA PRASAD	17.07.26		
							SURFACE TREAT.	---	REV D	KRISHNA PRASAD	17.07.26		
							TITLE	---	CHKD	SANTOSH KUMAR	17.07.26		
							PROFILE		DRWN	SANTOSH KUMAR	17.07.26		
									SCALE		SHEET	Wt.(kg)	
									1:4	2 OF 2	0.83		
ALT.No.	ECN No./CHANGES		DATE	BY	CHKD	APPO	 BANGALORE COMPLEX			DRG No.		ALT	
										845-27197			



DETAIL-B
1:2



DETAIL-F
1:1

PROFILE

TRAIN B28

ई एम एल BANGALORE
BEML COMPLEX

S: PROTO/PRODUCTION

845-27197

5

4

3

2

1

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM

RANGE

0.5 - 3

3 - 6

6 - 30

30 - 120

120 - 400

400 - 1000

1000 - 2000

2000 - 4000

TOLERANCE

±0.1

±0.1

±0.2

±0.3

±0.5

±0.8

±1.2

±2

GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1

GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2

GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920

VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.

WELDING SHALL BE CARRIED OUT AS PER EN 15085-3

WELDING PROCESS SHALL BE AS PER EN ISO-4063

WELDING SYMBOLS SHALL BE AS PER EN ISO-2553

WELDING POSITIONS SHALL BE AS PER EN ISO 6947

QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817

STATUS: **PROTO/PRODUCTION**

WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3

INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5

755

45

19

70

REFER NOTE-4

1

2 (x2)

22.5

25

20

1

SECTION A-A

1:2

ISOMETRIC VIEW

1

2 (x2)

NOTES

1. ALL DIMENSIONS ARE IN mm.

2. REMOVE ALL SHARP EDGES & BURRS.

3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.

4. SHOWN SURFACE SHALL BE PAINTED TO RAL9016, 30% GLOSSINESS / STAIN.

5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

UN CONTROLLED

2	2	843-20133	SELF CLINCHING STUD	M6x20	A2-70		
1	1	845-27199	PROFILE		EN AW-5754-H22		
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)	
					MATERIAL		
△			PRODUCT	TRAIN B28			
△			REF DRG	---			
△			MATERIAL	ASSY			
△			HEAT TREAT.	APPD	KRISHNA PRASAD	13.07.26	
△			SURFACE TREAT.	REVD	KRISHNA PRASAD	13.07.26	
△			TITLE	CHKD	SANTOSH KUMAR	13.07.26	
△			PROFILE	DRWN	SANTOSH KUMAR	13.07.26	
△				SCALE		SHEET	Wt.(kg)
				2:5	1 OF 1	0.73	
ALT.No.	ECN No./CHANGES	DATE		BY	CHKD	APPD	

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BANGALORE

COMPLEX

Beyond Possibilities

DRG No.

845-27082

ALT

0

5

4

3

2

1

A3

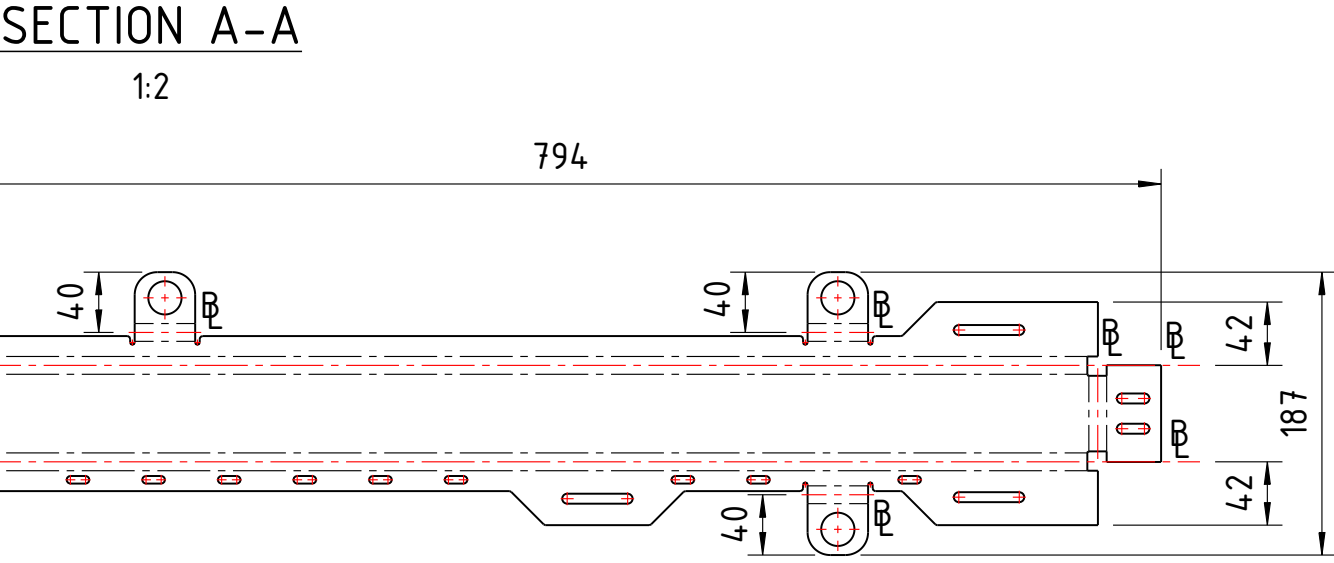
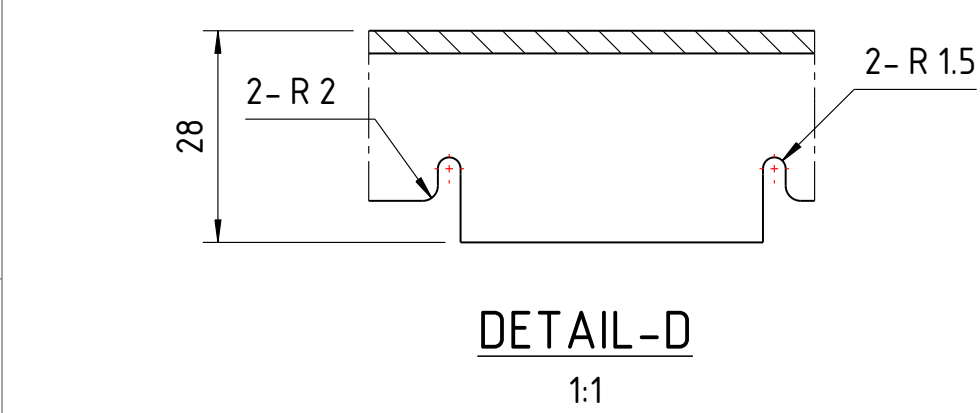
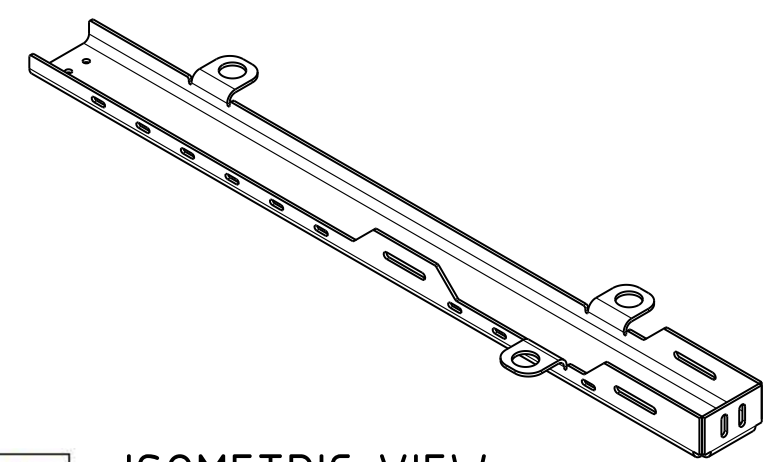
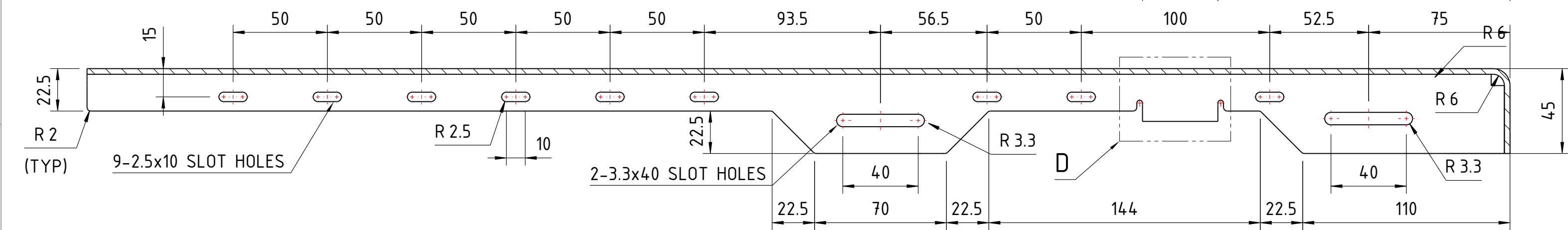
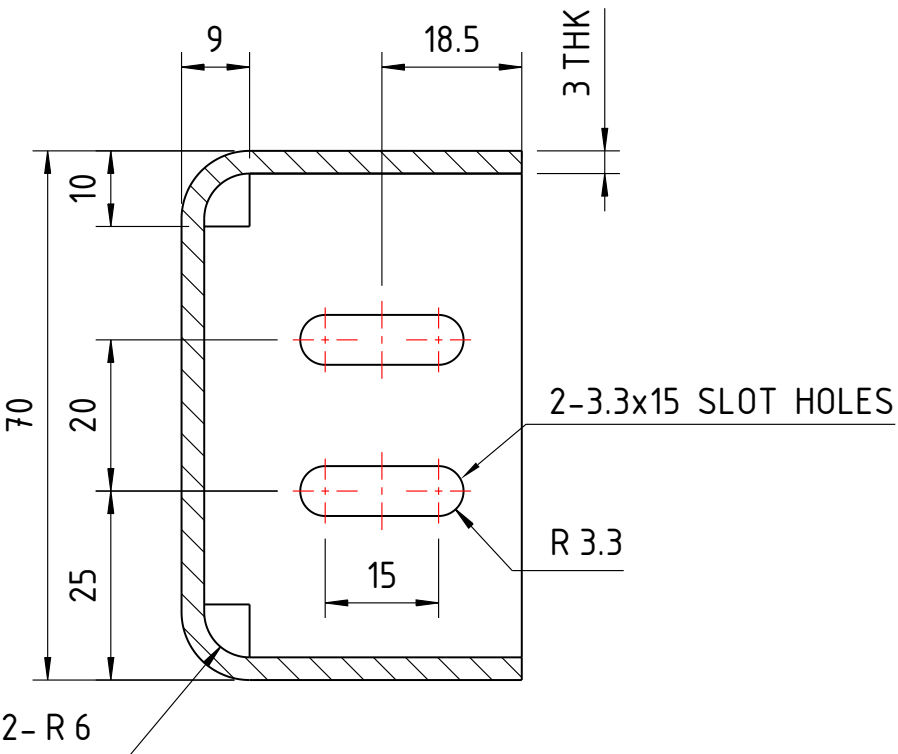
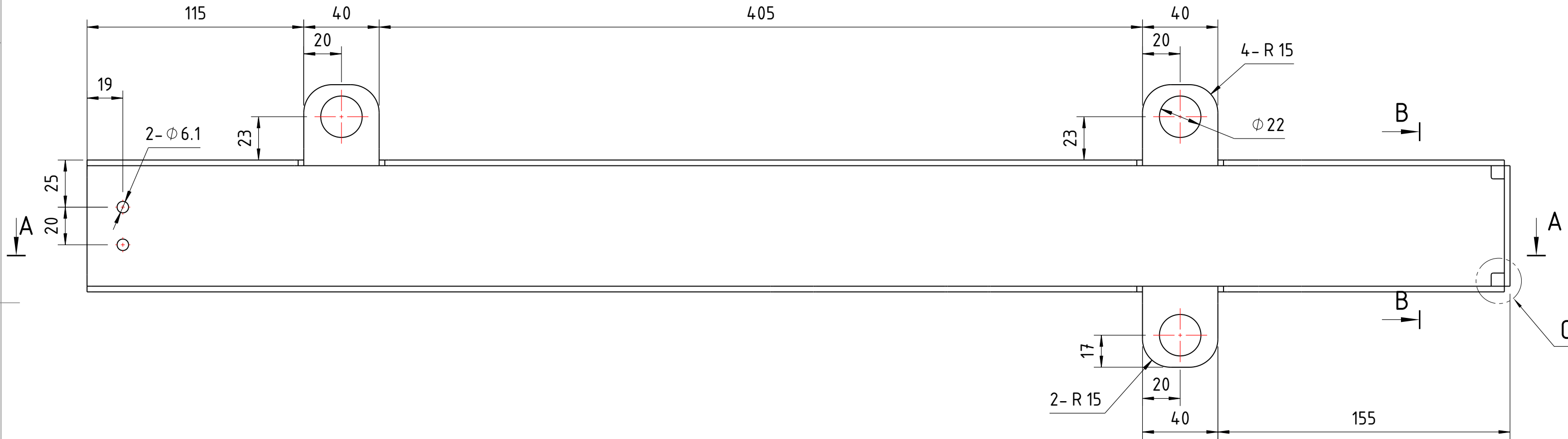
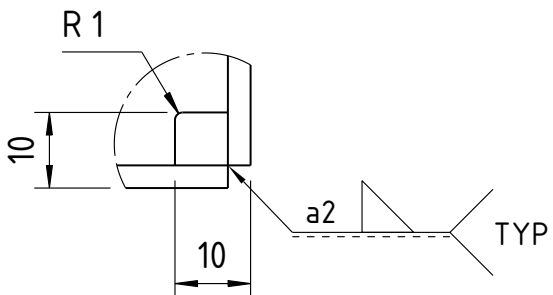
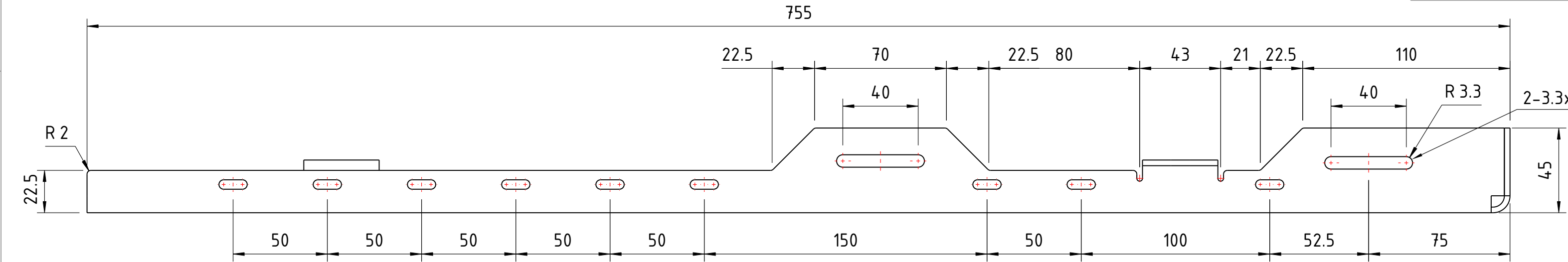
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GRADE No.
VALUE
SYMBOL
SURFACE
ROUGHNESS

