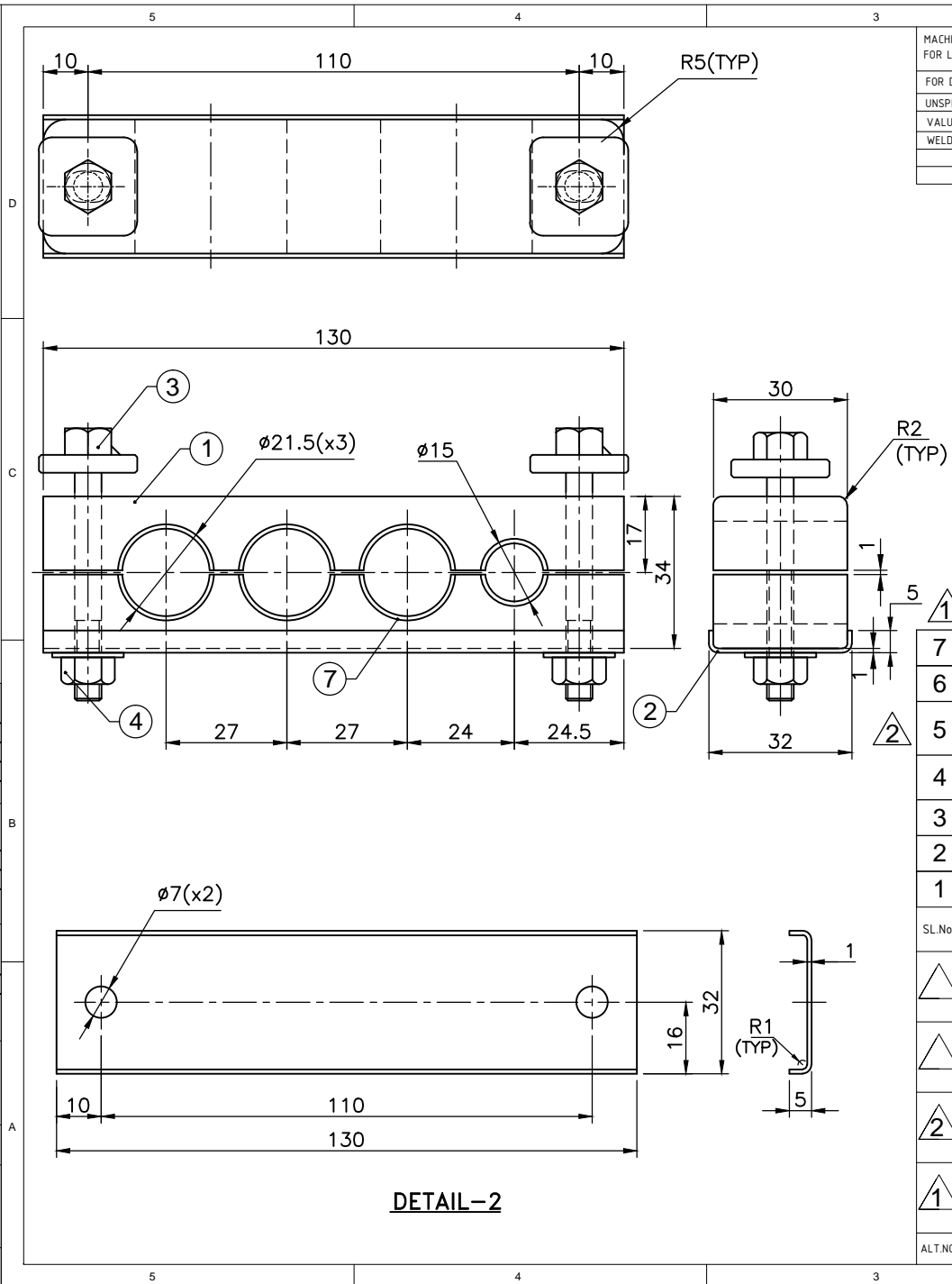
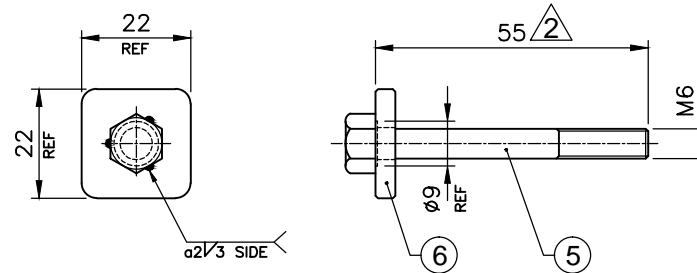


GRADE No.	N12	N11	N10	N9	N8	N7	N6	N5	N4	N3	N2	N1
VALUE	50	25	12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05	0.025
SYMBOL												



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







DETAIL-3

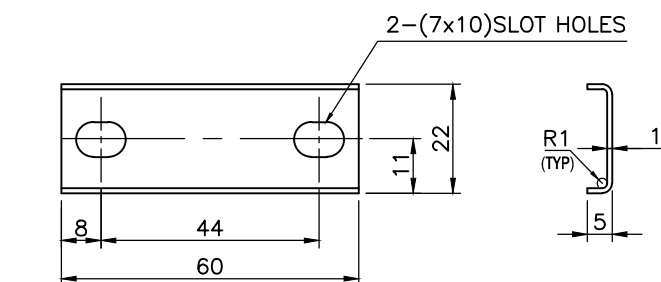
UNCONTROLLED

NOTE:

1. REMOVE ALL SHARP EDGES
2. FOR CLEATS Min TENSILE STRENGTH: 65 N/mm²
3. BURNING RESISTANCE : SELF EXTINGUISH.

7	8		PROTECTIVE RUBBER	t1	EPDM		
6	2	555-56360	PAD				
5	2	RFB1420655	HEX.HD.BOLT M6x55 TO IS:1364(Pt-3)-2002/ Matl.: -IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL WITH PRE APPLIED ADHESIVE				
4	2	RFN5540652	HEX. NUT WITH FLANGE M6 TO ISO 7044-83/ Matl.: -IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL				
3	2		T-BOLT ASSY		ASSY		
2	1		PLATE	t1	AISI 304		
1	2		CLEAT		NYLON6		
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I/S	Wt. (Kg)	
						MATERIAL	
			PRODUCT	KMRC RS(3R) PROJECT			
			REF DRG	CP660409-400			
			MATERIAL				
			HEAT TREAT.	APPD	KCS		
			SURFACE TREAT.	REVD			
			TITLE	CHKD	SNH		
2	ITEM-5 LENGTH 55mm WAS 50mm ECN:94210271	25.04.19 VISHNU SNH VS	CLEAT ASSY, SQ95x3XSQ35	DRWN	JAGADISH	29.8.16	
1	ITEM-7 ADDED ECN:94210217	14.03.18 VISHNU SNH APPD KCS		SCALE		SHEET OF	Wt.(Kg) 0
ALT.NO.	ECN NO/CHANGES	DATE		DRG No.			ALT
				BEML LIMITED			942-56145
						2	

