

I/385102/2026

उत्तर पश्चिम रेलवे
NORTH WESTERN RAILWAY

HQ Office, Jaipur
Tel. No. 095-25512 (Rly.)

L. No. NWR/HQ/M/WS/DRG/1/C

Dt.: 07.05.2026

Chief Workshop Manager
Ajmer & Jodhpur

Sub.: Modification of IC swing door in LHB FAC coaches.

Ref.: Railway Board's letter No. 2020/M(C)/137/3/-pt I dt. 21.04.2026.

Vide letter under reference, the Railway Board has issued instructions for modification of IC swing door in LHB FAC coaches.

The Railway Board's letter copy is enclosed for kind information and necessary action.

DA: As above.

Digitally Signed by
Surendra Singh Choudhary
Date: 07-05-2026 14:57:16
Reason: Approved
(Surendra S Choudhary)
Dy.CME (WS)/NWR
for CWE/NWR

161
RB-337
23-4-26

भारत सरकार Government of India
रेल मंत्रालय Ministry of Railways
रेलवे बोर्ड Railway Board



No. 2020/M(C)/137/3-pt I

New Delhi, Dated: 21.04.2026

General Managers
All Zonal Railways
ICF, RCF and MCF

Sub: Modification of IC swing door in LHB FAC coaches.

Ref: RCF CAI No. CAI/RCF/Mech/LHB/107 Version-1 dated 23.03.2026

To improve the operational space on NPP end of the LHB FAC (LWFAC) coaches provided with IC double acting swing door mechanism, IC door mounting is required to be shifted towards PP end.

Accordingly, RCF have issued the CAIs for shifting the double acting IC swing doors, 510 mm towards the PP end in LWFAC coaches vide CAI under reference above.

In this context, it is advised that above modification should be done as per RCF CAI in all ICF, RCF and MCF make LWFAC coaches, with immediate effect by workshops. Zones may accordingly plan to send all the LWFAC coaches in workshops on priority.

PU's may also plan to cut-in above modification in all the future LWFAC coaches at the earliest.

This issues with the approval of competent authority.

Encl.: As above.

20.21.26
21/04/26
(ऐश्वर्य सचान)
निदेशक / यांत्रिक इंजी. कोचिंग
रेलवे बोर्ड

Copy to:

1. PCMEs/All Zonal Railways, ICF, RCF & MCF: For kind information and necessary action, please.

प्र.मु.या.इंजी. 2. PED/RS/RDSO: For kind information, please.

मु.प्र.शा.इंजी./परि.

मु.का.इंजी.

मु.या.इंजी./या.का.

मु.च.स्टॉ.इंजी./प्र.ट.इ.ए.ए.ए.

मु.च.स्टॉ.इंजी./कोचिंग

मु.या.इंजी./टी.टी. ए. ए. ए. ए.

मु.वि. सर्विस इंजी.

मु.परि.प्रबं./रौलिंग स्टॉक

उप मु.या.इंजी./मु.या.

निजी सचिव/प्र.मु.या.इंजी.

Dy WS
SSE/Drp
- In list of modification
for compliance
to workshops for
implementation
21/4

भारत सरकार Government of India
रेल मंत्रालय Ministry of Railways
रेलवे बोर्ड Railway Board

(E-File No: 3317599)

No. 2020/M(C)/137/3-pt I

New Delhi, Dated: 21.04.2026

General Managers
All Zonal Railways
ICF, RCF and MCF

Sub: Modification of IC swing door in LHB FAC coaches.

Ref: RCF CAI No. CAI/RCF/Mech/LHB/107 Version-1 dated 23.03.2026

To improve the operational space on NPP end of the LHB FAC (LWFAC) coaches provided with IC double acting swing door mechanism, IC door mounting is required to be shifted towards PP end.

Accordingly, RCF have issued the CAIs for shifting the double acting IC swing doors, 510 mm towards the PP end in LWFAC coaches vide CAI under reference above.

In this context, it is advised that above modification should be done as per RCF CAI in all ICF, RCF and MCF make LWFAC coaches, with immediate effect by workshops. Zones may accordingly plan to send all the LWFAC coaches in workshops on priority.

PU's may also plan to cut-in above modification in all the future LWFAC coaches at the earliest.

This issues with the approval of competent authority.

Encl.: As above.

20.21.2026
21/04/26
(ऐश्वर्य सचान)
निदेशक / यांत्रिक इंजी. कोचिंग
रेलवे बोर्ड

Copy to:

1. PCMEs/All Zonal Railways, ICF, RCF & MCF: For kind information and necessary action, please.
2. PED/RS/RDSO: For kind information, please.

Rail Coach Factory, Kapurthala (Coach Alteration Instruction) CAI/RCF/Mech/LHB/107 Version-1

MD46151

Date: 23/03/2026

SUB: Modification the location of IC door in LHB FAC coach (NPP end).

SN	Description	Details		
1.	Description	Modification of location of IC swing door.		
2.	Coach type affected	LHB FAC coaches having double acting swing door (MI006625).		
3.	Reason for Alteration	To improve operational space		
4.	Drawing No.	MI006625 (for reference)		
5.	Alteration	The IC door mounting is required to be shifted towards PP end by 510 mm instead of 450 mm as advised earliar.		
6.	Implementation Stage	Immediate effect.		
7.	Category of CAI	<table><tr><td>✓ A</td><td>B</td></tr></table> Tick A or B as applicable.	✓ A	B
✓ A	B			

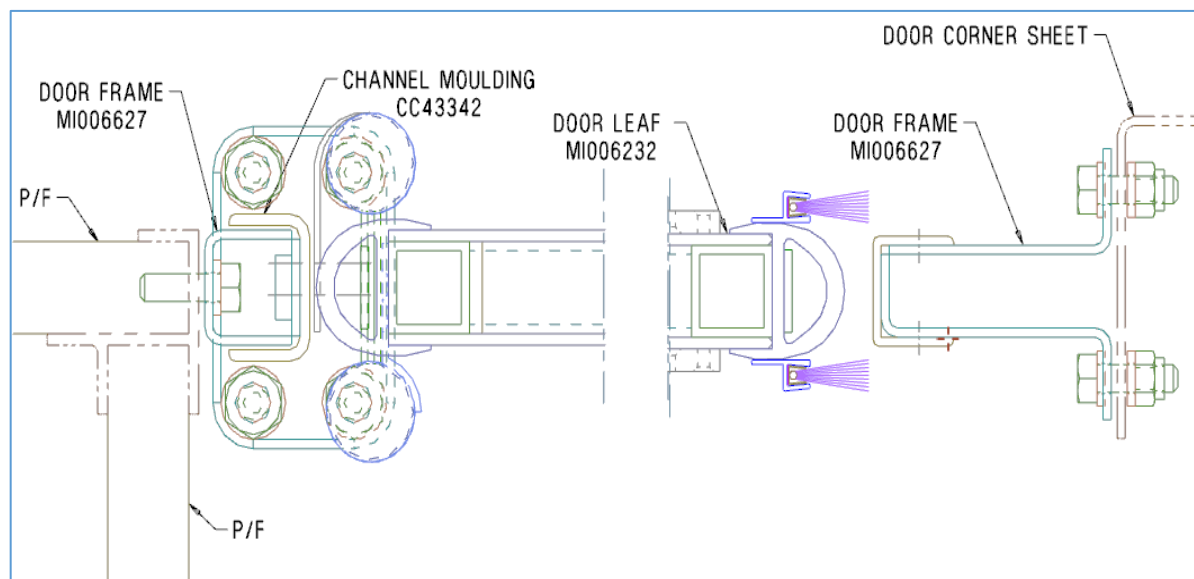
A. Modifications shall be implemented immediately by user Railways.

B. Modifications shall be implemented by user Railways as & when convenient.

The FAC coaches in which NPP end double swing IC door hinged on partition frame is adjacent to main body door leaves inadequate operational space. Whereas adequate space exists towards PP end as it is at safer distance from the main door.

To have adequate distance on NPP end also, the following changes have to be made:

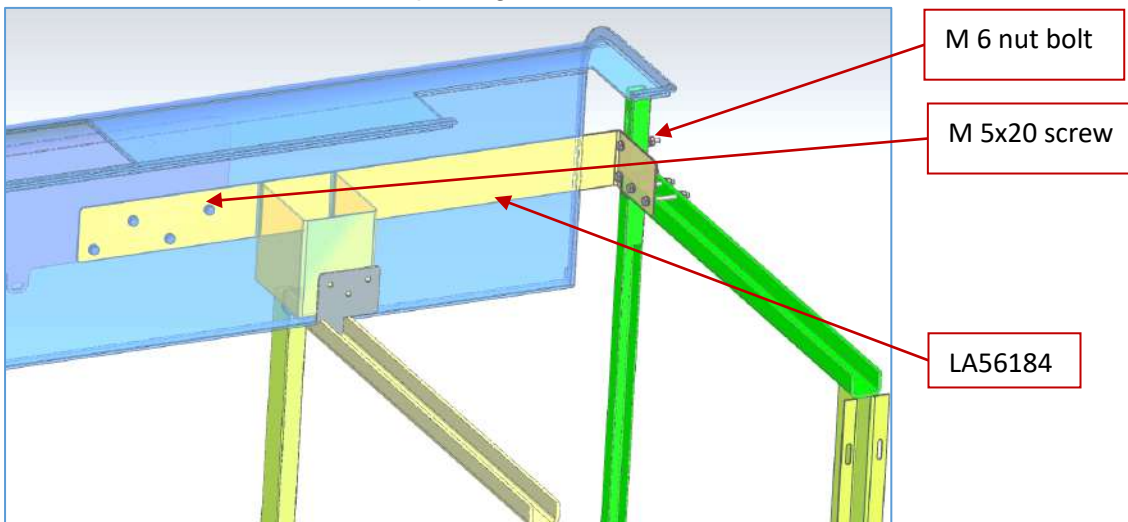
1. CAI NO. CAI/RCF/MECH/LHB/031 to be implemented before carried out these changes. Mirror door of LA56189 to be used instead of MI007760
2. The IC door mounting is required to be shifted towards PP end by 510 mm instead of 450 mm as advised earliar by below mentioned procedure:
 - a. Remove the door only MI006232 (Item-1 of MI006625) without removing the door frame MI006627.



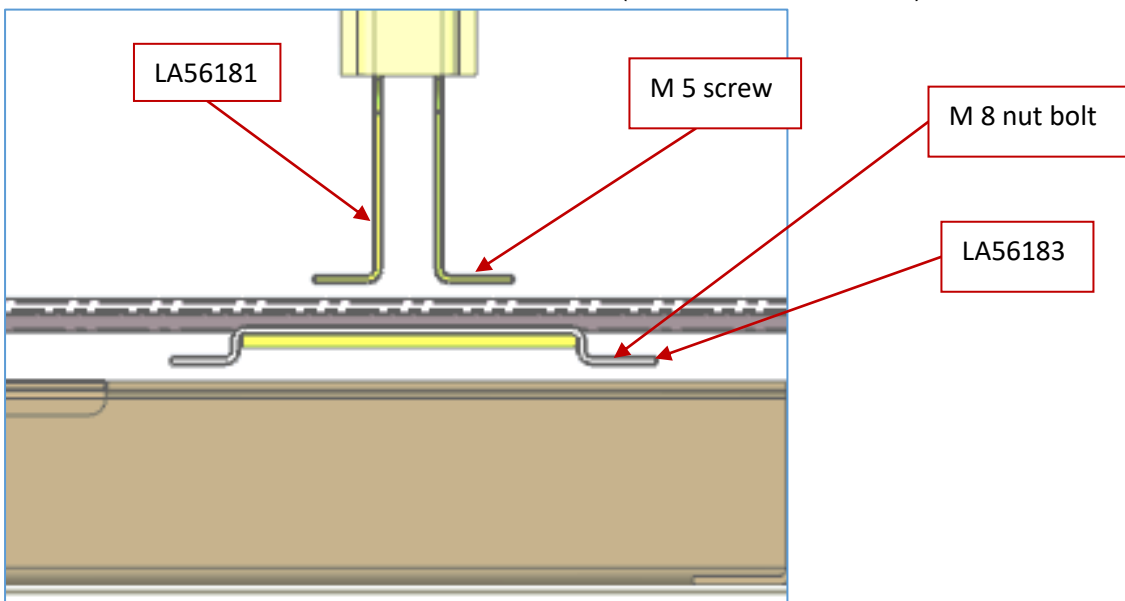
- b. Remove WC indicators from covering panel.



- c. Remove side wall panels near the door.
 d. Remove top roof ceiling near the door to drg no. LA44264, LA44325 & LA44328 (electrical connections to be kept in mind).
 e. Paste back piece by Plexus MA8110 / MA8110GB - structural glues or similar on this roof ceiling location as per Annexure-1.
 f. Mount door bracket as per drg no. LA56184 Alt-'a'.

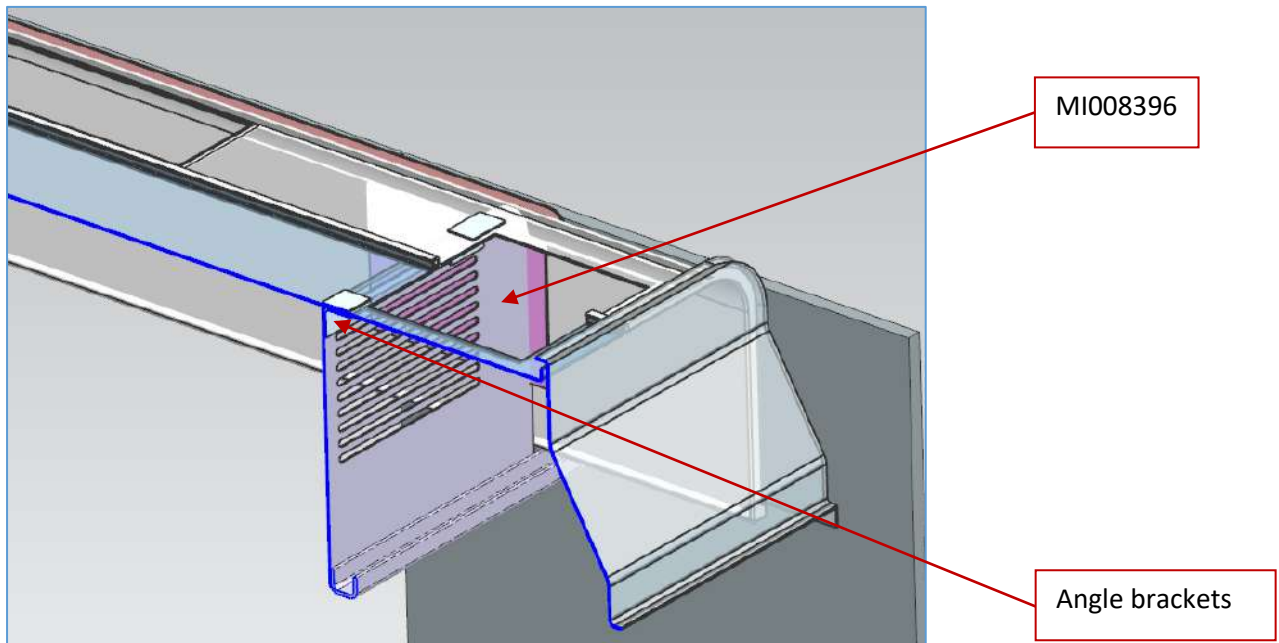


- g. Mount door bracket as per drg no. LA56183 Alt-'a' to be shifted so that the distance between inside edge of existing door pillar and corresponding edge of door frame at new location is 510 mm instead of 450 mm (frame centre to centre).

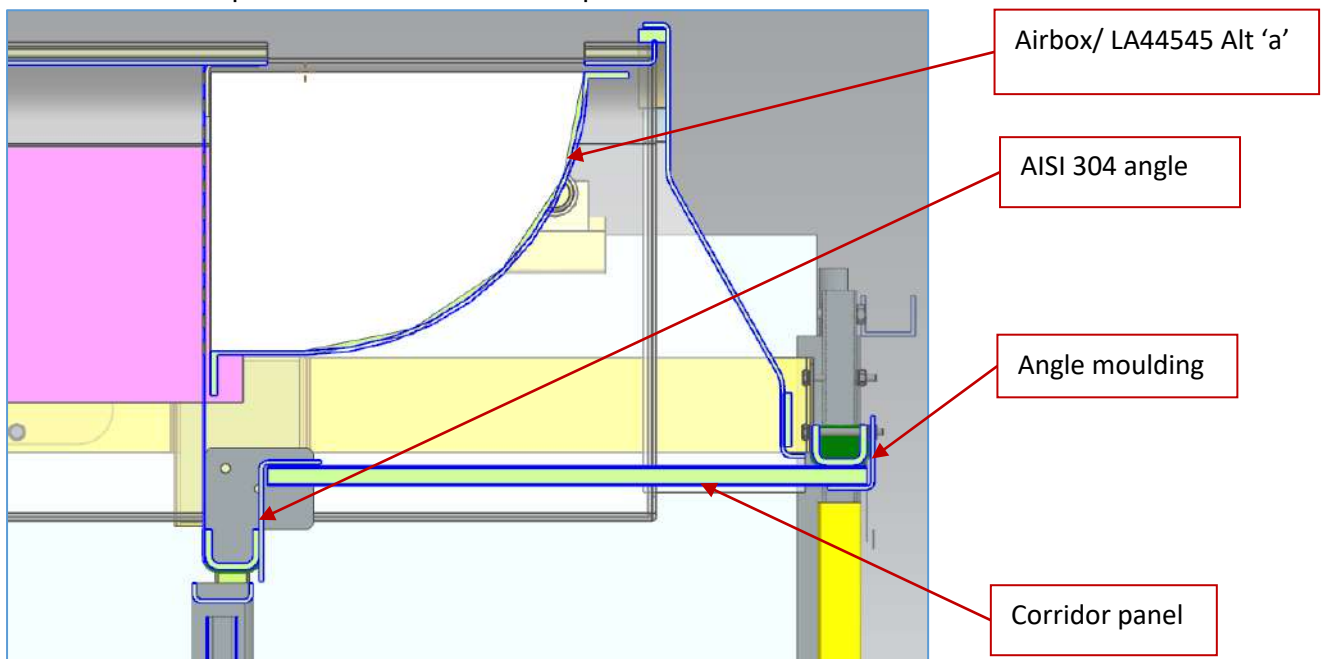


Handwritten signature

- h. Mount roof panels to drg. No. LA44264, LA44325 & LA44328 after providing cutouts & fixing back pieces as shown in Annexure-1 (Revised) in LA44264 & LA44325 excluding ventilation grill to drg. No. LW44159.
- i. Mount door frame to drg no. LA56181 Alt 'a', 510mm towards passenger area instead of 450 mm as shown.
- j. Mount SS perforated sheet to drg. no. MI008396 is to be fixed with corridor panels with the help of angle brackets as shown in Annexure-2.



- k. Lower edge of perforated sheet is to be fixed on door frame to drg no. LA56181.
- l. Fix Airbox to drg. No. LA44545 Alt 'a' as shown below is to be mounted on return air duct passage where ventilation grill was mounted in earlier standard practices.
- m. Mount WC indicators with extended wire by nut bolt arrangement on SS perforated sheet.
- n. Corridor panel shall be mounted as per annexure-3.



- o. Install a new door as per drawing no. ICF/SK3-5-6-014 Col-I on door frame to drg. No. LA56181.

Note:

- Proper tie-up the electric wires. WC indicators to be mounted on SS perforated sheet before mounting SS perforated sheet in the coach.
- Roof panels and side panels are to be cut as per the location of door frame if required. Cut-outs to be re used as panels for covering side wall and ceiling with the help of suitable aluminium angles if required.
- If required suitable cut to be provided in curtain channel (reference MI008456) to accommodate door bracket to drg no. LA56183.
- It is to be insured that Airbox connections are air leak proof.
- Paste back piece by Plexus MA8110 / MA8110GB - structural glues or similar on FRP parts wherever required.
- Suitable hardware should be used keeping aesthetic look of the coach.
- CAI/RCF/Mech/LHB/107 Version-1 supersedes CAI/RCF/Mech/LHB/107.


For General Manager (Mech)

Encls: (Drawings)

LA56181, LA56182 Alt 'a', LA56183 Alt 'a', LA56184 Alt 'a', MI006625, MI006627, MI006232, CC43342, LA44264, LA44325, LA44328, ICF/SK3-5-6-014 (Including part drawings), MI008396 & LA44545 Alt 'a'.

Encls: (Annexure)

Annexure-1, 2, & 3(Revised).

All Principal Chief Mechanical Engineers:

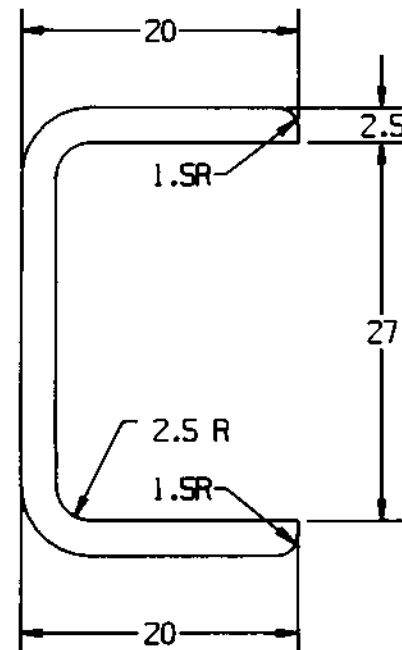
1. Central Railway, Mumbai CST-400 001
2. W. Railway Churchgate, Mumbai - 400 020
3. Northern Railway, Baroda House, New Delhi- 110 001
4. N.E. Railway Gorakhpur. Gorakhpur-273 001
5. N.F. Railway Maligaon, Guwahati- 781 011
6. S. Railway, Park Town, Chennai- 600 003
7. S. C. Railway, Rail Nilayam, Secunderabad- 500 371i
8. S. E. Railway, Garden Reach, Kolkata-700 043
9. Eastern Railway, Fairlie Place, Kolkata-700 001
10. E. Coast. Railway, Bhubaneswar- 751 016
11. North Central Railway, Allahabad — 211 001
12. North west Railway, Jaipur — 302 001
13. S. E. Central Railway, Bilaspur- 495 004
14. S. W. Railway, Hubli 580 023
15. West Central Railway, Jabalpur- 482 001
16. East Central Railway, Hajipur- 844 101

All Chief Works Engineers:

1. Central Railway, Matunga, Mumbai- 400 019
2. Bhopal, West Central Railway Nishatpura, MP-462 001
3. Lilluah, Eastern Railway, Howrah- 711 204
4. Alambagh, Northern Railway, Lucknow- 226 005
5. Jagadhari, Northern Railway, - 135 003
6. Gorakhpur N. E. Railway- 273 001
7. New Bongaigaon N. East Frontier Railway- 783 381
8. Perambur, Southern Railway, Chennai- 600 023
9. Golden Rock, Southern Railway, Trichy- 620 004
10. Ashokpuram , Southern Railway, Mysore South- 570 008
11. Lallagudda, S. C. Railway Secunderabad- 500 017
12. Hubli, South Western Railway- 580 020
13. Tirupati, S. C. Railway - 517 506
14. Mancheswar, East Coast Railway, Bhubaneswar- 751 017
15. Kharagpur, S. E. Railway- 721 301
16. Lower Parel, N.M. Joshi Marg, Western Railway, Mumbai- 400 013
17. North Western Railway, ajmer
18. North East Frontier Railway, Dibrugarh, Assam-786 001

Copy to:

1. DG/Carriage, RDSO, Manak Nagar, Lucknow- 226 011
2. EDME (Coaching), Railway Board, New Delhi-110 001
3. EDME (W), (Coaching), Railway Board New Delhi-110 001



NOTE:-

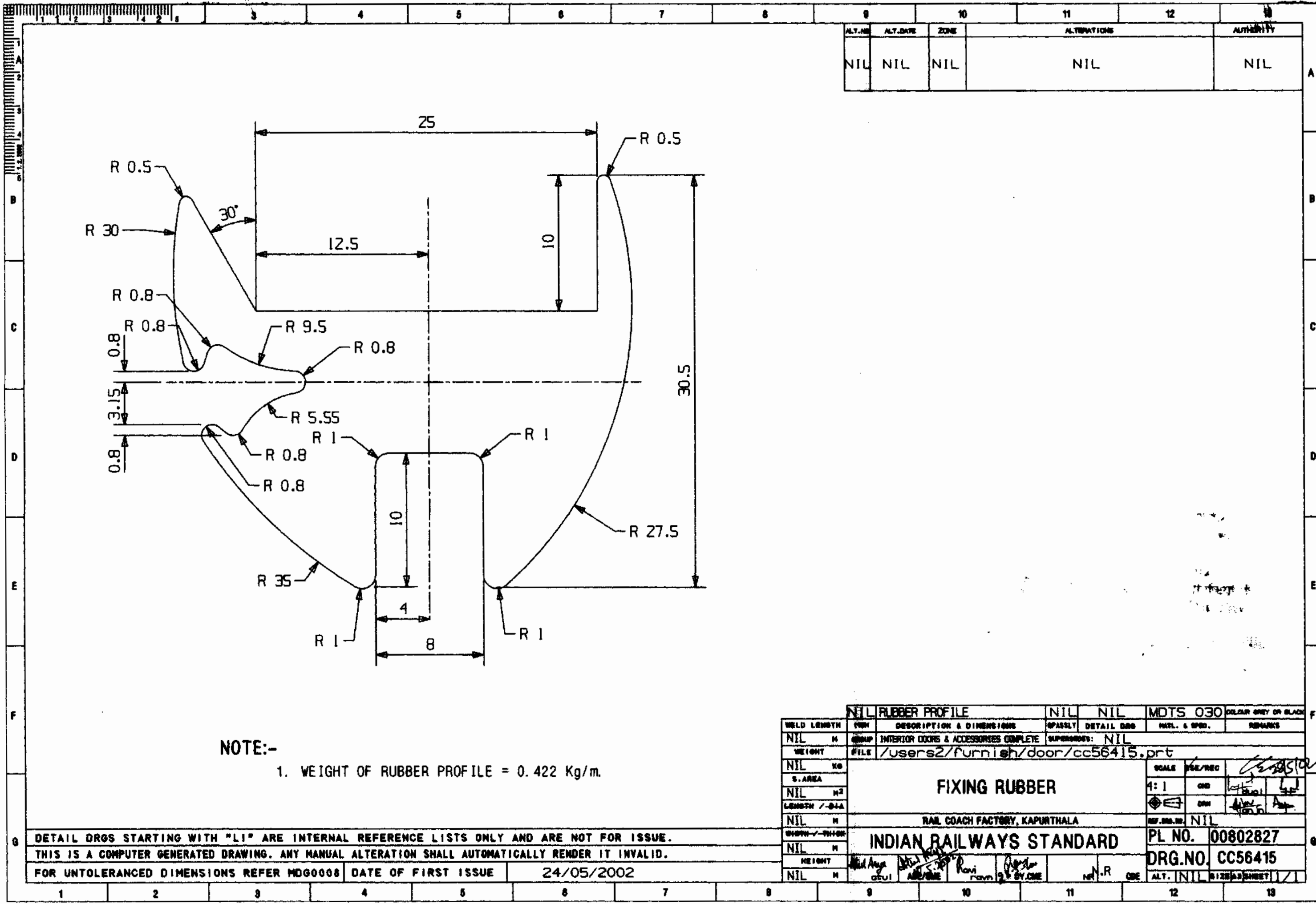
1. COMPONENT SHALL BE DULL ANODISED TO IS: 1868-82, TAB-1 GR. AC 10.
2. IT IS AN INTERIOR FITTING. ITEM SHALL HAVE ELEGANT FINISH.
- * 3. IS: 733-83,63400 WP.

ALT. NO.	ALT. DATE	ZONE	ALTERATIONS	AUTHORITY
0	25.02.95	DB	1. MATERIAL IS: 737-86,31000 H ₂ CHANGED TO IS: 733-83,63400 WP.	
		G10	2. TITLE CHANNEL Moulding CHANGED TO EXTRUDED CHANNEL Moulding AND SIZE 2.5X20X20X27 ADDED.	
		F10	3. DESCRIPTION CHANNEL Moulding CHANGED TO EXTRUDED CHANNEL Moulding.	
		B4	4. 1.SR ADDED.	
		D4	5. 1.SR ADDED.	
			6. DRG. PROFORMA REVISED.	

22 MAR 1995
 ENTERED
 INTO
 DATAS
 22 MAR 1995

NIL	EXTRUDED CHANNEL Moulding	NIL	NIL	RE	NIL
WELD LENGTH	TYPE	DESCRIPTION & DIMENSIONS	SPECIAL	DETAIL DRG	MATL. & SPEC.
NIL	W	GROUP	PARTITION WALLS & Mouldings	SUPERSEDES:	CC-43342 ALT-NIL
WEIGHT	FILE	/USERS2/FURNISH/PNULDG/CC-43342			
0.432 KG/M		EXTRUDED CHANNEL Moulding			
S.AREA		(SIZE 2.5X20X20X27)			
N.A.	W	RAIL COACH FACTORY, KAPURTHALA			
LENGTH / DIA		INDIAN RAILWAYS STANDARD			
N.A.	W	DRG. NO. CC43342			
WIDTH		ALT. 0			
N.A.	W	SHEET 1 / 1			
THICKNESS		ALT. 0			
N.A.	W	CODE NO. NIL			

THIS IS A COMPUTER GENERATED DRAWING. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER IT INVALID.
 FOR UNTOLERANCED DIMENSIONS REFER TO ISPM 22.0P. STANDARD / PROTOTYPE / FINAL DATE OF FIRST ISSUE 26/11/94



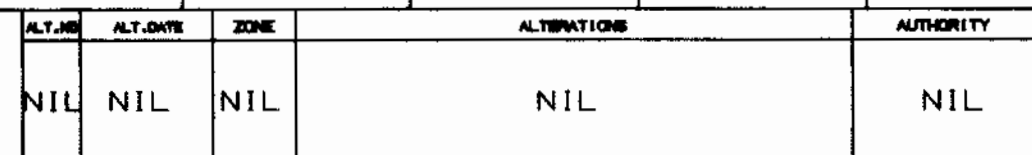
ALT. NO.	ALT. DATE	ZONE	ALTERATIONS	AUTHORITY
NIL	NIL	NIL	NIL	NIL

NOTE:-
1. WEIGHT OF RUBBER PROFILE = 0.422 Kg/m.

NIL RUBBER PROFILE		NIL	NIL	MDTS 030	COLOR GREY OR BLACK
WELD LENGTH	MM	DESCRIPTION & DIMENSIONS		SPASSLY	DETAIL DRG
NIL	M	INTERIOR DOORS & ACCESSORIES COMPLETE		SUPERVISOR:	NIL
WEIGHT	KG	FILE /users2/furnish/door/cc56415.prt			
NIL	M	FIXING RUBBER		SCALE	USE/REC
S. AREA	M ²	RAIL COACH FACTORY, KAPURTHALA		1:1	ON
LENGTH / DIA	M	INDIAN RAILWAYS STANDARD		ON	ON
NIL	M	PL NO. 00802827		REF. DRG. NO. NIL	
DRG. / THICK	M	DRG. NO. CC56415		ALT. NIL	
HEIGHT	M	BY: CSE		SIZE: A3	
NIL	M	DATE: 24/05/2002		SHEET: 1/1	

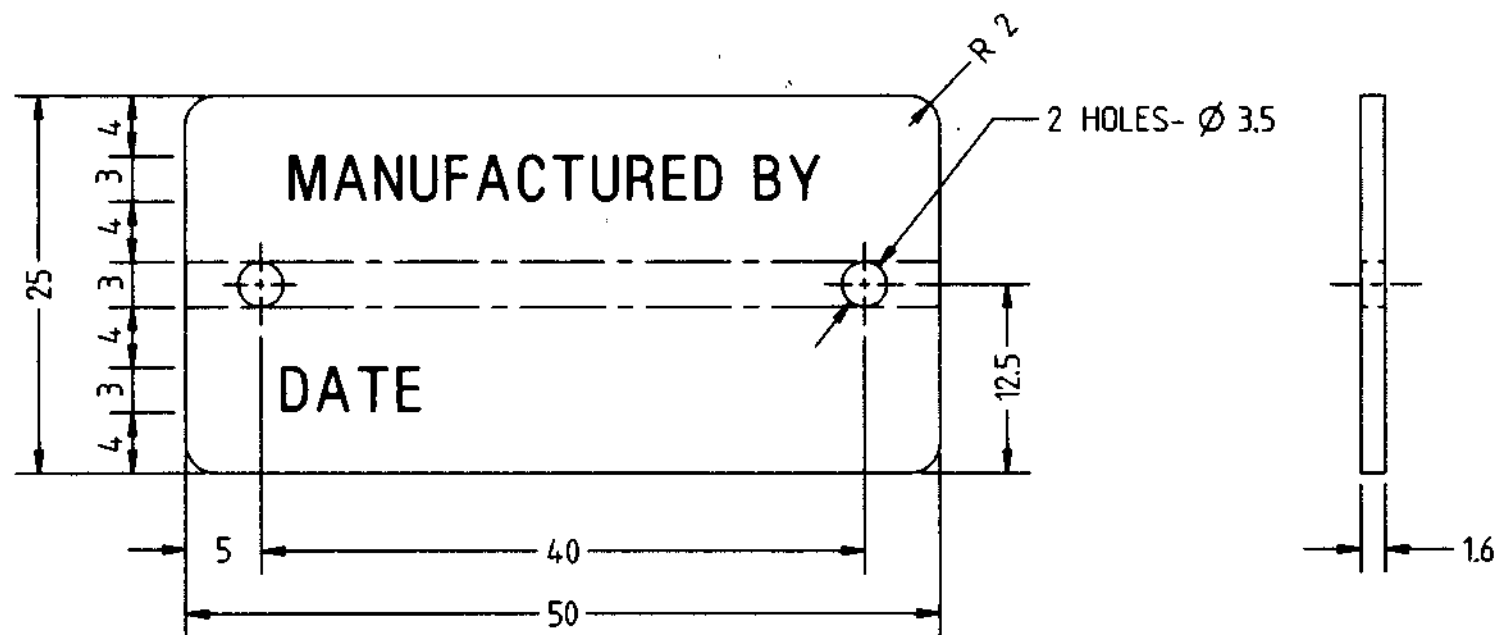
DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE.
THIS IS A COMPUTER GENERATED DRAWING. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER IT INVALID.
FOR UNTOLERANCED DIMENSIONS REFER MDG0008

DATE OF FIRST ISSUE 24/05/2002



1. WEIGHT OF RUBBER PROFILE = 0.029 Kg/m.

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE.		
THIS IS A COMPUTER GENERATED DRAWING. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER IT INVALID.		
FOR UNTOLERANCED DIMENSIONS REFER MDG0008	DATE OF FIRST ISSUE	24/05/2002



NOTE:-

1. COMPONENT SHALL BE DULL ANODISED TO IS:1868-82, TAB-1, Gr. AC 10.
2. LETTERS TO BE ENGRAVED ON NAME PLATE.
3. NAME OF THE FIRM AND DATE OF MANUFACTURE ARE TO BE SPECIFIED ON THE NAME PLATE.

ALT.NO	ALT.DATE	ZONE	ALTERATIONS	AUTHORITY
a	18/10/97	F 1 F 12 G 10 ALL	1. NOTE-1 & 2 MODIFIED. 2. MAT.& SPEC.WAS IS:737-88. 3. FOR SEATS & BERTHS DELETED FROM TITLE. 4. PROFORMA REVISED.	MD970290
b	09/10/98	ALL C2,C5 F2 B5 G13	1. SIZE OF NAME PLATE WAS 1.6X30X70 AND DIMS. CHANGED ACCORDINGLY. 2. FIXING HOLES REDUCED FROM 4 TO 2 AND HOLES RELOCATED. 3. NOTE-2 MODIFIED. 4. RADIUS OF R 2 ADDED AT THE CORNERS. 5. PL NO. ADDED FOR DRAWING.	DIC NO. MD990197

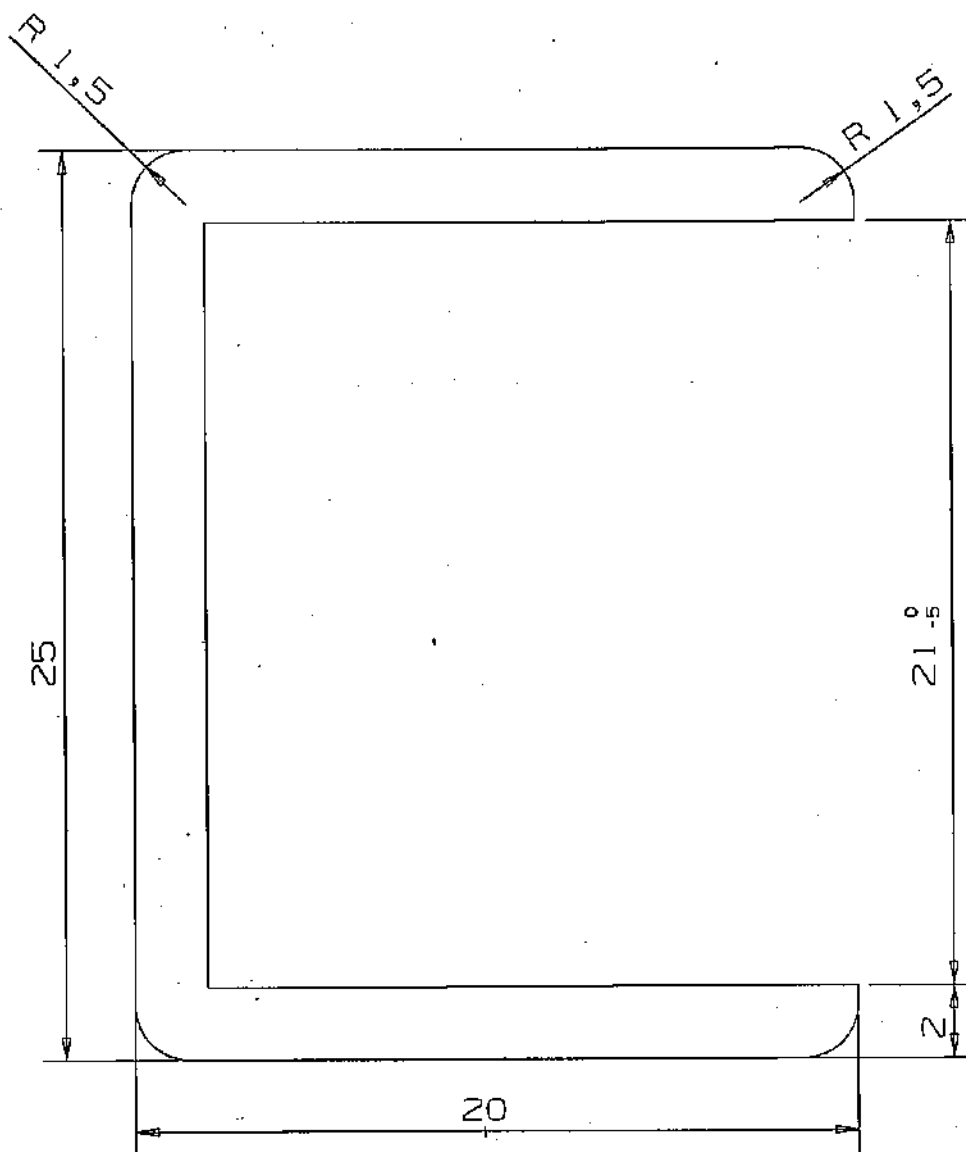
NIL		NAME PLATE 1.6X25X50		NIL	NIL	161797-88 31000 H2	NIL	
WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS		FINISH	DETAIL DRG	MATL. & SPEC.	REMARKS	
NIL	M	GROUP	SEATS AND UPPER BERTHS	SUPERSEDED: CC61188 ALT a				
WEIGHT	FILE	/users2/furnish/stbrth/cc61188b.prt						
0.0055	KG	NAME PLATE				SCALE	SEE/REV	12-10-99
S. AREA						2:1	CHD	10-10-99
NIL	M ²						DRN	DRM
LENGTH / DIA								10-10-99
0.050	M	RAIL COACH FACTORY, KAPURTHALA				REF.DRAW.	NIL	
WIDTH / THICK		INDIAN RAILWAYS STANDARD				PL NO.	00600544	
0.025	M	<div><div>11-10-99</div><div>18-10-99</div></div>				DRG.NO.	CC61188	
HEIGHT						N.R	CDE	ALT.
0.0016	M							

THIS IS A COMPUTER GENERATED DRAWING. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER IT INVALID.