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 CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-6063			STATUS:	PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3									
INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5									



UN CONTROLLED

ISOMETRIC VIEW

- NOTES
1. ALL DIMENSIONS ARE IN mm.
 2. REMOVE ALL SHARP EDGES & BURRS.
 3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 4. ALL WELD AREAS SHALL BE PASSIVATED.
 5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

DEVELOPED VIEW WITH BENDING LINE DETAILS

---		794x187x3THK			
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S
					Wt. (Kg)
					MATERIAL
			PRODUCT	TRAIN B28	
			REF DRG	---	
			MATERIAL	EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209	
			HEAT TREAT.	APPD	KRISHNA PRASAD 17.07.26
			SURFACE TREAT.	REVD	KRISHNA PRASAD 17.07.26
			TITLE	CHKD	SANTOSH KUMAR 17.07.26
				DRWN	SANTOSH KUMAR 17.07.26
			SCALE	2:5	1 OF 1 0.68
			DRG No.	845-27199	
				ALT	
				0	

BANGALORE
COMPLEX

5

4

3

2

1

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS
CLASS - MEDIUM

RANGE

0.5 - 3

3 - 6

6 - 30

30 - 120

120 - 400

400 - 1000

1000 - 2000

2000 - 4000

TOLERANCE

±0.1

±0.1

±0.2

±0.3

±0.5

±0.8

±1.2

±2

GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1

GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2

GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920

VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.

WELDING SHALL BE CARRIED OUT AS PER EN 15085-3

WELDING PROCESS SHALL BE AS PER EN ISO-4063

WELDING SYMBOLS SHALL BE AS PER EN ISO-2553

WELDING POSITIONS SHALL BE AS PER EN ISO 6947

QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817

STATUS: **PROTO/PRODUCTION**

WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3

INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5

720

45

REFER NOTE-4

19

70

A

A

1

2 (x2)

22.5

25

20

1

2 (x2)

SECTION A-A

1:2

1

2 (x2)

ISOMETRIC VIEW

UN CONTROLLED

2	2	843-20133	SELF CLINCHING STUD	M6x20	A2-70
1	1	845-27200	PROFILE		EN AW-5754-H22

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)
					MATERIAL	
			PRODUCT	TRAIN B28		
			REF DRG	---		
			MATERIAL	ASSY		
			HEAT TREAT.		APPD	KRISHNA PRASAD 13.07.26
			SURFACE TREAT.		REVD	KRISHNA PRASAD 13.07.26
			TITLE		CHKD	SANTOSH KUMAR 13.07.26
					DRWN	SANTOSH KUMAR 13.07.26
					SCALE	1:5
					SHEET	1 OF 1
					Wt.(kg)	0.69
					DRG No.	845-27083
					ALT	0

PROFILE

बी ई एम एल BANGALORE COMPLEX

BEML Beyond Possibilities

- NOTES
1. ALL DIMENSIONS ARE IN mm.

2. REMOVE ALL SHARP EDGES & BURRS.

3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.