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												



NOTE:

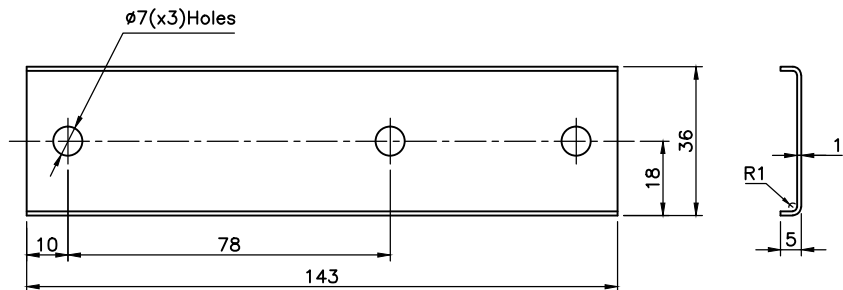
1. REMOVE ALL SHARP EDGES
2. FOR CLEATS Min TENSILE STRENGTH: 65 N/mm²
3. BURNING RESISTANCE : SELF EXTINGUISH.

1

UNCONTROLLED

7	2	555-56360	PAD			
6	2		T-BOLT ASSY			ASSY
5	2	RFN5540652	HEX. NUT WITH FLANGE M6 TO ISO 7044-83/ Matl.: -IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL			
4	2	RFB1420670	HEX.HD.BOLT M6x70 IS:1364(Pt-3)-2002/ Matl.: -IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL WITH PRE APPLIED ADHESIVE			
3	1	926-56127-3	PAD			ASI 304
2	1	926-56127-2	CLEAT			NYLON6
1	1	926-56127-1	CLEAT			NYLON6
SL.No.	QTY	PART / STOCK No.	DESCRIPTION		SIZE	COMPANY STD./IS Wt. (Kg)
						MATERIAL
				PRODUCT	BMRCL METRO CARS	
				REF DRG		
				MATERIAL		
				HEAT TREAT.	APPD	KCS
				SURFACE TREAT.	REV'D	
				TITLE	CHKD	SNH
					DRWN	KIRAN
					SCALE	
						SHEET OF
						Wt. (Kg)
						0
					DRG No.	ALT
						1

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												










DETAIL-2

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

NOTE:

1. REMOVE ALL SHARP EDGES
2. FOR CLEATS Min TENSILE STRENGTH: 65 N/mm²
3. BURNING RESISTANCE : SELF EXTINGUISH.

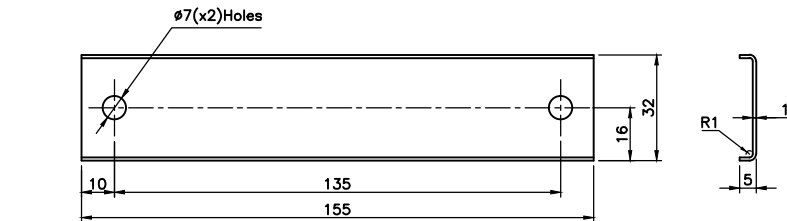
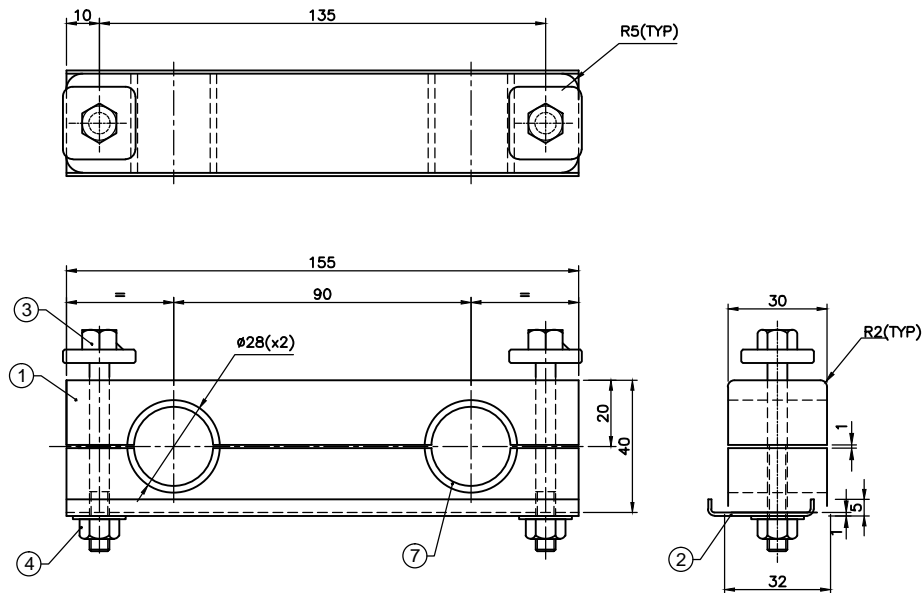
UNCONTROLLED

5	3	RFB3840655	HEX.FLANGE.BOLT FULL THREAD M6x55 TO ISO:4162/ Matl: IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL			
4	3	RFN5540652	HEX. NUT WITH FLANGE M6 TO ISO 7044-83/ Matl:IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL			
3	6		PROTECTIVE RUBBER	t1	EPDM	
2	1		PLATE	t1	AISI 304	
1	2		CLEAT		NYLON6	
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./S Wt. (Kg)	
			MATERIAL			
			PRODUCT	BMRCL METRO CARS		
			REF DRG			
			MATERIAL			
			HEAT TREAT.	APPD	KCS	
			SURFACE TREAT.	REVD		
			TITLE	CHKD	SNH	
			CLEAT ASSY SQ70xSQ185xMR Hose	DRWN	VISHNU	
				SCALE		SHEET Wt.(Kg)
				DRG No.	OF	0
ALT.NO.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	
			 BEM LIMITED <small>NEW HYDRAULIC NEW SYSTEM</small>			
			926-56139		ALT	

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GRADE No.	NT1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12	ALT
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

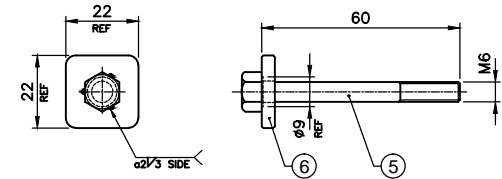


DETAIL-2

NOTE:

1. REMOVE ALL SHARP EDGES
2. FOR CLEATS Min TENSILE STRENGTH: 65 N/mm²
3. BURNING RESISTANCE : SELF EXTINGUISH.







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



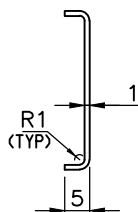
DETAIL-3

UNCONTROLLED

7	4		PROTECTIVE RUBBER	t2	EPDM
6	2	555-56360	PAD		
5	2	RFB1420660	HEX.HD.BOLT M6x60 TO IS:1364(Pt-3)-2002/ Matl.: -IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL WITH PRE APPLIED ADHESIVE		
4	2	RFN5540652	HEX. NUT WITH FLANGE M6 TO ISO 7044-83/ Matl.: -IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL		
3	2		T-BOLT ASSY		ASSY
2	1		PLATE	t1	AISI 304
1	2		CLEAT		NYLON6
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I/S MATERIAL
△			PRODUCT	BMRCL METRO CARS	
△			REF DRG		
△			MATERIAL		
△			HEAT TREAT.	APPD	KCS
△			SURFACE TREAT.	REVD	
△			TITLE	CHKD	SNH
△				DRWN	VISHNU
△				SCALE	20.12.18
△				SHEET	0
△				OF	
ALT.No.	ECN No./CHANGES	DATE	BY	CHKD	APPD
			beml BEML LIMITED		
			926-56180		
			ALT		

4	2	926-56198-4	T BOLT ASSY				AISI 304					
3	2	RFN5541084	HEX. NUT WITH FLANGE M10 TO ISO:7044-83/ Matl: IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL									
2	1	926-56198-2	PLATE				t1		AISI 304			
1	2	926-56198-1	CLEAT						NYLON6			
SL.No.	QTY	PART / STOCK No.		DESCRIPTION				SIZE	COMPANY STD./I.S		Wt. (Kg)	
								MATERIAL				
						PRODUCT		BMRCL METRO CARS				
						REF DRG						
						MATERIAL						
						HEAT TREAT.		APPD		VS		
						SURFACE TREAT.		REVD				
						TITLE		CHKD		SNH		
						CLEAT ASSY, SPC-M		DRWN		VISHNU		
								SCALE				SHEET Wt.(Kg)
										OF		
ALT.NO.		ECN NO/CHANGES		DATE	BY	CHKD	APPD	DRG No.				ALT
								926-56198				






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												



DETAIL-3

1. REMOVE ALL SHARP EDGES
2. FOR CLEATS Min TENSILE STRENGTH: 65 N/mm²
3. BURNING RESISTANCE : SELF EXTINGUISH.

UNCONTROLLED

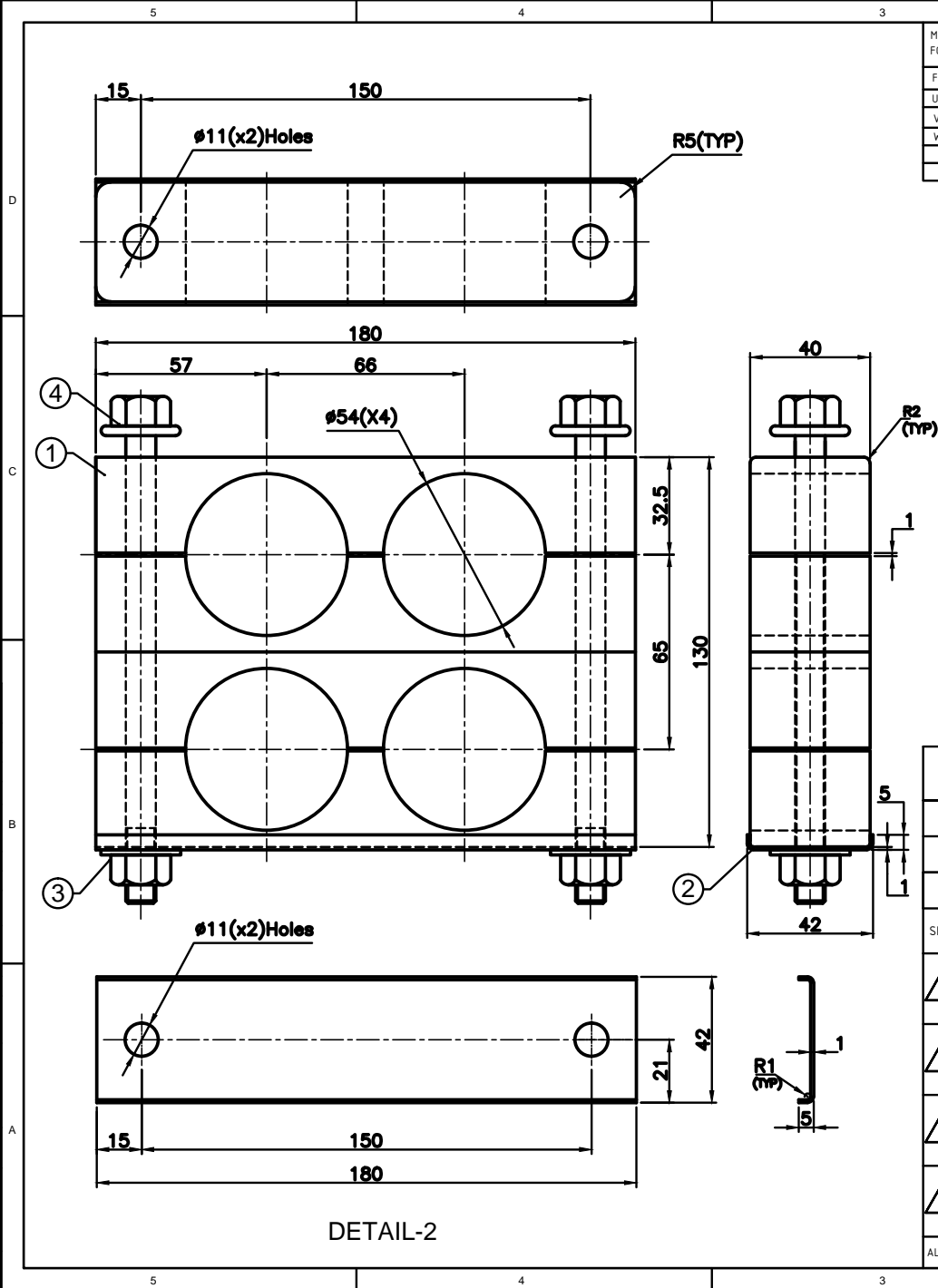
6	2	555-56360	PAD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
5	2	RFB1420665	HEX.HD.BOLT M6x70 TO IS:1364(Pt-3)-2002/ Matl:-IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL WITH PRE APPLIED ADHESIVE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
4	2	RFN5540652	HEX. 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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				

A3

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

SURFACE
ROUGHNESS



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

NOTE:

1. REMOVE ALL SHARP EDGES
2. FOR CLEATS Min TENSILE STRENGTH: 65 N/mm²
3. BURNING RESISTANCE : SELF EXTINGUISH.

UNCONTROLLED

4	2	RFB1421060	HEX.HD.BOLT M10x160 TO IS:1364(Pt-3)-2002/ Matl:-IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL WITH PRE APPLIED ADHESIVE			
3	2	RFN5540852	HEX. NUT WITH FLANGE M6 TO ISO 7044-83/ Matl:-IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL			
2	1		PLATE	t1	AISI 304	
1	2 set		CLEAT		NYLON6	
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./IS	Wt.(Kg)
			PRODUCT	KMRC RS3(R) PROJECT		
			REF DRG	CP650424-400		
			MATERIAL			
			HEAT TREAT.		APPD	KCS
			SURFACE TREAT.		REVD	
			TITLE	CLEAT ASSY, PG48x4		
			SCALE	CHKD	SNH	27.8.16
				DRWN	JAGADISH	Wt.(Kg)
				SHEET	OF	0
				DRG No.	ALT	
ALT.No.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	
			beml BEML LIMITED			942-56128