FOR UNTOLERANCED DIMENSIONS REFER MDG00008

REVIEW NO. / PROTOTYPE/FINAL

DATE OF FIRST ISSUE 31/03/94



NOTE :-

1. THIS COMPONENT SHALL BE MANUFACTURED ONLY BY EXTRUSION PROCESS.
2. CROSS-SECTIONAL AREA = 118 mm²
3. WEIGHT PER UNIT LENGTH = 0.32 Kg/m
4. DIMENSIONAL TOLERANCES ON CROSS SECTION, TWIST, STRAIGHTNESS, LENGTH ETC SHALL CONFORM TO IS: 3965-1981, IS 2673-1979, IS: 6477-1983 UNLESS OTHERWISE SPECIFIED.
5. MATERIAL SHOULD BE PURCHASED IN LENGTH OF 2350 mm.
6. COMPONENT SHALL BE DULL ANODISED TO IS: 1868-82, TAB-1 GR. AC 10.
7. THIS ITEM IS TO BE USED INSIDE THE COACH. IT SHOULD HAVE AN ELEGANT FINISH AND THERE SHALL BE NO PITTING / CORROSION MARKS ON THE SURFACE.

DETAIL DRGS STARTING WITH "L" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE.

THIS IS A COMPUTER GENERATED DRAWING. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER IT INVALID.

FOR UNTOLERANCED DIMENSIONS REFER MDG0008 DATE OF FIRST ISSUE 03/03/2001

CGM BY

ALT. NO	ALT. DATE	ZONE	ALTERATIONS	AUTHORITY
0	11/10/2012	C2-C7	DIMENSIONS 25 & 21 WERE 24 & 20 RESPECTIVELY.	DY. CME/D

Entered
into
Date

20 OCT 2012

NIL		ALUMINIUM PROFILE		NIL		NIL		IS: 733-83		NIL		
						GR.63400 WP						
TH	ITEM	DESCRIPTION & DIMENSIONS			DPASSLY	DETAIL DRG		MATL. & SPEC.		REMARKS		
M	GROUP	PARTITION FRAME			SUPERSEDES:		LA10131		ALT NIL			
FILE	/APSI/1a10131a.prt			(2D)								
KG	ALUMINIUM PROFILE							SCALE	SSE/REG			
M ²								5: 1	CHD			HARD
HA									DRN			APSI
M	RAIL COACH FACTORY, KAPURTHALA							REF.DRG.NO.	NIL			
HEK	रेल कोच फैक्टरी कपूरथला				IRS		PL NO.	00000000				
M							DRG.NO.	LA10131				
M	ADE/SME				N.R		CDE	ALT.	a	SIZE A3	SHEET 1/1	

ALUMINIUM PROFILE

RAIL COACH FACTORY, KAPURTHALA

रेल कोच फैक्टरी कपूरथला

IRS

PL NO. 00000000

DRG. NO. LA10131

AGE/SME

DY. CME

N.R

CDE

ALT.

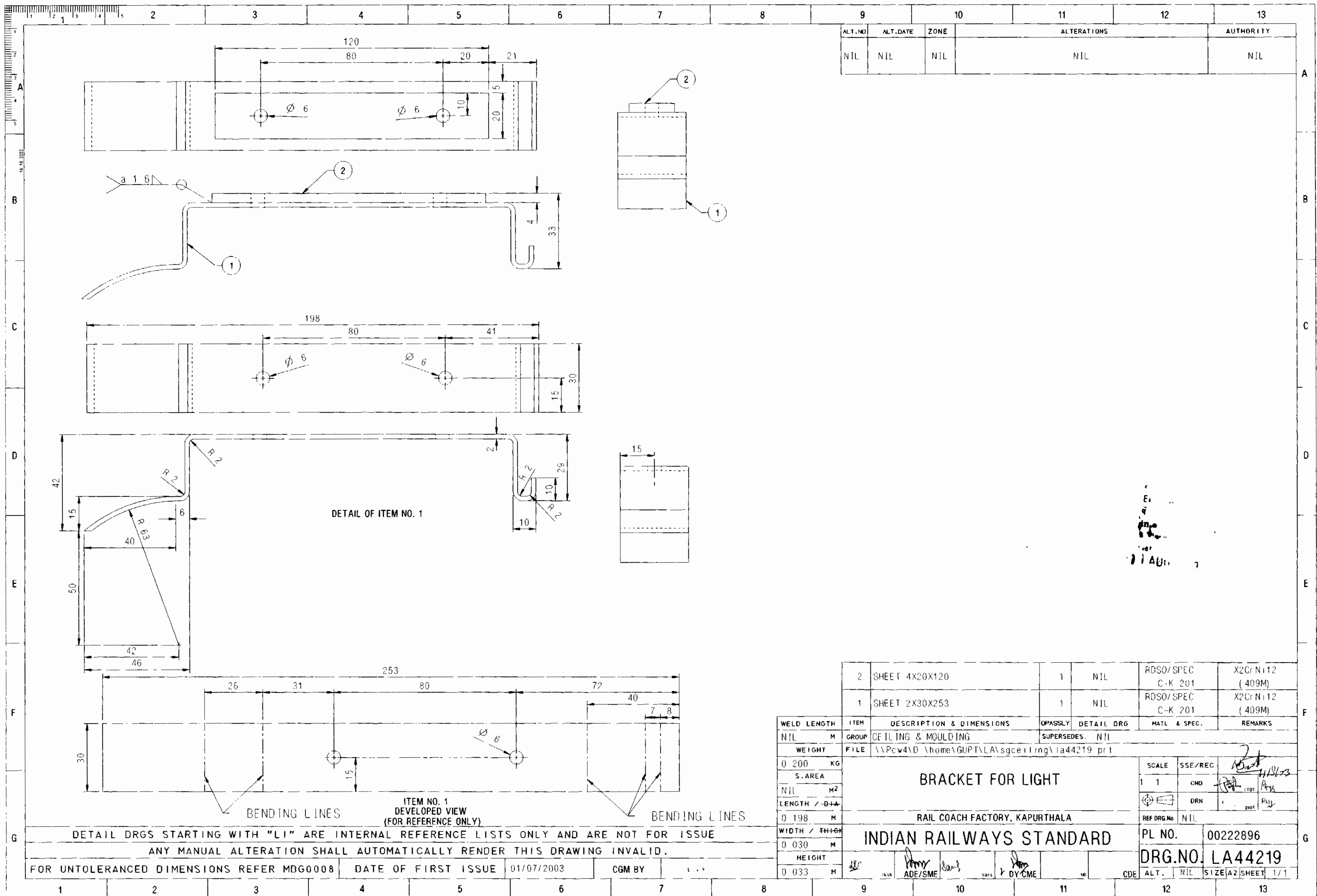
Q

SIZE

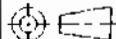
A3

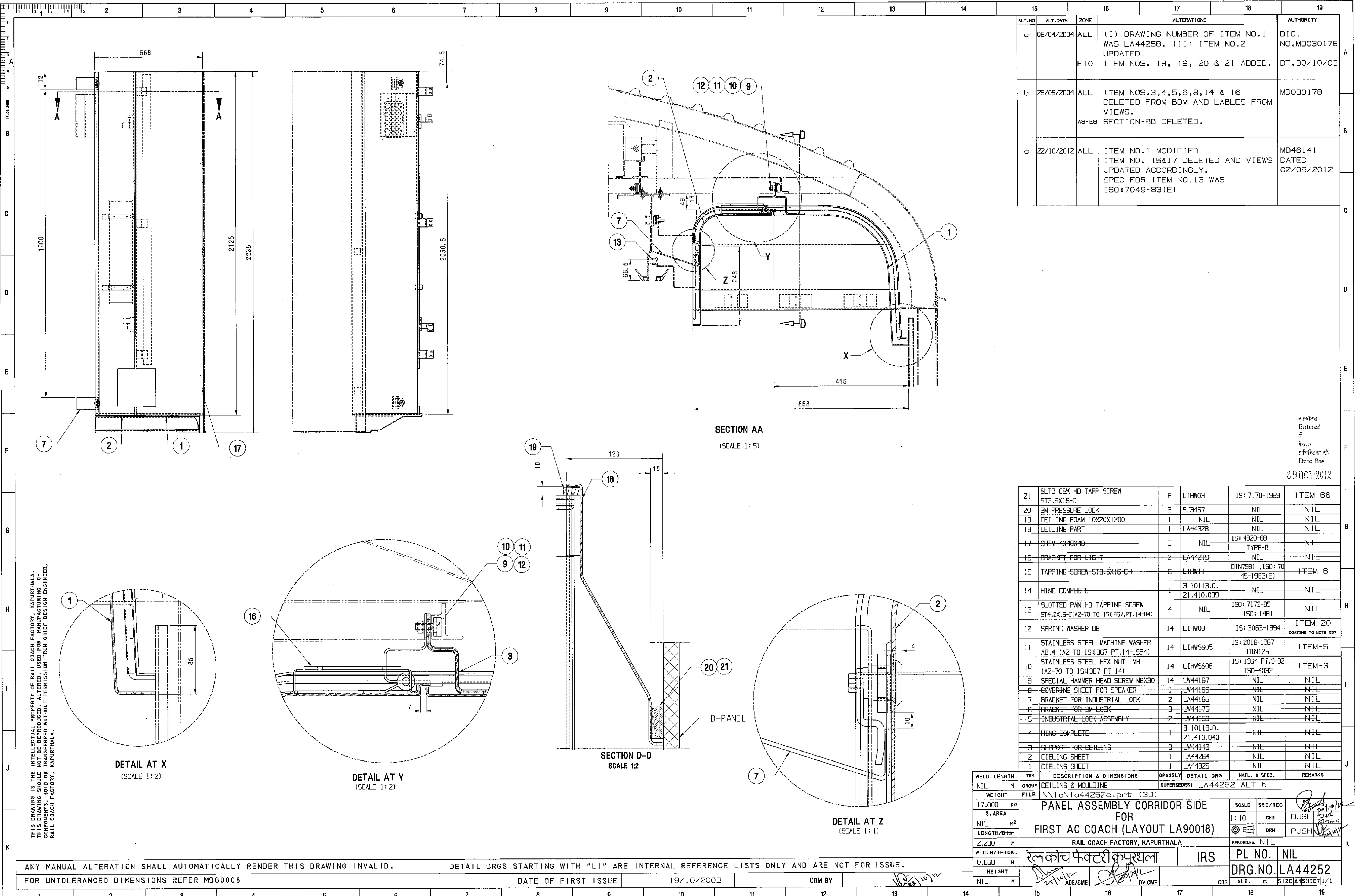
SHEET

1 / 1



ALT. NO	ALT. DATE	ZONE	ALTERATIONS	AUTHORITY
NIL	NIL	NIL	NIL	NIL

	2	SHEET 4X20X120	1	NIL	RDSO/SPEC C-K 201	X2CrNi12 (409M)					
	1	SHEET 2X30X253	1	NIL	RDSO/SPEC C-K 201	X2CrNi12 (409M)					
WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	OPASSLY	DETAIL DRG	MATL & SPEC.	REMARKS					
NIL	M	GROUP	CEILING & MOULDING				SUPERSEDES. NIL				
WEIGHT	FILE	\\Pcw4\D\home\GUPTA\LA\sgceiling\la44219 prt									
0 200	KG	BRACKET FOR LIGHT				SCALE	SSE/REG	2			
S. AREA						1	1	CMD	11/10/23		
NIL	M ²							DRN	logs		
LENGTH / DIA		RAIL COACH FACTORY, KAPURTHALA				REF DRG.No	NIL	gupt			
0 198	M					INDIAN RAILWAYS STANDARD		PL NO.	00222896		
WIDTH / THICK						0 030		DRG.NO.	LA44219		
HEIGHT		ADE/SME				ALT.	NIL	SIZE	A2	SHEET	1/1
0 033	M					0 033		CDE			

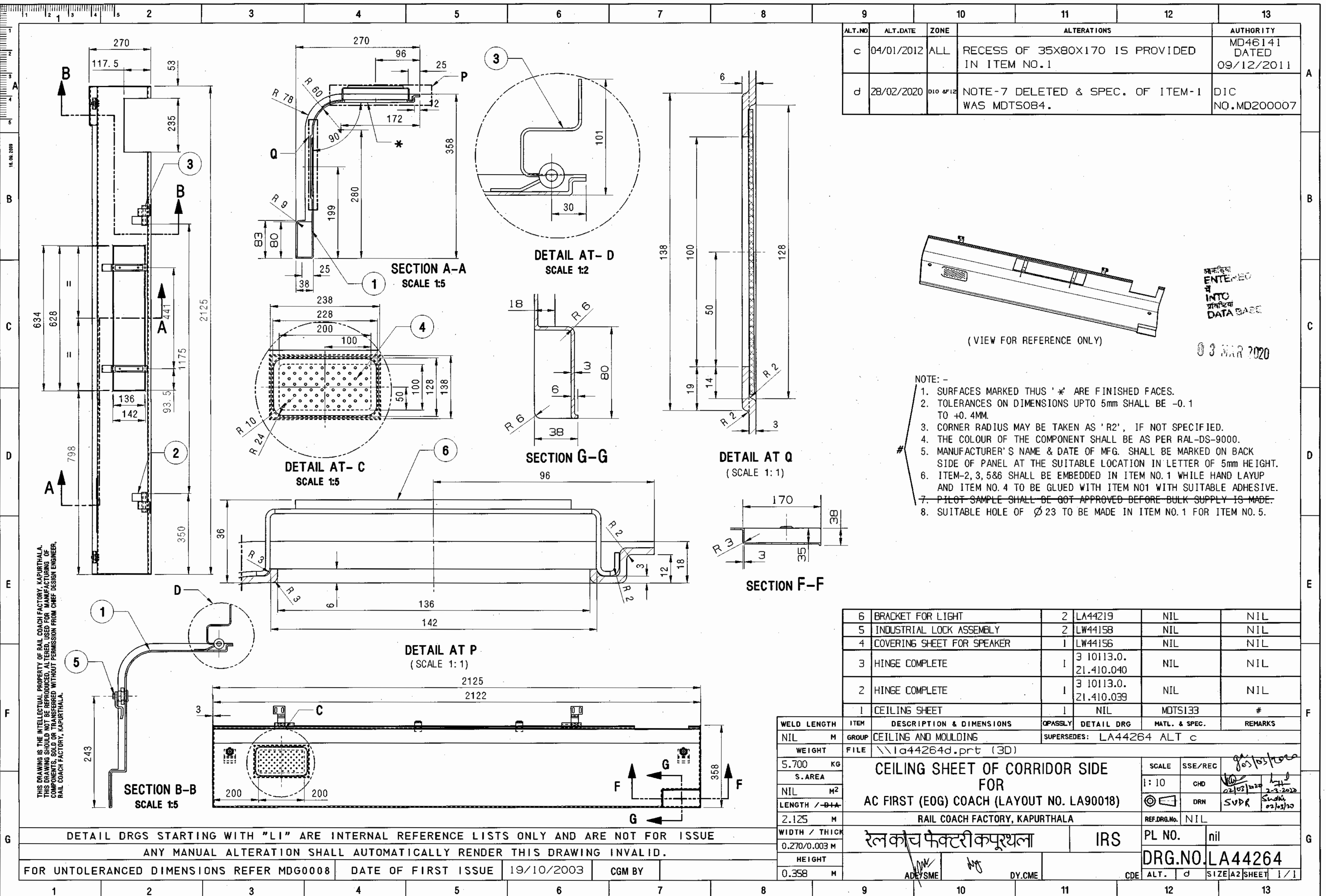


ALT. NO	ALT. DATE	ZONE	ALTERATIONS	AUTHORITY
a	06/04/2004	ALL E10	(I) DRAWING NUMBER OF ITEM NO.1 WAS LA44258. (III) ITEM NO.2 UPDATED. ITEM NOS. 18, 19, 20 & 21 ADDED.	DIC. NO.MD030178 DT.30/10/03
b	29/06/2004	ALL AB-EB	ITEM NOS.3,4,5,6,8,14 & 16 DELETED FROM BOM AND LABLES FROM VIEWS. SECTION-BB DELETED.	MD030178
c	22/10/2012	ALL	ITEM NO.1 MODIFIED ITEM NO. 15&17 DELETED AND VIEWS UPDATED ACCORDINGLY. SPEC FOR ITEM NO.13 WAS ISO:7049-83(E)	MD46141 DATED 02/05/2012

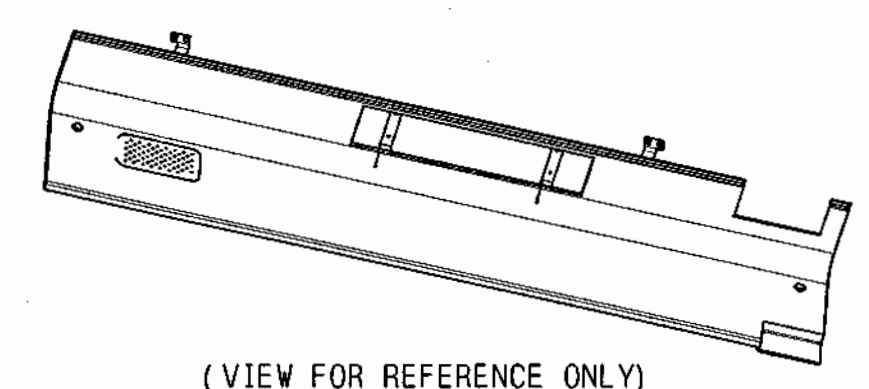
Entered
Date
30 OCT 2012

21	SLTD CSK HD TAPP SCREW ST3.5X16-C	6	LIHW03	IS: 7170-1989	ITEM-66
20	3M PRESSURE LOCK	3	SJ3457	NIL	NIL
19	CEILING FOAM 10X20X1200	1	NIL	NIL	NIL
18	CEILING PART	1	LA44328	NIL	NIL
17	SHIM 1X10X10	3	NIL	IS: 4820-88 TYPE-B	NIL
16	BRACKET FOR LIGHT	2	LA44219	NIL	NIL
15	TAPPING SCREW ST3.5X16-C-H	6	LIHW11	DIN7981, ISO: 7049-1983(E)	ITEM-6
14	HING COMPLETE	1	3 10113.0. 21.410.039	NIL	NIL
13	SLOTTED PAN HD TAPPING SCREW ST4.2X16-C(A2-70 TO IS4367,PT.14-84)	4	NIL	ISO: 7173-88 ISO: 1481	NIL
12	SPRING WASHER BB	14	LIHW09	IS: 3063-1994	ITEM-20 COATING TO MTS 057
11	STAINLESS STEEL MACHINE WASHER A8.4 (A2 TO IS4367 PT.14-1984)	14	LIHWS08	IS: 2016-1967 DIN125	ITEM-5
10	STAINLESS STEEL HEX NUT M8 (A2-70 TO IS4367 PT-14)	14	LIHWS08	IS: 1364 PT.3-92 ISO-4032	ITEM-3
9	SPECIAL HAMMER HEAD SCREW M8X30	14	LW44167	NIL	NIL
8	COVERING SHEET FOR SPEAKER	1	LW44156	NIL	NIL
7	BRACKET FOR INDUSTRIAL LOCK	2	LA44165	NIL	NIL
6	BRACKET FOR 3M LOCK	3	LW44176	NIL	NIL
5	INDUSTRIAL LOCK ASSEMBLY	2	LW44150	NIL	NIL
4	HING COMPLETE	1	3 10113.0. 21.410.040	NIL	NIL
3	SUPPORT FOR CEILING	3	LW44143	NIL	NIL
2	CEILING SHEET	1	LA44264	NIL	NIL
1	CEILING SHEET	1	LA44325	NIL	NIL

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	QUANTITY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL	M	CEILING & MOLDING		SUPERSEDES: LA44252 ALT b		
WEIGHT	FILE	\\la\la44252c.prt (3D)				
17.000	KG	PANEL ASSEMBLY CORRIDOR SIDE				
S.AREA		FOR				
NIL	M2	FIRST AC COACH (LAYOUT LA90018)				
LENGTH/DIA		RAIL COACH FACTORY, KAPURTHALA				
2.230	M	REF.DWG. NIL				
WIDTH/THICK.		रेलकोच फैक्टरी कपूरथला				
0.658	M	IRS				
HEIGHT		PL NO. NIL				
NIL	M	DRG.NO. LA44252				
		ALT. c	SIZE A	SHEET 1/1		



ALT.NO	ALT.DATE	ZONE	ALTERATIONS	AUTHORITY
c	04/01/2012	ALL	RECESS OF 35X80X170 IS PROVIDED IN ITEM NO.1	MD46141 DATED 09/12/2011
d	28/02/2020	D10 & F12	NOTE-7 DELETED & SPEC. OF ITEM-1 WAS MDT5084.	DIC NO.MD200007



ENTERED INTO DATA BASE
03 MAR 2020

- NOTE:-
1. SURFACES MARKED THUS '*' ARE FINISHED FACES.
 2. TOLERANCES ON DIMENSIONS UPTO 5mm SHALL BE -0.1 TO +0.4MM.
 3. CORNER RADIUS MAY BE TAKEN AS 'R2', IF NOT SPECIFIED.
 4. THE COLOUR OF THE COMPONENT SHALL BE AS PER RAL-DS-9000.
 5. MANUFACTURER'S NAME & DATE OF MFG. SHALL BE MARKED ON BACK SIDE OF PANEL AT THE SUITABLE LOCATION IN LETTER OF 5mm HEIGHT.
 6. ITEM-2, 3, 5&6 SHALL BE EMBEDDED IN ITEM NO.1 WHILE HAND LAYUP AND ITEM NO.4 TO BE GLUED WITH ITEM NO1 WITH SUITABLE ADHESIVE.
 7. PILOT SAMPLE SHALL BE GOT APPROVED BEFORE BULK SUPPLY IS MADE.
 8. SUITABLE HOLE OF Ø 23 TO BE MADE IN ITEM NO.1 FOR ITEM NO.5.

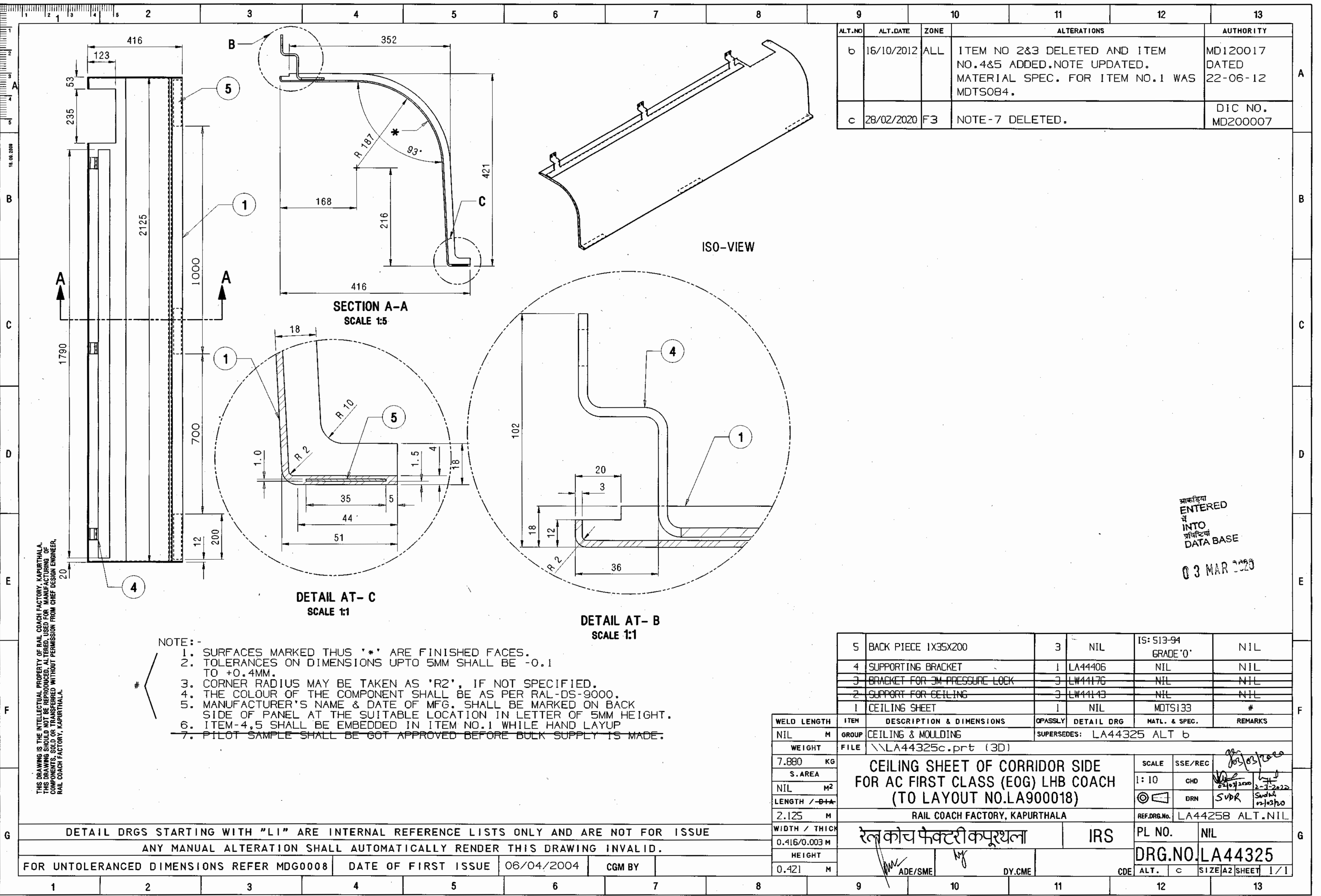
6	BRACKET FOR LIGHT	2	LA44219	NIL	NIL
5	INDUSTRIAL LOCK ASSEMBLY	2	LW44158	NIL	NIL
4	COVERING SHEET FOR SPEAKER	1	LW44156	NIL	NIL
3	HINGE COMPLETE	1	3 10113.0. 21.410.040	NIL	NIL
2	HINGE COMPLETE	1	3 10113.0. 21.410.039	NIL	NIL
1	CEILING SHEET	1	NIL	MDTS133	#

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	OPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL	M	GROUP	CEILING AND MOULDING	SUPERSEDES: LA44264 ALT c		
WEIGHT	FILE	\\la44264d.prt (3D)				
5.700	KG	CEILING SHEET OF CORRIDOR SIDE FOR AC FIRST (EOG) COACH (LAYOUT NO. LA90018)				
S.AREA		RAIL COACH FACTORY, KAPURTHALA				
NIL	M2	SCALE 1:10				
LENGTH / DIA		CHD				
2.125	M	DRN				
WIDTH / THICK		REF.DRG.No. NIL				
0.270/0.003	M	PL NO. nil				
HEIGHT		DRG.NO. LA44264				
0.358	M	ALT. d SIZE A2 SHEET 1/1				

THIS DRAWING IS THE INTELLECTUAL PROPERTY OF RAIL COACH FACTORY, KAPURTHALA. THIS DRAWING SHOULD NOT BE REPRODUCED, ALTERED, USED FOR MANUFACTURING OF COMPONENTS, SOLD OR TRANSFERRED WITHOUT PERMISSION FROM CHIEF DESIGN ENGINEER, RAIL COACH FACTORY, KAPURTHALA.

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.

FOR UNTOLERANCED DIMENSIONS REFER MDG0008
DATE OF FIRST ISSUE 19/10/2003
CGM BY



ALT.NO	ALT.DATE	ZONE	ALTERATIONS	AUTHORITY
b	16/10/2012	ALL	ITEM NO 2&3 DELETED AND ITEM NO.4&5 ADDED.NOTE UPDATED. MATERIAL SPEC. FOR ITEM NO.1 WAS MDTSO84.	MD120017 DATED 22-06-12
c	28/02/2020	F3	NOTE-7 DELETED.	DIC NO. MD200007

आकृति
ENTERED
में
INTO
प्रविष्टि
DATA BASE
03 MAR 2020

5	BACK PIECE 1X35X200	3	NIL	IS:513-94 GRADE 'O'	NIL
4	SUPPORTING BRACKET	1	LA44406	NIL	NIL
3	BRACKET FOR JM PRESSURE LOCK	3	LW44176	NIL	NIL
2	SUPPORT FOR CEILING	3	LW44143	NIL	NIL
1	CEILING SHEET	1	NIL	MDTS133	#

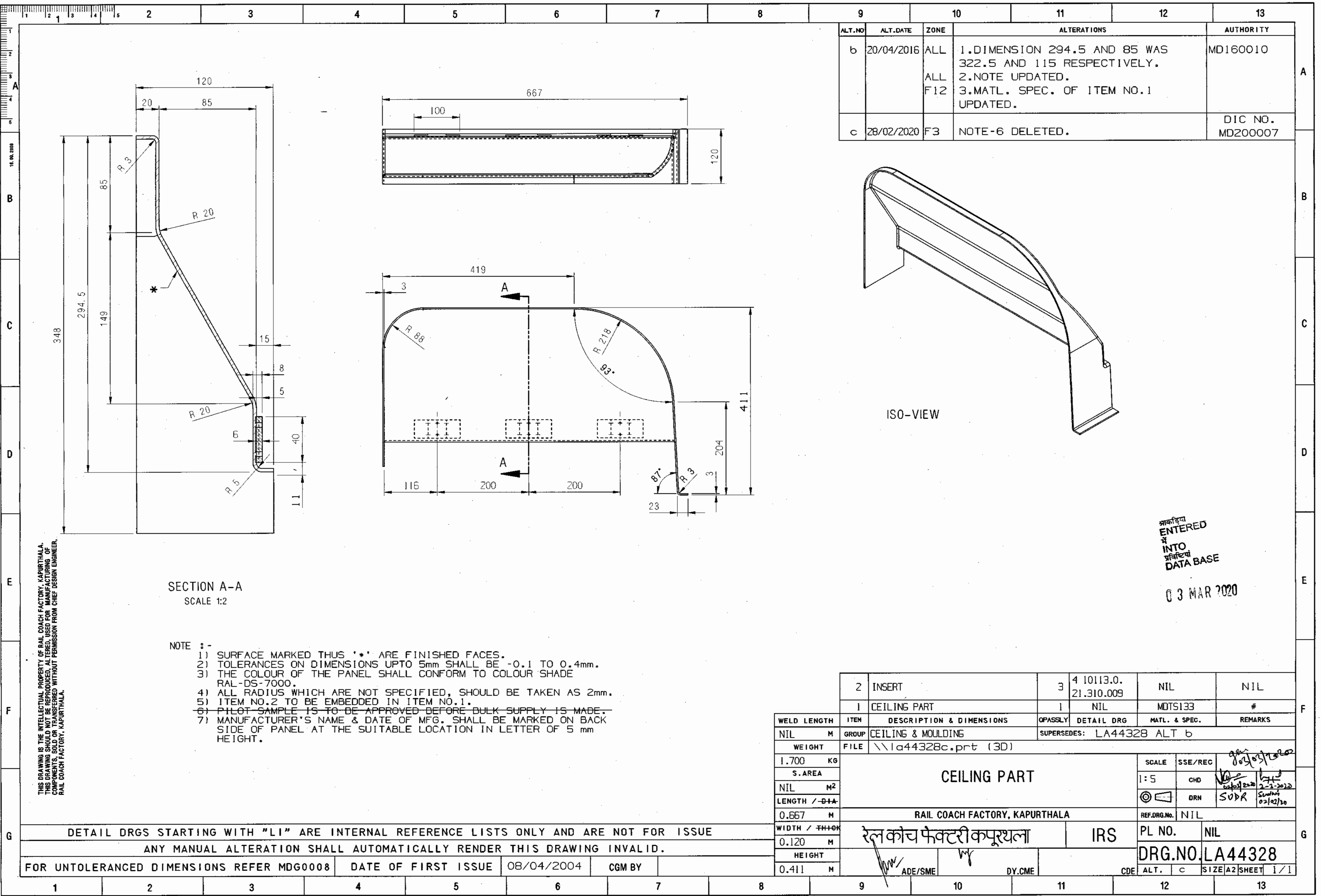
WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	OPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL	M	GROUP	CEILING & MOULDING	SUPERSEDES:	LA44325 ALT b	
WEIGHT	FILE	\\LA44325c.prt (3D)				
7.880	KG	CEILING SHEET OF CORRIDOR SIDE FOR AC FIRST CLASS (EOG) LHB COACH (TO LAYOUT NO.LA900018)				
S.AREA		RAIL COACH FACTORY, KAPURTHALA				
NIL	M ²	SCALE 1:10 CHD DRN				
LENGTH / DIA		REF.DRG.No. LA44258 ALT.NIL				
2.125	M	PL NO. NIL				
WIDTH / THICK		DRG.NO. LA44325				
0.416/0.003	M	ADE/SME DY.CME CDE				
HEIGHT		ALT. C SIZE A2 SHEET 1/1				
0.421	M					

THIS DRAWING IS THE INTELLECTUAL PROPERTY OF RAIL COACH FACTORY, KAPURTHALA. THIS DRAWING SHOULD NOT BE REPRODUCED, ALTERED, USED FOR MANUFACTURING OF COMPONENTS, SOLD OR TRANSFERRED WITHOUT PERMISSION FROM CHIEF DESIGN ENGINEER, RAIL COACH FACTORY, KAPURTHALA.

- NOTE:-
1. SURFACES MARKED THUS '*' ARE FINISHED FACES.
 2. TOLERANCES ON DIMENSIONS UPTO 5MM SHALL BE -0.1 TO +0.4MM.
 3. CORNER RADIUS MAY BE TAKEN AS 'R2', IF NOT SPECIFIED.
 4. THE COLOUR OF THE COMPONENT SHALL BE AS PER RAL-DS-9000.
 5. MANUFACTURER'S NAME & DATE OF MFG. SHALL BE MARKED ON BACK SIDE OF PANEL AT THE SUITABLE LOCATION IN LETTER OF 5MM HEIGHT.
 6. ITEM-4,5 SHALL BE EMBEDDED IN ITEM NO.1 WHILE HAND LAYUP
 7. PILOT SAMPLE SHALL BE GOT APPROVED BEFORE BULK SUPPLY IS MADE.

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.

FOR UNTOLERANCED DIMENSIONS REFER MDG0008 DATE OF FIRST ISSUE 06/04/2004 CGM BY



SECTION A-A
SCALE 1:2

NOTE :-

- 1) SURFACE MARKED THUS '*' ARE FINISHED FACES.
- 2) TOLERANCES ON DIMENSIONS UPTO 5mm SHALL BE -0.1 TO 0.4mm.
- 3) THE COLOUR OF THE PANEL SHALL CONFORM TO COLOUR SHADE RAL-DS-7000.
- 4) ALL RADIUS WHICH ARE NOT SPECIFIED, SHOULD BE TAKEN AS 2mm.
- 5) ITEM NO.2 TO BE EMBEDDED IN ITEM NO.1.
- 6) PILOT SAMPLE IS TO BE APPROVED BEFORE BULK SUPPLY IS MADE.
- 7) MANUFACTURER'S NAME & DATE OF MFG. SHALL BE MARKED ON BACK SIDE OF PANEL AT THE SUITABLE LOCATION IN LETTER OF 5 mm HEIGHT.

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE

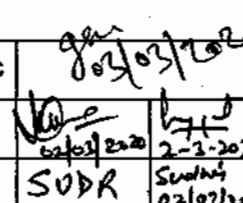
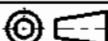
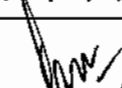

ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.