4. SHOWN SURFACE SHALL BE PAINTED TO RAL9016, 30% GLOSSINESS / STAIN.

5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

5

4

3

2

1

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063		STATUS:	PROTO/PRODUCTION			
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3					INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5				

1150

45

REFER NOTE-4

72.5

1

116

284

116

284

116

123

19

35

20

45

72.5

1

3

(x6)

SECTION B-B

1:2

1

2

(x2)

ISOMETRIC VIEW

22.5

35

20

2

(x2)

1

SECTION A-A

1:2

UN CONTROLLED

3	6	BOLLHOFF 343 48 050 020	RIVET NUT	M5	SS
2	2	843-20133	SELF CLINCHING STUD	M6x20	A2-70
1	1	845-27249	PROFILE		EN AW-5754-H22

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)
					MATERIAL	
			PRODUCT	TRAIN B28		
			REF DRG	---		
			MATERIAL	ASSY		
			HEAT TREAT.		APPD	KRISHNA PRASAD 13.07.26
			SURFACE TREAT.		REVD	KRISHNA PRASAD 13.07.26
			TITLE		CHKD	SANTOSH KUMAR 13.07.26
					DRWN	SANTOSH KUMAR 13.07.26
					SCALE	1:5
					SHEET	1 OF 1
					Wt.(kg)	1.28
					DRG No.	845-27084
					ALT	0

PROFILE

बी ई एम एल BANGALORE COMPLEX

ALT

0

NOTES

1. ALL DIMENSIONS ARE IN mm.

2. REMOVE ALL SHARP EDGES & BURRS.

3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.

4. SHOWN SURFACE SHALL BE PAINTED TO RAL9016, 30% GLOSSINESS / STAIN.

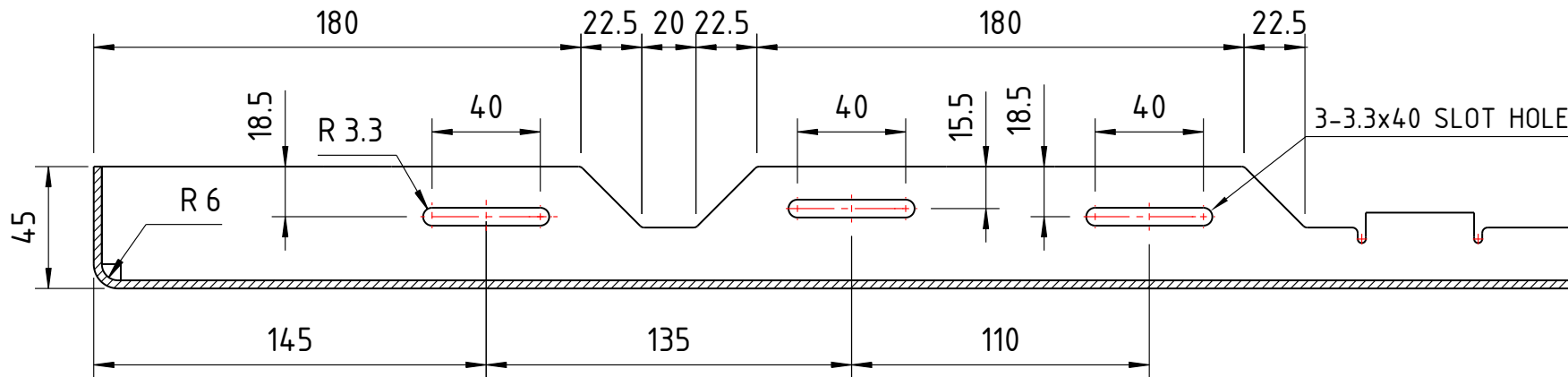
5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

A3

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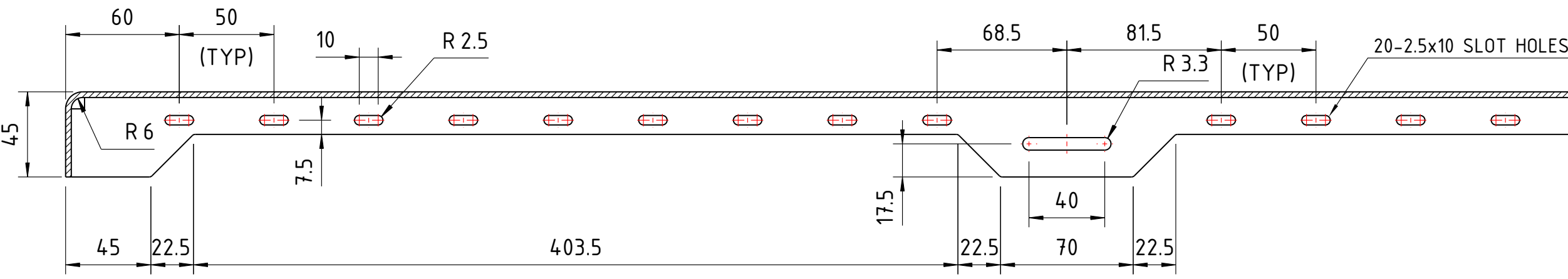
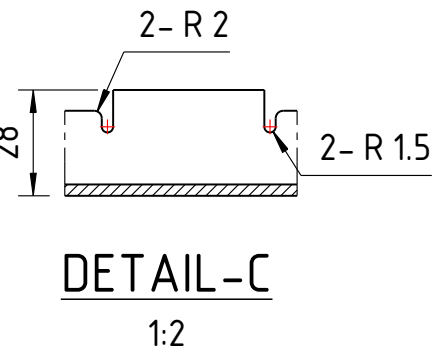
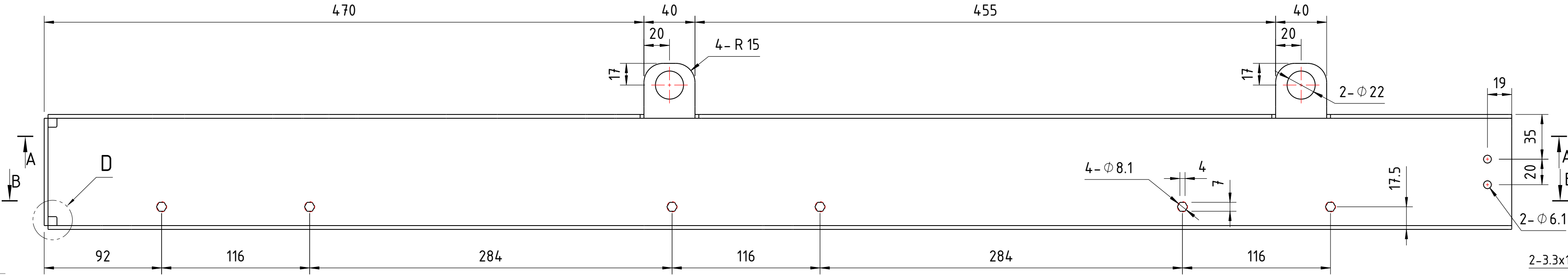
GRADE No.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12
VALUE	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
SYMBOL												
SURFACE ROUGHNESS												

		2					1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000	
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2					
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.					
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-6063			STATUS:	PROTO/PRODUCTION			
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817										
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3										
					INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



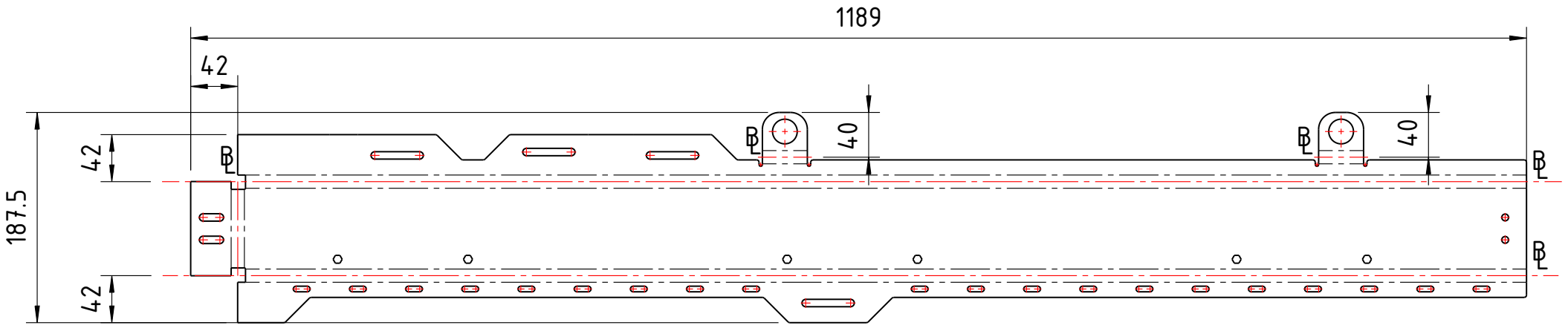
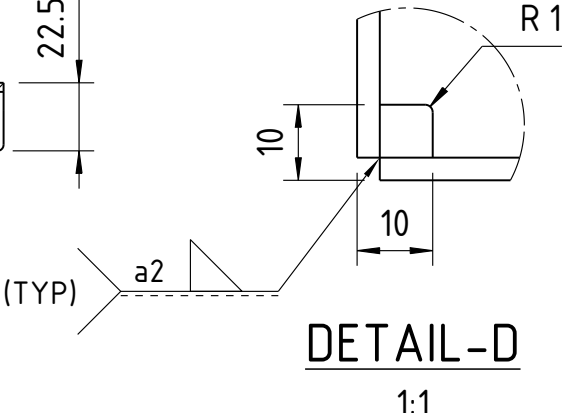
SECTION A-A

2:5



SECTION B-B

2:5



DEVELOPED VIEW WITH BENDING LINE DETAILS

NOTES

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. ALL WELD AREAS SHALL BE PASSIVATED.
5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

ISOMETRIC VIEW

---		1189x188x3THK			
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S
			MATERIAL		
			Wt. (Kg)		
			MATERIAL		
			TRAIN B28		
			REF DRG		
			EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209		
			MATERIAL		
			HEAT TREAT.		
			SURFACE TREAT.		
			TITLE		
			PROFILE		
			SCALE		
			2:5		
			SHEET		
			1 OF 1		
			Wt.(kg)		
			1.26		
			ALT		
			0		
			BANGALORE COMPLEX		
			845-27249		
			DRG No.		
			0		
			A2		

5

4

3

2

1

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS
CLASS - MEDIUM

RANGE

0.5 - 3

3 - 6

6 - 30

30 - 120

120 - 400

400 - 1000

1000 - 2000

2000 - 4000

TOLERANCE

±0.1

±0.1

±0.2

±0.3

±0.5

±0.8

±1.2

±2

GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1

GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2

GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920

VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.