A3

GRADE No.	N12	N11	N10	N9	N8	N7	N6	N5	N4	N3	N2	N1
VALUE	50	75	12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05	0.025
SYMBOL												

NOTE:

- 1. REMOVE ALL SHARP EDGES**
- 2. FOR CLEATS Min TENSILE STRENGTH: 65 N/mm²**
- 3. BURNING RESISTANCE : SELF EXTINGUISH.**

UNCONTROLLED

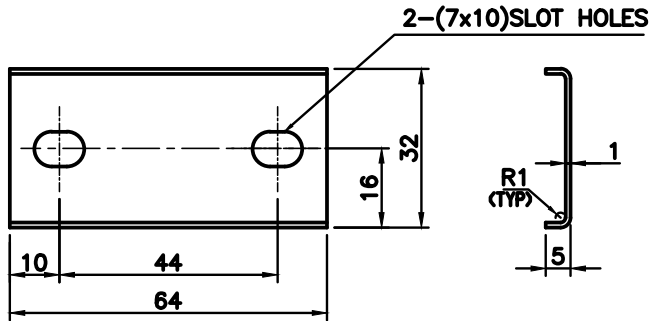
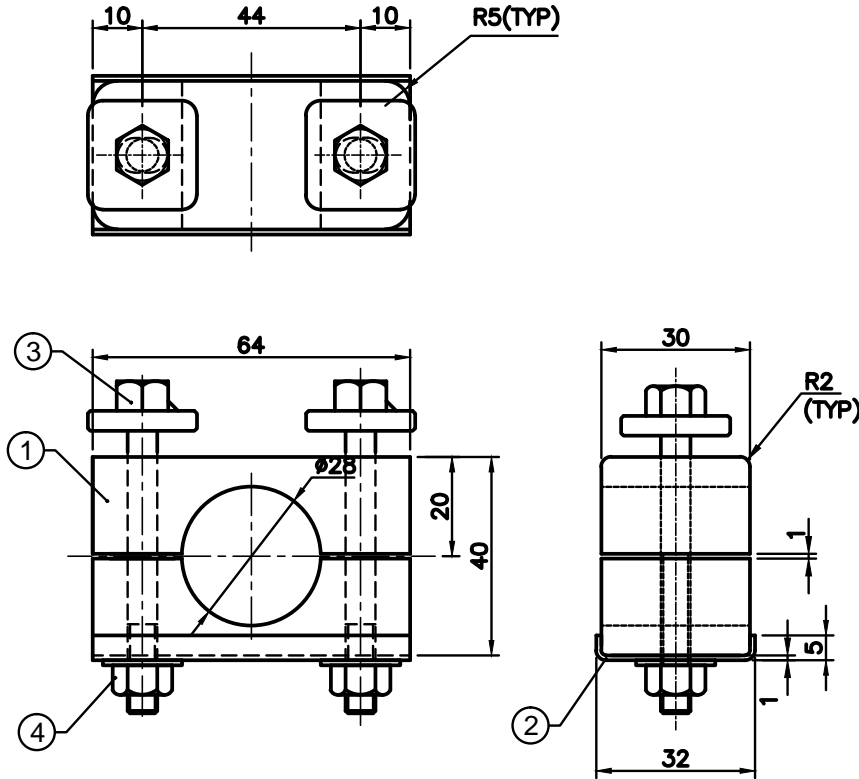
	2	1	A3
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A3

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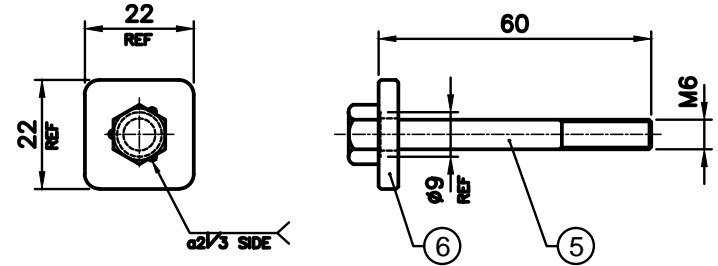
GRADE No.	NT	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12
VALUE	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50	
SYMBOL													

SURFACE
ROUGHNESS



DETAIL-2

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










DETAIL-3

NOTE:

1. REMOVE ALL SHARP EDGES
2. FOR CLEATS Min TENSILE STRENGTH: 65 N/mm²
3. BURNING RESISTANCE : SELF EXTINGUISH.

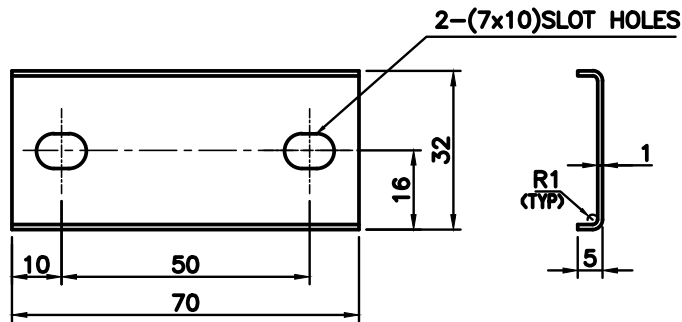
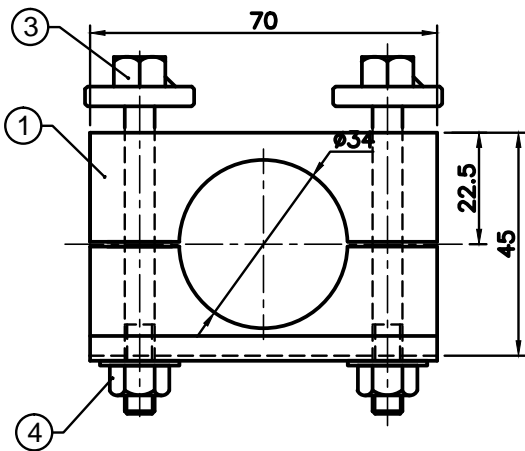
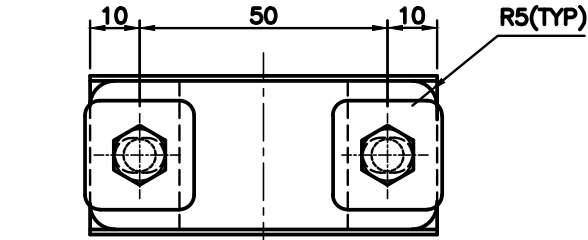
UNCONTROLLED