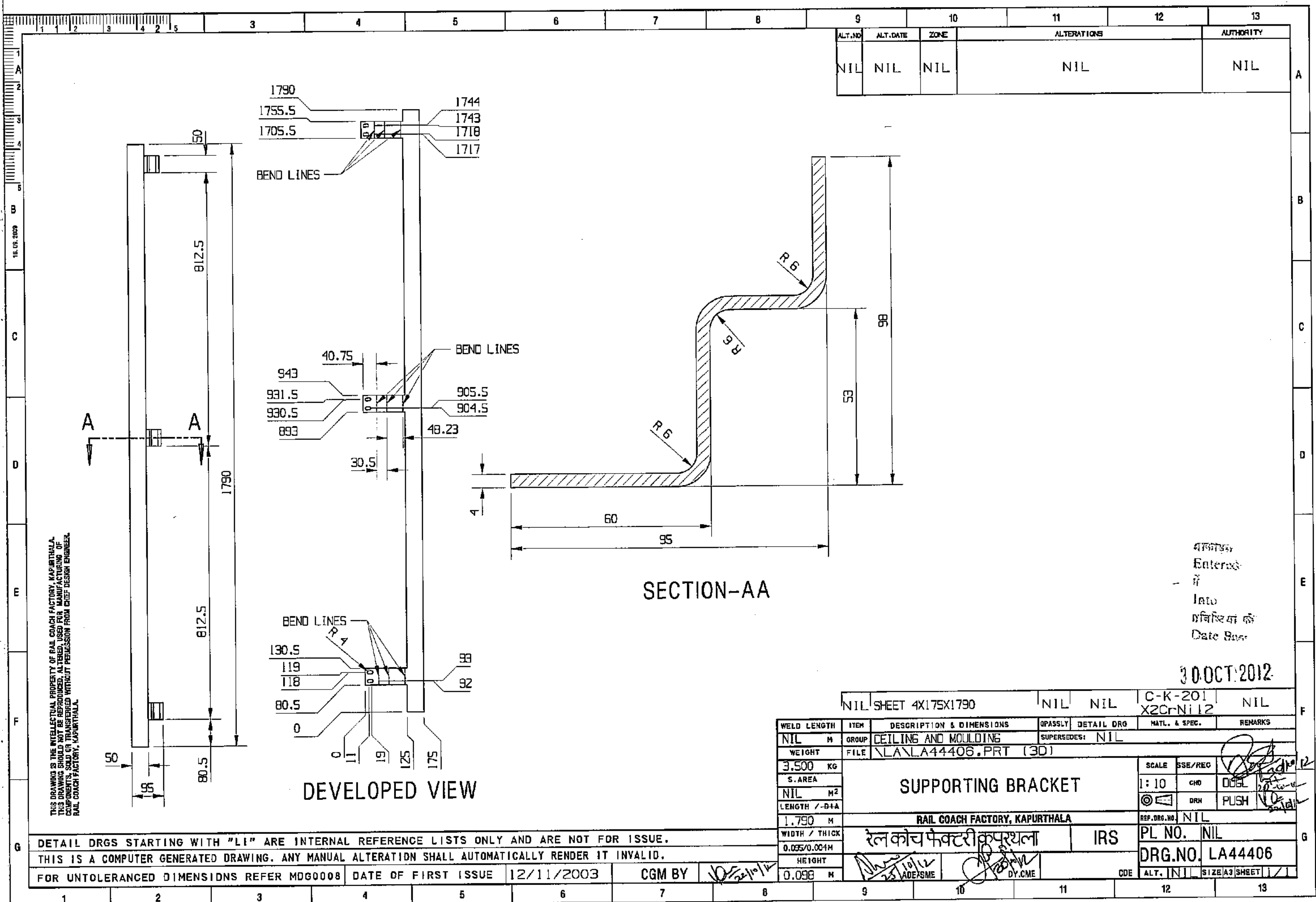
FOR UNTOLERANCED DIMENSIONS REFER MDG0008

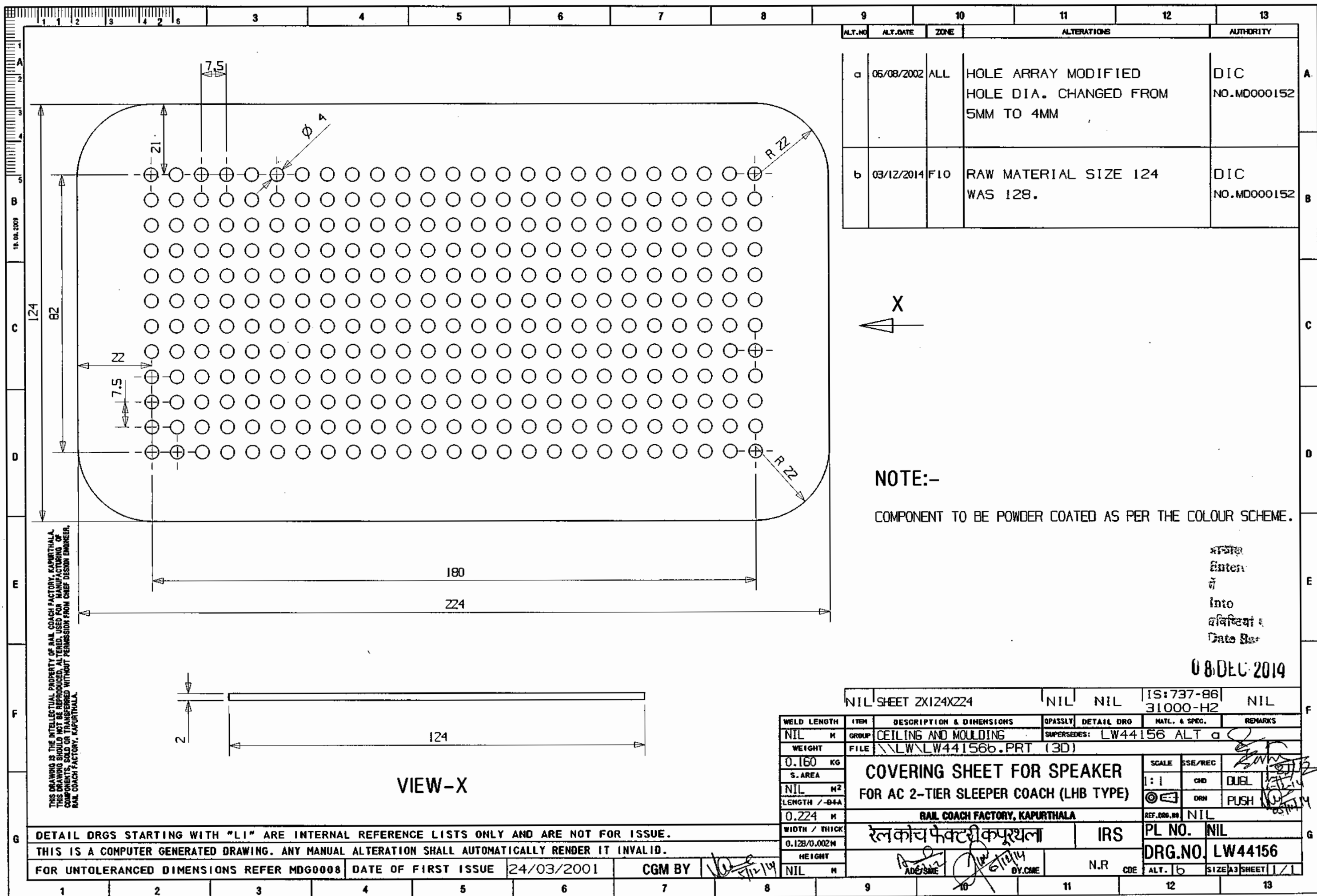
DATE OF FIRST ISSUE

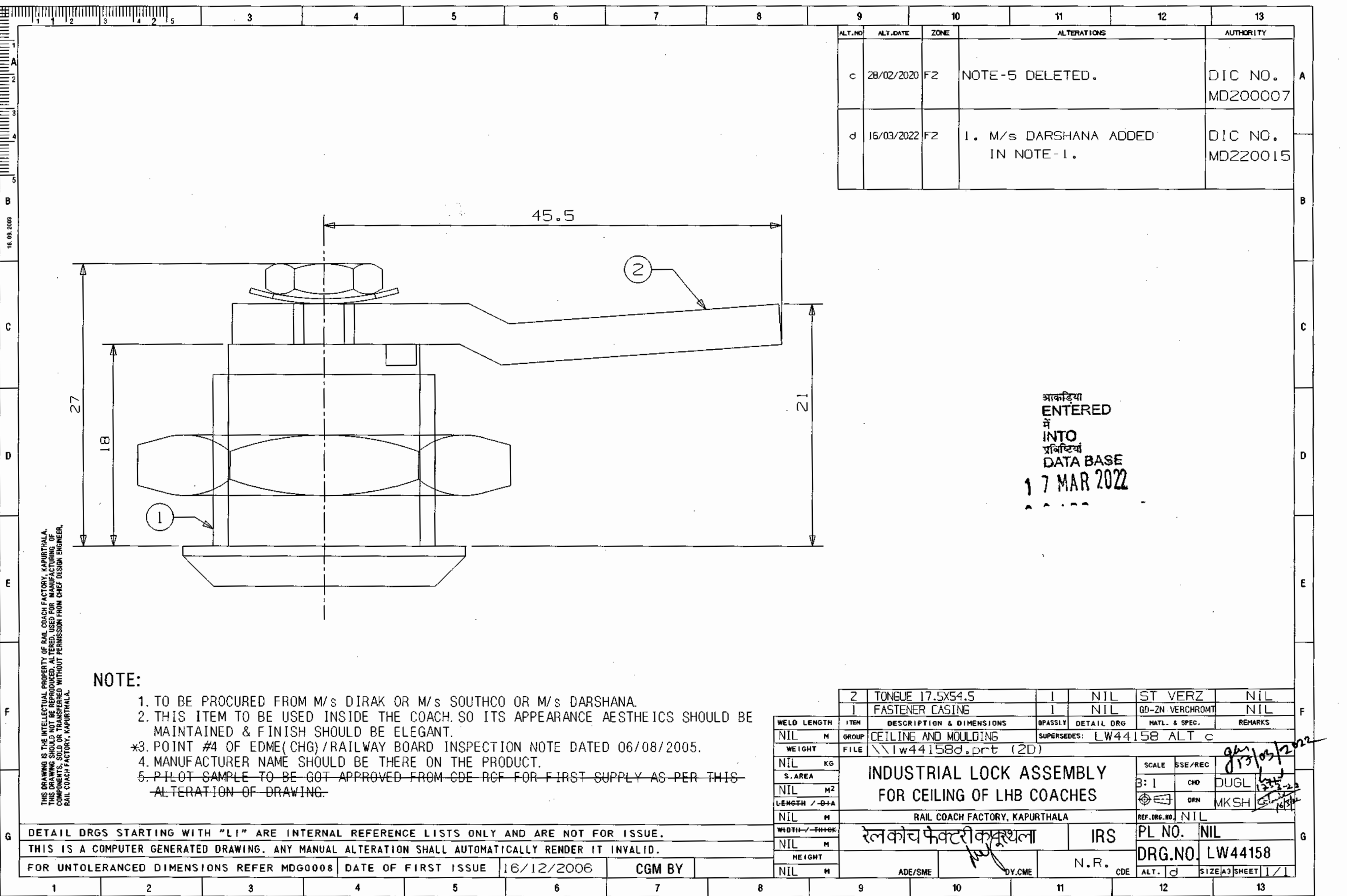
08/04/2004

CGM BY

2	INSERT	3	4 10113.0. 21.310.009	NIL	NIL	
1	CEILING PART	1	NIL	MDTS133	#	
ITEM	DESCRIPTION & DIMENSIONS		QPASSLY	DETAIL DRG	MATL. & SPEC.	
GROUP	CEILING & MOULDING		SUPERSEDES: LA44328 ALT b			
FILE	\\la44328c.prt (3D)					
CEILING PART			SCALE	SSE/REC		
			1:5	CHD		
				DRN		SUDR
			2-3-2022 Sudhanshu 02/02/20			
RAIL COACH FACTORY, KAPURTHALA			REF.DRG.No.	NIL		
रेल कोच फैक्टरी कपूरथला			IRS	PL NO.	NIL	
 ADE/SME			 DY.CME	DRG.NO. LA44328		
				ALT.	C	SIZE







ALT.NO	ALT.DATE	ZONE	ALTERATIONS	AUTHORITY
c	28/02/2020	F2	NOTE-5 DELETED.	DIC NO. MD200007
d	16/03/2022	F2	1. M/s DARSHANA ADDED IN NOTE-1.	DIC NO. MD220015

आकडिया
ENTERED
मे
INTO
प्रविष्टिया
DATA BASE
17 MAR 2022

THIS DRAWING IS THE INTELLECTUAL PROPERTY OF RAIL COACH FACTORY, KAPURTHALA.
THIS DRAWING SHOULD NOT BE REPRODUCED, ALTERED, USED FOR MANUFACTURING OF
COMPONENTS, SOLD OR TRANSFERRED WITHOUT PERMISSION FROM CHIEF DESIGN ENGINEER,
RAIL COACH FACTORY, KAPURTHALA.

- NOTE:
1. TO BE PROCURED FROM M/s DIRAK OR M/s SOUTHCO OR M/s DARSHANA.
 2. THIS ITEM TO BE USED INSIDE THE COACH. SO ITS APPEARANCE AESTHEICS SHOULD BE MAINTAINED & FINISH SHOULD BE ELEGANT.
 - *3. POINT #4 OF EDME(CHG)/RAILWAY BOARD INSPECTION NOTE DATED 06/08/2005.
 4. MANUFACTURER NAME SHOULD BE THERE ON THE PRODUCT.
 5. PILOT SAMPLE TO BE GOT APPROVED FROM CDE RCF FOR FIRST SUPPLY AS PER THIS ALTERATION OF DRAWING.

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE.
THIS IS A COMPUTER GENERATED DRAWING. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER IT INVALID.
FOR UNTOLERANCED DIMENSIONS REFER MDG0008 DATE OF FIRST ISSUE 16/12/2006 CGM BY

	2	TONGUE 17.5X54.5	1	NIL	ST VERZ	NIL	
	1	FASTENER CASING	1	NIL	GD-ZN VERCHROMT	NIL	
WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	DPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS	
NIL	M	GROUP	CEILING AND MOULDING	SUPERSEDES:	LW44158 ALT c		
WEIGHT	FILE	\\lw44158d.prt (2D)					
NIL	KG	INDUSTRIAL LOCK ASSEMBLY FOR CEILING OF LHB COACHES			SCALE	SSE/REC	
S. AREA					3:1	CHD	DUGL
NIL	M ²					DRN	MKSH
LENGTH / -DIA							
NIL	M	RAIL COACH FACTORY, KAPURTHALA			REF.DRG.NO.	NIL	
WIDTH / -THICK		रेलकोच फेक्टरी कपूरथला			PL NO.	NIL	
NIL	M	IRS			DRG.NO.	LW44158	
HEIGHT		N.R.			ALT.	d	
NIL	M	ADE/SME	DY.CME	CDE	SIZE	A3 SHEET 1/1	

<div style="display: flex; justify-content: space-between;"> <div> <p>1 2 3 4 5 6 7 8 9 10 11 12 13</p> <p>A</p> <p>B</p> <p>C</p> <p>D</p> <p>E</p> <p>F</p> <p>G</p> </div> <div> <table border="1"> <tr> <th>ALT. NO.</th> <th>ALT. DATE</th> <th>ZONE</th> <th>ALTERATIONS</th> <th>AUTHORITY</th> </tr> <tr> <td>0</td> <td>17/05/2013</td> <td>C3</td> <td>DIM 24&7 WERE 22&6MM RESP.</td> <td>DIC NO MD130024</td> </tr> <tr> <td></td> <td></td> <td>F8</td> <td>WEIGHT WAS 0.018KG</td> <td></td> </tr> </table> </div> </div>													ALT. NO.	ALT. DATE	ZONE	ALTERATIONS	AUTHORITY	0	17/05/2013	C3	DIM 24&7 WERE 22&6MM RESP.	DIC NO MD130024			F8	WEIGHT WAS 0.018KG																																																																																																																																	
ALT. NO.	ALT. DATE	ZONE	ALTERATIONS	AUTHORITY																																																																																																																																																							
0	17/05/2013	C3	DIM 24&7 WERE 22&6MM RESP.	DIC NO MD130024																																																																																																																																																							
		F8	WEIGHT WAS 0.018KG																																																																																																																																																								
				<p>ISO VIEW</p>																																																																																																																																																							
								<p>Entered into Date Recd 20 MAY 2013</p>																																																																																																																																																			
<p>NOTE:- COMPONENT TO BE MADE BY FORGING PROCESS ONLY.</p>																																																																																																																																																											
<table border="1"> <tr> <td colspan="2">NIL</td> <td colspan="2">SPECIAL HAMMER HEAD SCREW</td> <td colspan="2">NIL</td> <td colspan="2">NIL</td> <td colspan="2">IS:1367-2002 PART-3, 4.6</td> <td colspan="2">COATING TO MTS 057</td> </tr> <tr> <td>WELD LENGTH</td> <td>ITEM</td> <td colspan="2">DESCRIPTION & DIMENSIONS</td> <td>OPASSLY</td> <td>DETAIL DRG</td> <td colspan="2">MATH. & SPEC.</td> <td colspan="2">REMARKS</td> <td colspan="2"></td> </tr> <tr> <td>NIL</td> <td>M</td> <td>GROUP</td> <td>CEILING AND PANNELLING</td> <td colspan="2">SUPERSEDES: LW44167</td> <td colspan="2">ALT NIL</td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td>WEIGHT</td> <td>FILE</td> <td colspan="10">//1hb/1w/1w44167a.prt (3d)</td> </tr> <tr> <td>0.019 KG</td> <td colspan="2"></td> <td colspan="4" rowspan="4"> SPECIAL HAMMER HEAD SCREW M8X30 FOR LHB TYPE COACHES RAIL COACH FACTORY, KAPURTHALA </td> <td>SCALE</td> <td>SSE/REC</td> <td colspan="2"></td> </tr> <tr> <td>S. AREA</td> <td colspan="2"></td> <td>2:1</td> <td>CHD</td> <td>DUGL</td> <td colspan="2"></td> </tr> <tr> <td>0.0014 M²</td> <td colspan="2"></td> <td>ORN</td> <td>PUSH</td> <td colspan="2"></td> </tr> <tr> <td>LENGTH / DIA</td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td>0.024 M</td> <td colspan="2"></td> <td colspan="4"></td> <td>REF. DRG. NO.</td> <td colspan="2">NIL</td> <td colspan="2"></td> </tr> <tr> <td>WIDTH / THICK</td> <td colspan="2"></td> <td colspan="4">रेल कोच फेक्टरी कपूरथला</td> <td>IRS</td> <td colspan="2">PL NO.</td> <td colspan="2">NIL</td> </tr> <tr> <td>0.011 M</td> <td colspan="2"></td> <td colspan="4"></td> <td></td> <td colspan="2">DRG. NO.</td> <td colspan="2">LW44167</td> </tr> <tr> <td>HEIGHT</td> <td colspan="2"></td> <td colspan="4">ADE/SME</td> <td>N.R</td> <td>CDE</td> <td colspan="2">ALT.</td> <td colspan="2">SIZE A3 SHEET 1/1</td> </tr> <tr> <td>0.034 M</td> <td colspan="2"></td> <td colspan="4"></td> <td></td> <td></td> <td colspan="2"></td> <td colspan="2"></td> </tr> </table>													NIL		SPECIAL HAMMER HEAD SCREW		NIL		NIL		IS:1367-2002 PART-3, 4.6		COATING TO MTS 057		WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS		OPASSLY	DETAIL DRG	MATH. & SPEC.		REMARKS				NIL	M	GROUP	CEILING AND PANNELLING	SUPERSEDES: LW44167		ALT NIL						WEIGHT	FILE	//1hb/1w/1w44167a.prt (3d)										0.019 KG			SPECIAL HAMMER HEAD SCREW M8X30 FOR LHB TYPE COACHES RAIL COACH FACTORY, KAPURTHALA				SCALE	SSE/REC			S. AREA			2:1	CHD	DUGL			0.0014 M ²			ORN	PUSH			LENGTH / DIA							0.024 M							REF. DRG. NO.	NIL				WIDTH / THICK			रेल कोच फेक्टरी कपूरथला				IRS	PL NO.		NIL		0.011 M								DRG. NO.		LW44167		HEIGHT			ADE/SME				N.R	CDE	ALT.		SIZE A3 SHEET 1/1		0.034 M												
NIL		SPECIAL HAMMER HEAD SCREW		NIL		NIL		IS:1367-2002 PART-3, 4.6		COATING TO MTS 057																																																																																																																																																	
WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS		OPASSLY	DETAIL DRG	MATH. & SPEC.		REMARKS																																																																																																																																																			
NIL	M	GROUP	CEILING AND PANNELLING	SUPERSEDES: LW44167		ALT NIL																																																																																																																																																					
WEIGHT	FILE	//1hb/1w/1w44167a.prt (3d)																																																																																																																																																									
0.019 KG			SPECIAL HAMMER HEAD SCREW M8X30 FOR LHB TYPE COACHES RAIL COACH FACTORY, KAPURTHALA				SCALE	SSE/REC																																																																																																																																																			
S. AREA							2:1	CHD	DUGL																																																																																																																																																		
0.0014 M ²							ORN	PUSH																																																																																																																																																			
LENGTH / DIA																																																																																																																																																											
0.024 M							REF. DRG. NO.	NIL																																																																																																																																																			
WIDTH / THICK			रेल कोच फेक्टरी कपूरथला				IRS	PL NO.		NIL																																																																																																																																																	
0.011 M								DRG. NO.		LW44167																																																																																																																																																	
HEIGHT			ADE/SME				N.R	CDE	ALT.		SIZE A3 SHEET 1/1																																																																																																																																																
0.034 M																																																																																																																																																											
<p>DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE.</p> <p>THIS IS A COMPUTER GENERATED DRAWING. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER IT INVALID.</p> <p>FOR UNTOLERANCED DIMENSIONS REFER MDG0008</p>																																																																																																																																																											
<table border="1"> <tr> <td>DATE OF FIRST ISSUE</td> <td>07/06/2001</td> <td>CGM BY</td> <td colspan="10"></td> </tr> </table>													DATE OF FIRST ISSUE	07/06/2001	CGM BY																																																																																																																																												
DATE OF FIRST ISSUE	07/06/2001	CGM BY																																																																																																																																																									

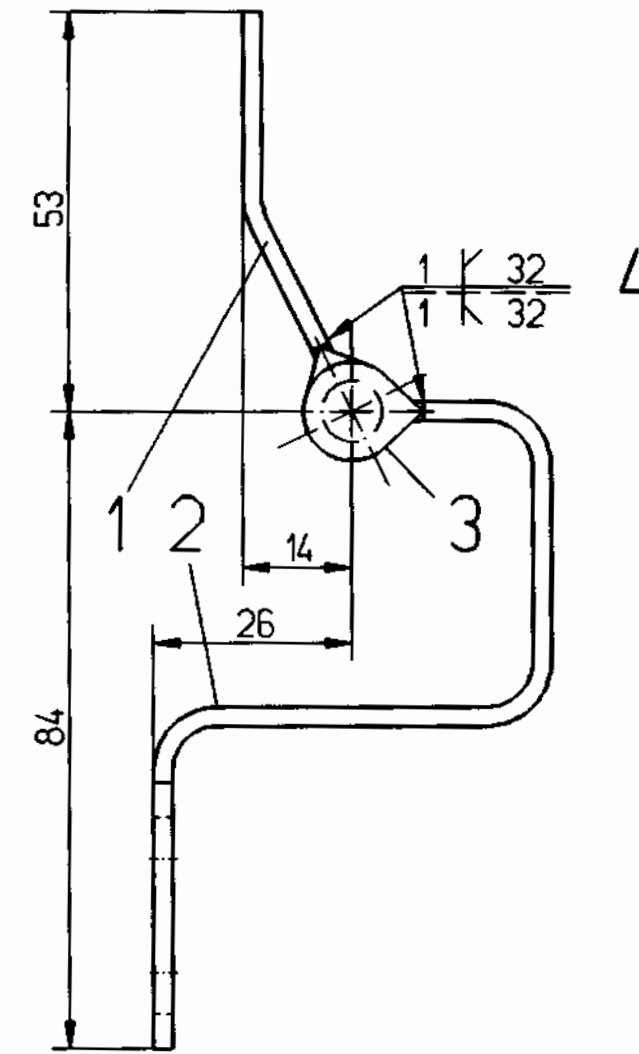
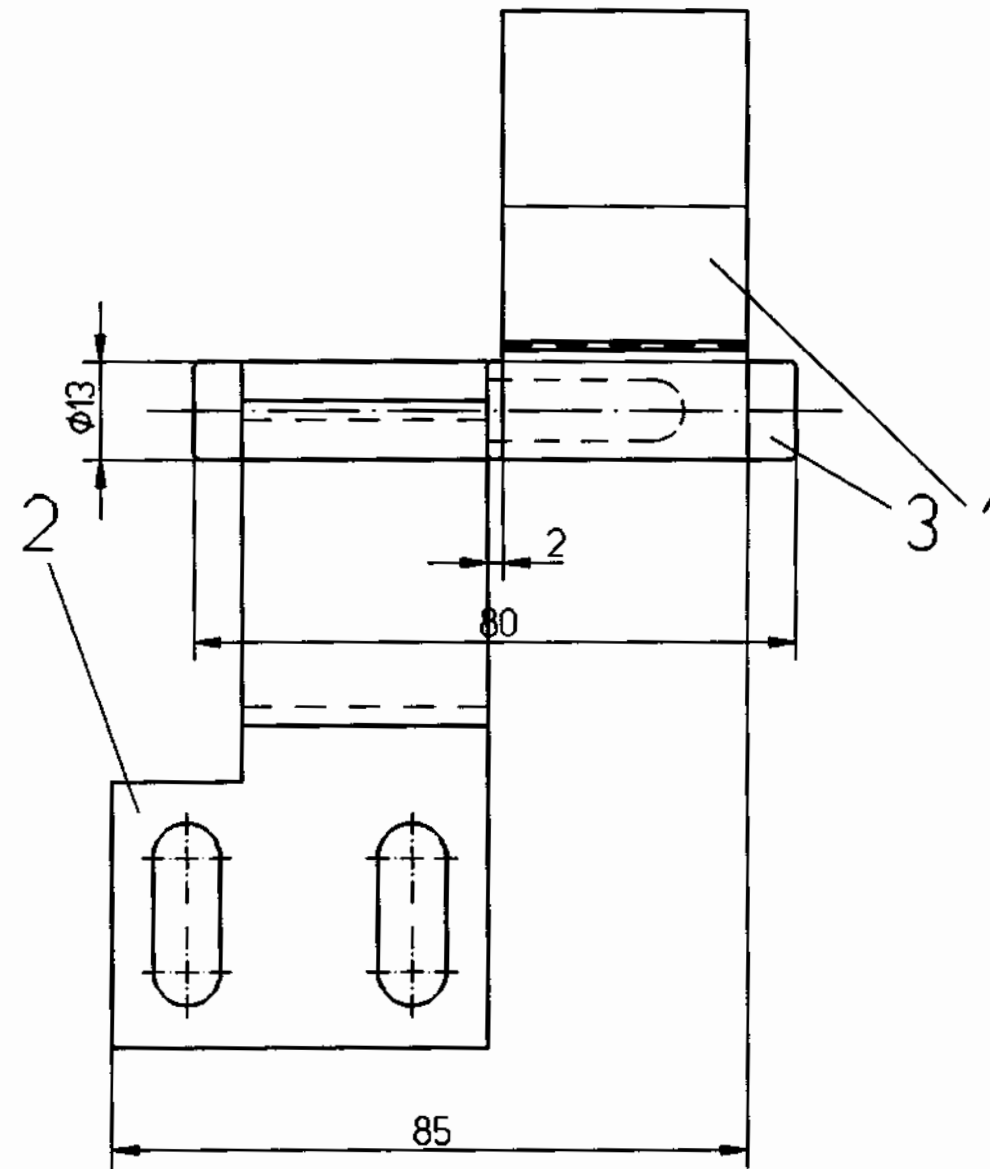
THIS DRAWING IS THE INTELLECTUAL PROPERTY OF RAIL COACH FACTORY, KAPURTHALA. THIS DRAWING SHOULD NOT BE REPRODUCED, ALTERED, USED FOR MANUFACTURING OF COMPONENTS, SOLD OR TRANSFERRED WITHOUT PERMISSION FROM CHIEF DESIGN ENGINEER, RAIL COACH FACTORY, KAPURTHALA.

30.04.98 16:22

Fall der Erweiterung der Vertragsdauer, die auf eine
unserer verbleibende Zeichnung oder sonstigen, nach Drilling
zugänglich gemacht, nach in anderer Weise ausdrücklich vermerkt werden.

This drawing is restricted for use in accordance
to clause 15 and 16 of the contract for Transfer of
Technology for all Metall Light Weight High Speed
Coaches BG(1676mm)No.95/DEV.Cell/LM/Coach
dated 16.10.95 of the Project IR-Coach.

Diese Zeichnung darf nur verwendet werden im Zusammenhang
mit den Klauseln 15 und 16 des Technologietransfervertrages
für Leichtbau-Hochgeschwindigkeitswagen aus Metall
Breitspur(1676mm)Nr.95/DEV.Cell/LM/Coach
vom 16.10.95 des Projekts Reisezugwagen IR.



spiegelbildlich gleich zu Zeichnung 3 10113.0.21.410.040
mirror imaged equal to drawing 3 10113.0.21.410.040

K_0723602_00_000_01

FERTIGUNGSLOT

Verwendbar für:

ZEICHNUNG DARF NUR IM CAD-SYSTEM GEÄNDERT WERDEN

INDIAN
RAILWAYS

Maße ohne
Toleranzangabe
ISO 2768-mK
DIN 8570-BF

Oberflächen
DIN ISO 1302

Ausgabe
Datum
Maßstab 1:1

	Datum	Name
Bearb.	04.98	FKBauer
Gepr.	04.98	Schlörff
Norm.	04.98	FKBauer
Fert.		

Scharnier, vollst.
hinge, compl.

Linke-Hofmann-Busch
GmbH
Salzgitter-Watenstedt

3 10113.0.21.410.039

Blatt 01

Zust.	Änderung	Datum	Name	Urspr.	Ers. f.	Ers. d.

PA5Kotschke 27.09.100 11:10:38 150540 1.000

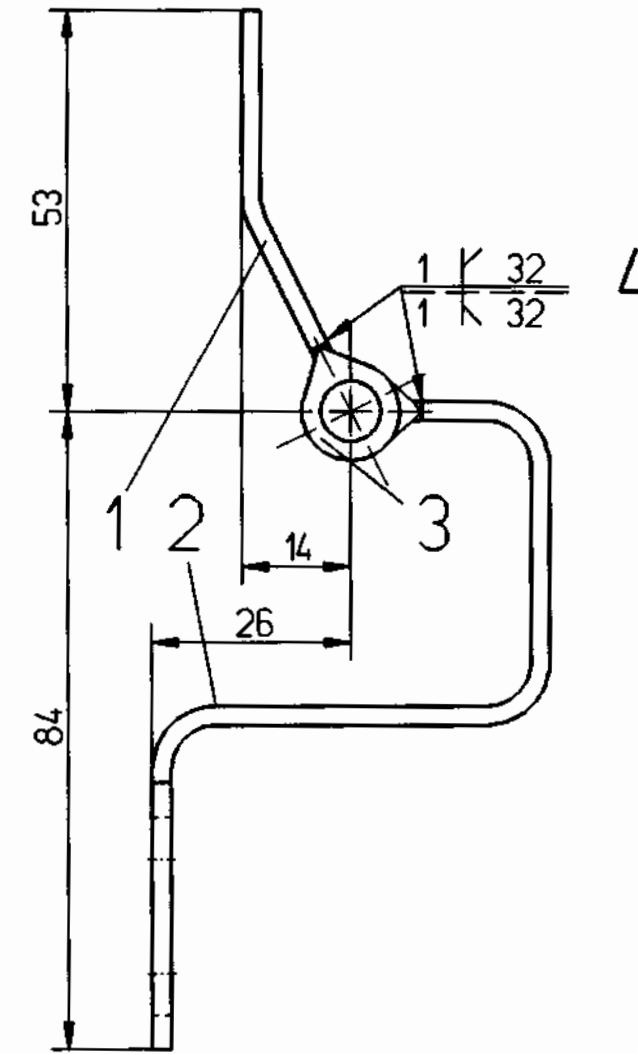
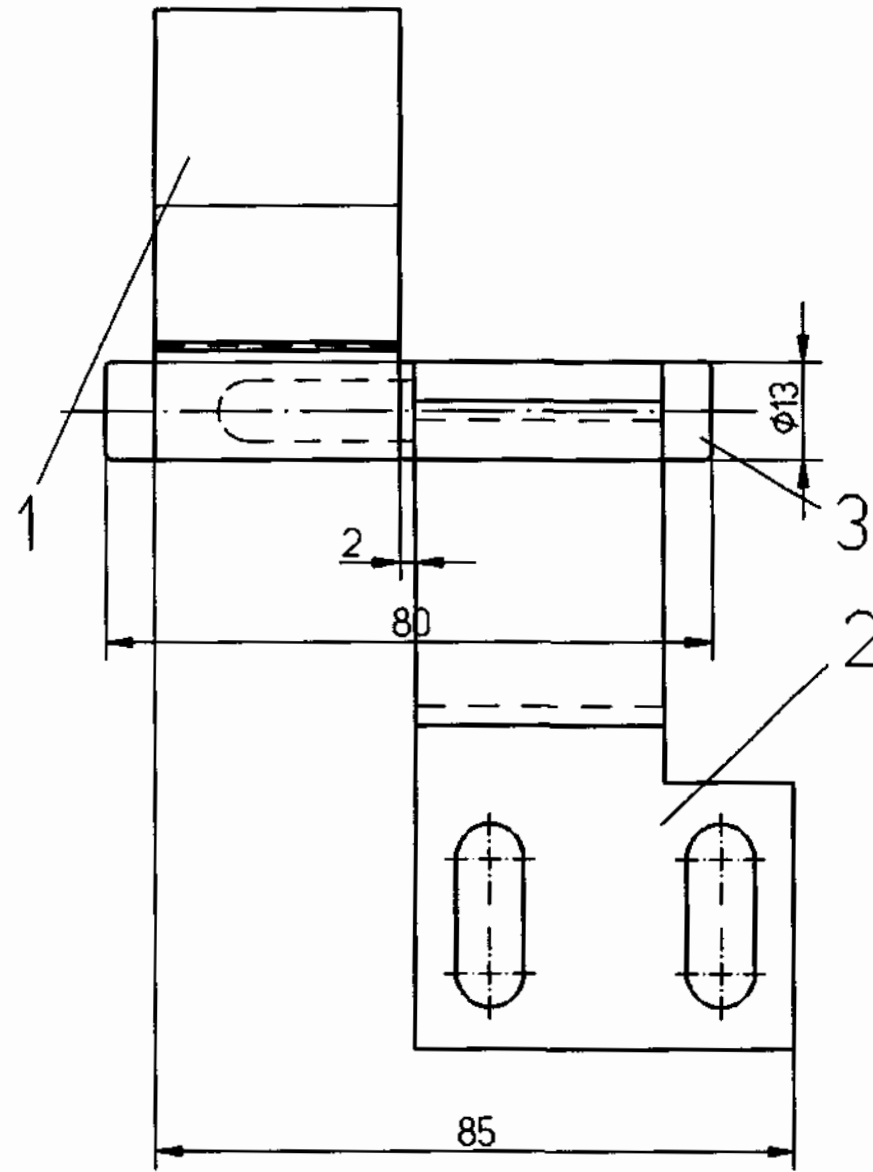
1	2				3	4	5	6	7	8
Pos.	D	C	B	A	Einheit	Benennung	Sachnummer / Norm-Kurzbezeichnung	Werkstoff	Gewicht kg / Einheit	Bemerkung
	-	-	-	X		hinge, compl.	01025095		0,252	
001	-	-	-	1	STK	hinge part	4 10113.0.21.410.047P. 1 01025089		0,029	
002	-	-	-	1	STK	hinge part	3 10113.0.21.410.044P. 1 01025086		0,137	
003	-	-	-	1	STK	hinge	Art.Nr.7352808 80Lg 01025092	1.4305	0,085	Fa.Emil Kaltenbach
004	-	-	-	,128	M	HY-WELD 1	DS95201 -2a 00310544	DIN8556 -1.4316		
	-	-	-	X	*	: ***** Die los niertei montage *****	***** e aufgesteckten Schar- le müssen der Endmon- mit angeliefert werden *****			
Angaben zu den Mengenspalten						Zeichng. St. Ausg. Zustand	Änderung / Datum			
A	ACFCZ/L; ACCZ/L					00 0		INDIAN RAILWAYS		
B								Bearb. 04.98 FKBAU Gepr. 10.98 TR3SCL	hinge, compl.	
C								Norm.		
D								ALSTOM LHB GmbH Linke-Hofmann-Busch-Straße Salzgitter-Watenstedt	3 10113.0.21.410.039 CAD Ers.f. -	Blatt 0723602 01 01 BL

FKBAU
30.04.98 16:49

Die Zeichnung ist Eigentum der Firma FKBAU. Sie ist nur zur Ausführung der Arbeit zu verwenden. Die Weitergabe an Dritte ist ohne schriftliche Genehmigung der Firma FKBAU untersagt. Die Firma FKBAU übernimmt keine Haftung für Schäden, die aus dem Gebrauch der Zeichnung resultieren.

This drawing is restricted for use in accordance to clause 15 and 16 of the contract for Transfer of Technology for all Metall Light Weight High Speed Coaches BG(1676mmNo.95/DEV.Call/LM/Coach dated 16.10.95 of the Project IR-Coach.

Diese Zeichnung darf nur verwendet werden im Zusammenhang mit den Klauseln 15 und 16 des Technologietransfervertrages für Leichtbau-Hochgeschwindigkeitswagen aus Metall Breitspur(1676mmNo.95/DEV.Call/LM/Coach vom 16.10.95 des Projekts Reisezugwagen IR.



spiegelbildlich gleich zu Zeichnung 3 10113.0.21.410.039
mirror imaged equal to drawing 3 10113.0.21.410.039

K_0723603_00_000_01

FERTIGUNGSPLOT

Verwendbar für:

ZEICHNUNG DARF NUR IM CAD-SYSTEM GEÄNDERT WERDEN

INDIAN
RAILWAYS

Maße ohne
Toleranzangabe:
ISO 2768-mK
DIN 8570-BF

Oberflächen
DIN ISO 1302

Bearb.	Datum	Name
Gepr.	04.98	FKBauer
Norm.	04.98	Schlörff
Fert.	04.98	FKBauer

Scharnier, vollst.
hinge, compl.

Linke-Hofmann-Busch
GmbH
Salzgitter-Watenstedt

3 10113.0.21.410.040

Blatt 01

Zust.	Änderung	Datum	Name	Urspr.	Ers. f.	Ers. d.