WELDING SHALL BE CARRIED OUT AS PER EN 15085-3

WELDING PROCESS SHALL BE AS PER EN ISO-4063

WELDING SYMBOLS SHALL BE AS PER EN ISO-2553

WELDING POSITIONS SHALL BE AS PER EN ISO 6947

QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817

STATUS: **PROTO/PRODUCTION**

WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3

INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5

915

45

REFER NOTE-4

19

A

A

1

22.5

25

20

2

(x2)

1

SECTION A-A

1:2

2

(x2)

1

ISOMETRIC VIEW

UN CONTROLLED

2	2	843-20133	SELF CLINCHING STUD	M6x20	A2-70
1	1	845-27250	PROFILE		EN AW-5754-H22

SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)
						MATERIAL
△			PRODUCT	TRAIN B28		
			REF DRG	---		
△			MATERIAL	ASSY		
			HEAT TREAT.	APPD	KRISHNA PRASAD	13.07.26
			SURFACE TREAT.	REVD	KRISHNA PRASAD	13.07.26
△			TITLE	CHKD	SANTOSH KUMAR	13.07.26
				DRWN	SANTOSH KUMAR	13.07.26
△				SCALE		SHEET
				1:5	1 OF 1	Wt.(kg)
						0.81
ALT.No.	ECN No./CHANGES	DATE	BY	CHKD	APPD	ALT
						0

PROFILE

बी ई एम एल BANGALORE COMPLEX

BEML Beyond Possibilities

DRG No.

845-27085

NOTES

1. ALL DIMENSIONS ARE IN mm.

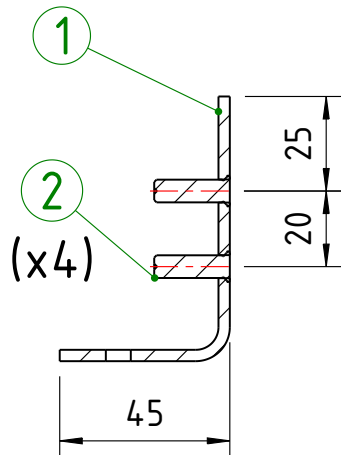
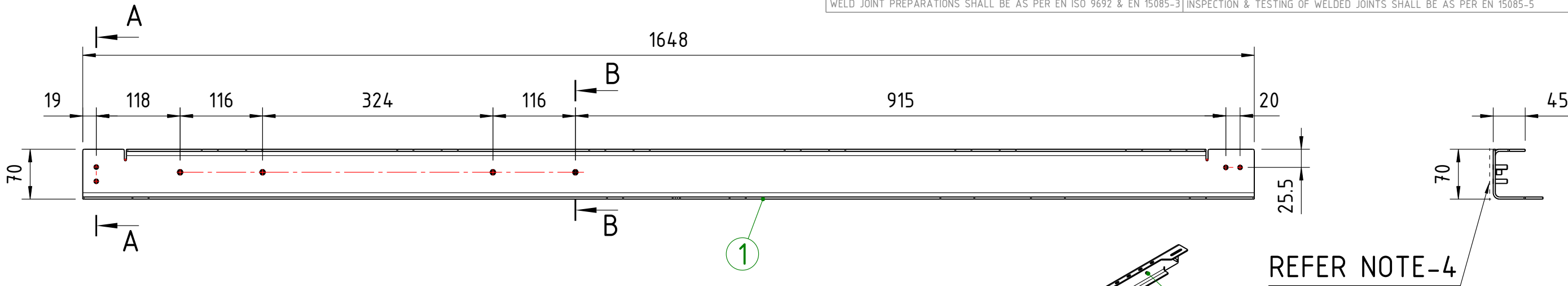
2. REMOVE ALL SHARP EDGES & BURRS.

3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.

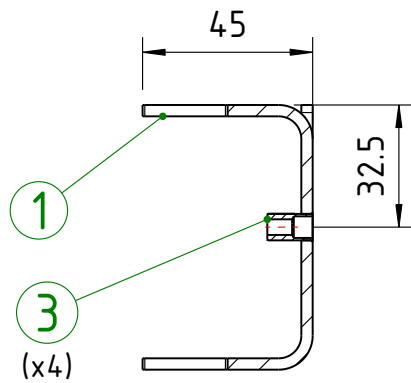
4. SHOWN SURFACE SHALL BE PAINTED TO RAL9016, 30% GLOSSINESS / STAIN.

5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

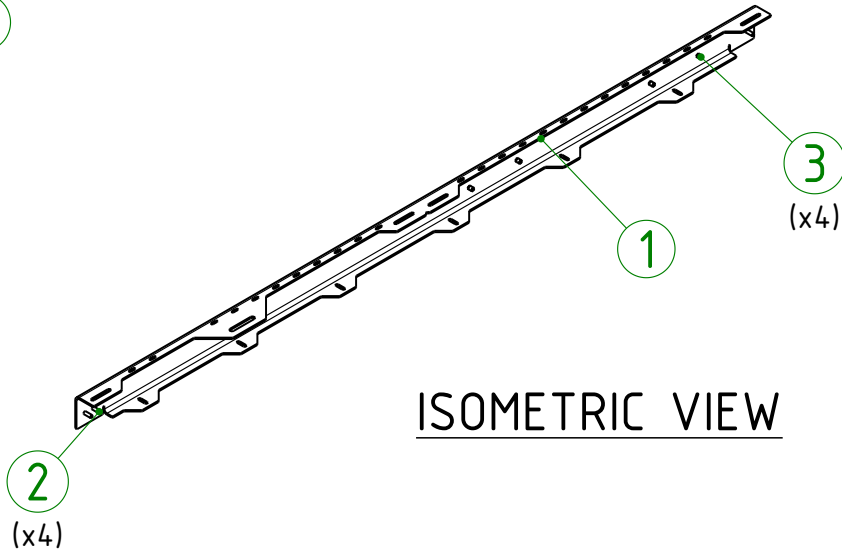
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 – 3	3 – 6	6 – 30	30 – 120	120 – 400	400 – 1000	1000 – 2000	2000 – 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3		WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS:	PROTO/PRODUCTION			
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553		WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					



SECTION A-A
1:2

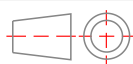


SECTION B-B
1:2



ISOMETRIC VIEW

UN CONTROLLED

3	4	BOLLHOFF 343 48 050 020	RIVET NUT		M5	SS	
2	4	843-20133	SELF CLINCHING STUD		M6x20	A2-70	
1	1	845-27251	PROFILE			EN AW-5754-H22	
SL.No.	QTY	PART / STOCK No.	DESCRIPTION		SIZE (mm)	COMPANY STD./IS Wt. (Kg)	
						MATERIAL	
					PRODUCT	TRAIN B28	
					REF DRG	---	
					MATERIAL	ASSY	
					HEAT TREAT.	---	
					SURFACE TREAT.	---	
					TITLE		
						CHKD	SANTOSH KUMAR 13.07.26
						DRWN	SANTOSH KUMAR 13.07.26
						SCALE	1:5
							SHEET 1 OF 1
							Wt.(kg) 1.52
ALT.No.	ECN No./CHANGES		DATE	BY	CHKD	APPD	DRG No. 845-27086
							