6	2	555-56360	PAD								
5	2	RFB1420660	HEX.HD.BOLT M6x60 TO IS:1364(Pt-3)-2002/ Matl.: -IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL WITH PRE APPLIED ADHESIVE								
4	2	RFN5540652	HEX. NUT WITH FLANGE M6 TO ISO 7044-83/ Matl.: -IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL								
3	2		T-BOLT ASSY				ASSY				
2	1		PLATE			t1	AISI 304				
1	2		CLEAT				NYLON6				
SL.No.	QTY	PART / STOCK No.		DESCRIPTION			SIZE	COMPANY STD./IS		Wt. (Kg)	
								MATERIAL			
					PRODUCT	KMRC RS3(R) PROJECT					
					REF DRG	CP60001-403					
					MATERIAL						
					HEAT TREAT.		APPD	KCS			
					SURFACE TREAT.		REVD				
					TITLE	CHKD			SNH		
					CLEAT ASSY, C-A TYPE			DRWN	JAGADISH	27.8.16	
								SCALE		SHEET	Wt.(Kg)
									OF		0
					DRG No.					ALT	
ALT.NO.	ECN NO/CHANGES		DATE	BY	CHKD	APPD		BEML LIMITED		942-56132	
											

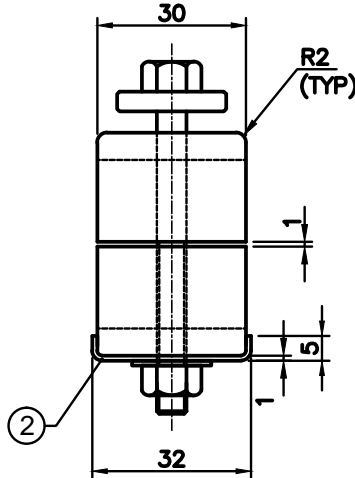
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GRADE No.	VALUE	SYMBOL
N1	0.025	▽
N2	0.05	▽
N3	0.1	▽
N4	0.2	▽
N5	0.4	▽
N6	0.8	▽
N7	1.6	▽
N8	3.2	▽
N9	6.3	▽
N10	12.5	▽
N11	25	▽
N12	50	▽

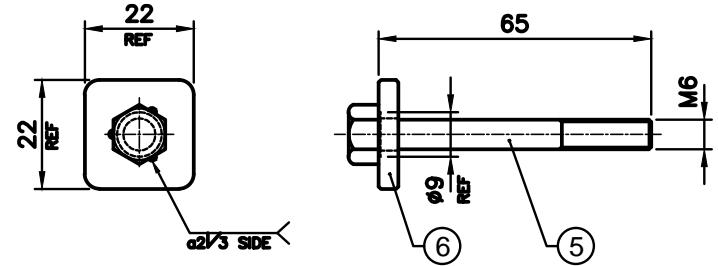
SURFACE
ROUGHNESS



DETAIL-2



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

















DETAIL-3

NOTE:

1. REMOVE ALL SHARP EDGES
2. FOR CLEATS Min TENSILE STRENGTH: 65 N/mm²
3. BURNING RESISTANCE : SELF EXTINGUISH.

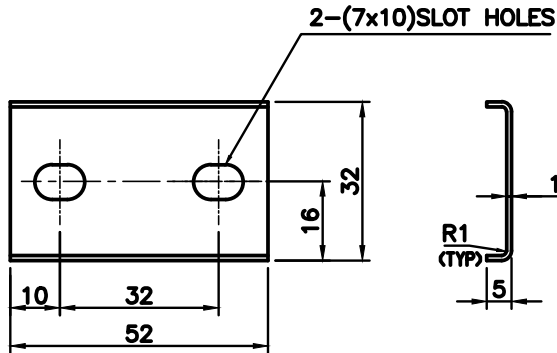
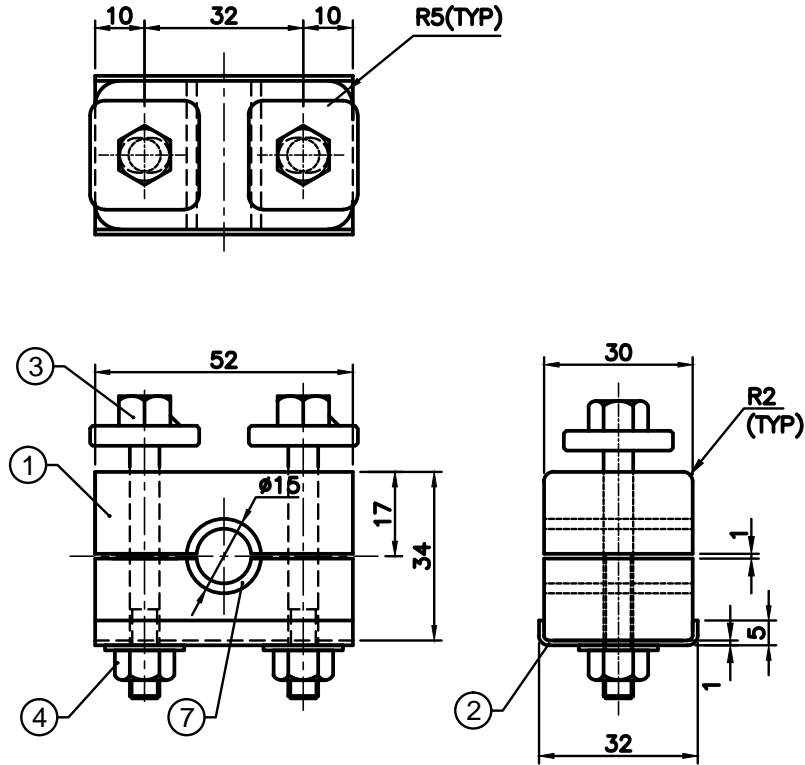
UNCONTROLLED

6	2	555-56360	PAD						
5	2	RFB1420665	HEX.HD.BOLT M6x65 TO IS:1364(Pt-3)-2002/ Matl.:--IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL WITH PRE APPLIED ADHESIVE						
4	2	RFN5540652	HEX. NUT WITH FLANGE M6 TO ISO 7044-83/ Matl.:--IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL						
3	2		T-BOLT ASSY			ASSY			
2	1		PLATE		t1	AISI 304			
1	2		CLEAT			NYLON6			
SL.No.	QTY	PART / STOCK No.		DESCRIPTION		SIZE	COMPANY STD./IS	Wt. (Kg)	
							MATERIAL		
					PRODUCT	KMRC RS3(R) PROJECT			
					REF DRG	CP60001-404			
					MATERIAL				
					HEAT TREAT.	APPD	KCS		
					SURFACE TREAT.	REVD			
					TITLE	CHKD	SNH		
					CLEAT ASSY, C-A TYPE	DRWN	JAGADISH	27.8.16	
						SCALE		SHEET	Wt.(Kg)
							OF		0
					DRG No.			ALT	
					942-56133				
ALT.NO.	ECN NO/CHANGES		DATE	BY	CHKD	APPD	BEML LIMITED		
 BEML LIMITED <small>NEW HYDRAULIC - NEW DELHI</small>									