PA5Katschke 27.09.100 11:11:19 150540 1.000

1	2				3	4	5	6	7	8
Pos.	D	C	B	A	Einheit	Benennung	Sachnummer / Norm-Kurzbezeichnung	Werkstoff	Gewicht kg/ Einheit	Bemerkung
	-	-	-	X		hinge, compl.	01025096		0,252	
001	-	-	-	1	STK	hinge part	4 10113.0.21.410.047P. 1 01025089		0,029	
002	-	-	-	1	STK	hinge part	3 10113.0.21.410.043P. 1 01025087		0,137	
003	-	-	-	1	STK	hinge	Art.Nr.7352808 80Lg 01025092	1.4305	0,085	Fa.Emil Kaltenbach
004	-	-	-	,128	M	HY-WELD 1	DS95201 -2a 00310544	DIN8556 -1.4316		
	-	-	-	X	*	: ***** Die los niertei montage *****	***** e aufgesteckten Schar- le müssen der Endmon- mit angeliefert werden *****			

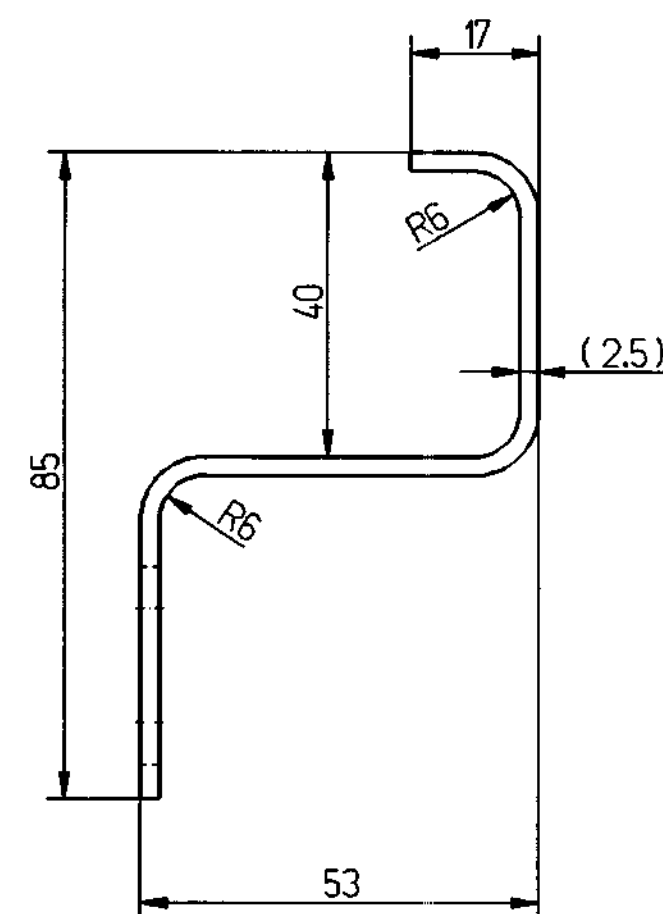
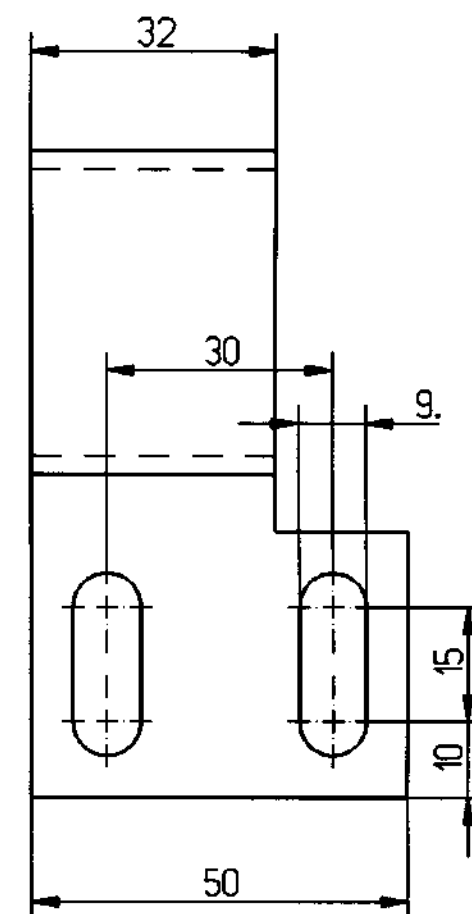
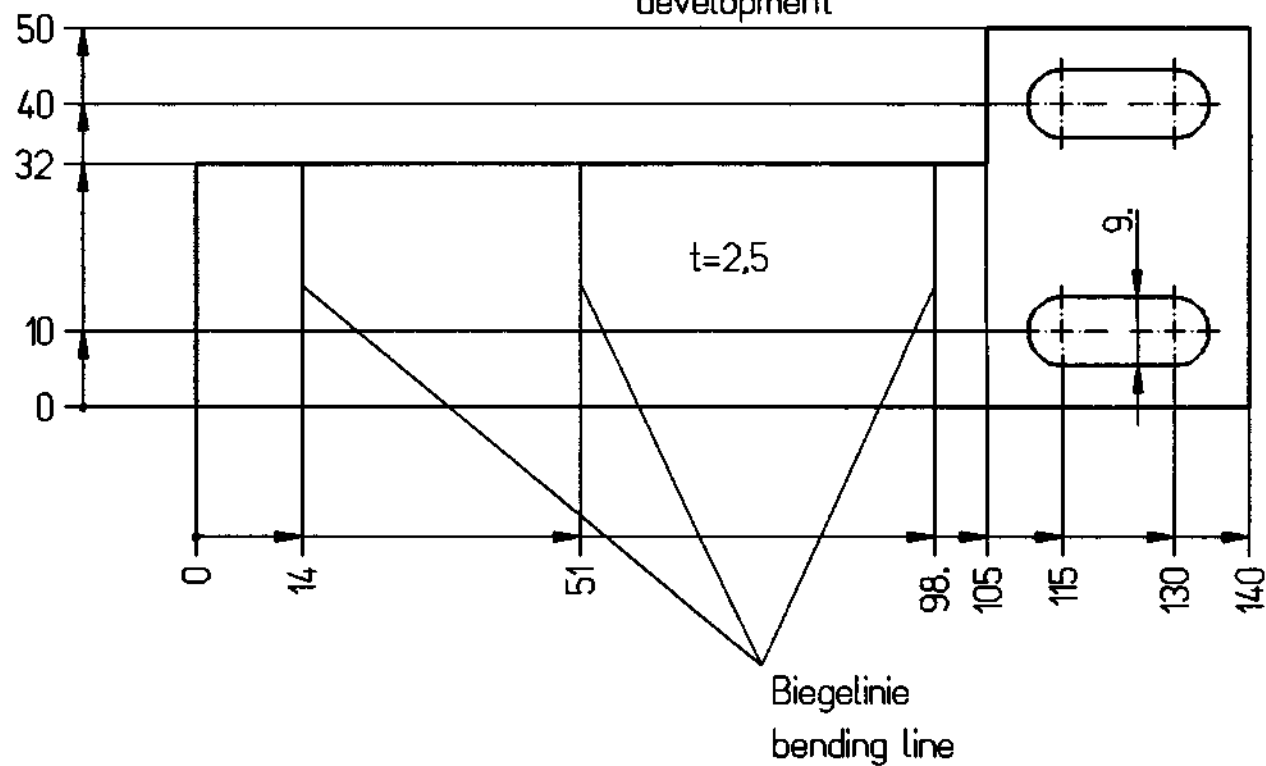
Angaben zu den Mengenspalten				Zeichn. St. Ausg. Zustand	Änderung / Datum			
A	ACFCZ/L; ACCZ/L			00 0		INDIAN RAILWAYS		
B						Bearb. 04.98 FKBAU Gepr. 10.98 TR3SCL Norm. .	hinge, compl.	
C						ALSTOM LHB GmbH Linke-Hofmann-Busch-Straße Salzgitter-Watenstedt	3 10113.0.21.410.040 CAD	Blatt 0723603 01
D							Ers.f. -	01 Bl.

Fall der Fälschung oder Gefährdung der Sicherheit, Sie darf diese
unserer vertriebs schriftliche Zustimmung weder vervielfältigen, noch Dritten
zugänglich gemacht, noch in anderer Weise öffentlich verbreitet werden.

This drawing is restricted for use in accordance
to clause 15 and 16 of the contract for Transfer of
Technology for all Metall Light Weight High Speed
Coaches BG1676mmNo.95/DEV.Cell/LMI/Coach
dated 16.10.95 of the Project R-Coach.

Diese Zeichnung darf nur verwendet werden im Zusammenhang
mit den Klauseln 15 und 16 des Technologietransfervertrages
für Leichtbau-Hochgeschwindigkeitswagen aus Metall
Breitspur1676mmNr.95/DEV.Cell/LMI/Coach
vom 16.10.95 des Projekts Reisezugwagen R.

Abwicklung development



spiegelbildlich gleich zu Zeichnung
mirror imaged equal to drawing 3 10113.0.21.410.044

K_0723632_00_000_01

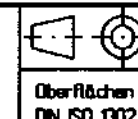
FERTIGUNGSPLOT

Verwendbar für:

ZEICHNUNG DARF NUR IM CAD-SYSTEM GEÄNDERT WERDEN

INDIAN
RAILWAYS

Maße ohne
Toleranzangabe:
ISO 2768-mK
DIN 2310-IC



	Datum	Name
Bearb.	04.98	FKBauer
Gepr.	04.98	Schlörff
Norm.	04.98	FKBauer
Fert.		

Ausgabe	Datum	Maßstab
		1:1

Scharnierteil
hinge part

Linke-Hofmann-Busch
GmbH
Salzgitter-Watenstedt

3 10113.0.21.410.043 Blatt 01

Zust.	Änderung	Datum	Name	Urspr.	Ers. f.	Ers. d.

PA5Kalschke 27.09.100 11:06:33 150540 1.000

09.08.00

Angaben zu den Mengenspalten

Zeichng.	St.
Ausg.	Zustand

INDIAN RAILWAYS

Bearb.	04.98	FKBAU
Gepr.	10.98	TR3SCL
Norm.	.	

hinge part

ALSTOM LHB GmbH
Linke-Hofmann-Busch-Straße
Salzgitter-Watenstedt

3	10113.0.21.410.043
---	--------------------

CAD

Ers.f. -

0723632

Blatt

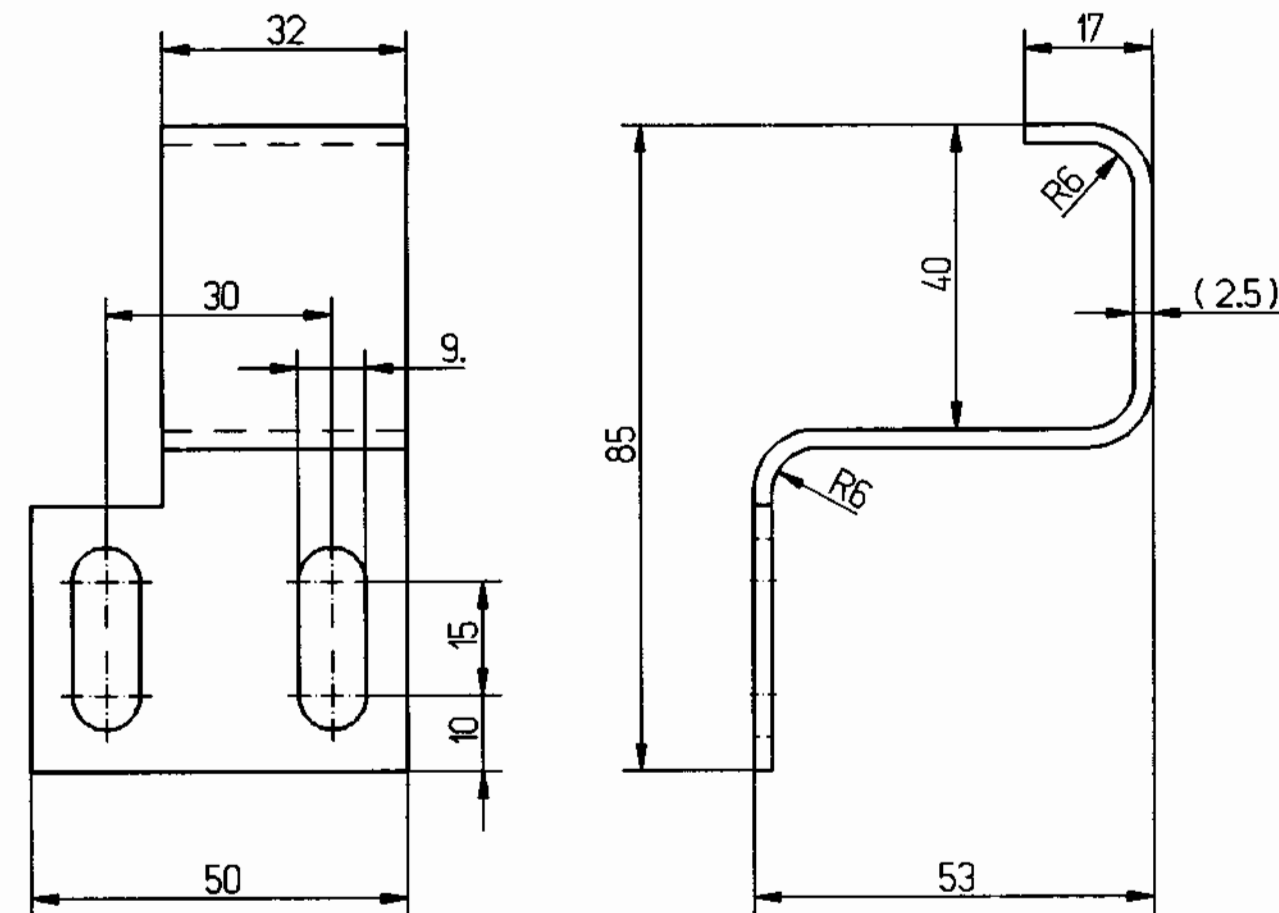
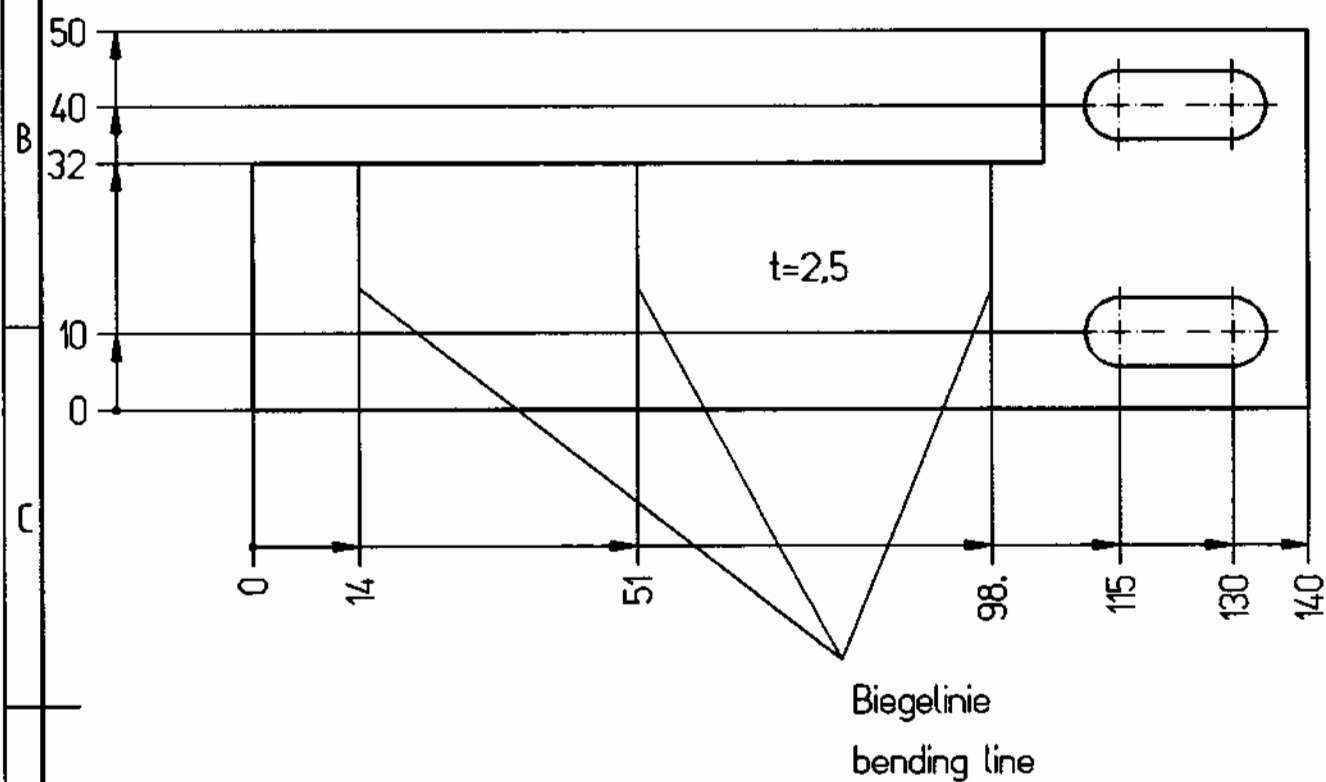
01 BL

1.0. WICHTIG: TECHN. ZEICHN. UNTERST. IM ÜB. WERTE NEHME. WICHTIG: WENN
Fall der Patentierung oder Gebrauchsmusteranmeldung. Sie darf aber
unserer vorherige schriftliche Zustimmung weder veröffentlicht, noch Dritten
zugänglich gemacht, noch in anderer Weise öffentlich verwertet werden.

This drawing is restricted for use in accordance
to clause 15 and 16 of the contract for Transfer of
Technology for all Metall Light Weight High Speed
Coaches BG/676mm/No.95/DEV.Cal/LM/Coach
dated 16.10.95 of the Project IR-Coach.

Diese Zeichnung darf nur verwendet werden im Zusammenhang
mit den Klauseln 15 und 16 des Technologietransfervertrages
für Leichtbau-Hochgeschwindigkeitswagen aus Metall
Breitspur/676mm/No.95/DEV.Cal/LM/Coach
vom 16.10.95 des Projekts Reisezugwagen IR.

Abwicklung development



spiegelbildlich gleich zu Zeichnung
mirror imaged equal to drawing 3 10113.0.21.410.043

K_0723633_00_000_01			
FERTIGUNGSPLÖT			
ZEICHNUNG DARF NUR IM CAD-SYSTEM GEÄNDERT WERDEN			
Verwendbar für:		INDIAN RAILWAYS	
Maße ohne Toleranzangaben: ISO 2768-mK DIN 2310-IC		Ausgabe Datum Maßstab 1:1	
Datum Name		Scharnierteil hinge part	
Bearb. 04.98 FKBauer Gepr. 04.98 Schlorff Norm. 04.98 FKBauer Fert.		3 10113.0.21.410.044	
Linke-Hofmann-Busch GmbH Salzgitter-Watenstedt		CAD DNR 0723633	
Zust.	Änderung	Datum	Name
Unspr.		Ers. f.	Ers. d.

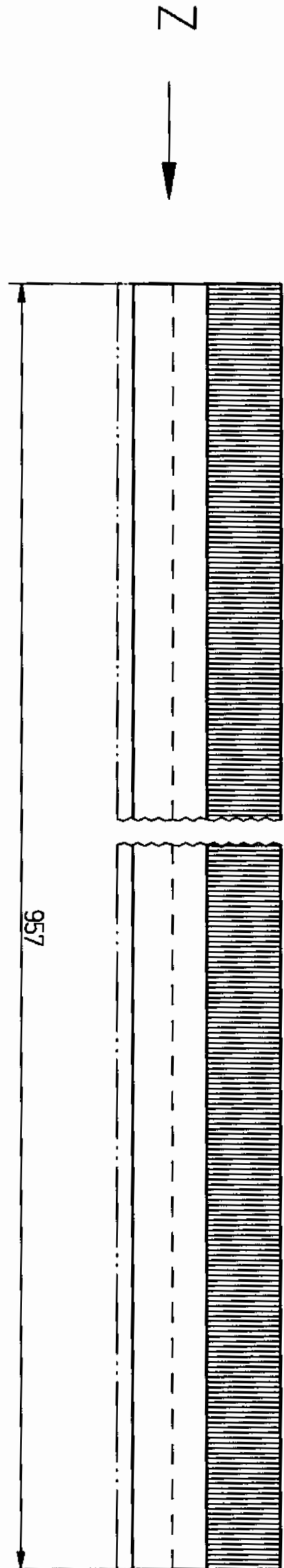
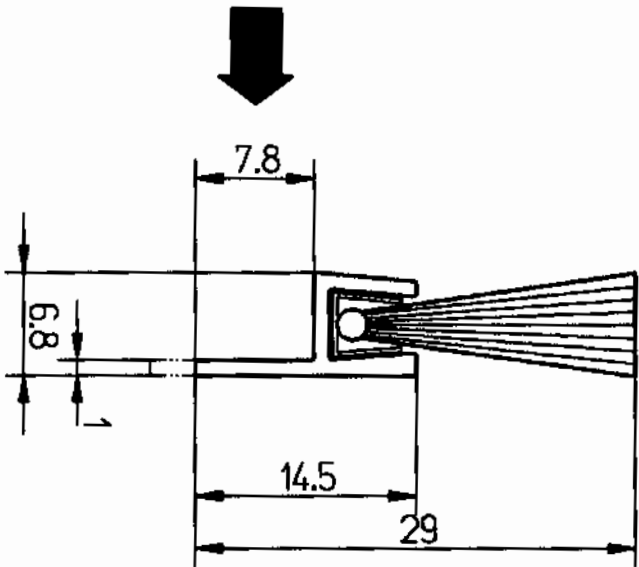
PA5Katschke 27.09.100 11:08:21 150540 1.000

Blatt 01
01 BL

[illegible]

This drawing is restricted for use in accordance to clause 15 and 16 of the contract for Transfer of Technology for all Metall Light Weight High Speed Coaches BG(1676mm)Nr.95/DEV.Cell/ILM/Coach dated 16.10.95 of the Project IR-Coach.

Diese Zeichnung darf nur verwendet werden im Zusammenhang mit den Klauseln 15 und 16 des Technologietransfervertrages für Leichtbau-Hochgeschwindigkeitswagen aus Metall Breitspur(1676mm)Nr.95/DEV.Cell/ILM/Coach vom 16.10.95 des Projekts Reisezugwagen IR.



K 0715874_00_A00_01

FERTIGUNGSPLAN

Verwendbar für:

INDIAN
RAILWAYS

Maße ohne
Toleranzen
ISO 2768-mK

Überflächen
DN ISO 1312

Bezeichnung	Datum	Name
Bearb.	01.98	Rathmann
Gepr.	01.98	Schierff
Norm.	01.98	K.Schmidt
Fert.		

Linke-Hofmann-Busch
GmbH

Schaeffler-Werkstatt

Zust.

Änderung

Datum

Name

Urspr.

Ansicht

Datum

Maßstab

1:1

Abdichtbürste

sealing brush

3 10113.0.21.500.119

CAD

Blatt 01

Für diese technische Unterlage behalten wir uns alle Rechte vor, auch für den Fall der Patenterteilung oder Gebrauchsmustereintragung. Sie darf ohne unsere vorherige schriftliche Zustimmung weder vervielfältigt, noch Dritten zugänglich gemacht, noch in anderer Weise mißbräuchlich verwendet werden.

PA5TOK

15:49

30.05.00

[illegible]

TR3RAT
06.11.97 14:53

For diese Rechte, Urheberrechte behalten wir uns alle Rechte vor, auch für den Fall der Patenterteilung oder Gebrauchsmusteranmeldung. Sie darf ohne unsere vorherige schriftliche Zustimmung weder vervielfältigt, noch Dritten zugänglich gemacht, noch in anderer Weise unbefuglich verwendet werden.

	1	2	3	4																																																																																																																																																																																																
A																																																																																																																																																																																																				
B																																																																																																																																																																																																				
C																																																																																																																																																																																																				
D																																																																																																																																																																																																				
K_0707235_00_000_01																																																																																																																																																																																																				
FERTIGUNGSLOT																																																																																																																																																																																																				
E	<table border="1"> <tr> <td colspan="5">Verwendbar für:</td> <td colspan="5">ZEICHNUNG DARF NUR IM CAD-SYSTEM GEÄNDERT WERDEN</td> </tr> <tr> <td colspan="5" rowspan="2"> INDIAN RAILWAYS </td> <td colspan="5">Ausgabe</td> </tr> <tr> <td colspan="5">Datum</td> </tr> <tr> <td colspan="5"> Maße ohne Toleranzangabe: ISO 2768-mK </td> <td colspan="5"> Oberflächen DIN ISO 1302 </td> </tr> <tr> <td colspan="5"> <table border="1"> <tr> <th></th><th>Datum</th><th>Name</th></tr> <tr> <td>Bearb.</td><td>06.97</td><td>Rathmann</td></tr> <tr> <td>Gepr.</td><td>06.97</td><td>Schlörff</td></tr> <tr> <td>Norm.</td><td>08.97</td><td>K.Schmidt</td></tr> <tr> <td>Fert.</td><td></td><td></td></tr> </table> </td> <td colspan="5"> <table border="1"> <tr> <td colspan="5">Maßstab</td> <td colspan="5">1:1</td> </tr> </table> </td> </tr> <tr> <td colspan="5" rowspan="3"> <table border="1"> <tr> <td colspan="5">Einlegeteil</td> </tr> <tr> <td colspan="5">insert</td> </tr> </table> </td> <td colspan="5"> <table border="1"> <tr> <td colspan="5">4 10113.0.21.310.009</td> <td colspan="5">Blatt 01</td> </tr> </table> </td> </tr> <tr> <td colspan="5"> <table border="1"> <tr> <td colspan="5">Linke-Hofmann-Busch GmbH</td> <td colspan="5">CAD</td> <td colspan="5">DNR 0707235</td> <td colspan="5">01 BL</td> </tr> <tr> <td colspan="5">Salzgitter-Watenstedt</td> <td colspan="5">Ers. f.</td> <td colspan="5">Ers. d.</td> <td colspan="5"></td> </tr> </table> </td> </tr> <tr> <td>F</td><td colspan="4"> <table border="1"> <tr> <th>Zust.</th><th>Änderung</th><th>Datum</th><th>Name</th><th>Urspr.</th><th>Ers. f.</th><th>Ers. d.</th></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> </td></tr> </table>				Verwendbar für:					ZEICHNUNG DARF NUR IM CAD-SYSTEM GEÄNDERT WERDEN					INDIAN RAILWAYS					Ausgabe					Datum					Maße ohne Toleranzangabe: ISO 2768-mK					 Oberflächen DIN ISO 1302					<table border="1"> <tr> <th></th><th>Datum</th><th>Name</th></tr> <tr> <td>Bearb.</td><td>06.97</td><td>Rathmann</td></tr> <tr> <td>Gepr.</td><td>06.97</td><td>Schlörff</td></tr> <tr> <td>Norm.</td><td>08.97</td><td>K.Schmidt</td></tr> <tr> <td>Fert.</td><td></td><td></td></tr> </table>						Datum	Name	Bearb.	06.97	Rathmann	Gepr.	06.97	Schlörff	Norm.	08.97	K.Schmidt	Fert.			<table border="1"> <tr> <td colspan="5">Maßstab</td> <td colspan="5">1:1</td> </tr> </table>					Maßstab					1:1					<table border="1"> <tr> <td colspan="5">Einlegeteil</td> </tr> <tr> <td colspan="5">insert</td> </tr> </table>					Einlegeteil					insert					<table border="1"> <tr> <td colspan="5">4 10113.0.21.310.009</td> <td colspan="5">Blatt 01</td> </tr> </table>					4 10113.0.21.310.009					Blatt 01					<table border="1"> <tr> <td colspan="5">Linke-Hofmann-Busch GmbH</td> <td colspan="5">CAD</td> <td colspan="5">DNR 0707235</td> <td colspan="5">01 BL</td> </tr> <tr> <td colspan="5">Salzgitter-Watenstedt</td> <td colspan="5">Ers. f.</td> <td colspan="5">Ers. d.</td> <td colspan="5"></td> </tr> </table>					Linke-Hofmann-Busch GmbH					CAD					DNR 0707235					01 BL					Salzgitter-Watenstedt					Ers. f.					Ers. d.										F	<table border="1"> <tr> <th>Zust.</th><th>Änderung</th><th>Datum</th><th>Name</th><th>Urspr.</th><th>Ers. f.</th><th>Ers. d.</th></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>				Zust.	Änderung	Datum	Name	Urspr.	Ers. f.	Ers. d.																																			
Verwendbar für:					ZEICHNUNG DARF NUR IM CAD-SYSTEM GEÄNDERT WERDEN																																																																																																																																																																																															
INDIAN RAILWAYS					Ausgabe																																																																																																																																																																																															
					Datum																																																																																																																																																																																															
Maße ohne Toleranzangabe: ISO 2768-mK					 Oberflächen DIN ISO 1302																																																																																																																																																																																															
<table border="1"> <tr> <th></th><th>Datum</th><th>Name</th></tr> <tr> <td>Bearb.</td><td>06.97</td><td>Rathmann</td></tr> <tr> <td>Gepr.</td><td>06.97</td><td>Schlörff</td></tr> <tr> <td>Norm.</td><td>08.97</td><td>K.Schmidt</td></tr> <tr> <td>Fert.</td><td></td><td></td></tr> </table>						Datum	Name	Bearb.	06.97	Rathmann	Gepr.	06.97	Schlörff	Norm.	08.97	K.Schmidt	Fert.			<table border="1"> <tr> <td colspan="5">Maßstab</td> <td colspan="5">1:1</td> </tr> </table>					Maßstab					1:1																																																																																																																																																																						
	Datum	Name																																																																																																																																																																																																		
Bearb.	06.97	Rathmann																																																																																																																																																																																																		
Gepr.	06.97	Schlörff																																																																																																																																																																																																		
Norm.	08.97	K.Schmidt																																																																																																																																																																																																		
Fert.																																																																																																																																																																																																				
Maßstab					1:1																																																																																																																																																																																															
<table border="1"> <tr> <td colspan="5">Einlegeteil</td> </tr> <tr> <td colspan="5">insert</td> </tr> </table>					Einlegeteil					insert					<table border="1"> <tr> <td colspan="5">4 10113.0.21.310.009</td> <td colspan="5">Blatt 01</td> </tr> </table>					4 10113.0.21.310.009					Blatt 01																																																																																																																																																																											
					Einlegeteil																																																																																																																																																																																															
					insert																																																																																																																																																																																															
4 10113.0.21.310.009					Blatt 01																																																																																																																																																																																															
<table border="1"> <tr> <td colspan="5">Linke-Hofmann-Busch GmbH</td> <td colspan="5">CAD</td> <td colspan="5">DNR 0707235</td> <td colspan="5">01 BL</td> </tr> <tr> <td colspan="5">Salzgitter-Watenstedt</td> <td colspan="5">Ers. f.</td> <td colspan="5">Ers. d.</td> <td colspan="5"></td> </tr> </table>					Linke-Hofmann-Busch GmbH					CAD					DNR 0707235					01 BL					Salzgitter-Watenstedt					Ers. f.					Ers. d.																																																																																																																																																																	
Linke-Hofmann-Busch GmbH					CAD					DNR 0707235					01 BL																																																																																																																																																																																					
Salzgitter-Watenstedt					Ers. f.					Ers. d.																																																																																																																																																																																										
F	<table border="1"> <tr> <th>Zust.</th><th>Änderung</th><th>Datum</th><th>Name</th><th>Urspr.</th><th>Ers. f.</th><th>Ers. d.</th></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>				Zust.	Änderung	Datum	Name	Urspr.	Ers. f.	Ers. d.																																																																																																																																																																																									
Zust.	Änderung	Datum	Name	Urspr.	Ers. f.	Ers. d.																																																																																																																																																																																														

PA5Kotschke 27.09.100 10:36:44 150540 1.000

eintragung. Sie darf ohne unsere vorherige schriftliche Zustimmung weder vervielfältigt, noch Dritten zugänglich gemacht, noch in anderer Weise mißbräuchlich verwendet werden.

13:20

08.08.00

[illegible]


Diese Zeichnung darf nur verwendet werden im Zusammenhang mit den Klauseln 15 und 16 des Technologietransfervertrages für Leichtbau-Hochgeschwindigkeitswagen aus Metall
Breitspur(1676mm)Nr.95/DEV.Cel./LMI/Coach
vom 16.10.95 des Projekts Reisezugwagen R.

FERTIGUNGSPLOT

K_0723637_00_000_01

ZEICHNUNG DARF NUR IM CAD-SYSTEM GEÄNDERT WERDEN

INDIAN RAILWAYS

Maße ohne Toleranzangaben: ISO 2768-mK DIN 2310-IC		Oberflächen DIN ISO 3002
---	---	-----------------------------

**Oberflächen
DN ISO 1302**

Name
FKBauer

Schlurff
FKBauer

Linke-Hofmann-Busch

Satzgitter-Wohnsiedel

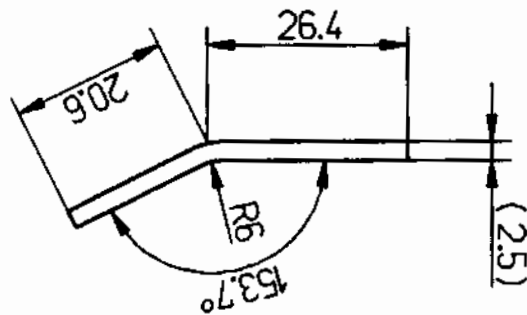
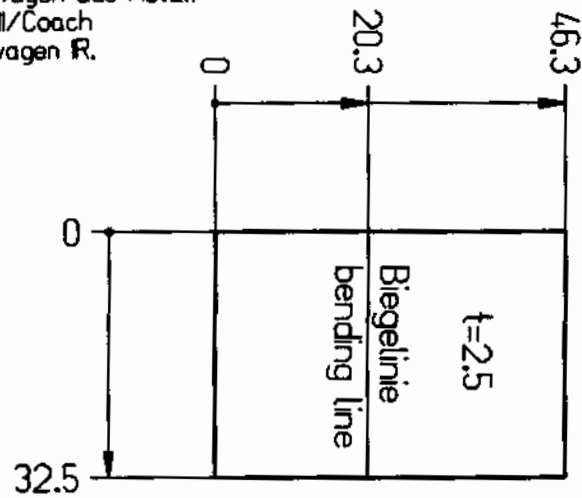
[illegible]

	Datum	Name
Bauch	04.98	FKBauer
Capr.	04.98	Schlurff
Norm.	04.98	FKBauer
Fahrt		

Linke-Hofmann-Busch
GmbH
Satzgitter-Wolfsleith
Unger.