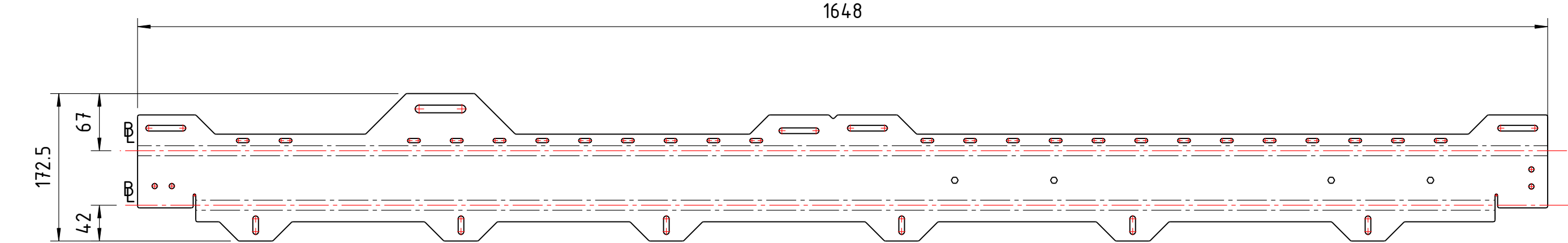
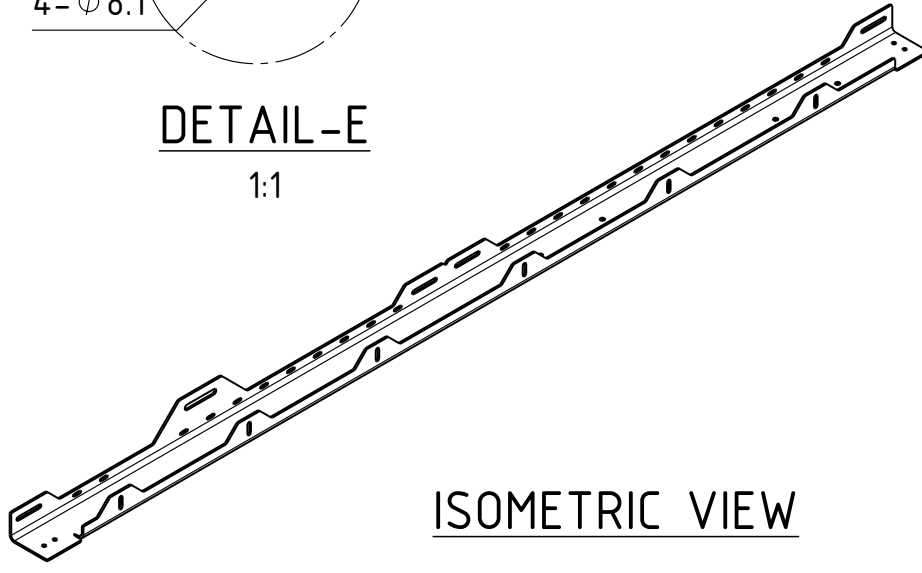
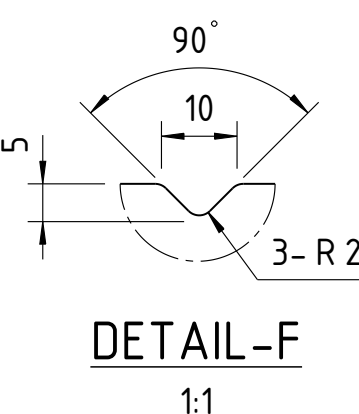
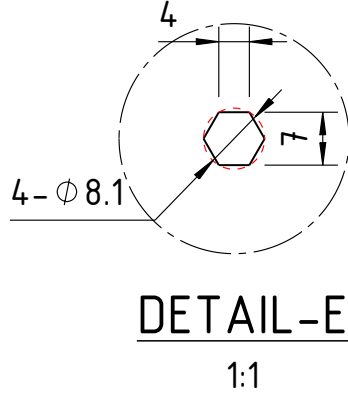
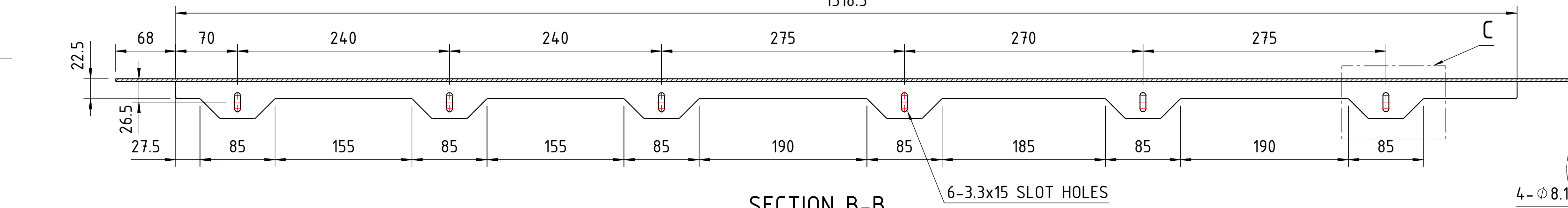
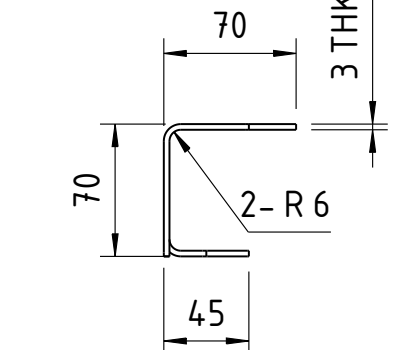
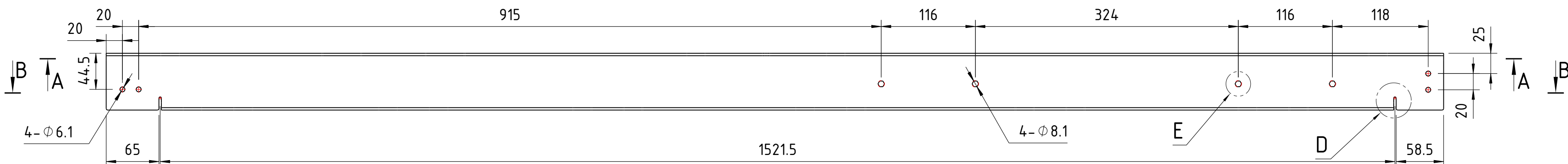
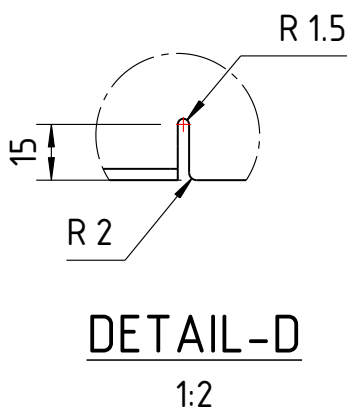
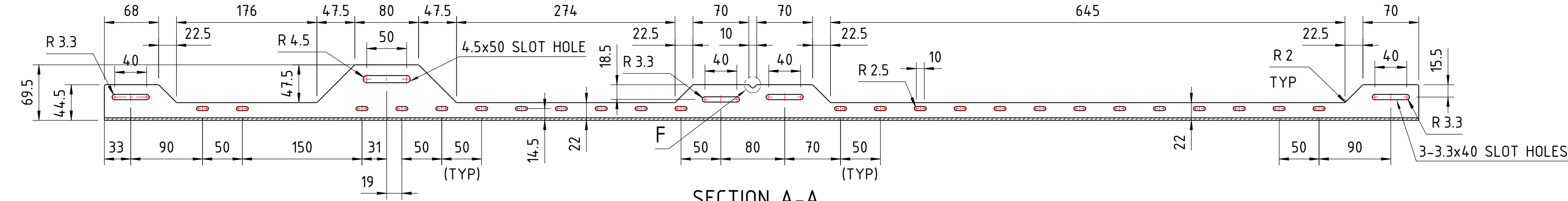
NOTES

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL9016, 30% GLOSSINESS / STAIN.
5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

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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												

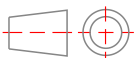
		2				1			
MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-4063			STATUS: PROTO/PRODUCTION			
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3									
INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5									



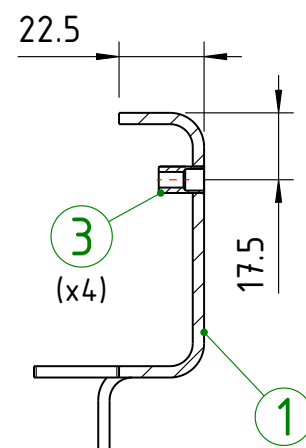
DEVELOPED VIEW WITH BENDING LINE DETAILS

UN CONTROLLED

- NOTES:
1. ALL DIMENSIONS ARE IN mm.
 2. REMOVE ALL SHARP EDGES & BURRS.
 3. COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 4. SHALL COMPLY TO TDC NO. FPIIC/TD/077.

								1648x173x3THK					
SL.No.		QTY		PART / STOCK No.		DESCRIPTION		SIZE (mm)		COMPANY STD./I.S		Wt. (Kg)	
										MATERIAL			
						PRODUCT		TRAIN B28					
						REF DRG		--					
						MATERIAL		EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209					
						HEAT TREAT.		--		APPD		KRISHNA PRASAD 17.07.26	
						SURFACE TREAT.		--		REVCD		KRISHNA PRASAD 17.07.26	
						TITLE				CHKD		SANTOSH KUMAR 17.07.26	
										DRWN		SANTOSH KUMAR 17.07.26	
										SCALE		 SHEET 1 OF 1 Wt.(kg) 1.5	
ALT.No.		ECN No./CHANGES		DATE		BY		CHKD		APPD		DRG No. 845-27251	
												ALT 0	
3												1	

SURFACE
ROUGHNESS



SECTION B-B
1:2

UN CONTROLLED

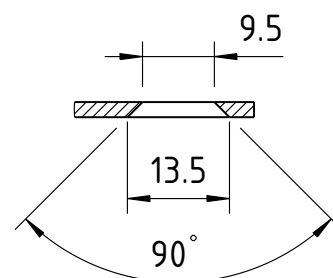
1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL9016, 30% GLOSSINESS / STAIN.
5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

[illegible]

Technical drawing of a square frame structure. The overall dimensions are 204 (width) and 194 (height). The inner dimensions are 184 (width) and 174 (height). The frame is composed of four corner details, each labeled "4 - R 10". The corner details are shown in a cross-section view, indicating a 10-unit radius. The frame is supported by two vertical supports, each labeled "A".