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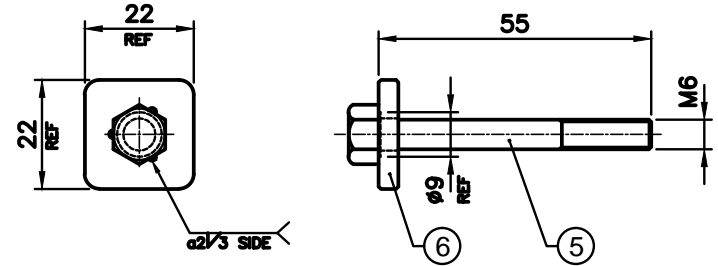
GRADE No.	VALUE	SYMBOL
N1	0.025	
N2	0.05	
N3	0.1	
N4	0.2	
N5	0.4	
N6	0.8	
N7	1.6	
N8	3.2	
N9	6.3	
N10	12.5	
N11	25	
N12	50	

SURFACE
ROUGHNESS



DETAIL-2

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










DETAIL-3

NOTE:

1. REMOVE ALL SHARP EDGES
2. FOR CLEATS Min TENSILE STRENGTH: 65 N/mm²
3. BURNING RESISTANCE : SELF EXTINGUISH.

UNCONTROLLED

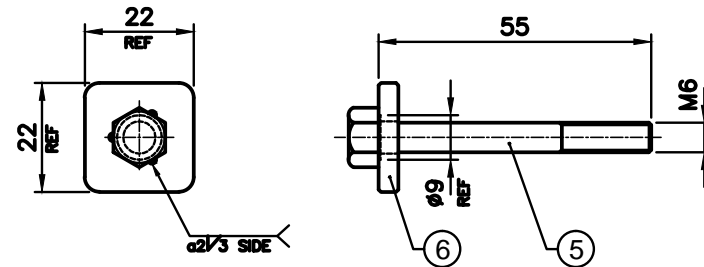
7	2		PROTECTIVE RUBBER	t2	EPDM		
6	2	555-56360	PAD				
5	2	RFB1420655	HEX.HD.BOLT M6x55 TO IS:1364(Pt-3)-2002/ Matl.: -IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL WITH PRE APPLIED ADHESIVE				
4	2	RFN5540652	HEX. NUT WITH FLANGE M6 TO ISO 7044-83/ Matl.: -IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL				
3	2		T-BOLT ASSY		ASSY		
2	1		PLATE	t1	AISI 304		
1	2		CLEAT		NYLON6		
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./IS	Wt. (Kg)	
					MATERIAL		
			PRODUCT	KMRC RS3(R) PROJECT			
			REF DRG	CP60001-420			
			MATERIAL				
			HEAT TREAT.	APPD	KCS		
			SURFACE TREAT.	REVD			
			TITLE	CHKD	SNH		
			CLEAT ASSY, C-A TYPE	DRWN	JAGADISH	27.8.16	
				SCALE		SHEET	Wt.(Kg)
					OF		0
ALT.NO.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	DRG No.	
						 BEM L LIMITED	
						942-56134	
						ALT 	



BEML LIMITED

942-56134

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

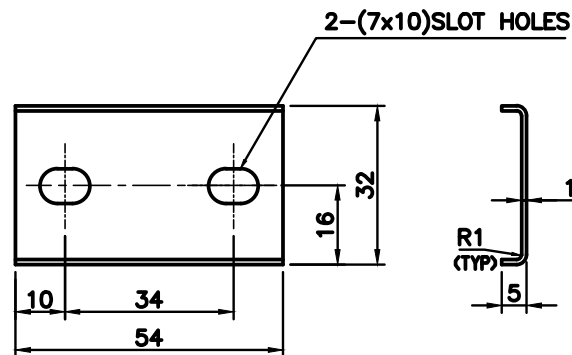
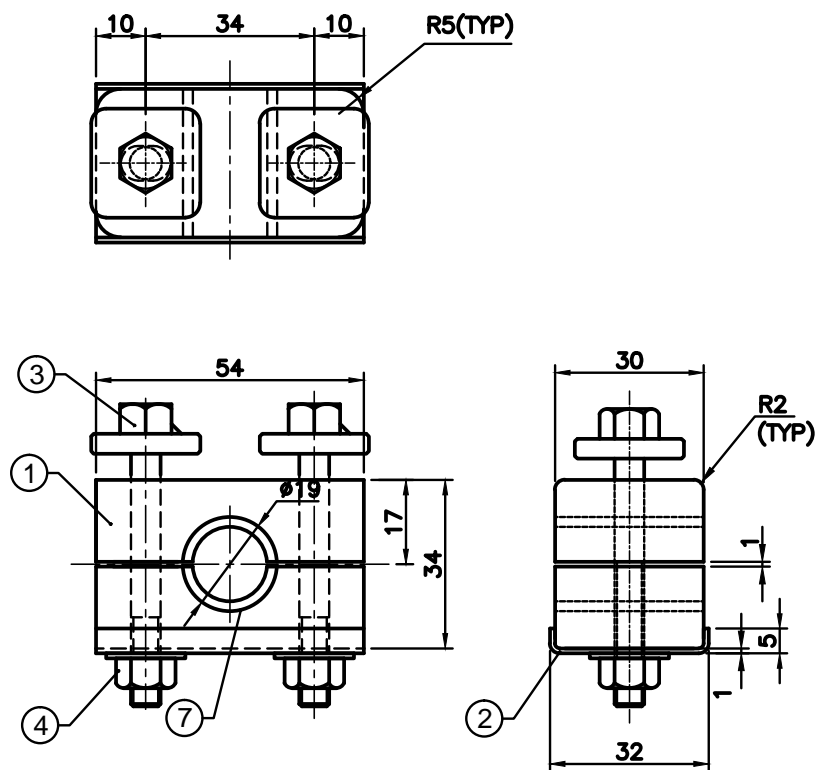


DETAIL-3








NOTE:

1. REMOVE ALL SHARP EDGES
2. FOR CLEATS Min TENSILE STRENGTH: 65 N/mm²
3. BURNING RESISTANCE : SELF EXTINGUISH.

UNCONTROLLED



DETAIL-2

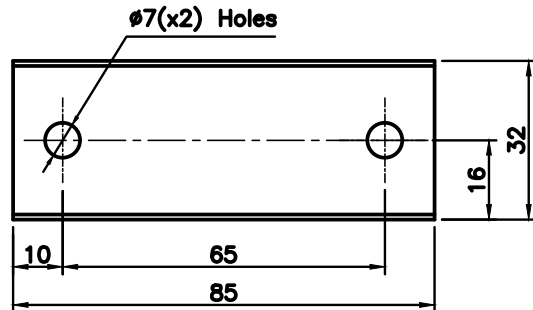
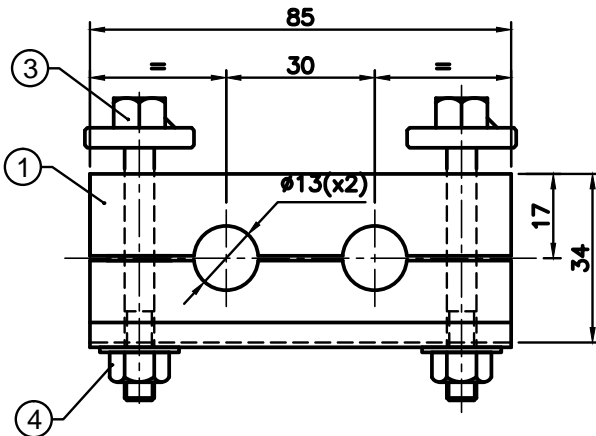
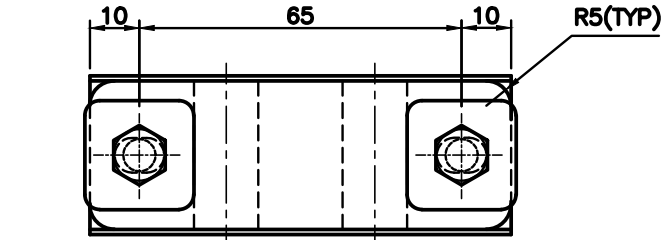
7	2		PROTECTIVE RUBBER	t2	EPDM		
6	2	555-56360	PAD				
5	2	RFB1420655	HEX.HD.BOLT M6x55 TO IS:1364(Pt-3)-2002/ Matl:-IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL WITH PRE APPLIED ADHESIVE				
4	2	RFN5540652	HEX. NUT WITH FLANGE M6 TO ISO 7044-83/ Matl:-IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL				
3	2		T-BOLT ASSY		ASSY		
2	1		PLATE	t1	AISI 304		
1	2		CLEAT		NYLON6		
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./IS	Wt. (Kg)	
					MATERIAL		
			PRODUCT	KMRC RS3(R) PROJECT			
			REF. DRG	CP60001-422			
			MATERIAL				
			HEAT TREAT.	APPD	KCS		
			SURFACE TREAT.	REVD			
			TITLE	CHKD	SNH		
			CLEAT ASSY, C-A TYPE	DRWN	JAGADISH	27.8.16	
				SCALE		SHEET	Wt.(Kg)
						OF	0
			 BEML LIMITED <small>NEW PROVIDERS: NEW DELHI</small>	DRG No.		ALT	
ALT.NO.	ECN NO/CHANGES	DATE		BY	CHKD	APPD	
				942-56135			

A3

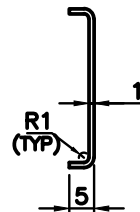
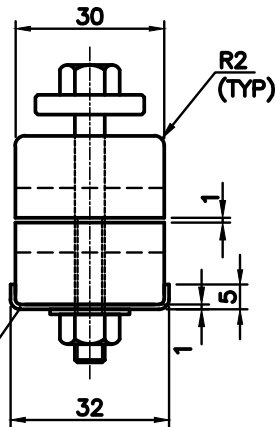
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GRADE No.	VALUE	SYMBOL
N1	0.025	
N2	0.05	
N3	0.1	
N4	0.2	
N5	0.4	
N6	0.8	
N7	1.6	
N8	3.2	
N9	6.3	
N10	12.5	
N11	25	
N12	50	

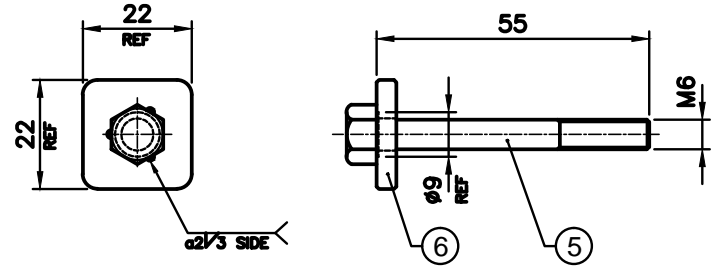
SURFACE
ROUGHNESS



DETAIL-2



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















DETAIL-3

NOTE:

1. REMOVE ALL SHARP EDGES
2. FOR CLEATS Min TENSILE STRENGTH: 65 N/mm²
3. BURNING RESISTANCE : SELF EXTINGUISH.

UNCONTROLLED

6	2	555-56360	PAD				
5	2	RFB1420655	HEX.HD.BOLT M6x55 TO IS:1364(Pt-3)-2002/ Matl:-IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL WITH PRE APPLIED ADHESIVE				
4	2	RFN5540652	HEX. NUT WITH FLANGE M6 TO ISO 7044-83/ Matl:-IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL				
3	2		T-BOLT ASSY		ASSY		
2	1		PLATE	t1	ASI 304		
1	2		CLEAT		NYLON6		
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./I.S	Wt. (Kg)	
					MATERIAL		
KMRC RS3(R) PROJECT							
PRODUCT			CP660002-400				
REF DRG							
MATERIAL							
HEAT TREAT.			APPD		KCS		
SURFACE TREAT.			REVD				
TITLE			CHKD		SNH		
CLEAT ASSY, C-B TYPE			DRWN		JAGADISH	29.8.16	
			SCALE			SHEET	Wt.(Kg)
					OF	0	
			DRG No.		ALT		
ALT.NO.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	BEM BEML LIMITED	
942-56137							

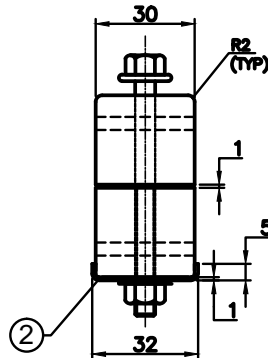
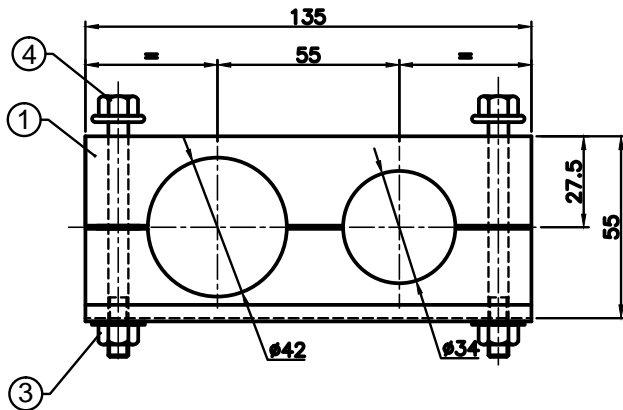
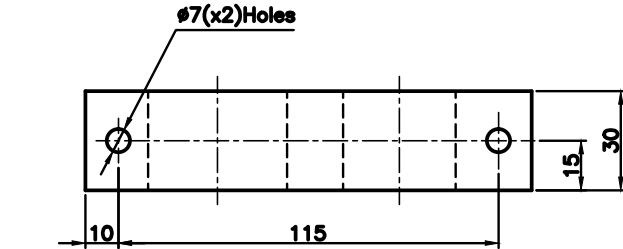
6	2	555-56360	PAD			
5	2	RFB1420665	HEX.HD.BOLT M6x65 TO IS:1364(Pt-3)-2002/ Matl.:—IS-1367(P14)—84 Gr A2-70, STAINLESS STEEL WITH PRE APPLIED ADHESIVE			
4	2	RFN5540652	HEX. NUT WITH FLANGE M6 TO ISO 7044-83/ Matl.:—IS-1367(P14)—84 Gr A2-70, STAINLESS STEEL			
3	2		T-BOLT ASSY		ASSY	
2	1		PLATE	t1	AISI 304	
1	2		CLEAT		NYLON6	
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./IS	Wt. (Kg)
					MATERIAL	
			PRODUCT	KMRC RS3(R) PROJECT		
			REF. DRG	CP60002-403		
			MATERIAL			
			HEAT TREAT.	APPD	KCS	
			SURFACE TREAT.	REV'D		
			TITLE	CHKD	SNH	
			CLEAT ASSY, C-B TYPE	DRWN	JAGADISH	29.8.16
				SCALE		SHEET
					OF	0
ALT.NO.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	DRG No.
						942-56138
 BEML LIMITED <small>BEAR INDUSTRIES, NEW DELHI</small>						