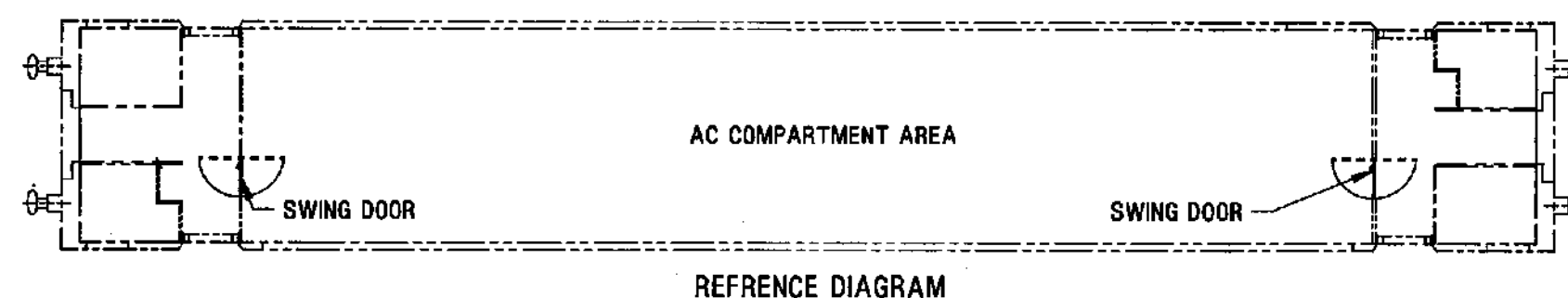
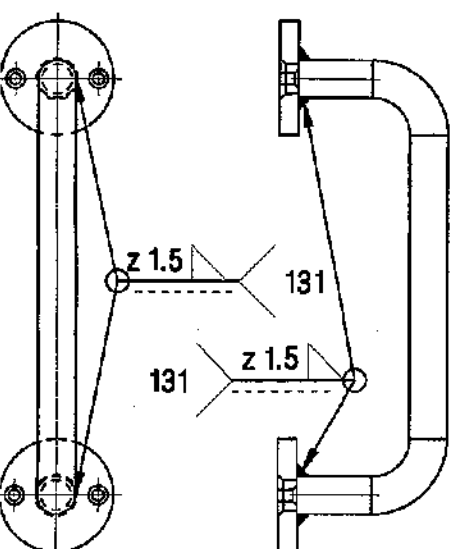
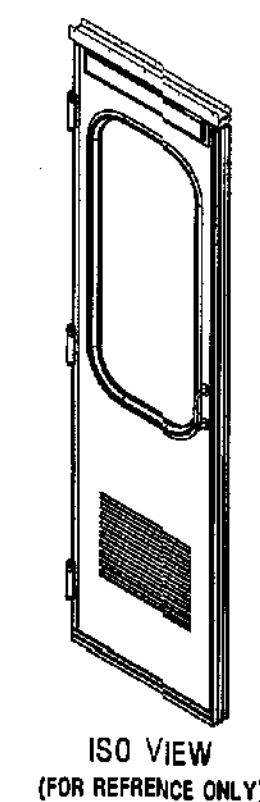
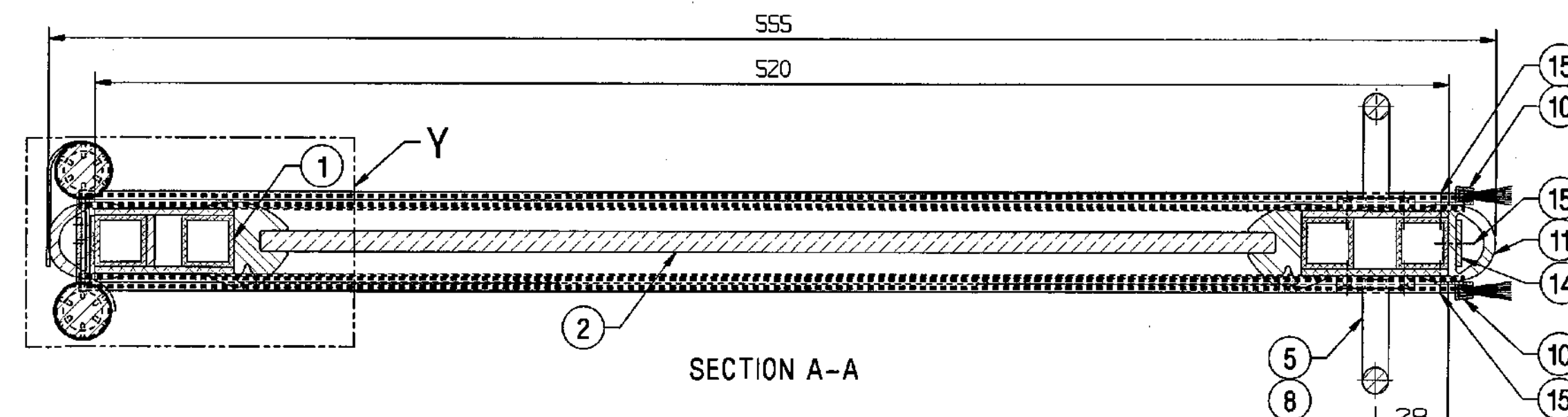
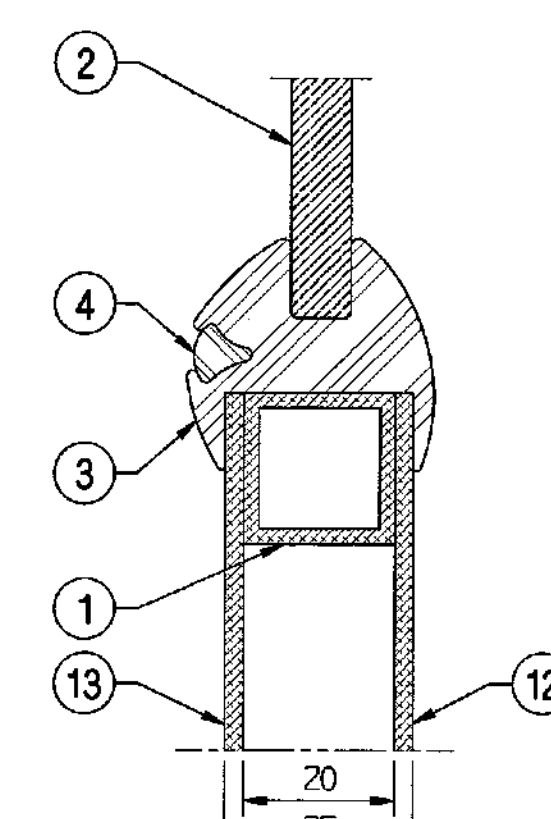
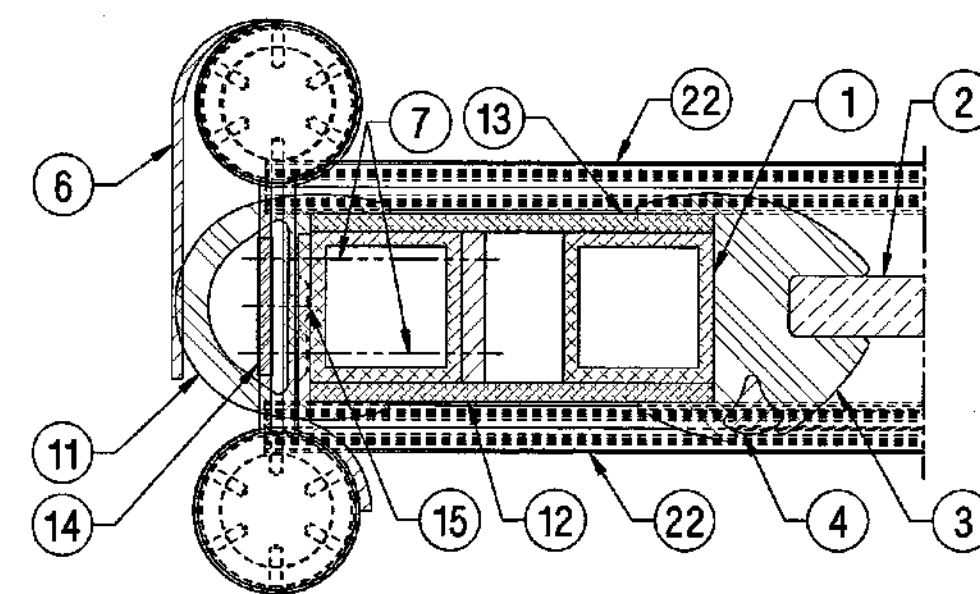
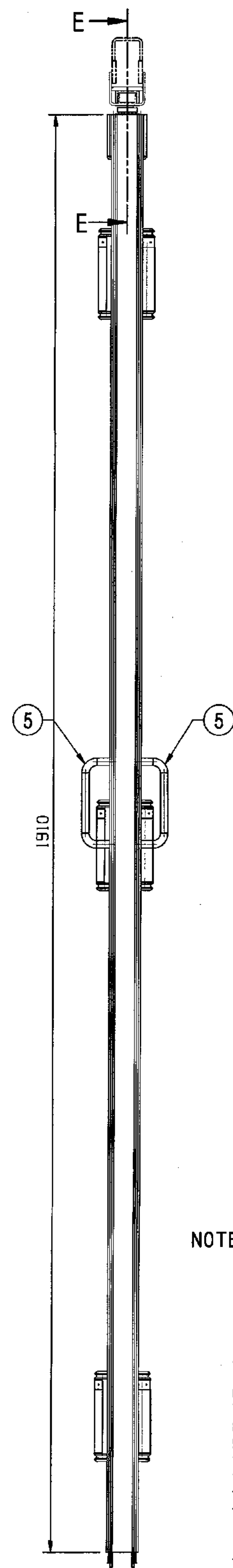
Scharnierenteil		Blatt 01	
hinge part			
4 10113.0.21.410.047			
CAD	DNR 0723637	01	BL
Err. f.	Err. d.		

Abwicklung development



09.08.00

Angaben zu den Mengenspalten		Zeichng.	St.	Änderung / Datum				
		Ausg.	Zustand					
A	ACFCZ/L; ACCZ/L	00	0		INDIAN RAILWAYS			
B					Bearb.	04.98	FKBAU	hinge part
					Gepr.	10.98	TR3SCL	
C					Norm.	.		
D					ALSTOM LHB GmbH Linke-Hofmann-Busch-Straße Salzgitter-Watenstedt		4 10113.0.21.410.047 CAD	Blatt 01
							Ers.f. -	01 BL



15 APR 2025

WELD LENGTH		ITEM	DESCRIPTION & DIMENSIONS	QUANTITY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL	M	GROUP	INTERIOR DOOR ACCESSORIES COMPLETE	SUPPLIES: M1006232 ALT c			
WEIGHT		FILE	M1006232.d.prnt (3D)				
28.000	KG	SWING DOOR FOR ENTRANCE TO AC AREA (WITH OVERHEAD CONCEALED DOUBLE ACTING DOOR CLOSER)				SCALE	SSE/REG 9/15/1425
S. AREA						1:5	CHD RJSH
NIL	M ²					DRN LNSR	
LENGTH/DIA						REF.DWG.No.	NIL
NIL	M	RAIL COACH FACTORY, KAPURTHALA					
WIDTH/THICK.		रेल कोच फैक्टरी कपूरथला				IRS	
NIL	M					PL NO.	NIL
HEIGHT						DRG.NO. M1006232	
NIL	M	ADG/SME	BY CME	N.R	CME	SIZE (SHEET 1/1)	

THIS DRAWING IS THE INTELLECTUAL PROPERTY OF RAIL COACH FACTORY, KAPURTHALA. THIS DRAWING SHOULD NOT BE REPRODUCED, ALTERED, USED FOR MANUFACTURING OF COMPONENTS, SOLD OR TRANSFERRED WITHOUT PERMISSION FROM CHIEF DESIGN ENGINEER, RAIL COACH FACTORY, KAPURTHALA.

NOTE:

1. THE SUPPLIER SHALL SUPPLY ONE PROTOTYPE OF DOOR FOR APPROVAL BEFORE COMMENCING BULK SUPPLY.
2. THE SUPPLIER OF DOOR SHALL REPLACE/REPAIR THE DOOR CLOSER MECHANISM AT HIS EXPENSE IN CASE OF FAILING IN SERVICE WITHIN 36 MONTHS FROM DATE OF FITMENT ON COACH OR 42 MONTHS FROM DATE OF SUPPLY, WHICHEVER IS EARLIER.
3. THE SUPPLIER SHALL SUBMIT TEST CERTIFICATES FOR MATERIAL, ENDURANCE TEST AND STRENGTH TO CDE/RCF ALONGWITH PROTOTYPE OF DOOR.
4. THE DOOR SHOULD OPEN BOTH SIDES (90° MINIMUM) AND RETURN TO THE CLOSED POSITION FROM EACH SIDE.
5. THE DOOR SHOULD REMAIN IN CLOSED POSITION DURING NORMAL TRAIN RUNNING AND SHALL NOT MOVE/OPEN OWING TO CENTRIFUGAL FORCE ON CURVATURES OR UNDER NORMAL VIBRATIONS.
6. CLOSING OF DOOR SHOULD BE AUTOMATIC WITH A SPEED OF 0.1 M/SEC (APPROX).
7. EACH DOOR SHALL BE SUPPLIED WITH NECESSARY ACCESSORIES AND ITS HARDWARE ITEMS.
8. THE FORCE NECESSARY FOR OPENING THE DOOR SHALL BE 5-6 KG (MAXIMUM) WHEN MEASURED WITH A SPRING BALANCE.
9. WEIGHT OF COMPLETE DOOR ASSEMBLY MUST NOT EXCEED 35 KG.
10. SWING DOOR SHOULD HAVE SMOOTH RUNNING WITHOUT ANY JERK & NOISE.
11. IT SHOULD BE POSSIBLE TO OPEN THE DOOR DURING CLOSING STROKE ALSO.
12. THE OVERHEAD DOOR CLOSER MECHANISM SHOULD WORK SMOOTHLY FOR 5,00,000 CYCLES.
13. THE FOLLOWING DOCUMENTS TO BE SUPPLIED BY THE SUPPLIER TO CDE/RCF ALONGWITH PROTOTYPE:
 - (I) A SET OF DRAWING WITH COMPLETE DETAILS OF COMPONENTS/ACCESSORIES WITH SPECIFICATION AND MAKE NAME.
 - (II) MAINTENANCE MANUAL.
14. NECESSARY CUTAWAYS IN ITEM-11 & 14 TO BE MADE TO SUIT THE DOUBLE ACTING HINGES (ITEM-6).
15. THE SEALING BRUSH (ITEM-10 & 22) TO BE FIXED TO SUIT AT SITE.
- *16. THE OVERHEAD DOUBLE ACTING CONCEALED DOOR CLOSER MECHANISM SHOULD BE CERTIFIED AS PER EN1154 AND FULFIL REQUIREMENTS AS PER TABLE-1. FIRM TO ARRANGE FOR TESTING ON REQUIREMENT OF CONSIGNEE OR INSPECTING AGENCY.
- #17. DOUBLE ACTING HINGE (ITEM-6) COMMERCIAL SHALL BE PROCURED WITH CHROME PLATED TO 10 MICRON (MINIMUM).
018. ADDITIONAL WELDING SHALL BE DONE ON THE LOCATION SHOWN IN DETAIL OF ITEM-5.
19. THE DOOR CLOSER SHALL HAVE FOLLOWING FEATURES:
 - I). ADJUSTABLE CLOSING SPEED & LATCHING SPEED BY MEANS OF A VALVE.
 - II). CLOSING FORCE (SPRING STRENGTH) VARIABLE BY MEANS OF ADJUSTABLE SCREW.
20. FIRE TEST: NON-METALLIC ITEMS USED IN THE DOOR SHALL BE TESTED FOR THE FIRE-RETARDANT PROPERTIES AS PER APPENDIX-6 OF UIC-554-2 AND FIRM SHALL SUBMIT CERTIFICATE FROM NABL APPROVED LABORATORY.

ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID

DETAIL DRGS STARTING WITH "I" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE

FOR UNTOLERANCED DIMENSIONS REFER MDG0008

DATE OF FIRST ISSUE	27/06/2014
---------------------	------------

CGM BY

[illegible]

N.R

DRG

U. M.	
-------	--

0232

													9	10	11	12	13	
													ALT.NO	ALT.DATE	ZONE	ALTERATIONS		AUTHORITY
													NIL	NIL	NIL	NIL		NIL

2.5

465

430

17.5

56.5

ISO VIEW
(FOR REFERENCE ONLY)

THIS DRAWING IS THE INTELLECTUAL PROPERTY OF RAIL COACH FACTORY, KAPURTHALA. THIS DRAWING SHOULD NOT BE REPRODUCED, ALTERED, USED FOR MANUFACTURING OF COMPONENTS, SOLD OR TRANSFERRED WITHOUT PERMISSION FROM CHIEF DESIGN ENGINEER, RAIL COACH FACTORY, KAPURTHALA.

माकाइड
Entered
में
Into
प्रविष्टिया की
Date Box

12 JUN 2014

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	QPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL	M	GROUP	INTERIOR DOOR & ACCESSORIES COMPLETE	SUPERSEDES: NIL		
WEIGHT	FILE	MI006252.prt (3D)				
0.068	KG					
S.AREA						SCALE
NIL	M ²	BASE				
LENGTH / DIA						SSE/REG
NIL	M	RAIL COACH FACTORY, KAPURTHALA				
WIDTH / THICK						1:5
NIL	M	रेलकोच फैक्टरी कपूरथला				
HEIGHT						CHD
NIL	M	ADE/SME				
						DRN
						PRSH
						REF.DRG.NO
						NIL
						PL NO.
						NIL
						DRG.NO.
						MI006252
						ALT.
						NIL
						SIZE
						A3
						SHEET
						1/1

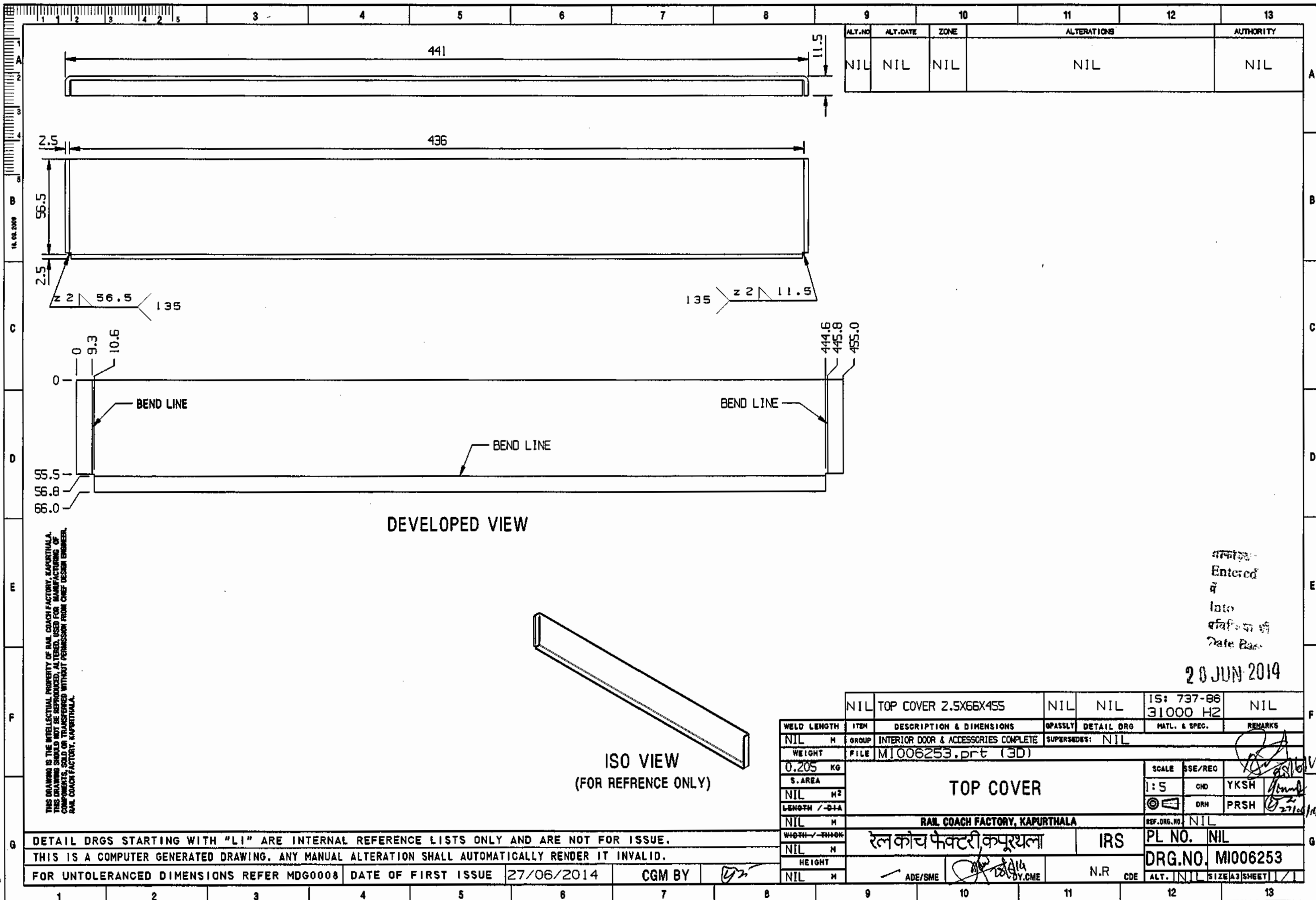
DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE.

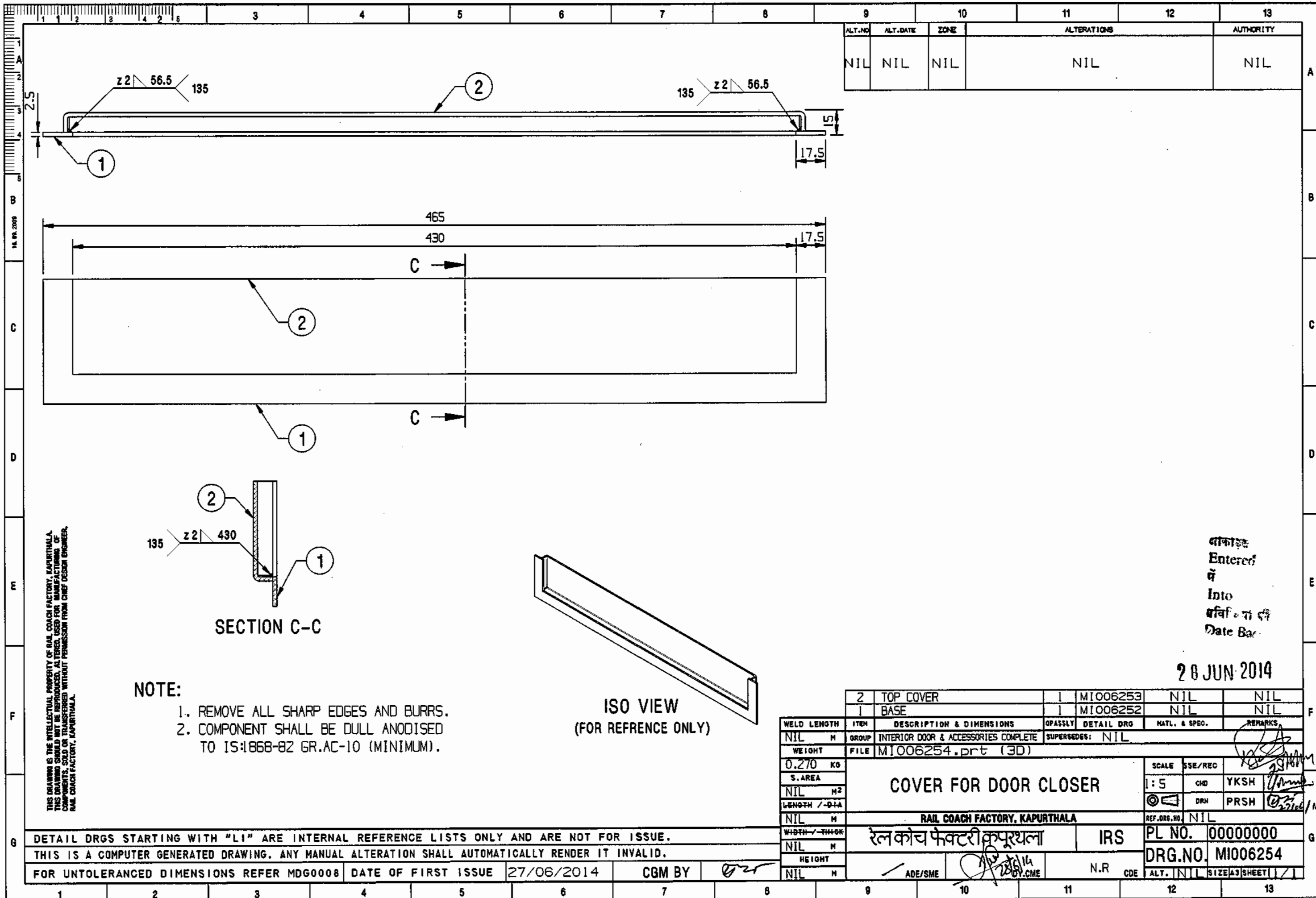
THIS IS A COMPUTER GENERATED DRAWING. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER IT INVALID.

FOR UNTOLERANCED DIMENSIONS REFER MDG0008

DATE OF FIRST ISSUE 27/06/2014

CGM BY





ALT.NO	ALT.DATE	ZONE	ALTERATIONS	AUTHORITY
NIL	NIL	NIL	NIL	NIL

THIS DRAWING IS THE INTELLECTUAL PROPERTY OF RAIL COACH FACTORY, KAPURTHALA.
THIS DRAWING SHOULD NOT BE REPRODUCED, ALTERED, USED FOR MANUFACTURING OF
COMPONENTS, SOLD OR TRANSFERRED WITHOUT PERMISSION FROM CHIEF DESIGN ENGINEER,
RAIL COACH FACTORY, KAPURTHALA.

NOTE:
1. REMOVE ALL SHARP EDGES AND BURRS.
2. COMPONENT SHALL BE DULL ANODISED
TO IS:1868-82 GR.AC-10 (MINIMUM).

ISO VIEW
(FOR REFERENCE ONLY)

जाकिर
Entered
में
Into
बविना में
Date Bar

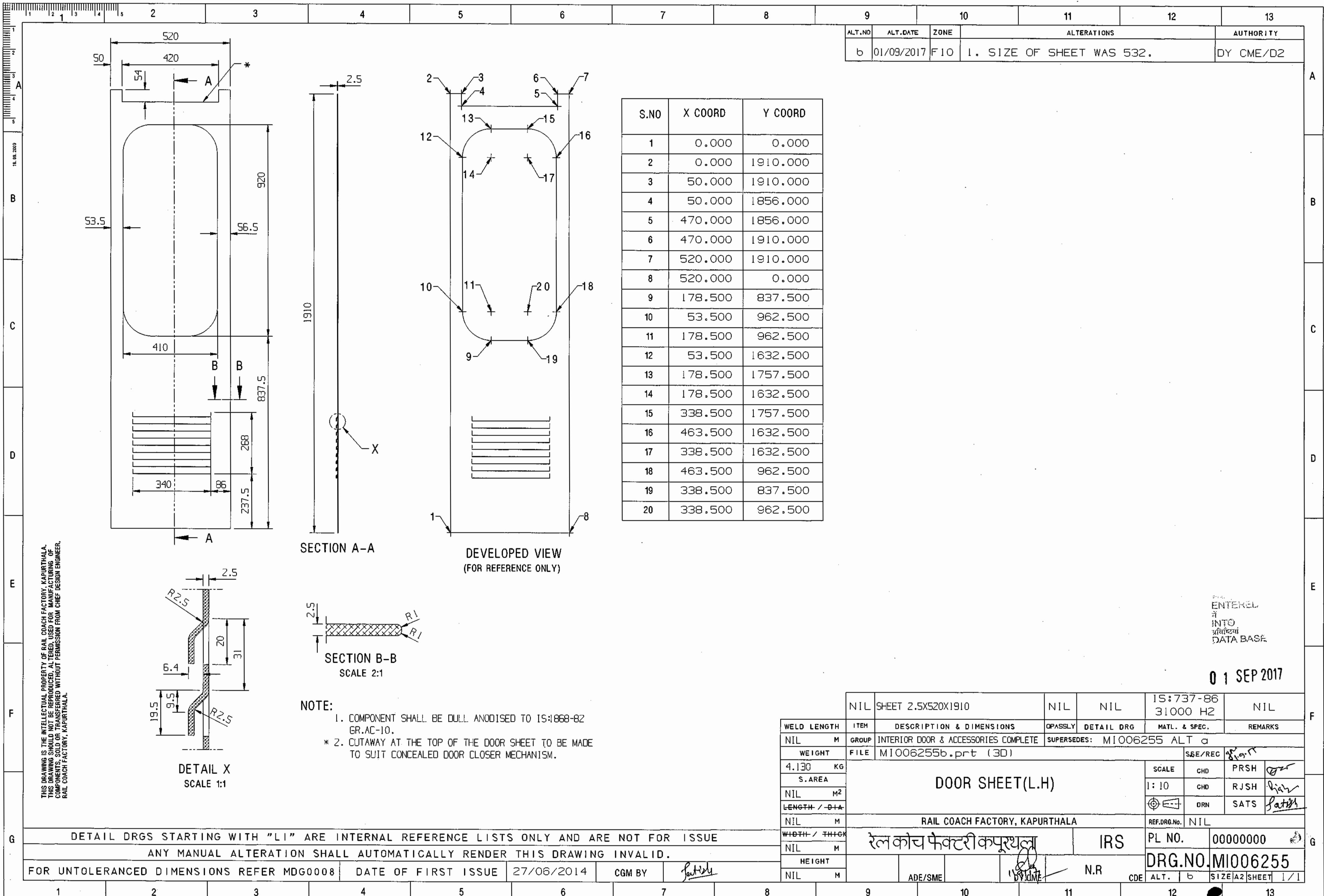
28 JUN 2014

2	TOP COVER	1	MI006253	NIL	NIL
1	BASE	1	MI006252	NIL	NIL
WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	QPASSLT	DETAIL DRG	MATL. & SPEC.
NIL	M	GROUP	INTERIOR DOOR & ACCESSORIES COMPLETE	SUPERSEDES: NIL	REMARKS
WEIGHT	FILE	MI006254.prt (3D)			
0.270	KG				
S. AREA					
NIL	M ²				
LENGTH / DIA					
NIL	M				
WIDTH / THICK					
NIL	M				
HEIGHT					
NIL	M				

SCALE	SSE/REC	YKSH	PRSH
1:5	CHD		
	DRN		

RAIL COACH FACTORY, KAPURTHALA	REF.DRG.NO.	NIL
रेल कोच फैक्टरी कपूरथला	IRS	PL NO. 00000000
		DRG.NO. MI006254
ADP/SME	DRY.CME	N.R
		ALT. [] SIZE [A3] SHEET []

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE.
THIS IS A COMPUTER GENERATED DRAWING. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER IT INVALID.
FOR UNTOLERANCED DIMENSIONS REFER MDG0008 DATE OF FIRST ISSUE 27/06/2014 CGM BY

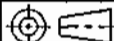



ALT.NO	ALT.DATE	ZONE	ALTERATIONS	AUTHORITY
b	01/09/2017	F10	1. SIZE OF SHEET WAS 532.	DY CME/D2

S.NO	X COORD	Y COORD
1	0.000	0.000
2	0.000	1910.000
3	50.000	1910.000
4	50.000	1856.000
5	470.000	1856.000
6	470.000	1910.000
7	520.000	1910.000
8	520.000	0.000
9	178.500	837.500
10	53.500	962.500
11	178.500	962.500
12	53.500	1632.500
13	178.500	1757.500
14	178.500	1632.500
15	338.500	1757.500
16	463.500	1632.500
17	338.500	1632.500
18	463.500	962.500
19	338.500	837.500
20	338.500	962.500

ENTERED
INTO
DATA BASE

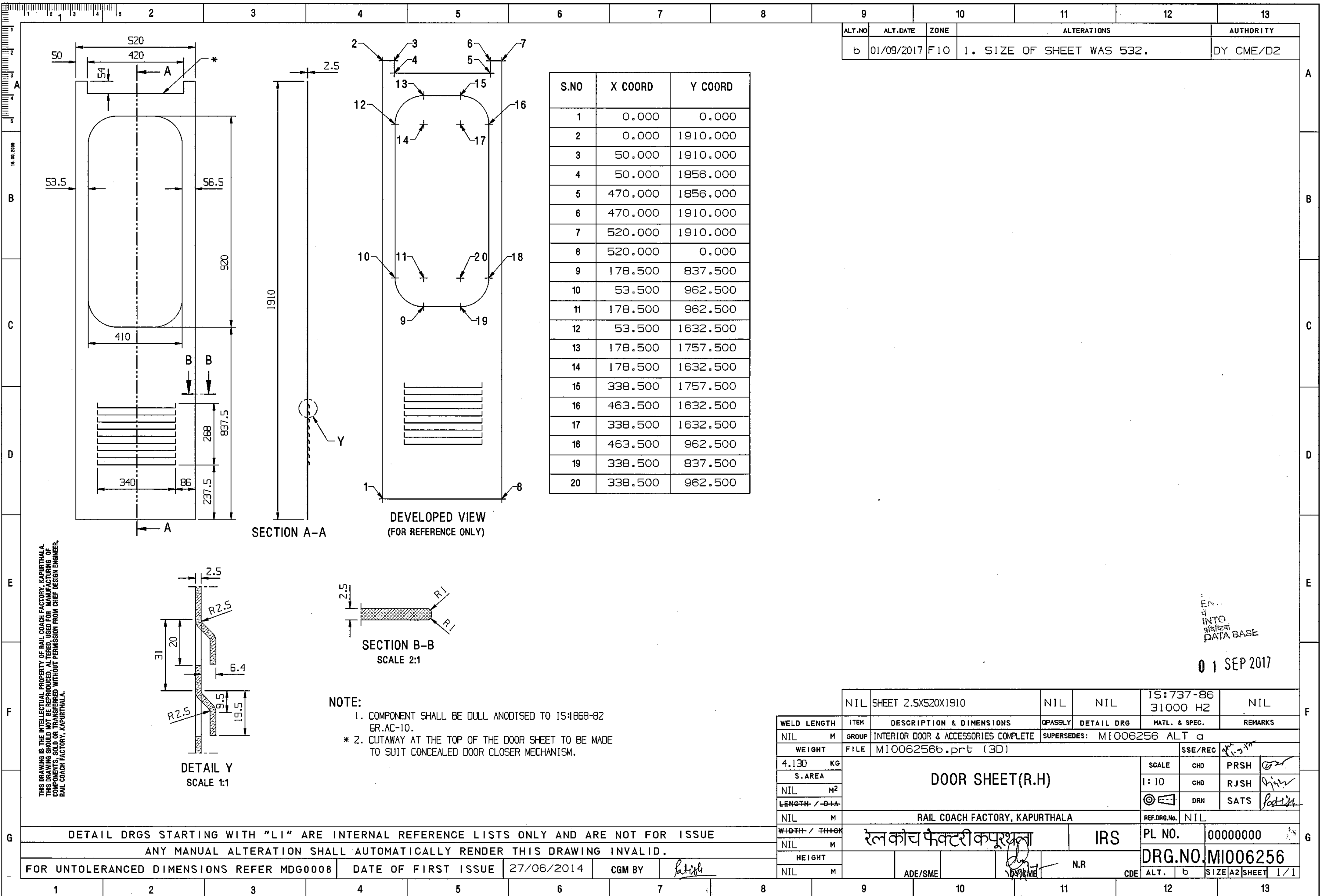
01 SEP 2017

	NIL	SHEET 2.5X520X1910	NIL	NIL	IS:737-86 31000 H2	NIL				
WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS		OPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS			
NIL	M	GROUP	INTERIOR DOOR & ACCESSORIES COMPLETE		SUPERSEDES: MI006255 ALT a					
WEIGHT	FILE	MI006255b.prt (3D)				SSE/REC	81.17			
4.130	KG	DOOR SHEET(L.H)			SCALE	CHD	PRSH	ger		
S.AREA						1: 10	CHD	RJSH	hian	
NIL	M ²							DRN	SATS	latish
LENGTH / -D+A										
NIL	M	RAIL COACH FACTORY, KAPURTHALA			REF.DRG.No.	NIL				
WIDTH / THICK		रेल कोच फैक्टरी कपूरथला			IRS	PL NO.	00000000			
NIL	M									
HEIGHT		 BY NAME			N.R	DRG.NO. MI006255				
NIL	M					ADE/SME		ALT.	b	SIZE/A2 SHEET

NOTE:
1. COMPONENT SHALL BE DULL ANODISED TO IS:1868-82 GR.AC-10.
* 2. CUTAWAY AT THE TOP OF THE DOOR SHEET TO BE MADE TO SUIT CONCEALED DOOR CLOSER MECHANISM.

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.

FOR UNTOLERANCED DIMENSIONS REFER MDG0008 DATE OF FIRST ISSUE 27/06/2014 CGM BY



THIS DRAWING IS THE INTELLECTUAL PROPERTY OF RAIL COACH FACTORY, KAPURTHALA. THIS DRAWING SHOULD NOT BE REPRODUCED, ALTERED, USED FOR MANUFACTURING OF COMPONENTS, SOLD OR TRANSFERRED WITHOUT PERMISSION FROM CHIEF DESIGN ENGINEER, RAIL COACH FACTORY, KAPURTHALA.

- NOTE:
1. COMPONENT SHALL BE DULL ANODISED TO IS:1868-82 BR.AC-10.
 - * 2. CUTAWAY AT THE TOP OF THE DOOR SHEET TO BE MADE TO SUIT CONCEALED DOOR CLOSER MECHANISM.

EN...

INTO
प्रविष्टि
DATA BASE

01 SEP 2017

	NIL	SHEET 2.5X520X1910	NIL	NIL	IS:737-86 31000 H2	NIL				
WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	OPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS				
NIL	M	GROUP	INTERIOR DOOR & ACCESSORIES COMPLETE		SUPERSEDES: M1006256 ALT a					
WEIGHT	FILE	M1006256b.prt (3D)				SSE/REC <i>4.130 kg</i>				
4.130	KG	DOOR SHEET(R.H)			SCALE	CHD	PRSH	<i>2</i>		
S.AREA							I: 10	CHD	RJSH	<i>High</i>
NIL	M ²							DRN	SATS	<i>Section</i>
LENGTH / DIA										
NIL	M	RAIL COACH FACTORY, KAPURTHALA			REF.DRG.No.	NIL				
WIDTH / THICK	रेल कोच फैक्टरी कपूरथला			IRS	PL NO.	00000000				
NIL	M				DRG.NO.	M1006256				
HEIGHT										
NIL	M		ADE/SME							
					N.R					
					CDE	ALT.	b	SIZE A2 SHEET 1/1		

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE

ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.