2 THK

REFER NOTE-4



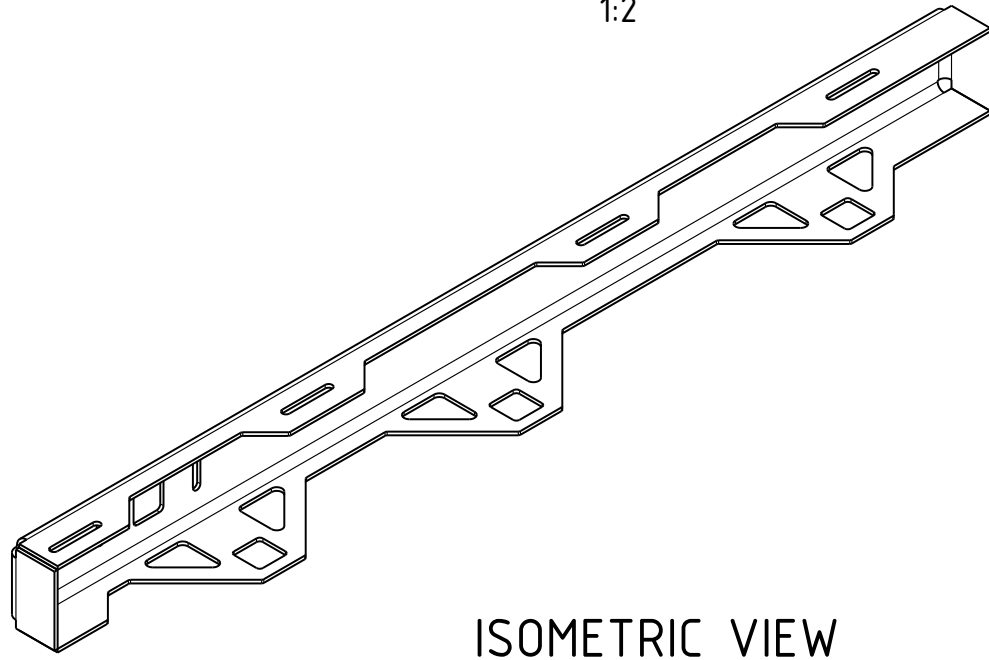
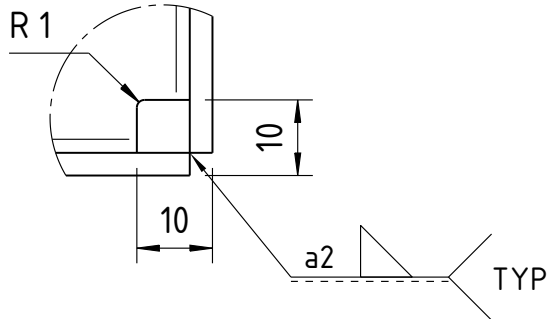
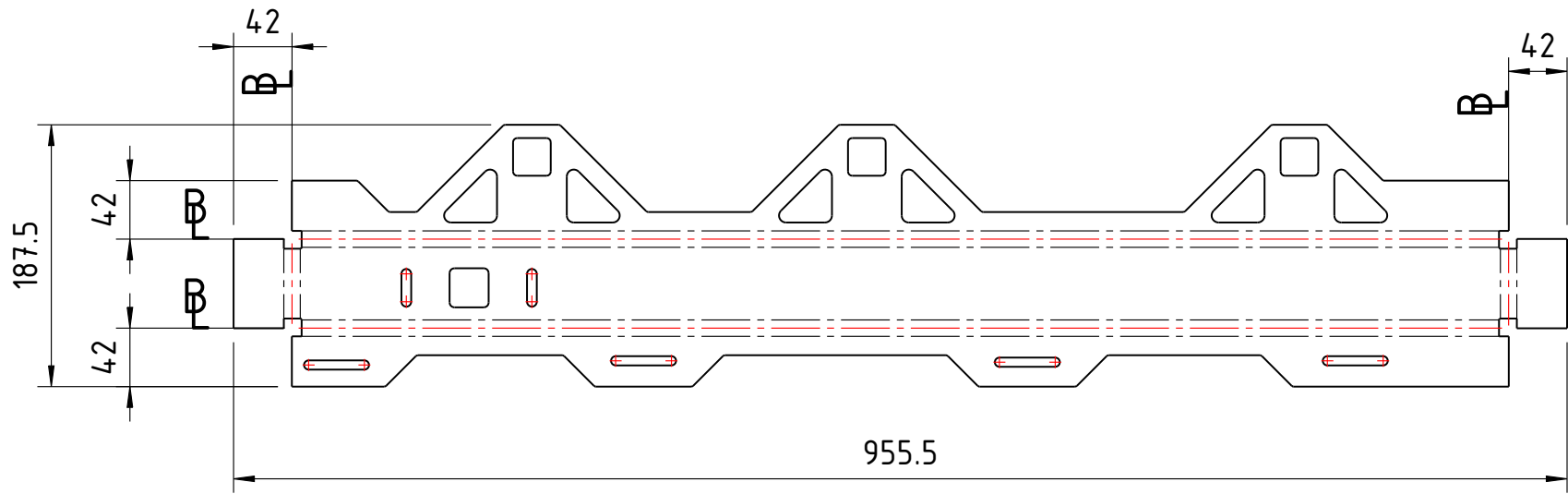
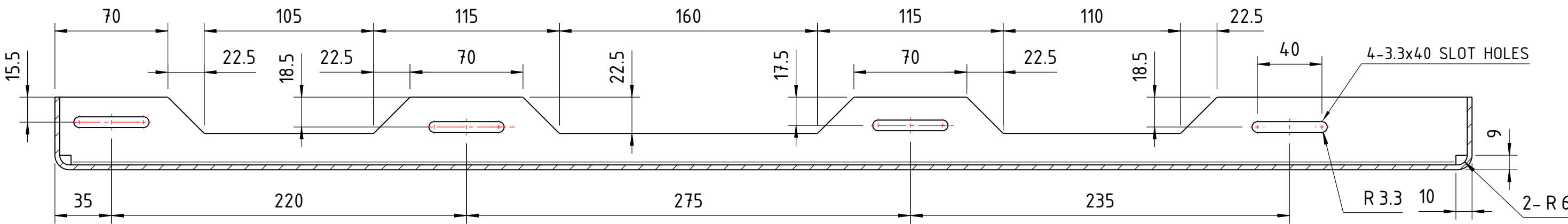
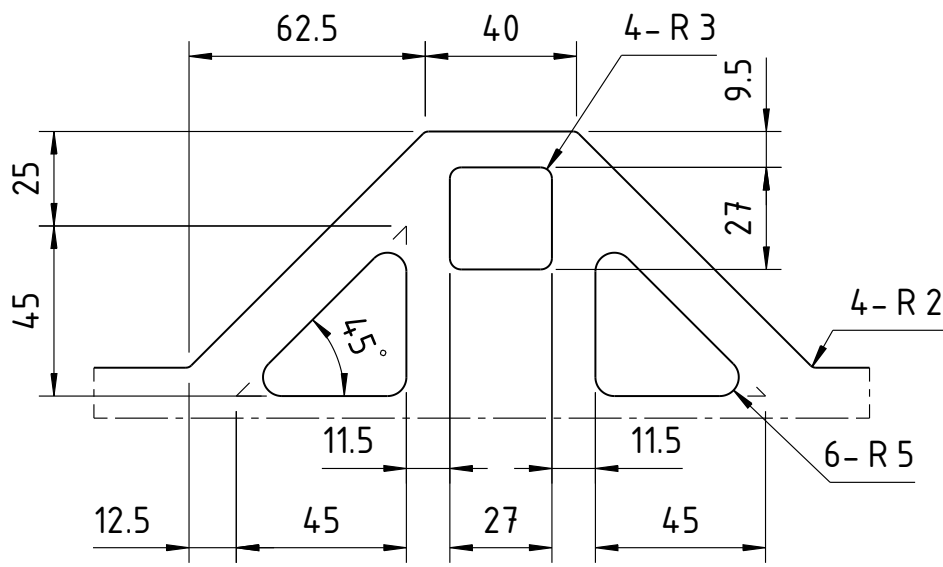
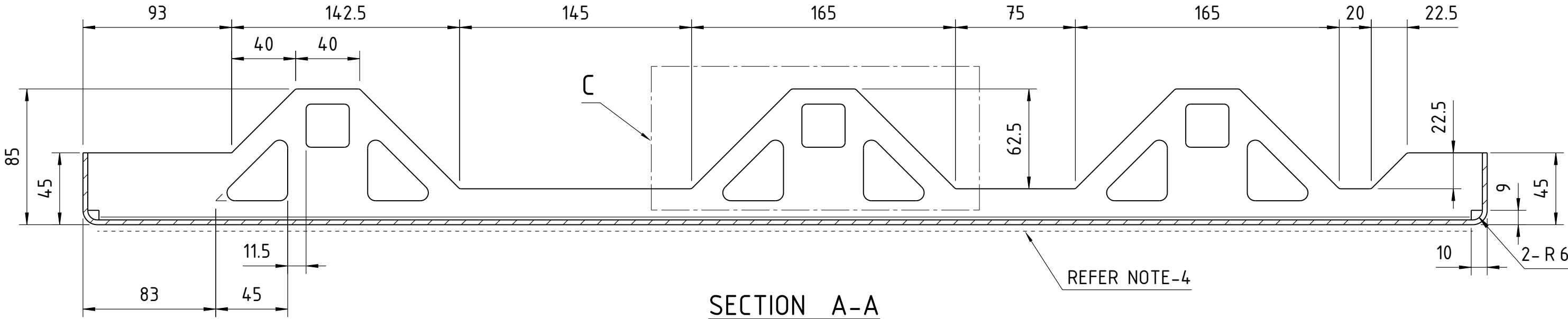
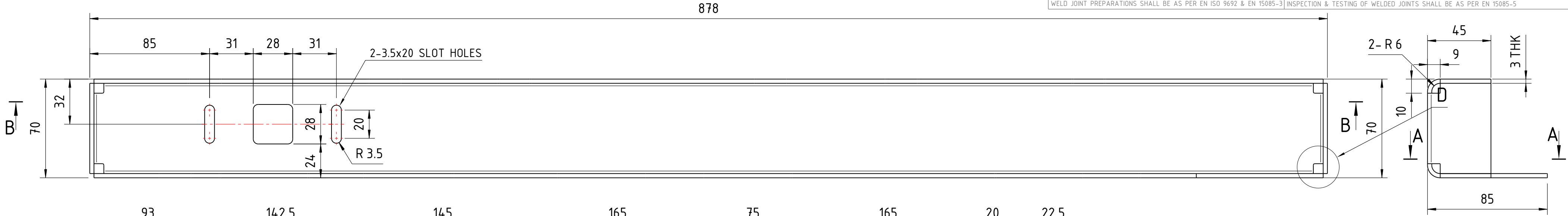
1:1