A3

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

SURFACE
ROUGHNESS










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








NOTE:

1. REMOVE ALL SHARP EDGES
2. FOR CLEATS Min TENSILE STRENGTH: 65 N/mm²
3. BURNING RESISTANCE : SELF EXTINGUISH.

UNCONTROLLED












4	2	RFB3850670	HEX. FLANGE BOLT FULL THREAD M6x70 TO ISO:4162-90/ MATL:-IS:1367(P-14)-84 Gr.A2-70, SS WITH NYLOK BLUE PATCH PRE APPLIED ADHESIVE													
3	2	RFN5540652	HEX. NUT WITH FLANGE M6 TO ISO 7044-83/ Matl:-IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL													
2	1		PLATE					t1		AISI 304						
1	2		CLEAT							NYLON6						
SL.No.	QTY	PART / STOCK No.		DESCRIPTION					SIZE		COMPANY STD./I/S		Wt. (Kg)			
										MATERIAL						
						PRODUCT	KMRC RS3(R) PROJECT									
						REF DRG	CP660221-400									
						MATERIAL										
						HEAT TREAT.		APPD	KCS							
						SURFACE TREAT.		REVD								
						TITLE	CLEAT ASSY, PG29xPG36					CHKD	SNH			
						DRWN						JAGADISH		29.8.16		
						SCALE							SHEET	Wt.(Kg)		
										OF	0					
						 BEML LIMITED					DRG No.			ALT		
ALT.NO.	ECN NO/CHANGES		DATE	BY	CHKD						APPD	942-56140				
														NEW PROJECTS, NEW DESIGNS		

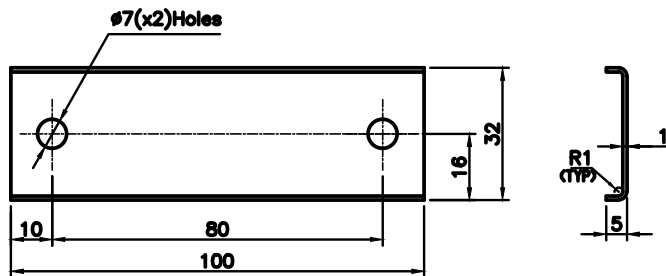
A3

5	4		PROTECTIVE RUBBER		t2	EPDM		
4	2	RFB3850655	HEX. FLANGE BOLT FULL THREAD M6x55 TO ISO:4162-90/ MATL:-IS:1367(P-14)-84 Gr.A2-70, SS WITH NYLON BLUE PATCH PRE APPLIED ADHESIVE					
3	2	RFN5540652	HEX. NUT WITH FLANGE M6 TO ISO 7044-83/ Matl.:-IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL					
2	1		PLATE		t1	AISI 304		
1	2		CLEAT			NYLON6		
SL.No.	QTY	PART / STOCK No.	DESCRIPTION		SIZE	COMPANY STD./I.S	Wt. (Kg)	
						MATERIAL		
				PRODUCT	KMRC RS3(R) PROJECT			
				REF DRG	CP660222-400			
				MATERIAL				
				HEAT TREAT		APPD	KCS	
				SURFACE TREAT		REVD		
				TITLE	CHKD	SNH		
				CLEAT ASSY, SQ70xSQ185	DRWN	JAGADISH	29.8.16	
					SCALE		SHEET	Wt.(Kg)
							OF	0
ALT.NO.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	DRG No.		
 BEM BEM LIMITED <small>NEW HYDRAULIC NEW DELHI</small>						942-56141		
						 ALT		

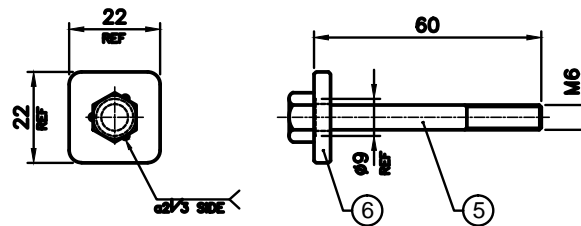
A3

GRADE No.	VALUE	SYMBOL
SURFACE ROUGHNESS		

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												



DETAIL-2









DETAIL-3

UNCONTROLLED

NOTE:

1. REMOVE ALL SHARP EDGES
2. FOR CLEATS Min TENSILE STRENGTH: 65 N/mm²
3. BURNING RESISTANCE : SELF EXTINGUISH.

7	4		PROTECTIVE RUBBER	t2	EPDM		
6	2	555-56360	PAD				
5	2	RFB1420660	HEX.HD.BOLT M6x60 TO IS:1364(Pt-3)-2002/ Matl.:--IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL WITH PRE APPLIED ADHESIVE				
4	2	RFN5540652	HEX. NUT WITH FLANGE M6 TO ISO 7044-83/ Matl.:--IS-1367(P14)-84 Gr A2-70, STAINLESS STEEL				
3	2		T-BOLT ASSY		ASSY		
2	1		PLATE	t1	AISI 304		
1	2		CLEAT		NYLON6		
SL.No.	QTY	PART / STOCK No.	DESCRIPTION	SIZE	COMPANY STD./LS	Wt. (Kg)	
					MATERIAL		
			PRODUCT	KMRC RS3(R) PROJECT			
			REF DRG	CP660224-400			
			MATERIAL				
			HEAT TREAT.	APPD	KCS		
			SURFACE TREAT.	REVD			
			TITLE	CHKD	SNH		
			CLEAT ASSY, SQ70xSQ185	DRWN	JAGADISH	29.8.16	
				SCALE		SHEET	Wt.(Kg)
					OF		0
ALT.NO.	ECN NO/CHANGES	DATE	BY	CHKD	APPD	DRG No.	
						ALT	
				BEM LIMITED		942-56143	
						