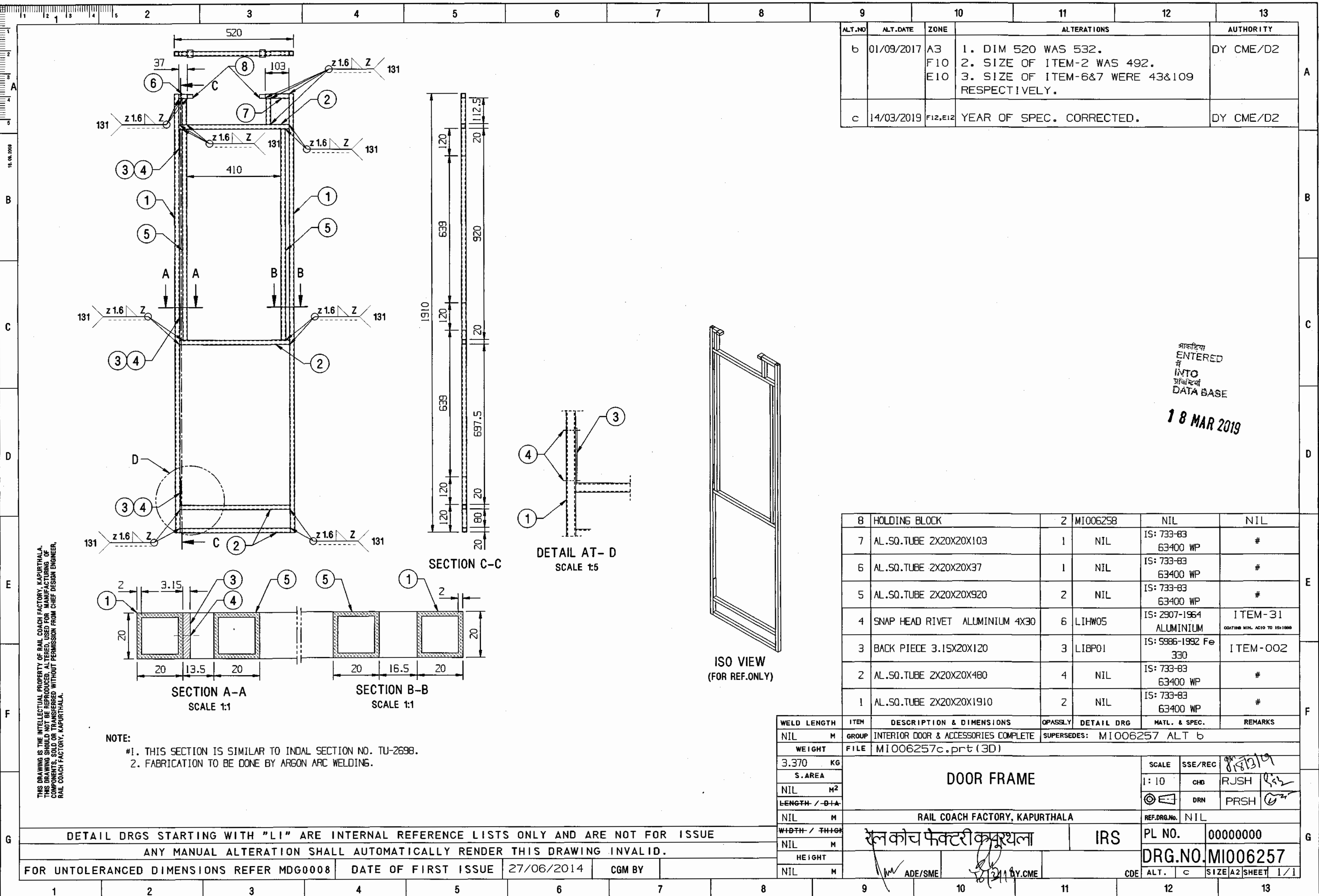
FOR UNTOLERANCED DIMENSIONS REFER MDG0008

DATE OF FIRST ISSUE 27/06/2014

CGM BY

ALT.NO	ALT.DATE	ZONE	ALTERATIONS	AUTHORITY
b	01/09/2017	F10	1. SIZE OF SHEET WAS 532.	DY CME/D2

S.NO	X COORD	Y COORD
1	0.000	0.000
2	0.000	1910.000
3	50.000	1910.000
4	50.000	1856.000
5	470.000	1856.000
6	470.000	1910.000
7	520.000	1910.000
8	520.000	0.000
9	178.500	837.500
10	53.500	962.500
11	178.500	962.500
12	53.500	1632.500
13	178.500	1757.500
14	178.500	1632.500
15	338.500	1757.500
16	463.500	1632.500
17	338.500	1632.500
18	463.500	962.500
19	338.500	837.500
20	338.500	962.500



ALT.NO	ALT.DATE	ZONE	ALTERATIONS	AUTHORITY
b	01/09/2017	A3 F10 E10	1. DIM 520 WAS 532. 2. SIZE OF ITEM-2 WAS 492. 3. SIZE OF ITEM-6&7 WERE 43&109 RESPECTIVELY.	DY CME/D2
c	14/03/2019	F12,E12	YEAR OF SPEC. CORRECTED.	DY CME/D2

भारतिया
ENTERED
INTO
प्रविष्टि
DATA BASE
18 MAR 2019

8	HOLDING BLOCK	2	MI006258	NIL	NIL
7	AL.SQ.TUBE 2X20X20X103	1	NIL	IS: 733-83 63400 WP	#
6	AL.SQ.TUBE 2X20X20X37	1	NIL	IS: 733-83 63400 WP	#
5	AL.SQ.TUBE 2X20X20X920	2	NIL	IS: 733-83 63400 WP	#
4	SNAP HEAD RIVET ALUMINIUM 4X30	6	LIHW05	IS: 2907-1964 ALUMINIUM	ITEM-31 COATING MIN. ACIO TO IS:1000
3	BACK PIECE 3.15X20X120	3	LI8P01	IS: 5986-1992 Fe 330	ITEM-002
2	AL.SQ.TUBE 2X20X20X480	4	NIL	IS: 733-83 63400 WP	#
1	AL.SQ.TUBE 2X20X20X1910	2	NIL	IS: 733-83 63400 WP	#

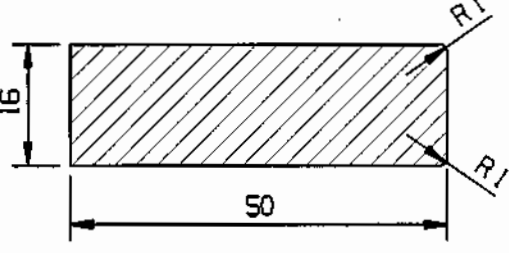
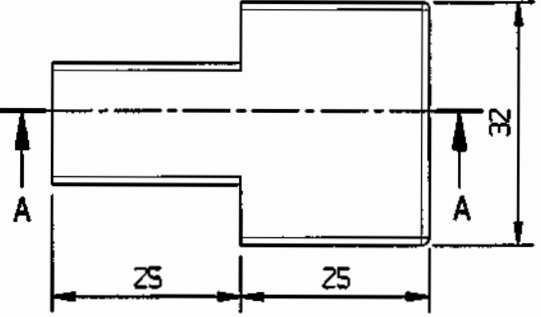
WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	OPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL	M	GROUP	INTERIOR DOOR & ACCESSORIES COMPLETE	SUPERSEDES: MI006257 ALT b		
WEIGHT	FILE	MI006257c.prt (3D)				
3.370	KG					
S.AREA						
NIL	M ²					
LENGTH / DIA						
NIL	M					
WIDTH / THICK						
NIL	M					
HEIGHT						
NIL	M					

DOOR FRAME		SCALE	SSE/REC	8/8/19
		1: 10	CHD	RJSH
		DRN	PRSH	
RAIL COACH FACTORY, KAPURTHALA		REF.DRG.No.	NIL	
रेलकोच फेक्टरी कपूरथला		IRS	PL NO.	00000000
ADE/SME		DY.CME	DRG.NO.	MI006257
CDE		ALT.	C	SIZE A2 SHEET 1/1

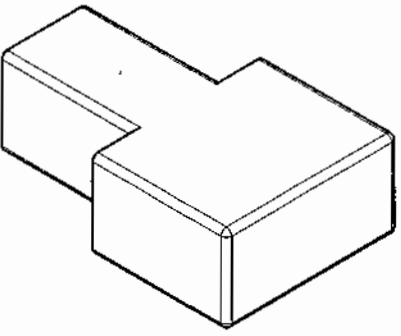
THIS DRAWING IS THE INTELLECTUAL PROPERTY OF RAIL COACH FACTORY, KAPURTHALA. THIS DRAWING SHOULD NOT BE REPRODUCED, ALTERED, USED FOR MANUFACTURING OF COMPONENTS, SOLD OR TRANSFERRED WITHOUT PERMISSION FROM CHIEF DESIGN ENGINEER, RAIL COACH FACTORY, KAPURTHALA.

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.
FOR UNTOLERANCED DIMENSIONS REFER MDG0008
DATE OF FIRST ISSUE 27/06/2014
CGM BY

1 2 3 4 5 6 7 8 9 10 11 12 13														
ALT.NO			ALT.DATE			ZONE			ALTERATIONS			AUTHORITY		
NIL			NIL			NIL			NIL			NIL		



SECTION A-A



ISO VIEW
(FOR REF.ONLY)

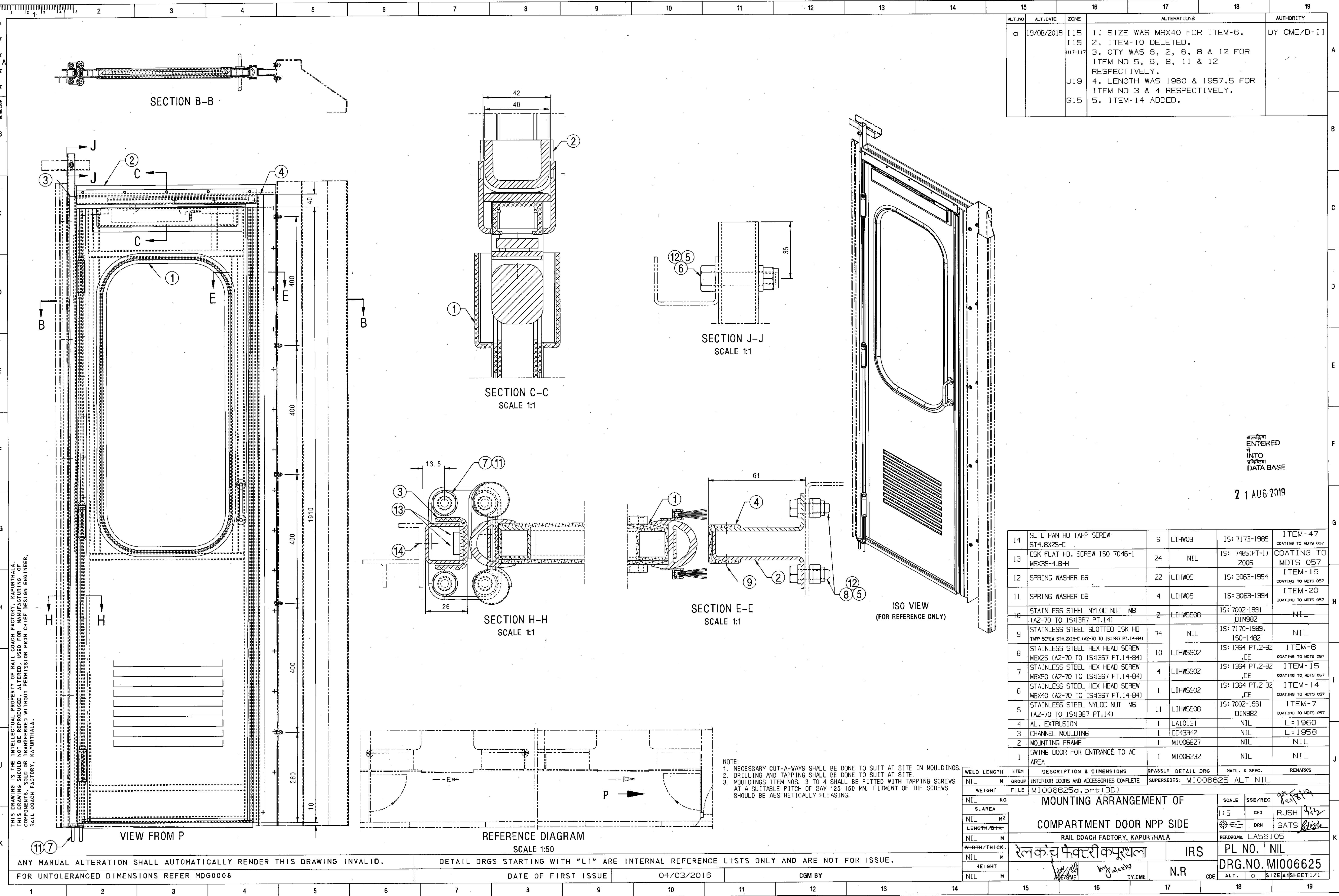
भारतीय
Entered
में
Into
प्रविष्टि का
Date Bar

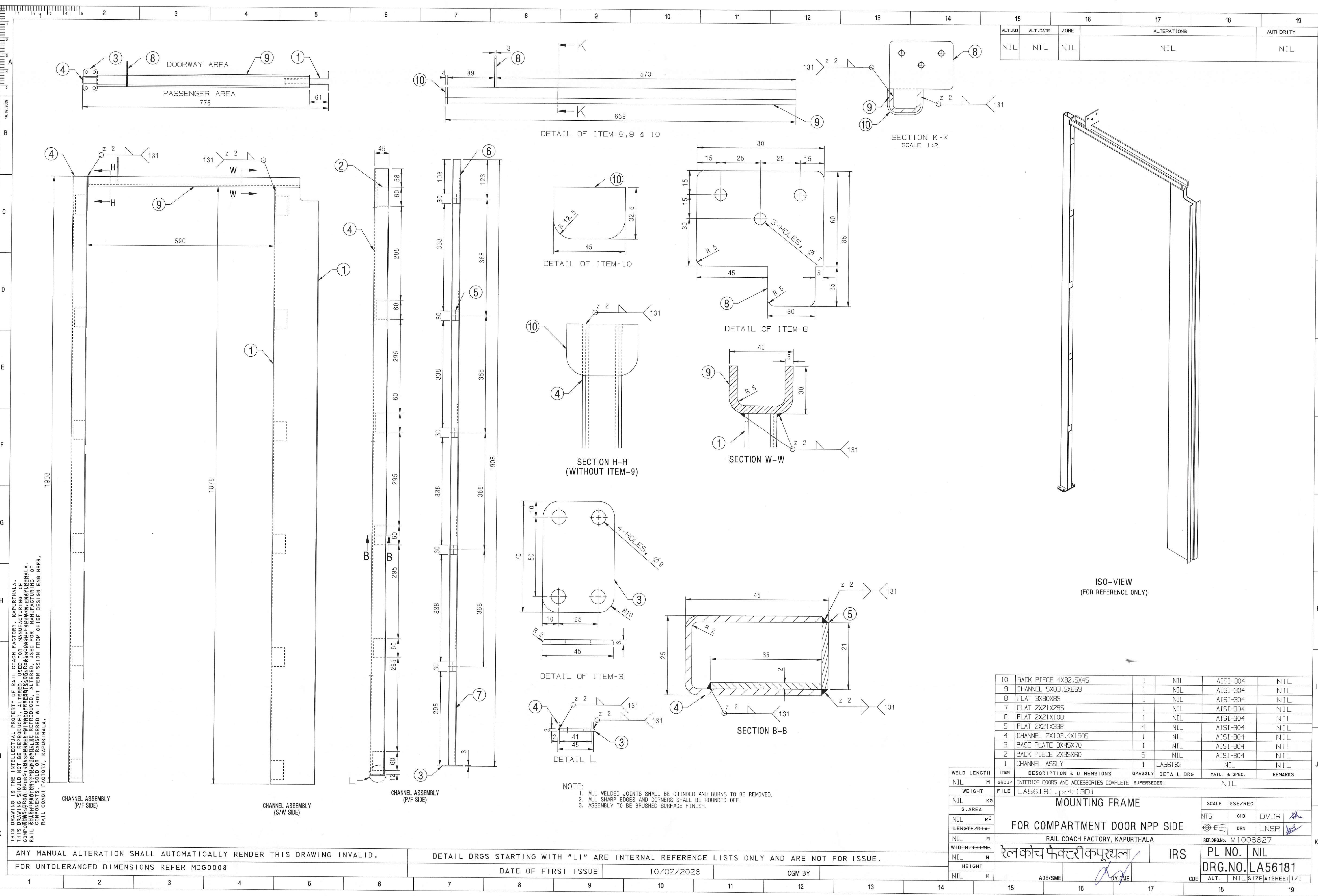
28 JUN 2014

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	OPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL	M	GROUP	INTERIOR DOORS & ACCESSORIES COMPLETE	SUPERSEDES:	NIL	
WEIGHT	FILE	MI006258.prt (3D)				
0.050	KG					
S.AREA						SCALE
NIL	M2	HOLDING BLOCK				
LENGTH / DIA						1:1
NIL	M	RAIL COACH FACTORY, KAPURTHALA				
WIDTH / THICK						CHD
NIL	M	रेल कोच फेक्टरी कपूरथला				
HEIGHT						DRN
NIL	M	ADE/SME				
		28/06/14		DY.CME		YKSH
		N.R		CDE		PRSH

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE.	
THIS IS A COMPUTER GENERATED DRAWING. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER IT INVALID.	
FOR UNTOLERANCED DIMENSIONS REFER MDG0008	DATE OF FIRST ISSUE
	27/06/2014
CGM BY	

PL NO.	DRG.NO.	SIZE	SHEET
NIL	MI006258	A3	1/1





ALT. NO	ALT. DATE	ZONE	ALTERATIONS	AUTHORITY
NIL	NIL	NIL	NIL	NIL

10	BACK PIECE 4X32.5X45	1	NIL	AISI-304	NIL
9	CHANNEL 5X83.5X669	1	NIL	AISI-304	NIL
8	FLAT 3X80X85	1	NIL	AISI-304	NIL
7	FLAT 2X21X295	1	NIL	AISI-304	NIL
6	FLAT 2X21X108	1	NIL	AISI-304	NIL
5	FLAT 2X21X338	4	NIL	AISI-304	NIL
4	CHANNEL 2X103.4X1905	1	NIL	AISI-304	NIL
3	BASE PLATE 3X45X70	1	NIL	AISI-304	NIL
2	BACK PIECE 2X35X60	6	NIL	AISI-304	NIL
1	CHANNEL ASSLY	1	LA56182	NIL	NIL

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	QPASSLY	DETAIL	DRG	MATL. & SPEC.	REMARKS
NIL	M	GROUP	INTERIOR DOORS AND ACCESSORIES COMPLETE	SUPERSEDES:	NIL		
WEIGHT	FILE	LA56181.prt (3D)					
NIL	KG						
S. AREA							
NIL	M ²						
LENGTH/DIA							
NIL	M						
WIDTH/THICK.							
NIL	M						
HEIGHT							
NIL	M						

MOUNTING FRAME

FOR COMPARTMENT DOOR NPP SIDE

RAIL COACH FACTORY, KAPURTHALA

REF.DRG.NO. M1006627

SCALE

SSE/REC

NTS

CHD

DVDR

DRN

LNSR

PL NO. NIL

DRG.NO. LA56181

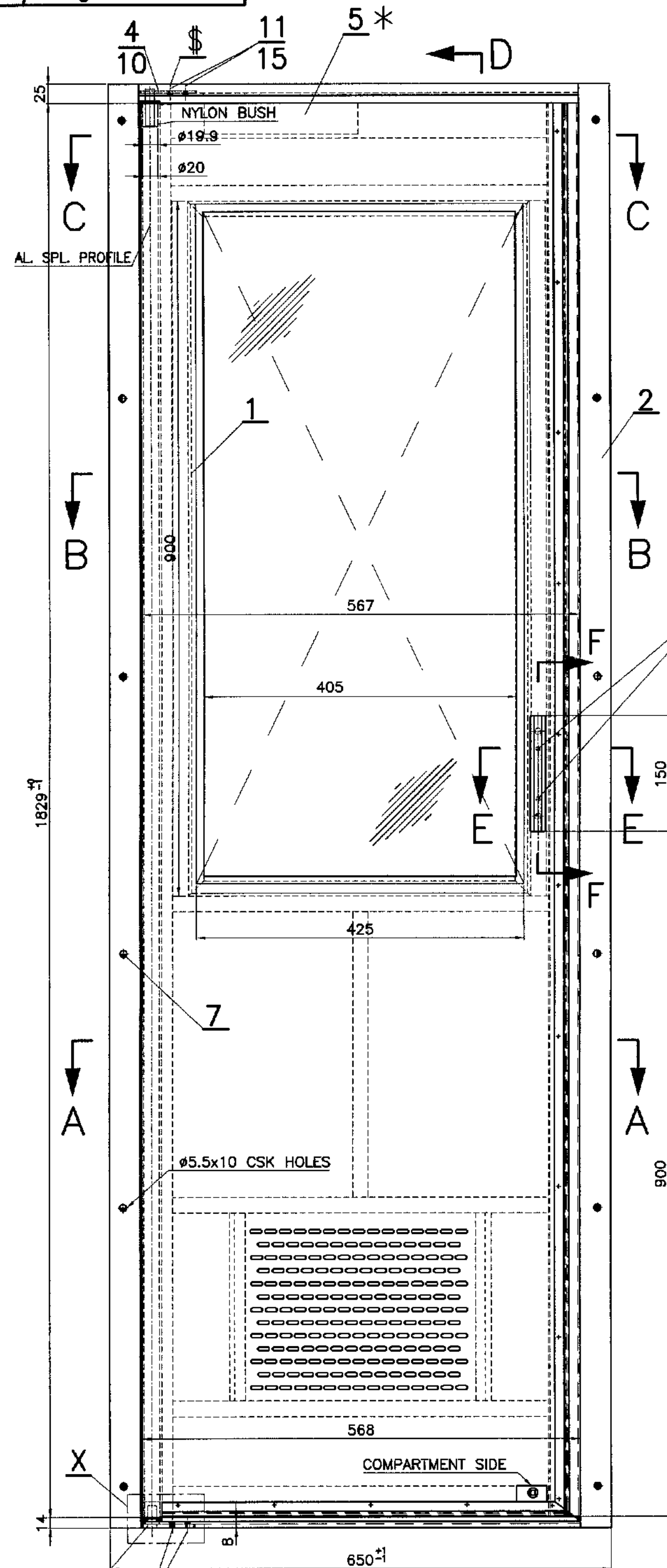
ALT. NIL

SIZE A

SHEET 1/1

THIS DRAWING IS THE INTELLECTUAL PROPERTY OF RAIL COACH FACTORY, KAPURTHALA. THIS DRAWING SHOULD NOT BE REPRODUCED, ALTERED, USED FOR MANUFACTURING OF RAIL COMPONENTS OR FOR ANY OTHER PURPOSE WITHOUT PERMISSION FROM CHIEF DESIGN ENGINEER, RAIL COACH FACTORY, KAPURTHALA.

▽ ROUGH MACHINED	⑥ DOOR CLOSING CLEANING	07/2014 COL-HI ADDED. AND SPECIFICATION FOR DOOR CLOSING DEVICE CORRECTED IN NOTE-12. Sd/- Sd/- SSE/D SME/DSD
▽▽ FINISH MACHINED		07/2014 NON PIVOT SIDE. AL. PROFILE DESIGN REVISED. EPDM RUBBER PROFILE ADDED. NOTES-2&3 REVISED FROM P.C SHEET TO SAFETY GLASS. Sd/- Sd/- SSE/D SME/DSD
▽▽▽ FINE FINISH MACHINED		07/2014 NOTE-12 REVISED. Sd/- Sd/- SSE/D SME/DSD
		08/2014 NOTES REVISED AND MAT. SPEC. ADDED. Sd/- Sd/-25/08 SSE/D SME/DSD
		09/2014 DRG REVISED AND REDRAWN. Sd/- Sd/-27/09 SSE/D SME/DSD
		12/2015 DOOR ASSY. HT. ALTD FROM 1888 TO 1868 AND DRG REVISED ACCORDINGLY. Sd/- Sd/-16/12 SSE/D SME/DSD
		03/2021 ITEMS-8,9 & FIXING DIMENSION FOR ITEM-6 ADDED. Sd/- Sd/-25/03 SSE/D SME/D
		10/2021 ITEMS-10 TO 16 ADDED. DOOR FIXING ARRGT. MODIFIED. NOTE-&87 ADDED. & NOTE-1 REVISED. Sd/- Sd/-27/10 SSE/D SME/D
		05/2024 ITEMS-7 RSD CSK HD TAPP SCREW 4.8x25F MODIFIED WITH M5x25 SLOTTED GAL CSK SCREW AND REF.DRG REVISED. SSE/D SME/D

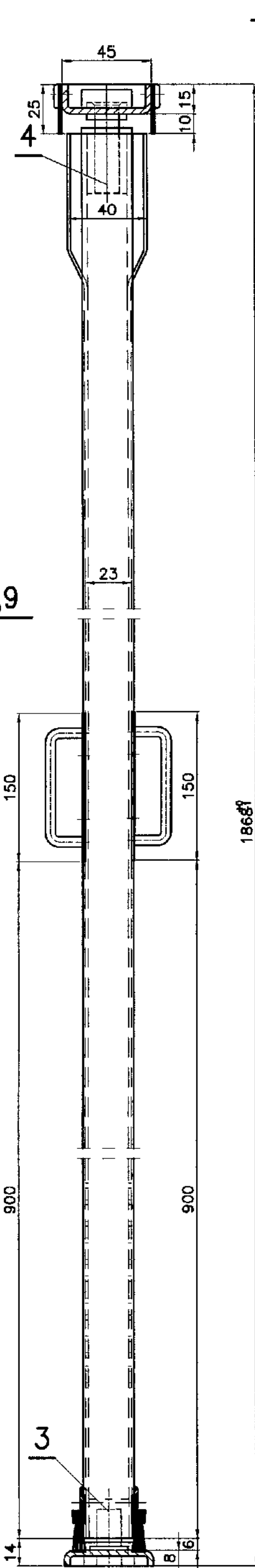


DOOR ASSY. ← D

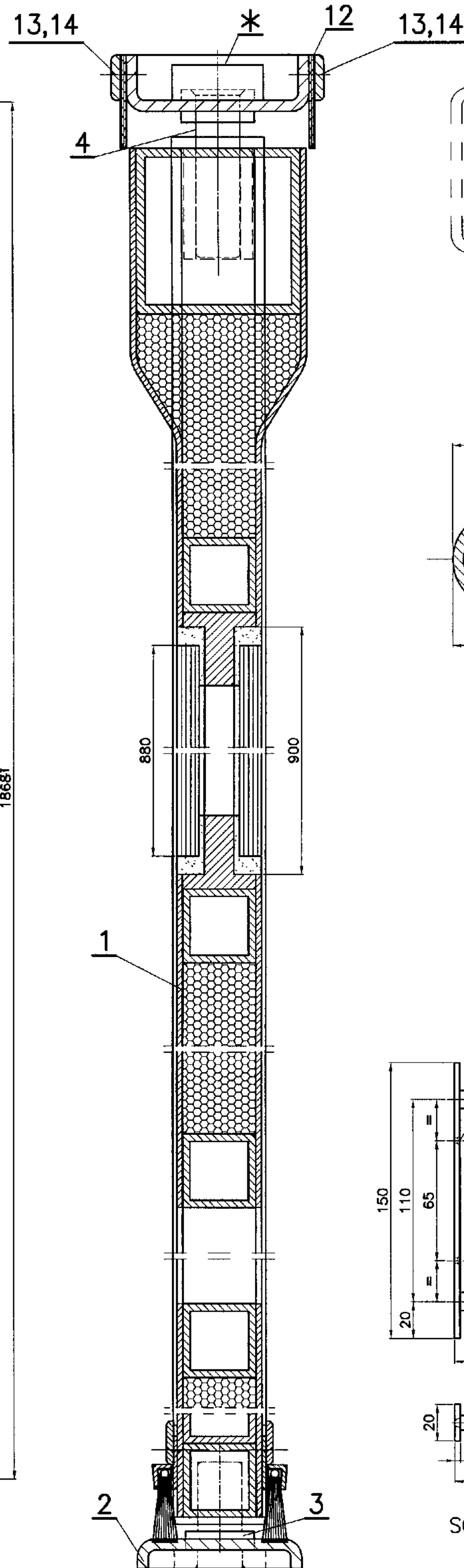
COL-I AS DRAWN (PIVOT LT. SIDE)

COL-II OPPOSITE (PIVOT RT. SIDE)

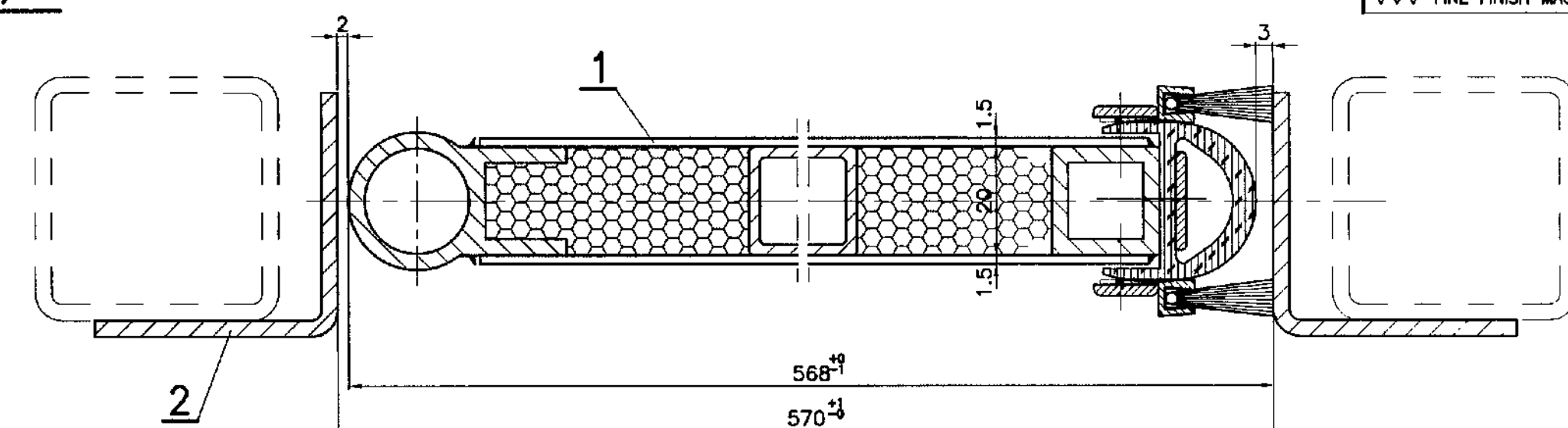
SCALE-1:5



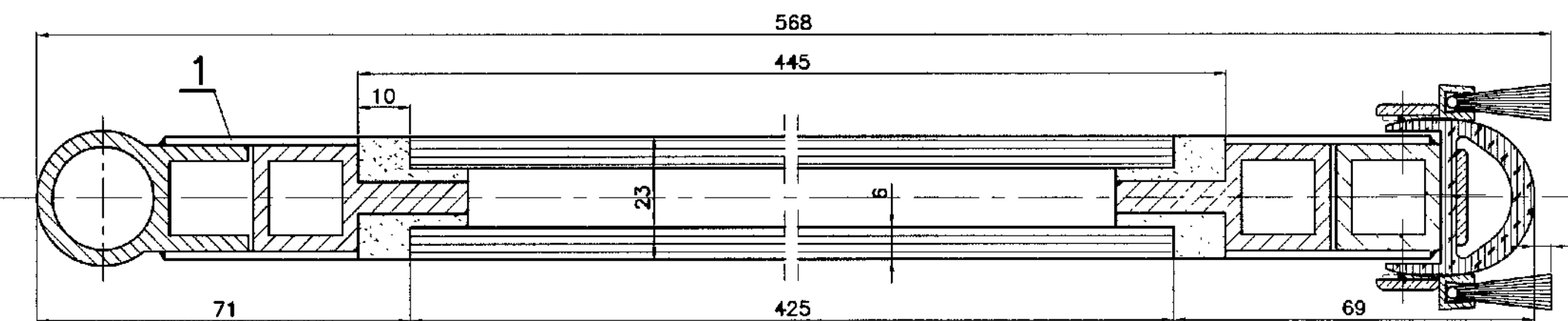
SCALE-1:2



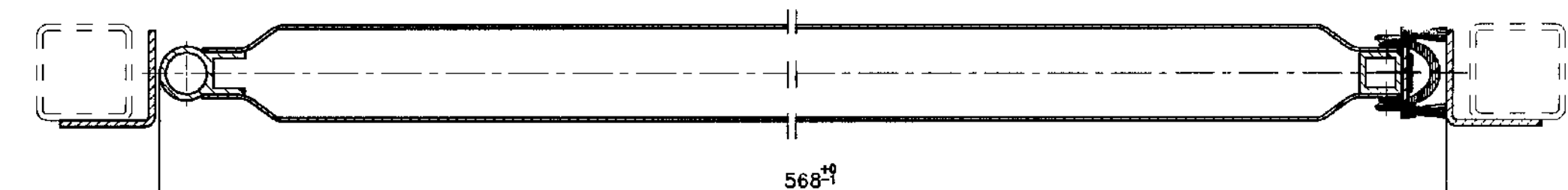
SECTION-DD
SCALE-1:1



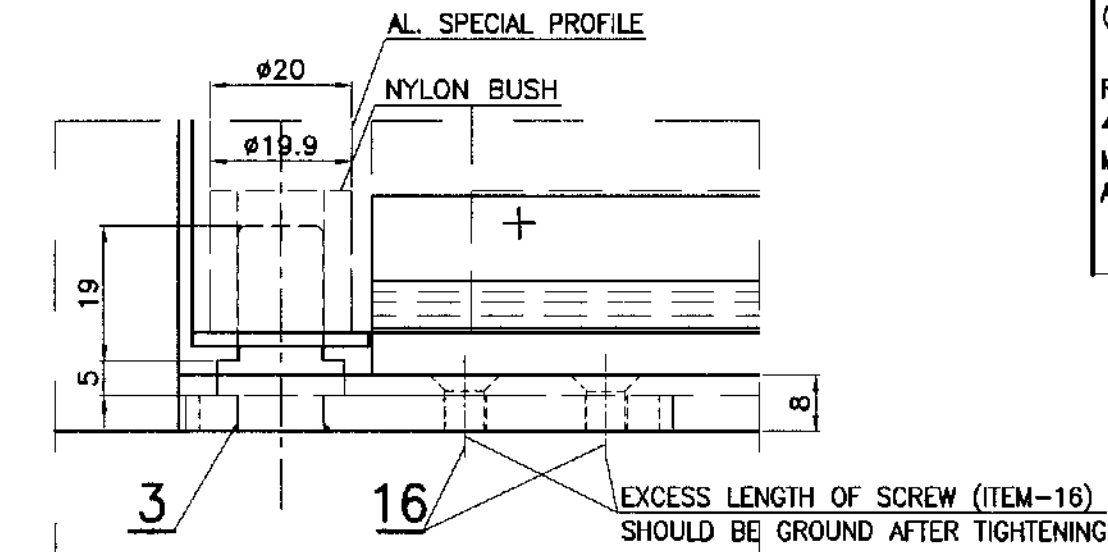
SECTION-AA
SCALE-1:1



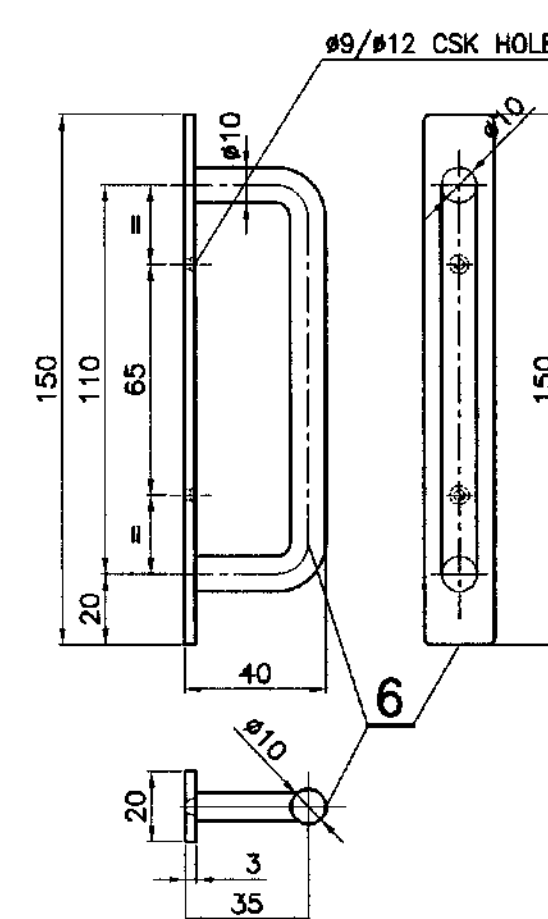
SECTION-BB
SCALE-1:1



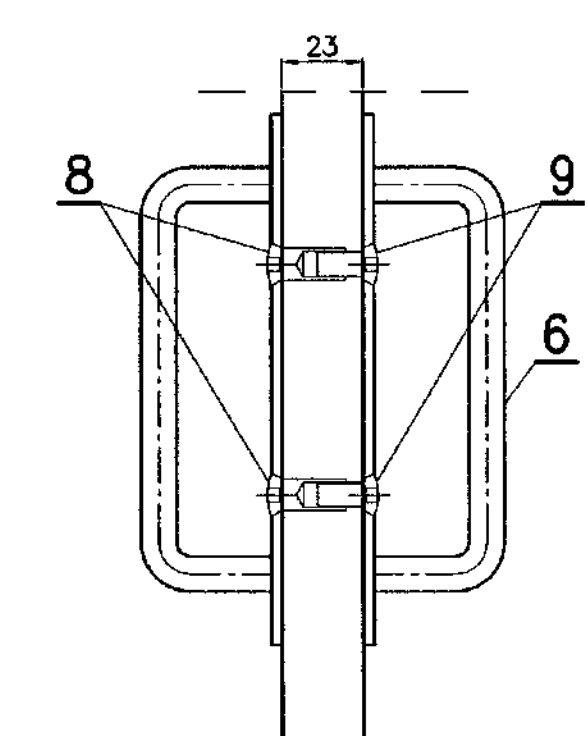
SECTION-CC
SCALE-1:2.5



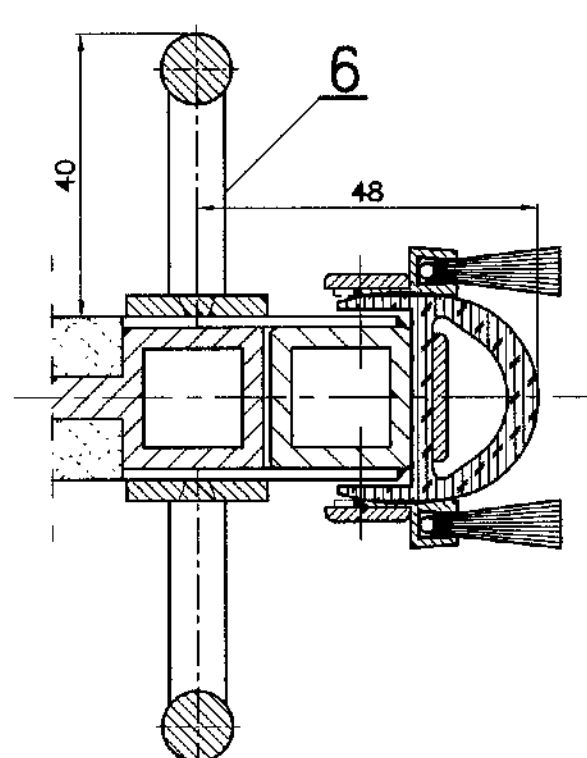
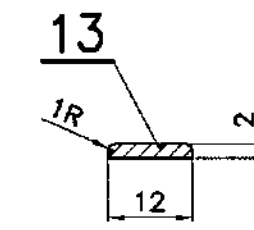
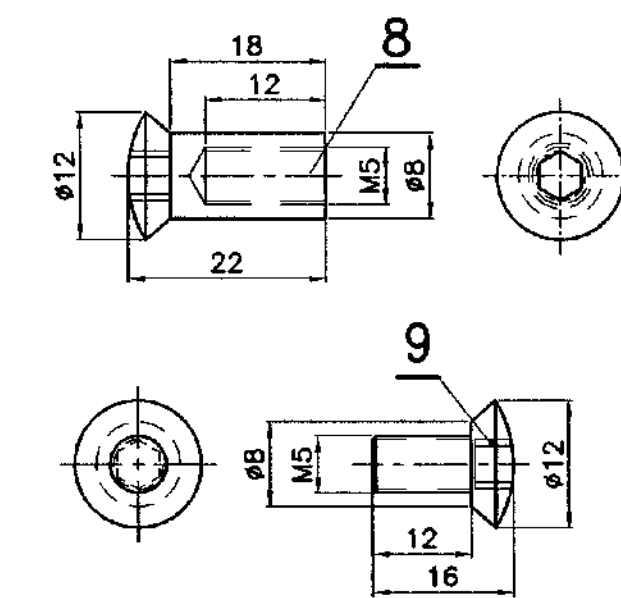
DETAIL AT-X
SCALE-1:1



SCALE-1:2



SECTION—FF
SCALE—1:2



SECTION-EE SCALE-1:1

*-1. THE OVERHEAD DOUBLE ACTING CONCEALED DOOR CLOSER DEVICE (ITEM-5) SHALL BE OF M/S DORMA MODEL NO. ITS-9E UN 2-4, (OR) M/S GEZE DOOR TECHNOLOGY & GLASS SYSTEMS, MODEL NO. GEZE BOXER GR. 2-4, (OR) M/S YALE, MODEL NO. YIC 5324 SLIM. DOOR STOPPER AND FIXING DETAILS SHALL BE AS PER FIRM'S CATALOGUE TO ACHIEVE THE DESIRED OPENING ON BOTH SIDES.