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL 9016,30% GLOSSINES / STAIN.
5. THE PART SHALL COMPLY TO TDC NO: FPIIC/TD/077.

BRACKET

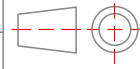
UN CONTROLLED

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-6063			STATUS:	PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3									
INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5									



- NOTES:
- ALL DIMENSIONS ARE IN mm.
 - REMOVE ALL SHARP EDGES & BURRS.
 - COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 - SHOWN SURFACE SHALL BE PAINTED TO RAL 9016, 30% GLOSSINES / SATIN.
 - SHALL COMPLY TO TDC NO. FPIIC/TD/077.
 - WELDING AREAS SHALL BE PASSIVATED.

DEVELOPED VIEW WITH BENDING LINE DETAILS

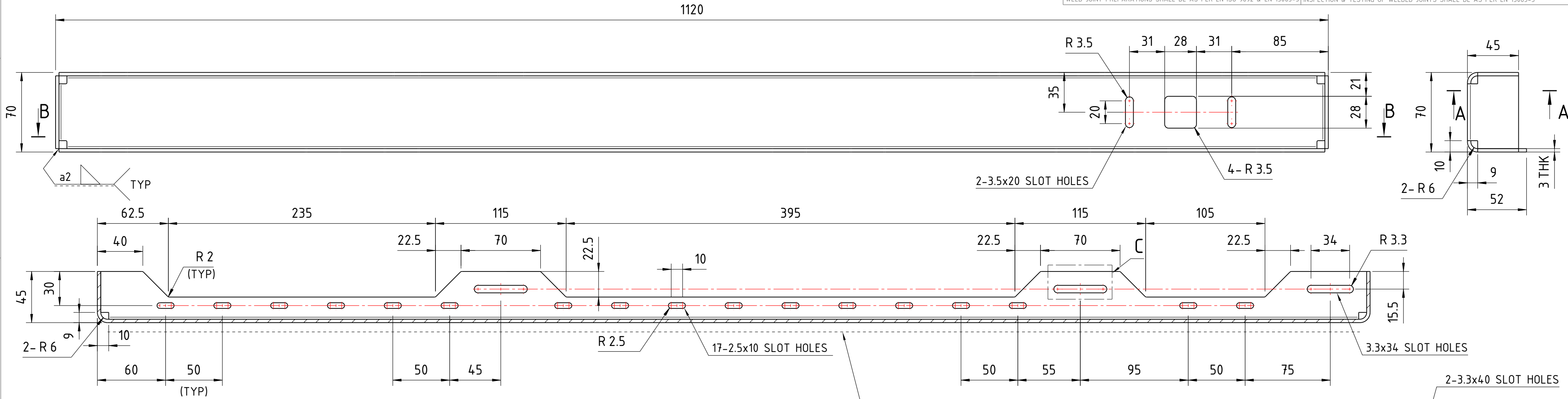
---								956x188x3THK															
SL.No.		QTY		PART / STOCK No.				DESCRIPTION				SIZE (mm)				COMPANY STD./I.S		Wt. (Kg)					
																MATERIAL							
								PRODUCT		TRAIN B28													
								REF DRG		--													
								MATERIAL		EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209													
								HEAT TREAT.		--				APPD		KRISHNA PRASAD		11.06.26					
								SURFACE TREAT.		--				REVD		KRISHNA PRASAD		11.06.26					
								TITLE		PROFILE													
										CHKD				SANTOSH KUMAR				11.06.26					
										DRWN				SANTOSH KUMAR				11.06.26					
										SCALE						SHEET		Wt.(kg)					
										1:5						1 OF 1		0.94					
										DRG No.								ALT					
ALT.No.		ECN No./CHANGES				DATE		BY		CHKD		APPD		 BANGALORE COMPLEX				845-27160					

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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												

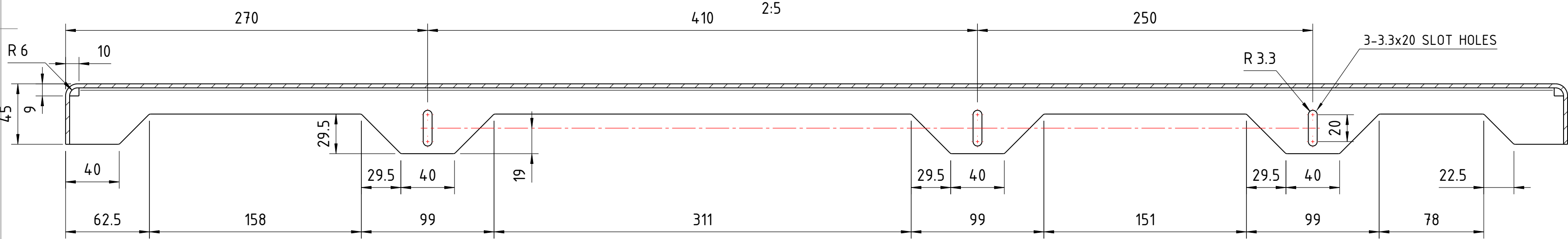
UN CONTROLLED

MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2
GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1					GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2				
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920					VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.				
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3			WELDING PROCESS SHALL BE AS PER EN ISO-6063			STATUS:	PROTO/PRODUCTION		
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553			WELDING POSITIONS SHALL BE AS PER EN ISO 6947						
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3					INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5				