2. ASSEMBLY SHALL BE POWDER COATED TO ICF/M/SP/EC-091 TO COLOR SHADE AS APPROVED BY ICF DESIGN.

3. OPEN TOLERANCE TO DRG. NO. ICF/STD-9-0-0-001 SHALL GENERALLY BE FOLLOWED WHEREVER TOLERANCE IS NOT MENTIONED FOR DIMENSIONS.

4. CHAIR CASTERS SHALL BE PROVIDED TO 2 ROULETS TO 2 CHAIRS.

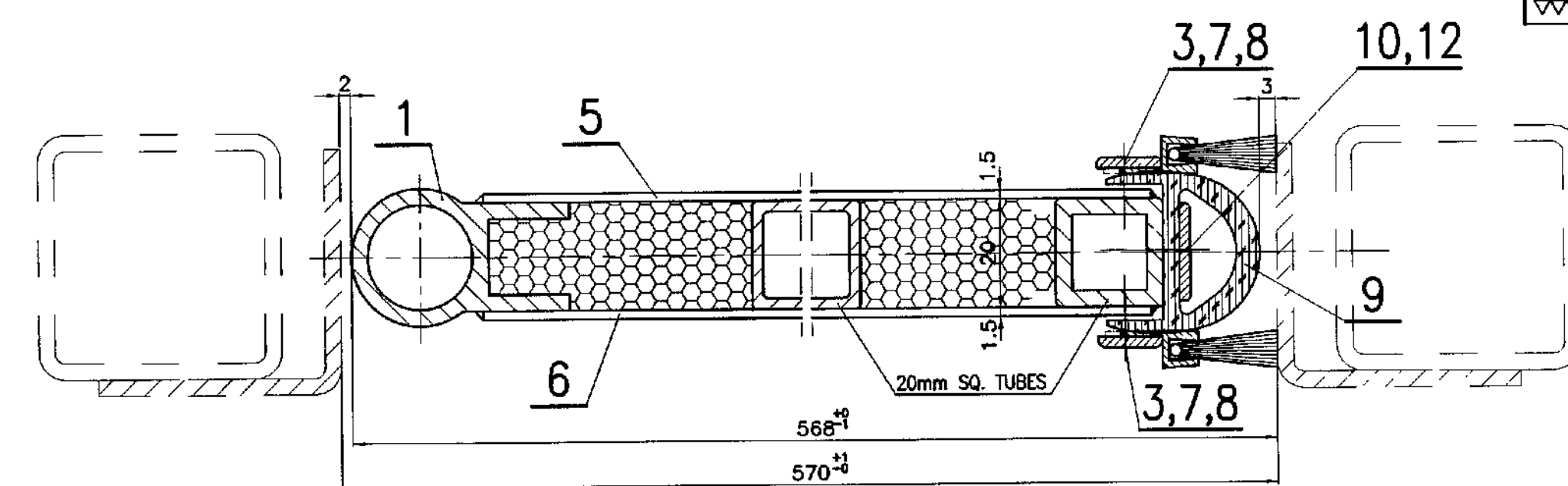
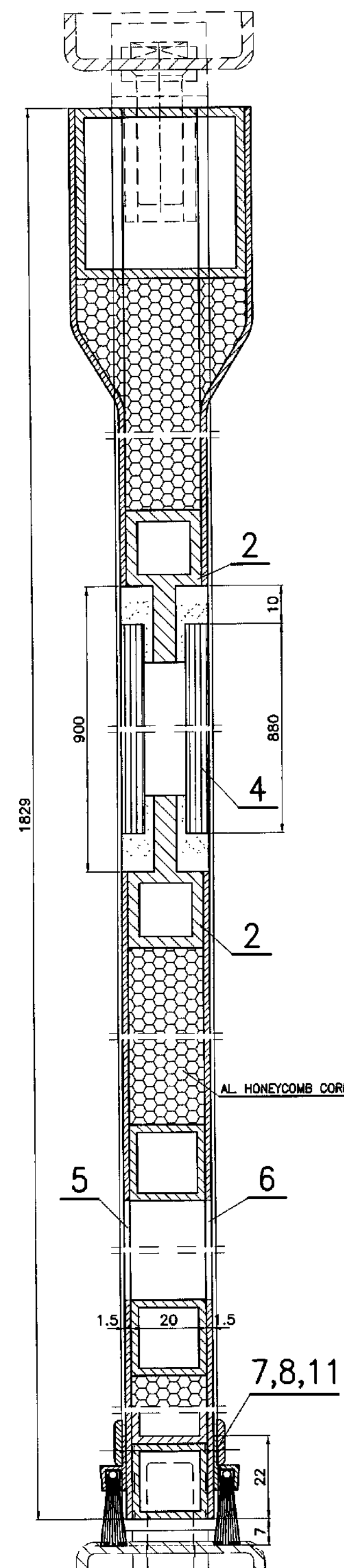
5. MANUFACTURERS NAME, ADDRESS AND YEAR OF MANUFACTURE SHALL BE INDICATED AT THE LOCATION MARKED THIS \odot FOR IDENTIFICATION.

*-6. CSK SCREW, SPRING WASHER & NUT SHALL BE PROVIDED TO FIX TOP PIVOT. BOTTOM PIVOT TO BE FIXED WITH ITEM-16.

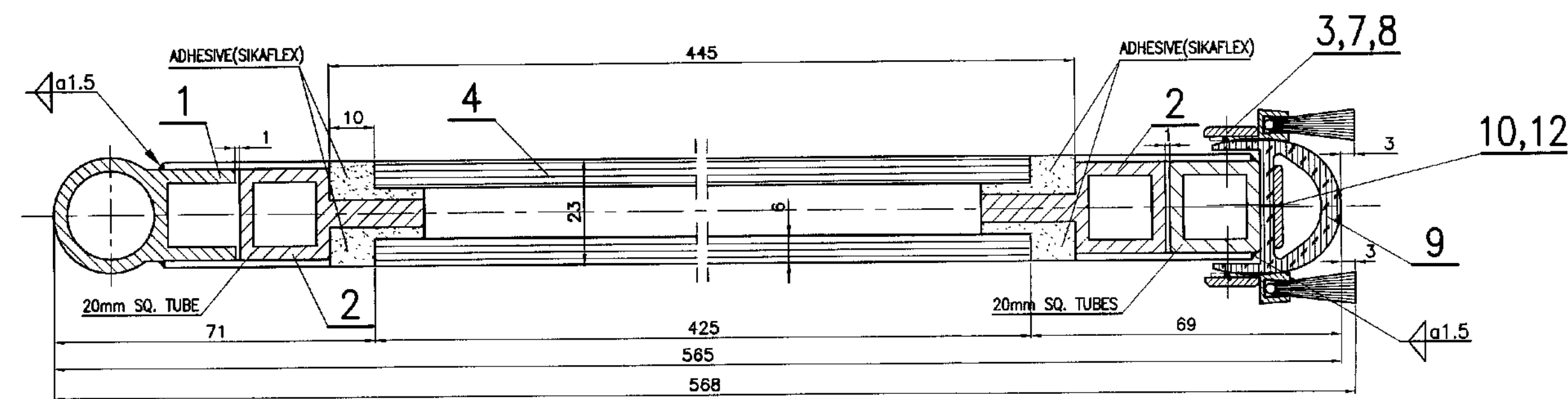
7. DOUBLE SLID SWING DOOR ASSEMBLY SHALL MEET THE REQUIREMENTS AS PER SPECIFICATION OF ICF/M/SP/EC-268.

[illegible]

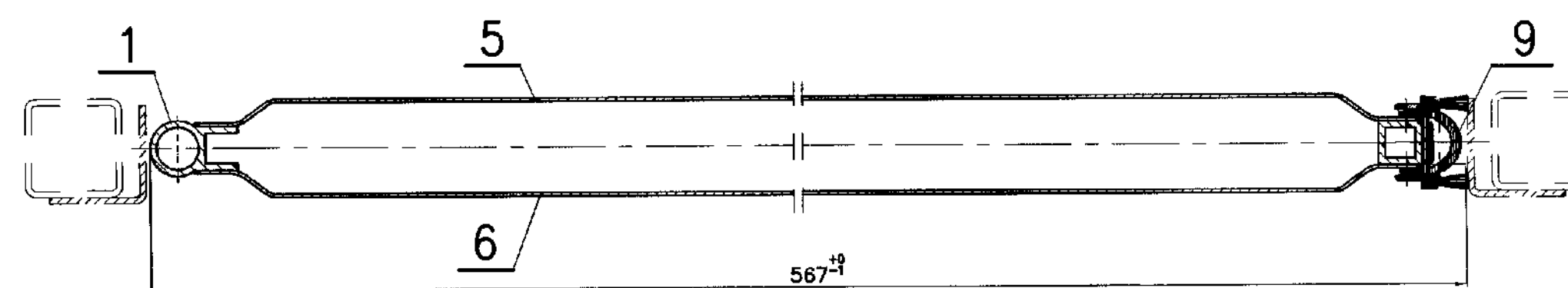
▽ ROUGH MACHINED	⑤ ROUGH CLEANING	ALTERATIONS
▽▽ FINISH MACHINED		⑥ 10/2014 FOR ITEM-3 MAT'L SPEC. ALTD. FROM EDPM TO EPDM. Sd/- Sd/- 9/10 SSE/D SME/D
▽▽▽ FINE FINISH MACHINED		⑦ 12/2015 DOOR ASSY. HT. ALTD FROM 1888 TO 1868. AND DRG REVISED ACCORDINGLY. Sd/- Sd/- 16/12 SSE/D SME/DSS
		⑧ 01/2018 ITEM-7 & NOTE-5 ADDED FOR SECURING ITEM-3 Sd/- Sd/- 31/01 SSE/D SME/DSS
		⑨ 10/2021 DRAWING REVISED. NOTE-5 REVISED, 6&7 ADDED. Sd/- Sd/- 27/10 SSE/D SME/D
		⑩ 07/2023 IN DETAIL-A DIMENSION 25 ALTERED AS 5. <i>254mm</i> <i>AME</i> Sd/- <i>AME</i> SSE/D



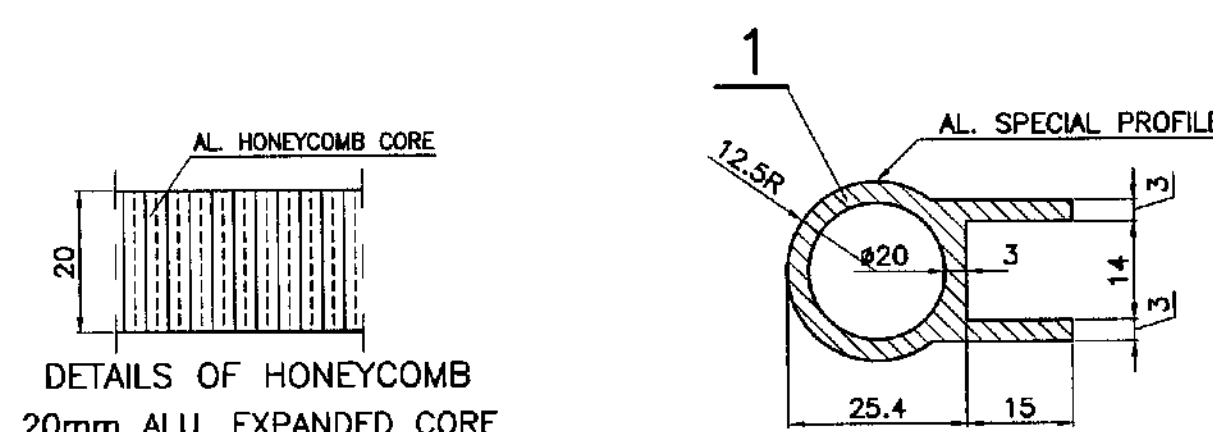
SCALE-1:1



SCALE-1:1



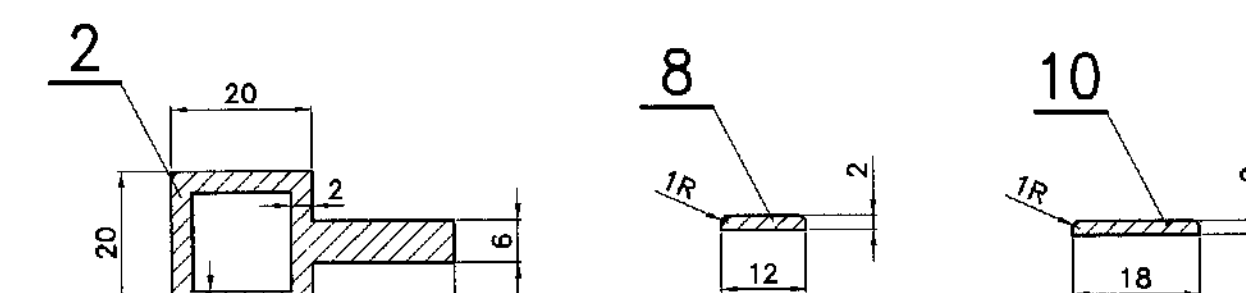
SCALE-1:2.5



DETAILS OF HONEYCOMB
20mm ALU. EXPANDED CORE
MATERIAL -3003 +ALU. FOILS,
ALU. FOILS THICKNESS-0.068mm,
CELL SIZE-6.3mm,
CORE DENSITY 85-100kg/m³.

PIVOT SIDE PROFILE

SCALE-1:1



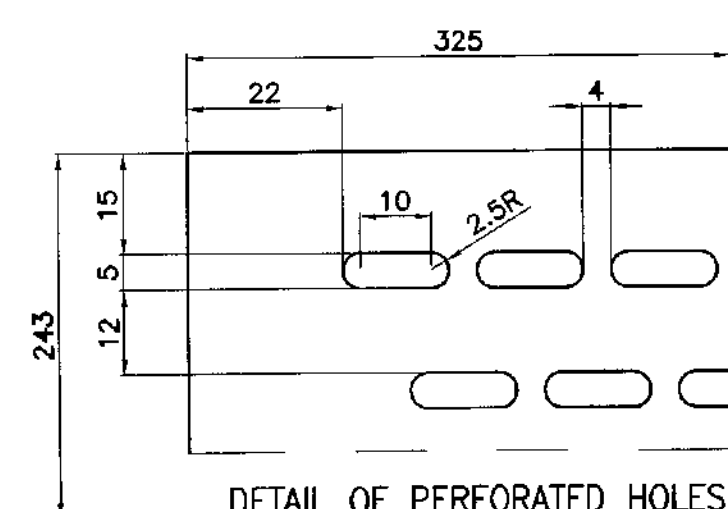
10	10	PAN HD TAPP SCREW	ST4.2x13-F	12	IS:7173-89	IS:1367(P-14) B4 Gr-A2 70		
2	2	SEALING BRUSH	L=540	11	3.10113.0 21.500.119			
1	1	FLAT MOULDING	2x18x1850	10		IS:737-08 31000 H2		
1	1	GASKET FRONT	L=1850	9	LD56150			
1	1	FLAT MOULDING	2x12x4800	8		IS:737-08 31000 H2		
30	30	CSK HD TAPP SCREW	ST4.2x13-F	7	IS:7170-89	IS:1367(P-14) B4 Gr-A2 70		
1	1	ALU. OUTER SHEET	1.5x525x1829	6		IS:737-08 31000 H2		#, ICF/MD/SPEC-268
1	1	ALU. INNER SHEET	1.5x525x1829	5		IS:737-08 31000 H2		
2	2	GLASS	6x425x880	4		IS:2553-(P-1)1990		
2	2	SEALING BRUSH	L=1850	3	3.10113.0 21.500.119			
1	1	ALU. EXTRUSION	L=2900	2		IS:733-83 Gr. 63400 WP		
1	1	ALU. SPL. PROFILE (PIVOT SIDE)	L=1829	1		IS:733-83 Gr. 63400 WP		

NO OFF				DESCRIPTION & DIMENSIONS				ITEM		REF. DRG.		MAT. & SPEC.		WEIGHT/UNIT		REMARKS	
N				GROUP: 5-6										SUPERSEDED BY:			
				DOOR ASSEMBLY										SUPERSEDES: ICF/SK/3-5-6-017 ALT. d/-			
				(FOR DOUBLE SIDE SWING DOOR ASSY.)										SCALE		SSE/D	
														1:1		CHD	
														1:5		S. Shanmuga Raja	
														1:2.5		ALTD	
														2:1		DRN	
																H N Shajahan	
														ALT		a b c d e	
				CAD FILE:- C:\MD-CAD\329\5-6\329 5-6 017-SE00.dwg												INTEGRAL COACH FACTORY CHENNAI-38	
				DATA CODE No.				INDIAN RAILWAY STANDARDS				SHEET 1 OF 1		ICF/SK 3-5-6-017			
				329													

FORM IR A1 840 x 600

#

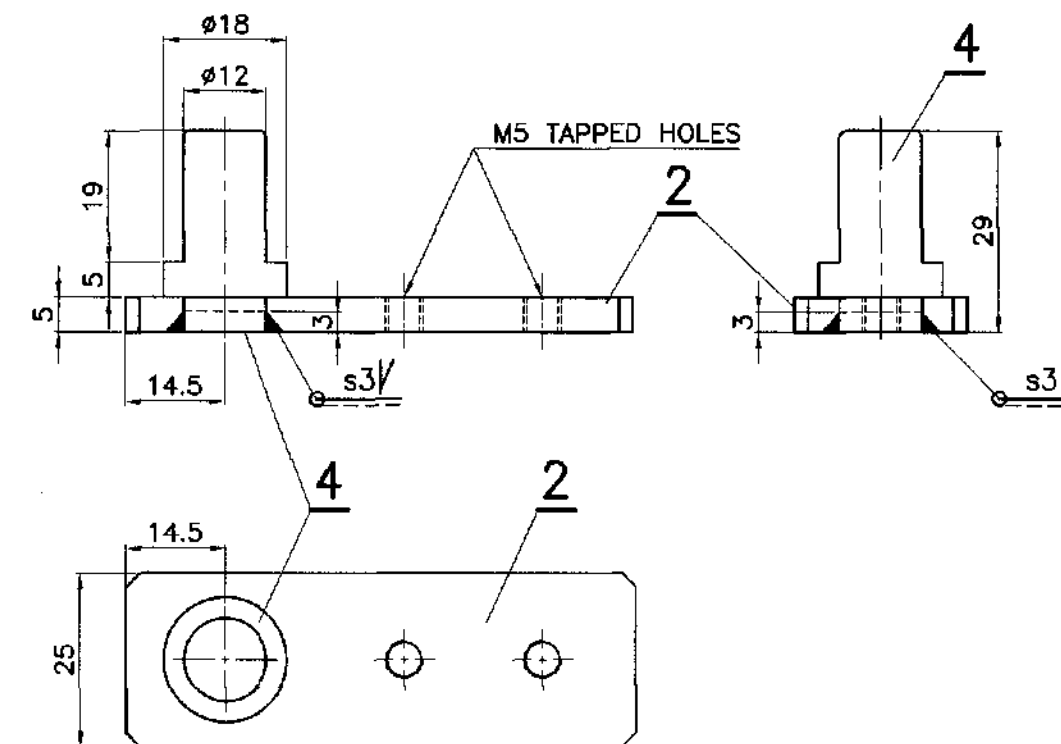
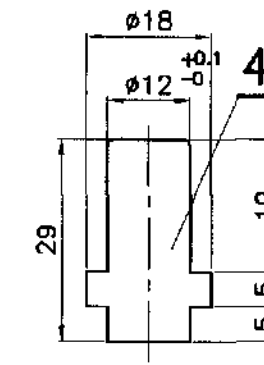
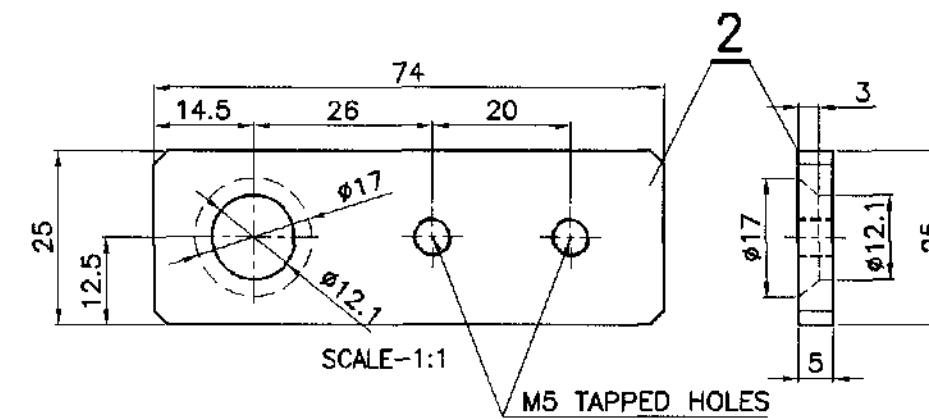
1. DOOR SHALL BE MADE WITH SPECIAL PROFILES ON SIDES. 20mm SQ. TUBES AND WITH REQUIRED BACKPIECES FOR FIXING DOUBLE SIDE HANDLE, GLASS FIXING AND PANELS SHALL BE WELDED PROPERLY BY MAINTAINING SQUARENESS. ALUMINIUM HONEYCOMB CORE GENERALLY CONFORM TO IS:11642(PART-2)-1966 SHALL BE PROVIDED IN DOOR FRAME BEFORE FIXING ONE SIDE OF CLOSING PANEL. ALUMINIUM SIDE PROFILE, SQ.TUBE AND BACKPIECES SHALL BE OF MAT. SPEC. IS:733-83 63400 WP AND ALUMINIUM SHEET SHALL BE OF SPEC IS:737-2008 31000 H2. FIRM SHALL SUBMIT WTC FOR ALU. HONEYCOMB CORE ALONG WITH SUPPLY OF DOOR.
2. 6mm THICK TUGHENED SAFETY GLASS 2.Nos. (6x420x875) TO MAT. SPEC. IS:2553 (PART-1)-1990 SHALL BE PROVIDED AT SPECIFIED LOCATION AND SHALL BE SEALED PROPERLY WITH SILICON SEALANT.
3. OPEN TOLERANCE TO DRG. No. ICF/STD-9-0-001 SHALL GENERALLY BE FOLLOWED WHEREVER TOLERANCE IS NOT MENTIONED FOR DIMENSIONS.
4. ALL SHARP CORNERS/EDGES TO BE ROUNDED OFF.
5. ALL WELD PERFORMANCE CLASS SHALL BE CP C2 UNLESS OTHERWISE SPECIFIED, (AS IN DRAWING No. ICF/STD-9-0-998).
6. FOR WELD TESTING PREFERENCES REFER DRAWING No. ICF/STD-9-0-998.
7. FOR WELD PROCEDURE SPECIFICATION REFER DRAWING No. ICF/STD-9-0-999.



SCALE-1:1

		ICF/SK3-5-6-014	
		ASSEMBLY DRAWINGS	
	24/07/2023	09/09/2014	<i>24/1/16</i>
ALT	DATE OF LATEST ALT	DATE OF FIRST ISSUE	AME/SME

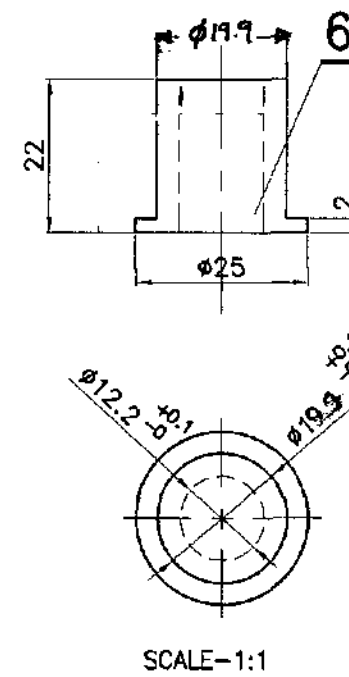
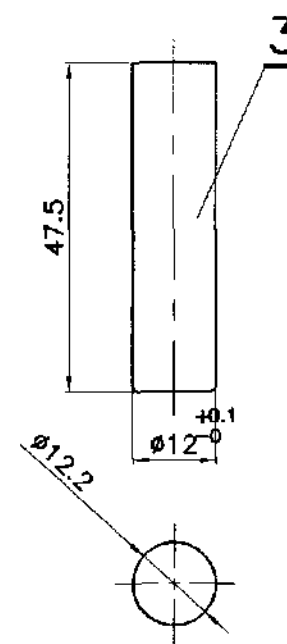
▽ - ROUGH MACHINED	① ROUGH CLEANING	ALTERATIONS
▽▽ - FINISH MACHINED		⑥ 05/2017
▽▽▽ - FINE FINISH MACHINED		DESIGN FOR ITEMS-4 & 6 REVISED.
		Sd/- Sd/- 5/5 SSE/D SME/D
		⑦ 10/2021
		DESIGN OF PIVET ASSY. REVISED. NOTE 4 to 6 ADDED.
		<i>[Signature]</i> <i>N. [Signature]</i> SSE/D SME/D



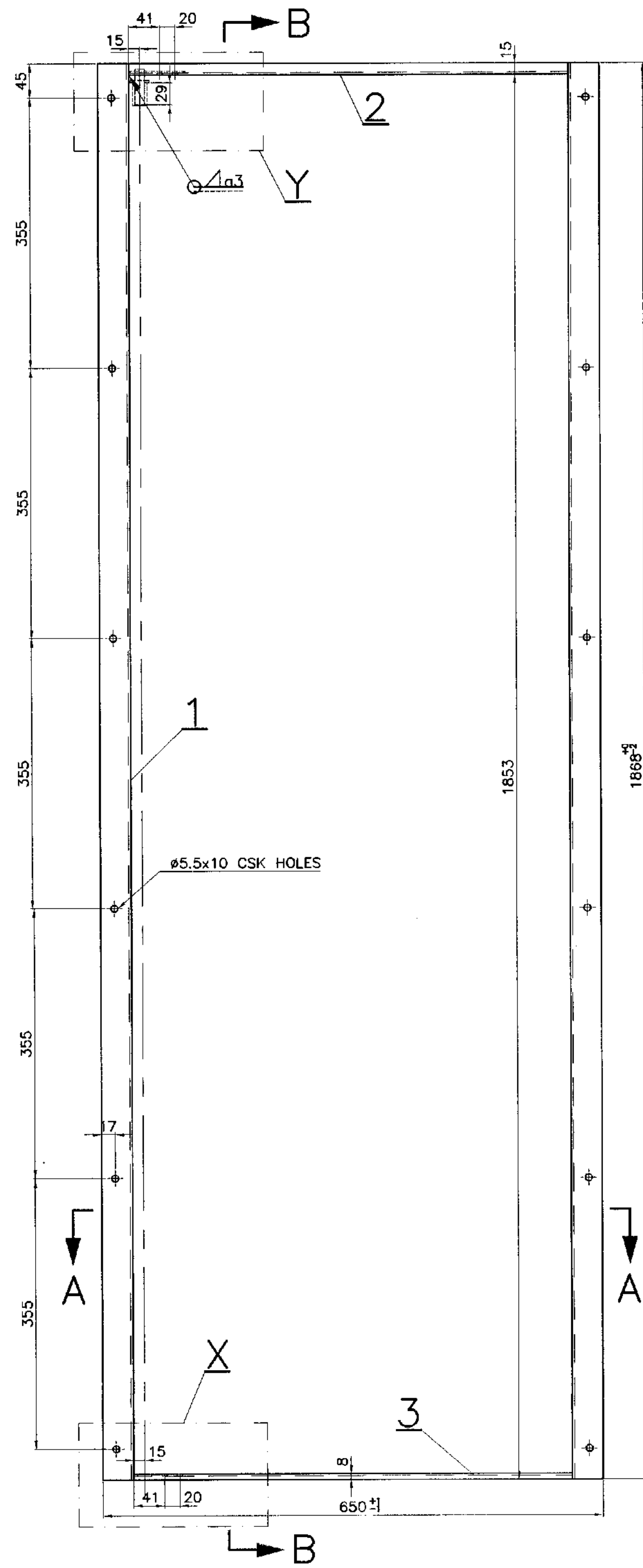
COL-II (PIVOT BOTOM)
SCALE-1:1

NOTE:—

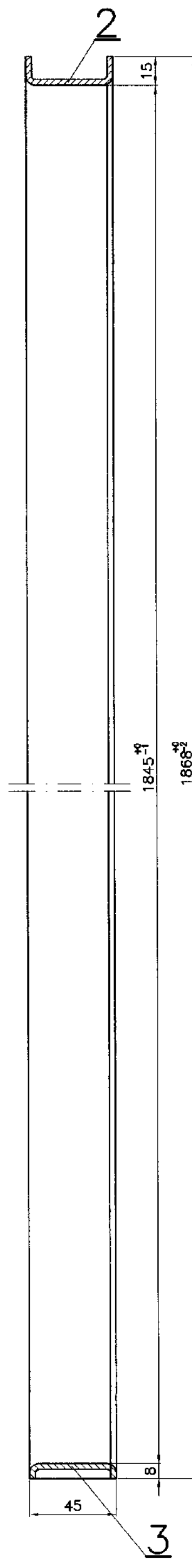
1. NYLON BUSHES TO RDSO/SPEC-WD 04 NYLON BUSHES-2002 SHALL BE PROVIDED.
2. OPEN TOLERANCE TO DRG. No. ICF/STD-9-0-001 SHALL GENERALLY BE FOLLOWED WHEREVER TOLERANCE IS NOT MENTIONED FOR DIMENSIONS.
3. ALL SHARP EDGES SHALL PROPERLY BE ROUNDED OFF.
4. ALL WELD PERFORMANCE CLASS SHALL BE CP C2 UNLESS OTHERWISE SPECIFIED, (AS IN DRAWING No. ICF/STD-9-0-998).
5. FOR WELD TESTING PREFERENCES REFER DRAWING No. ICF/STD-9-0-998.
6. FOR WELD PROCEDURE SPECIFICATION REFER DRAWING No. ICF/STD-9-0-999.

[illegible]

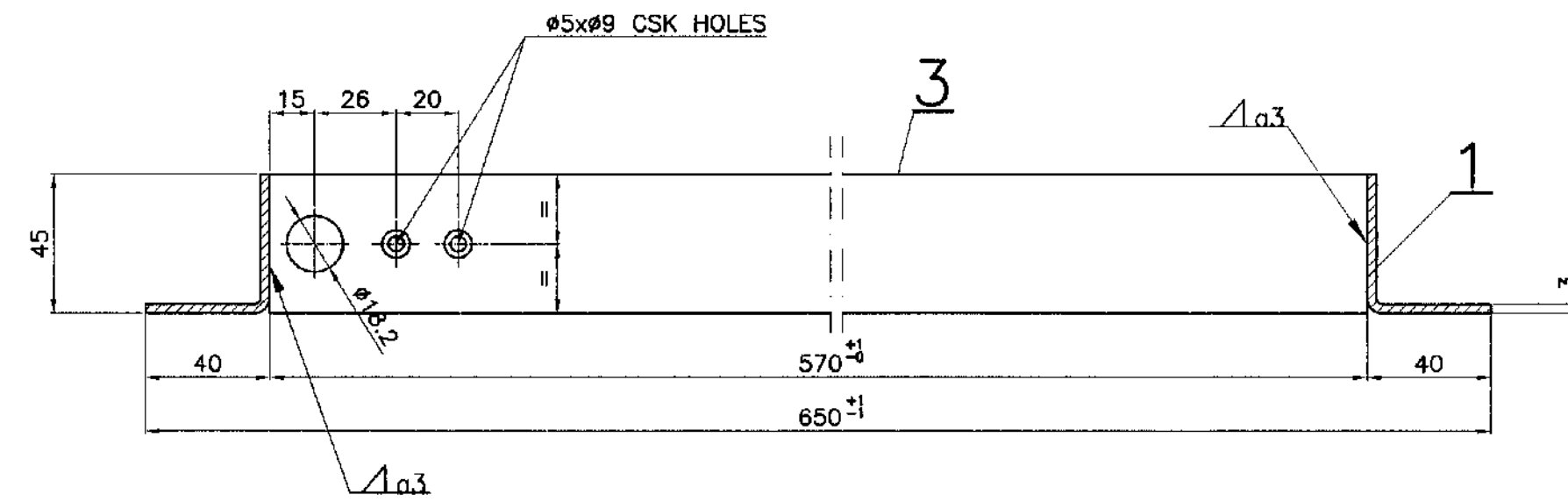
▽ ROUGH MACHINED	Ⓐ ROUGH CLEANING	<p>ALTERATIONS</p> <p>a 12/2015</p> <p>DOOR ASSY. HT. ALTD FROM 1888 TO 1868 AND DRG REVISED ACCORDINGLY.</p> <p>Sd/- Sd/-16/12 SSE/D SME/USD</p> <p>b 10/2021</p> <p>DRAWING REVISED.</p> <p>NOTE - 5 to 7 ADDED.</p> <p><i>[Signature]</i> SSE/D N.K.R./D</p>
▽▽ FINISH MACHINED	ⒶⒶ BURRS REMOVED	
▽▽▽ FINE FINISH MACHINED	ⒶⒶⒶ CHAMFERED	



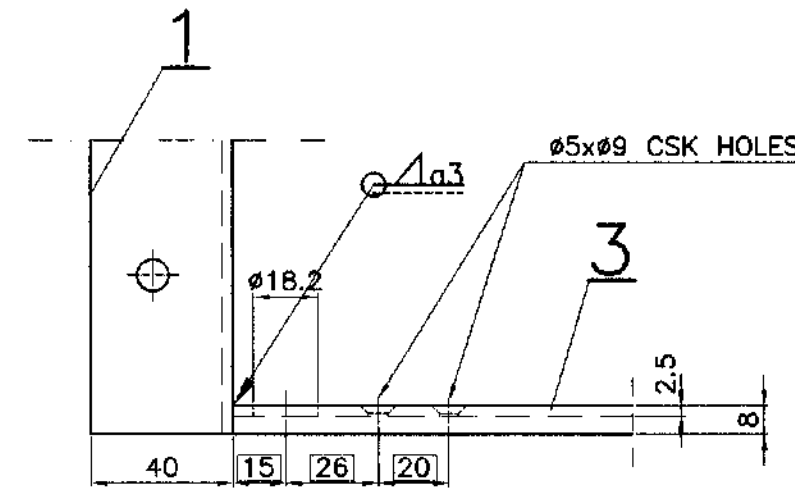
SCALE-1:5



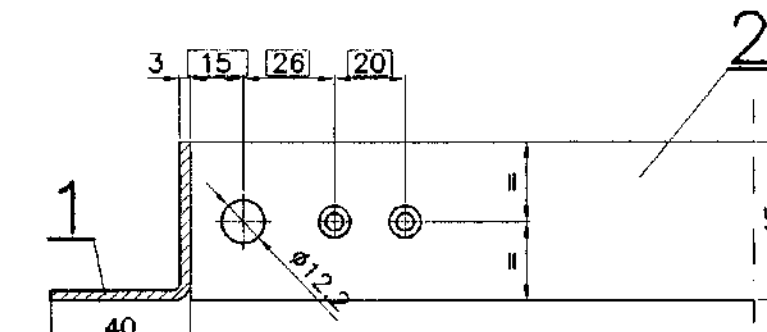
SECTION-BB
SCALE-1:2



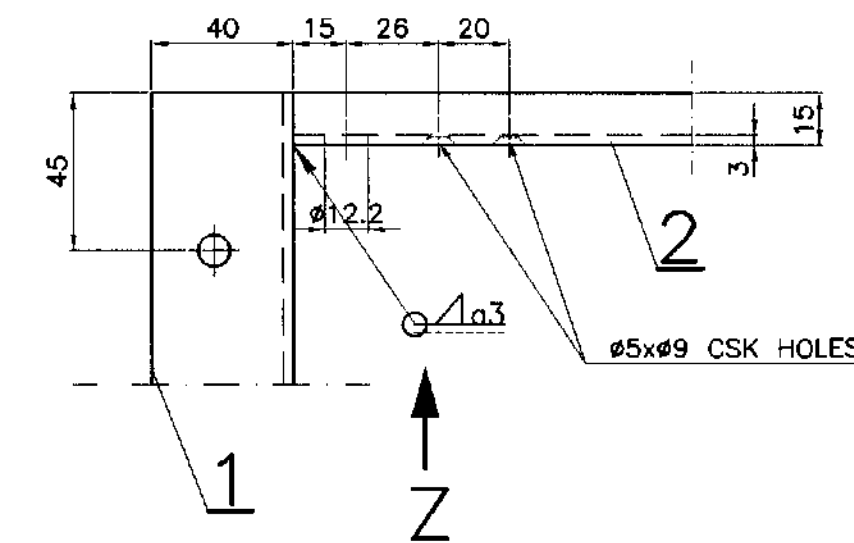
SECTION-AA
SCALE-1:2



DETAIL AT-X
SCALE=1:2



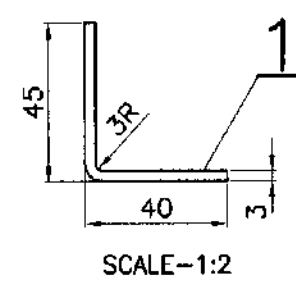
VIEW FROM-Z
SCALE-1:2



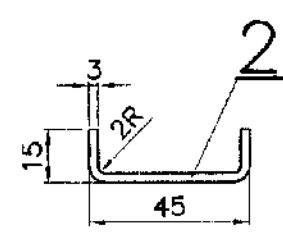
DETAIL AT-Y
SCALE-1:2

NOTE:-

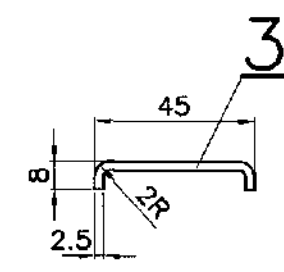
1. OPEN TOLERANCE TO DRG. No. ICF/STD-9-0-001 SHALL GENERALLY BE FOLLOWED WHEREVER TOLERANCE IS NOT MENTIONED FOR DIMENSIONS.
2. WHILE WELDING THE FRAME CARE SHOULD BE TAKEN TO MAINTAIN THE SQUARENESS/FLATNESS OF THE STRUCTURE.
3. ALL SHARP CORNERS/EDGES TO BE ROUNDED OFF.
4. TIG WELDING SHALL BE ADOPTED.
5. ALL WELD PERFORMANCE CLASS SHALL BE CP C2 UNLESS OTHERWISE SPECIFIED, (AS IN DRAWING No. ICF/STD-9-0-098).
6. FOR WELD TESTING PREFERENCES REFER DRAWING No. ICF/STD-9-0-098.
7. FOR WELD PROCEDURE SPECIFICATION REFER DRAWING No. ICF/STD-9-0-099.