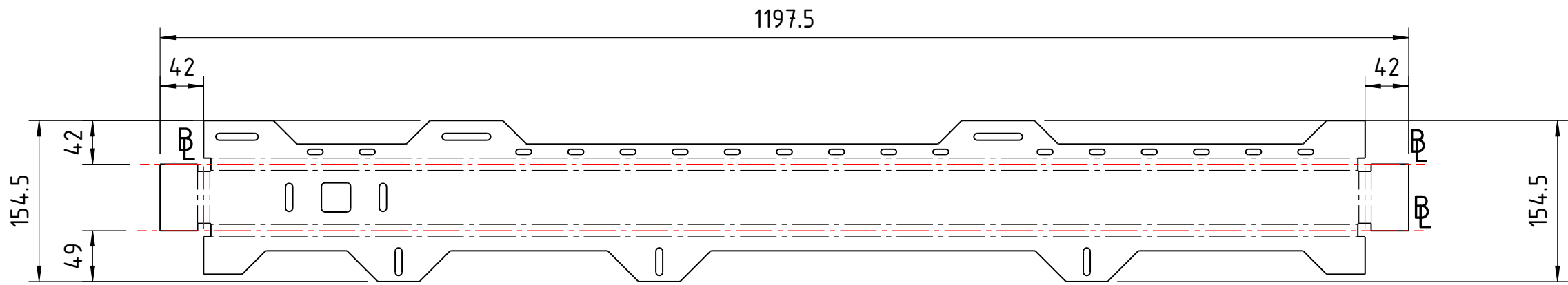
SECTION A-A

REFER NOTE-4



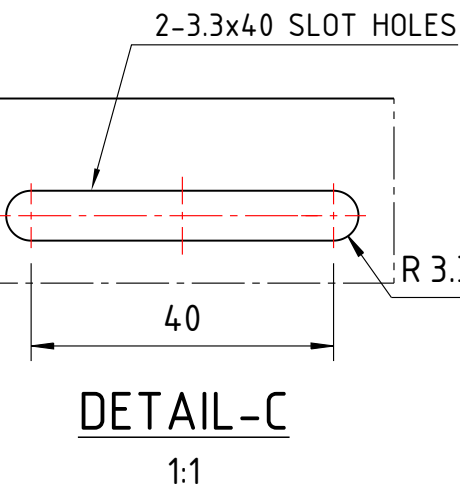
SECTION B-B

2:5



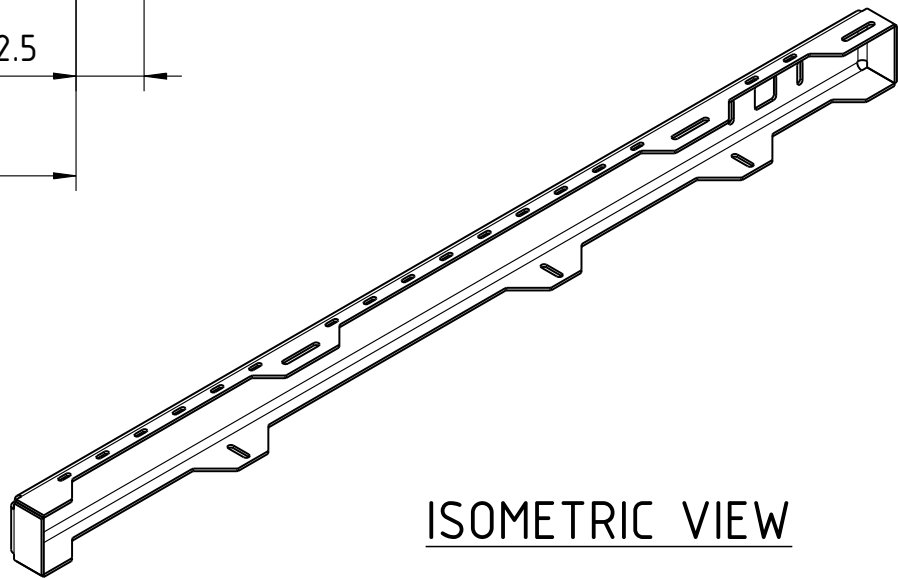
NOTES

1. ALL DIMENSIONS ARE IN mm.
2. REMOVE ALL SHARP EDGES & BURRS.
3. COMPLETE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
4. SHOWN SURFACE SHALL BE PAINTED TO RAL9016, 30% GLOSSINESS / STAIN.
5. THE PART SHALL COMPLY TO TDC NO: FPIC/TD/077.
6. WELDING AREAS SHALL BE PASSIVATED.

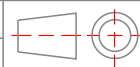


DETAIL-C

1:1

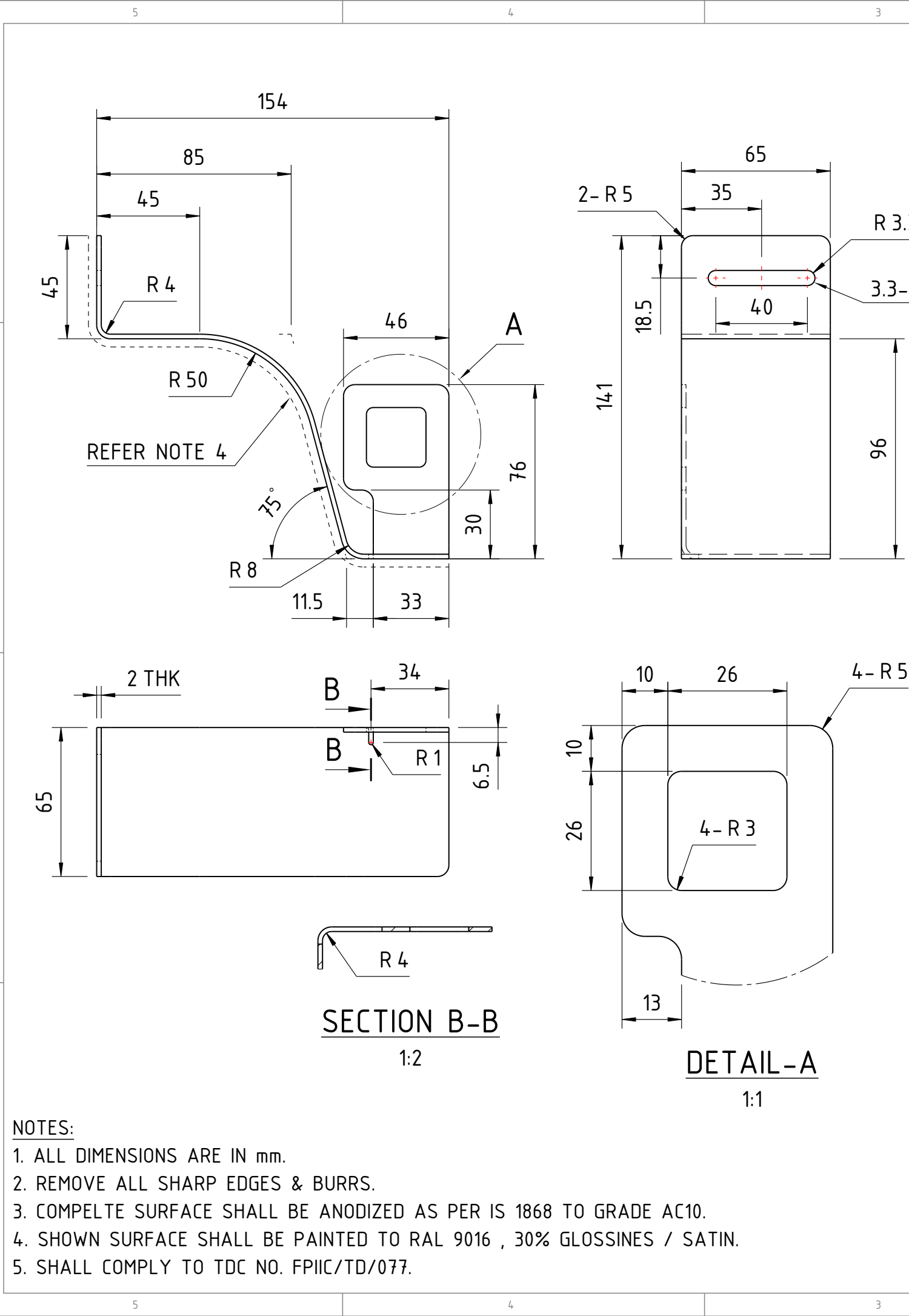


ISOMETRIC VIEW

		---						1198x155x3THK					
SL.No.		QTY		PART / STOCK No.		DESCRIPTION		SIZE (mm)		COMPANY STD./I.S		Wt. (Kg)	
										MATERIAL			
										PRODUCT		TRAIN B28	
										REF DRG		--	
										MATERIAL		EN- AW-5754-H22, EN 485 / A5052-H32, ASTM B 209	
										HEAT TREAT.		--	
										SURFACE TREAT.		--	
										TITLE			
										PROFILE			
										CHKD		SANTOSH KUMAR	
										DRWN		SANTOSH KUMAR	
										SCALE			
										2:5		SHEET	
										DRG No.		1 OF 1	
										ALT			
ALT.No.		ECN No./CHANGES		DATE		BY		CHRD		APPD		0	



845-27165



MACHINING DEVIATIONS FOR LINEAR DIMENSIONS CLASS - MEDIUM	RANGE	0.5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000
	TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2

GENERAL TOLERANCES FOR LINEAR & ANGULAR DIMENSION SHALL BE AS PER ISO 2768-1				GENERAL GEOMETRICAL TOLERANCES SHALL BE AS PER ISO 2768-2					
GENERAL TOLERANCES FOR WELDED STRUCTURE SHALL BE AS PER ISO 13920				VALUES OF SURFACE TEXTURE SHALL BE AS PER ISO 1302.					
WELDING SHALL BE CARRIED OUT AS PER EN 15085-3		WELDING PROCESS SHALL BE AS PER EN ISO-4063		STATUS:		PROTO/PRODUCTION			
WELDING SYMBOLS SHALL BE AS PER EN ISO-2553		WELDING POSITIONS SHALL BE AS PER EN ISO 6947							
QUALITY LEVELS FOR IMPERFECTIONS IN FUSION WELDED JOINTS SHALL BE AS PER EN ISO 5817									
WELD JOINT PREPARATIONS SHALL BE AS PER EN ISO 9692 & EN 15085-3				INSPECTION & TESTING OF WELDED JOINTS SHALL BE AS PER EN 15085-5					

UN CONTROLLED

ISOMETRIC VIEW

DEVELOPED VIEW WITH BENDING LINE DETAILS

				255X137X2THK				
SL.No.	QTY	PART / STOCK No.		DESCRIPTION	SIZE (mm)	COMPANY STD./I.S	Wt. (Kg)	
				MATERIAL				
				PRODUCT	TRAIN B28			
				REF DRG	---			
				MATERIAL	EN AW-5754-H22, EN 485 / A5052-H32, ASTM B 209			
				HEAT TREAT.	APPD	KRISHNA PRASAD	13.07.26	
				SURFACE TREAT.	REVD	KRISHNA PRASAD	13.07.26	
				TREAT. TITLE	CHKD	SANTOSH KUMAR	13.07.26	
				BRACKET		DRWN	SANTOSH KUMAR	13.07.26
				SCALE		SHEET		
				1:2		1 OF 1		
				DRG No.		845-27269		
				BANGALORE COMPLEX		ALT		
						0		

ALT.No.

ECN No./CHANGES

DATE

BY

CHKD

APPD

- NOTES:
- ALL DIMENSIONS ARE IN mm.
 - REMOVE ALL SHARP EDGES & BURRS.
 - COMPELTE SURFACE SHALL BE ANODIZED AS PER IS 1868 TO GRADE AC10.
 - SHOWN SURFACE SHALL BE PAINTED TO RAL 9016 , 30% GLOSSINES / SATIN.
 - SHALL COMPLY TO TDC NO. FPIIC/TD/077.