SCALE-1:2



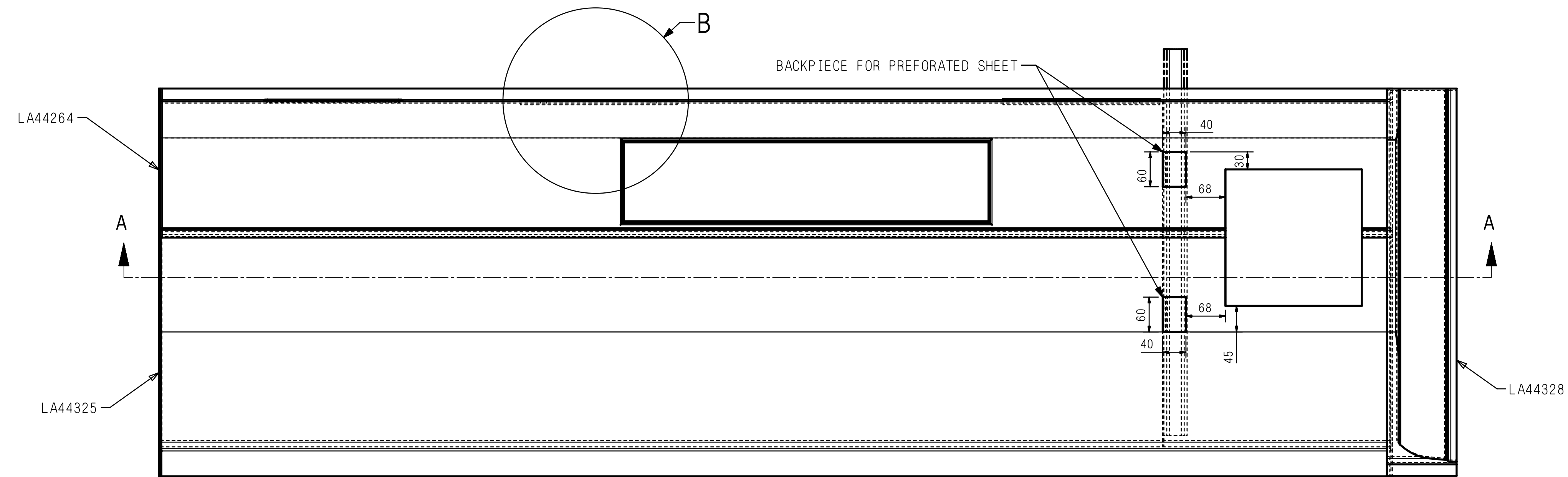
SCALE-1:2



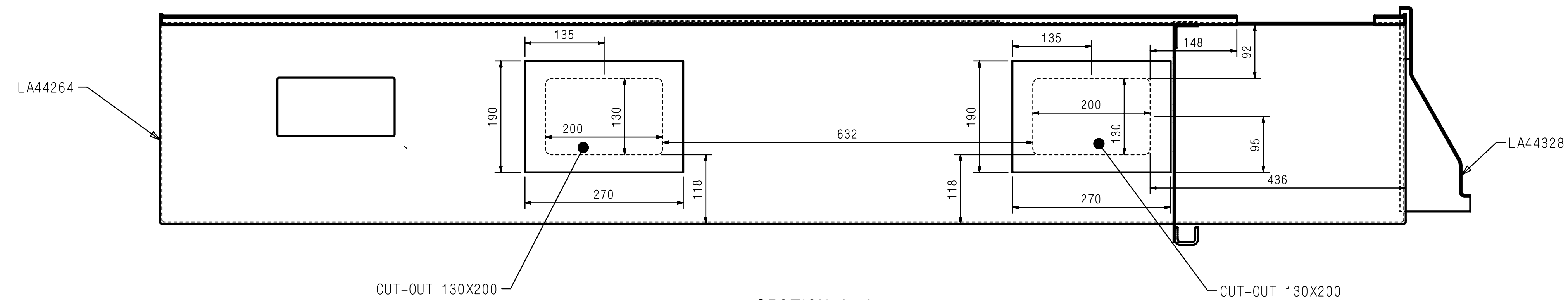
SCALE-1:2

[illegible]

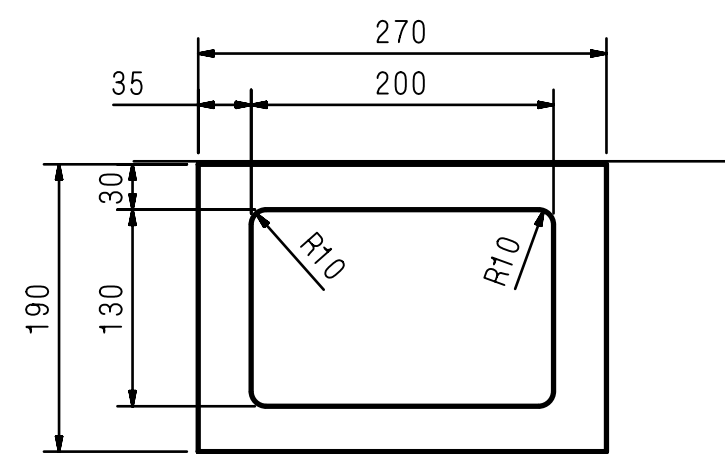
ANNEXURE-1(REVISED)



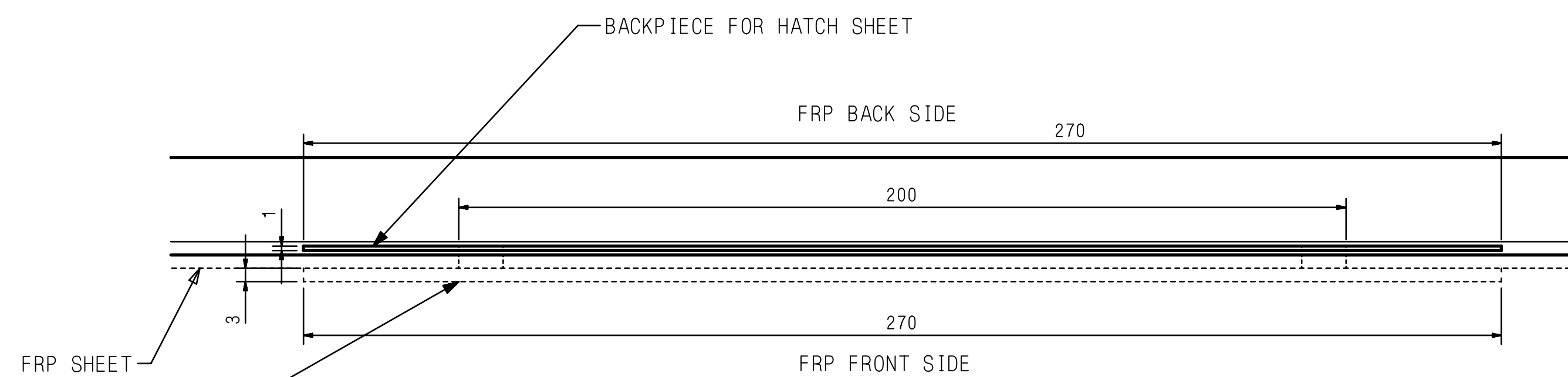
VIEW FROM X



SECTION A-A

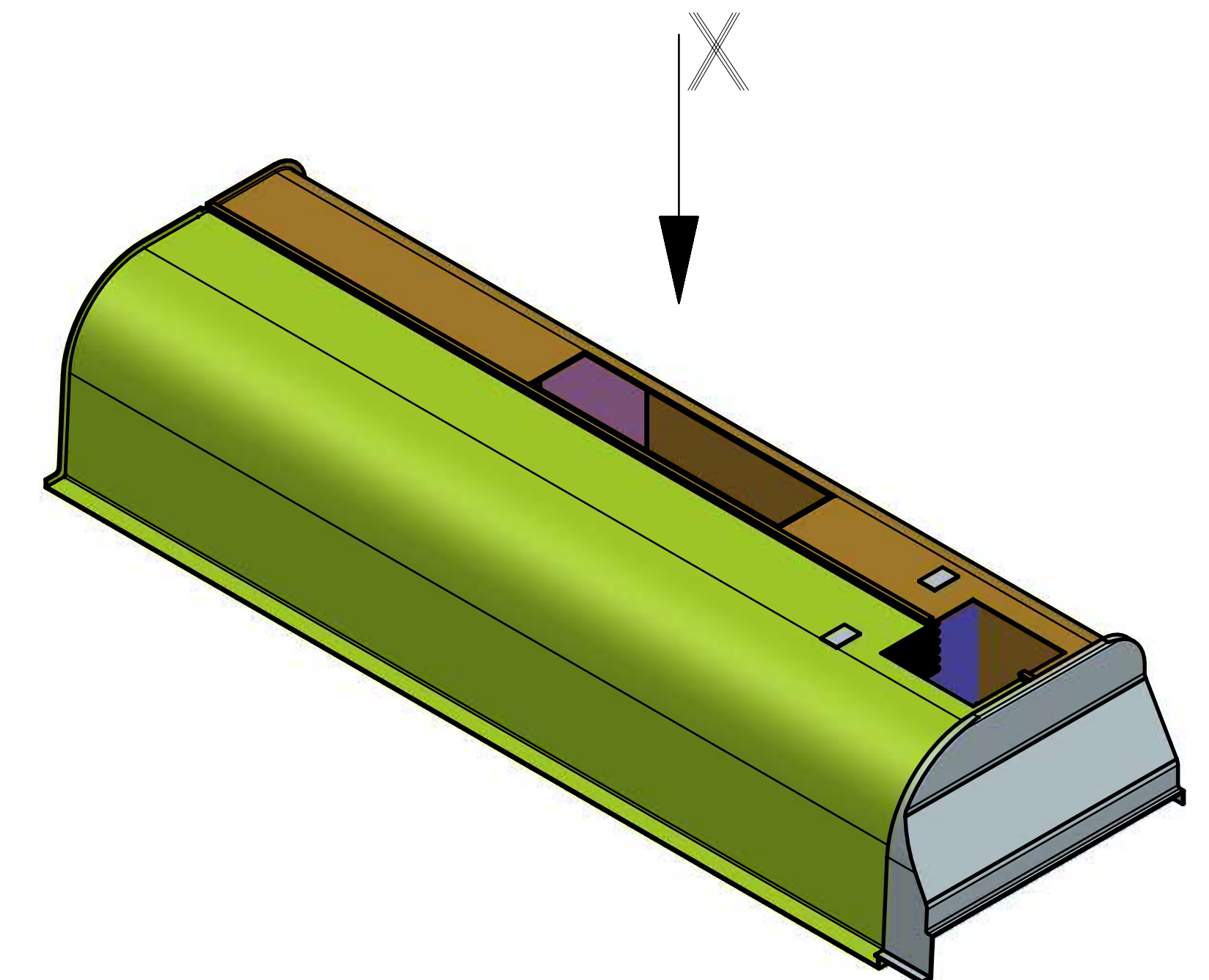


BACKPIECE FOR HATCH SHEET
OF IS: 5986-2002 Fe 330.
THICKNESS=1mm



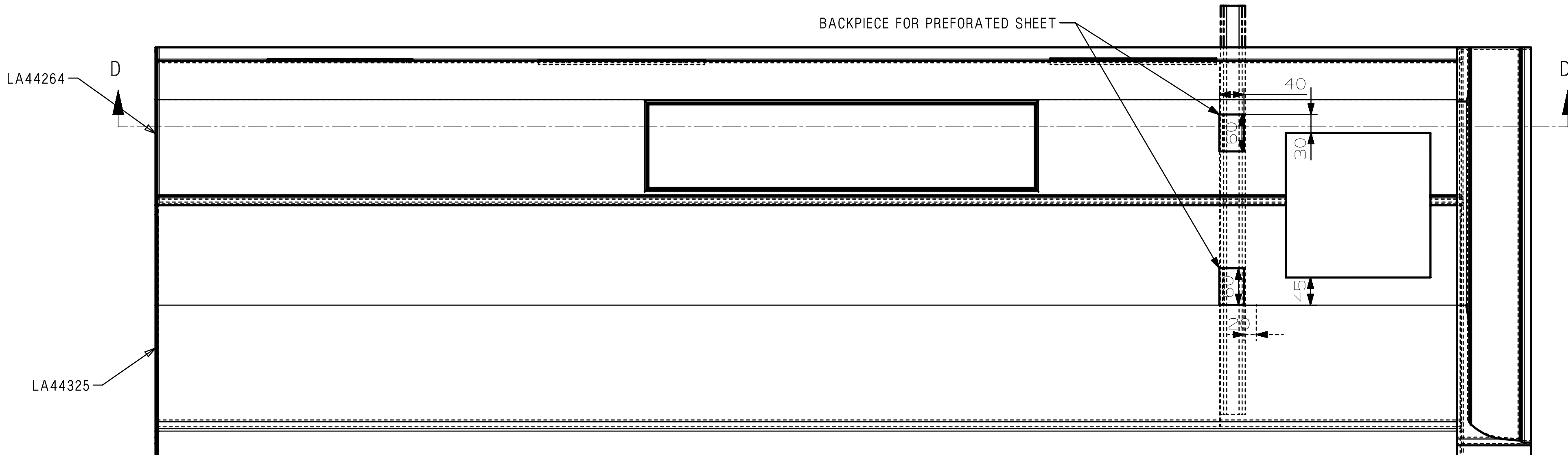
HATCH SHEET 190X270 (POWDER COATED TO RAL 9006)
ALUMINIUM FIXED WITH STAINLESS STEEL SLOTTED PAN HD
TAPP SCREW ST4.2x13-C (A2-70 TO IS: 1367 PT. 14-84) AT
SUITABLE PITCH.

DETAIL B
SCALE 1:1

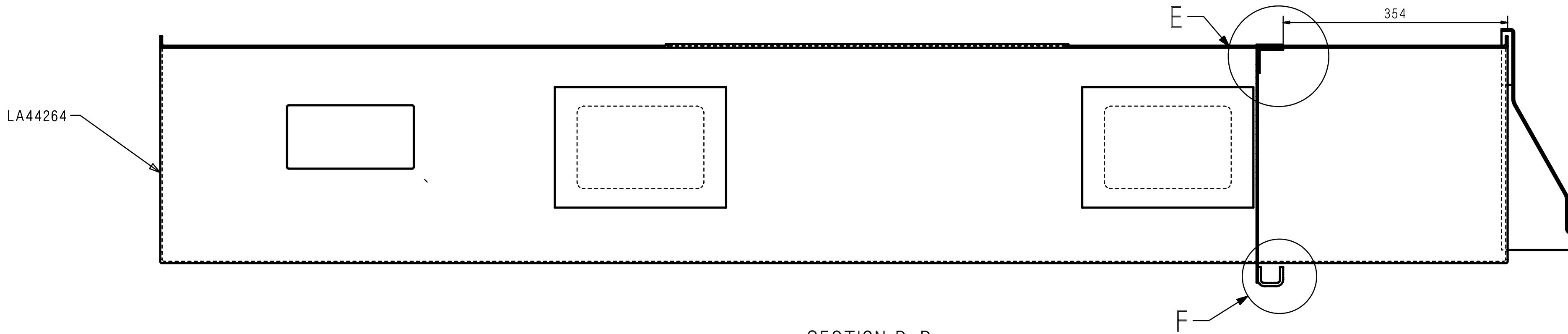


Paste back piece by Plexus MA8110 / MA8110GB - structural glues or similar

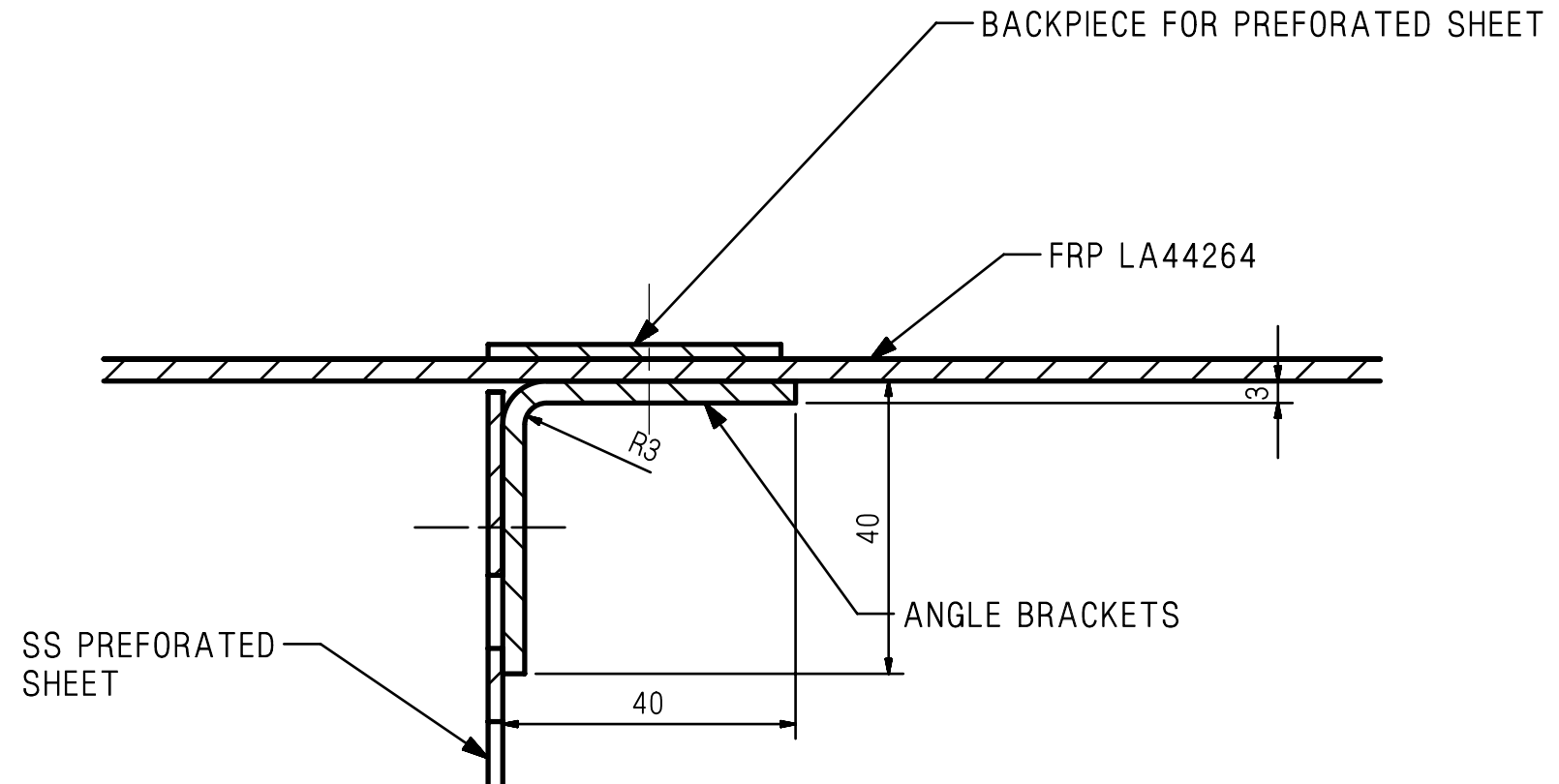
ANNEXURE-2(REVISED)



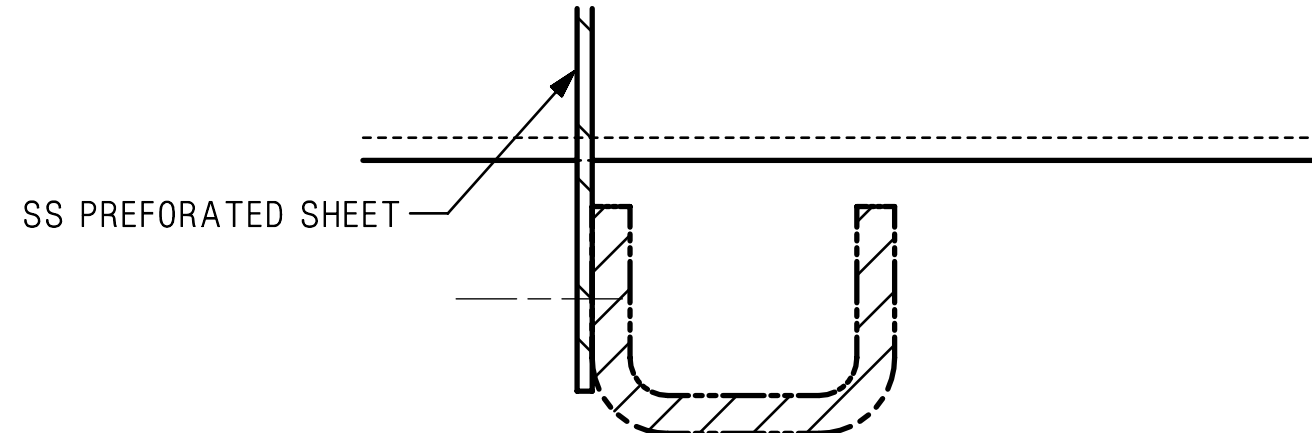
VIEW FROM X



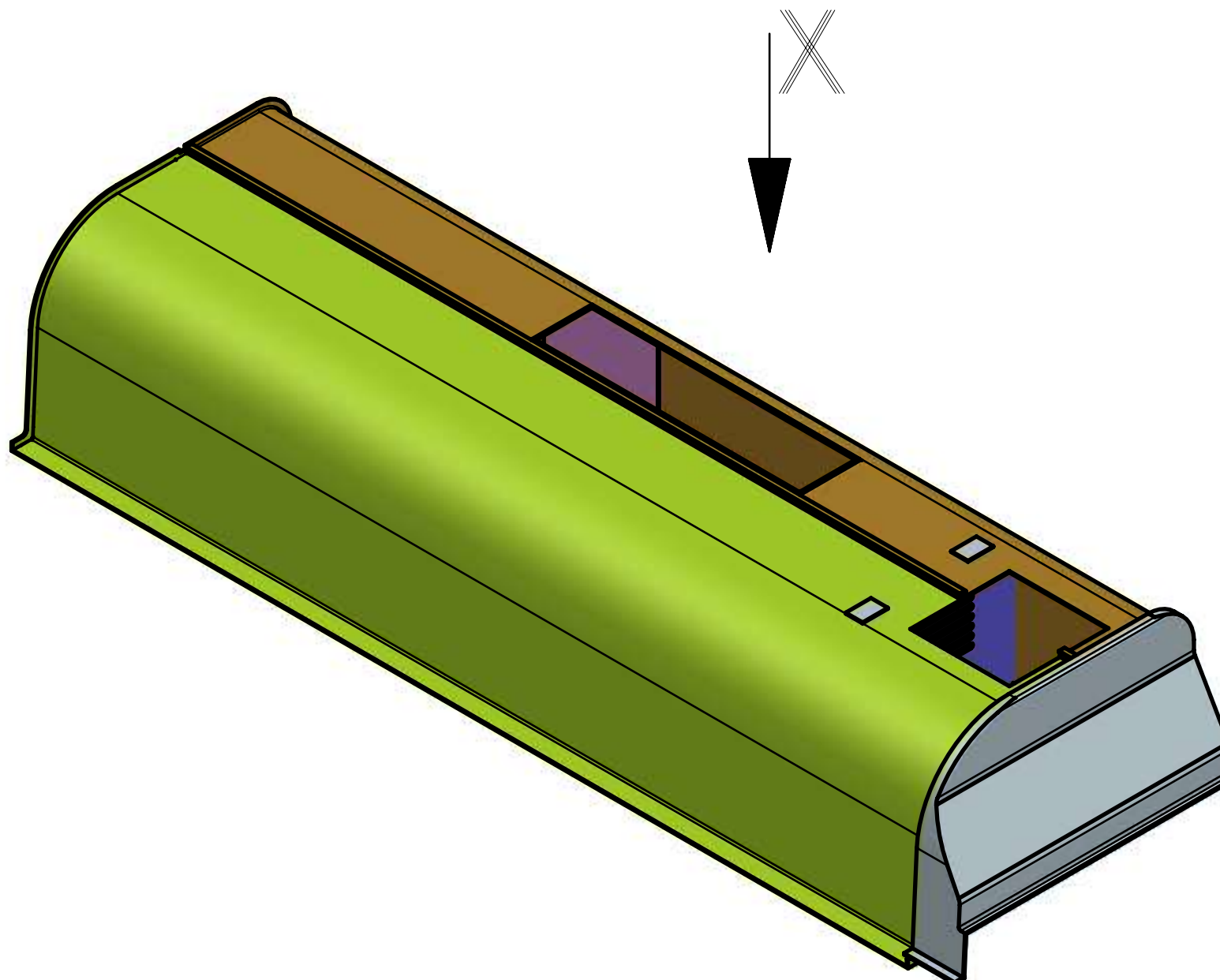
SECTION D-D



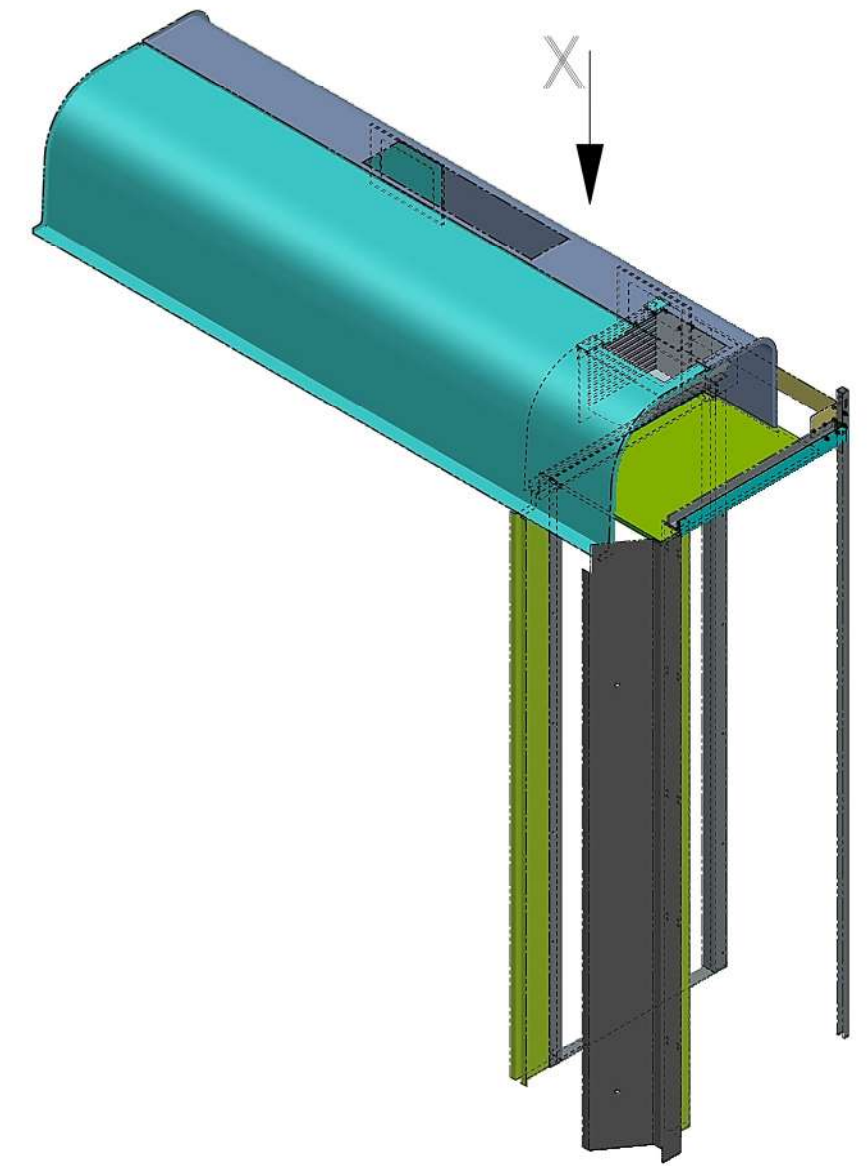
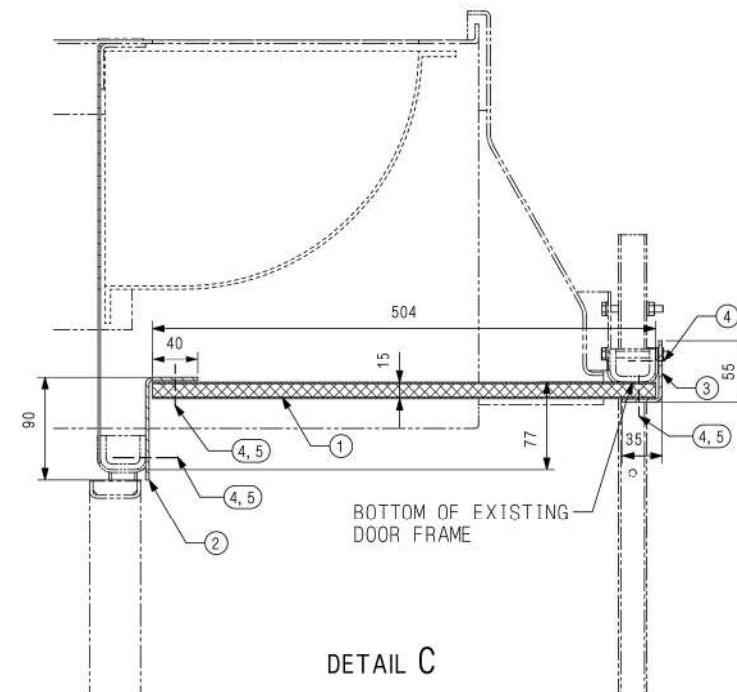
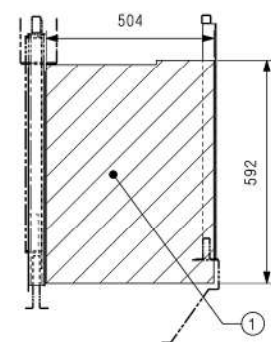
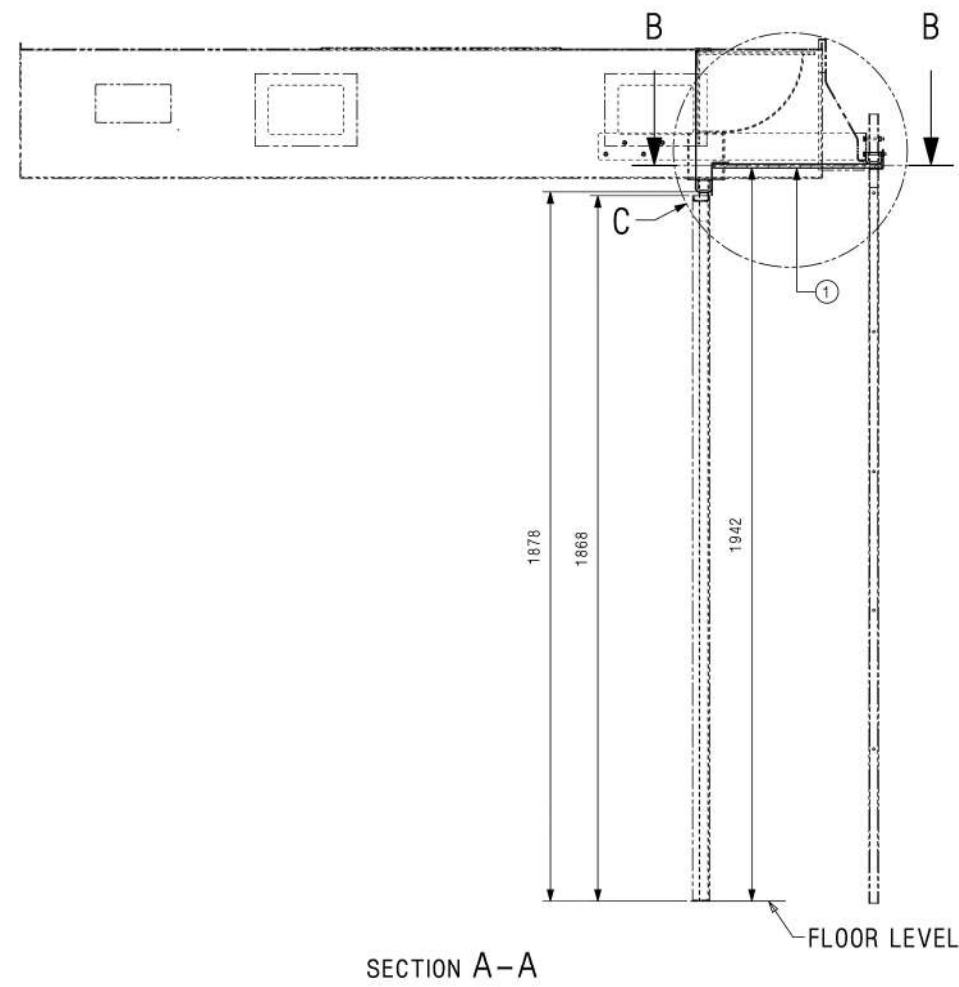
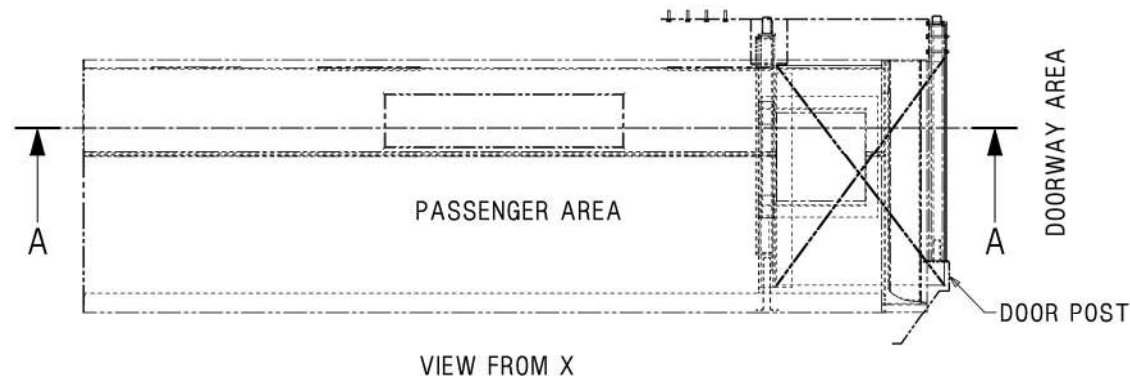
DETAIL E
SCALE 1:



DETAIL F
SCALE 1:1



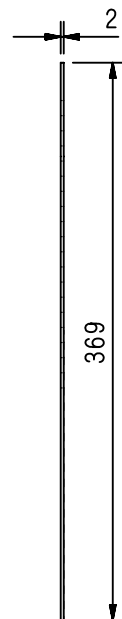
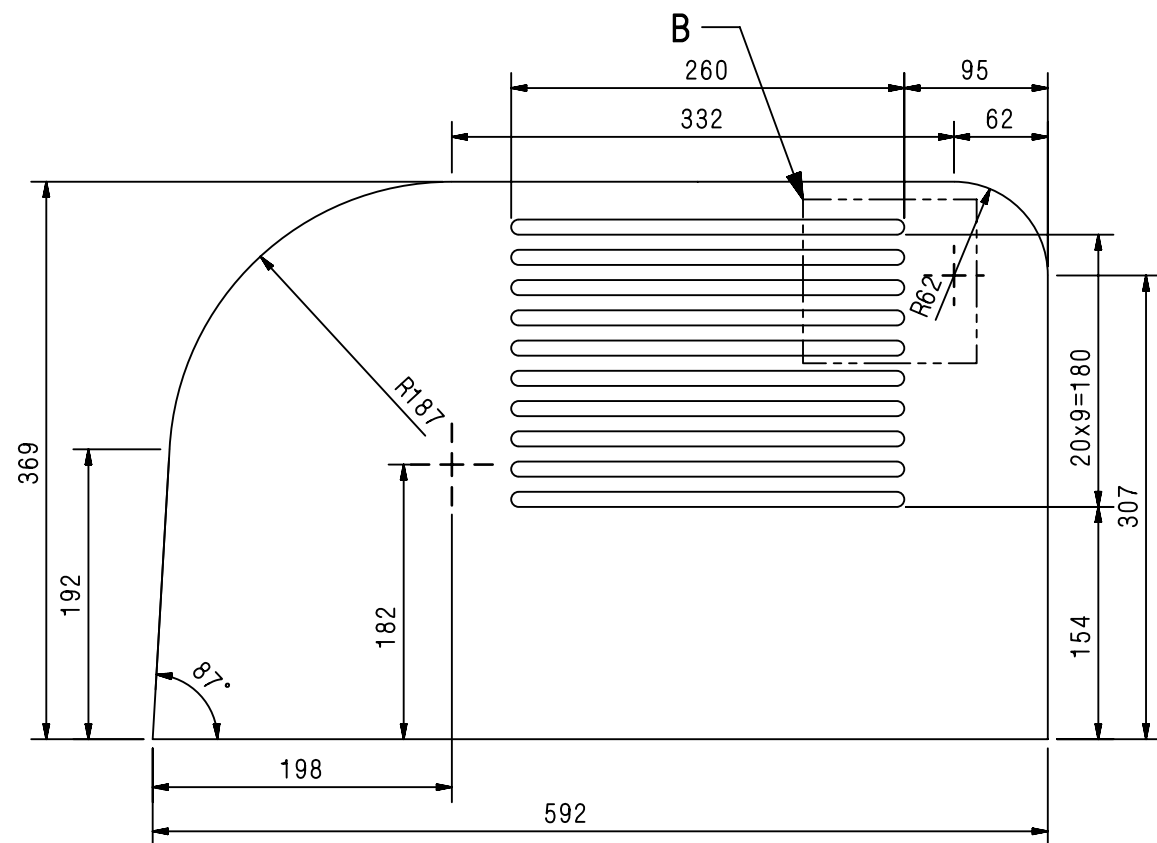
ANNEXURE-3 (REVISED)



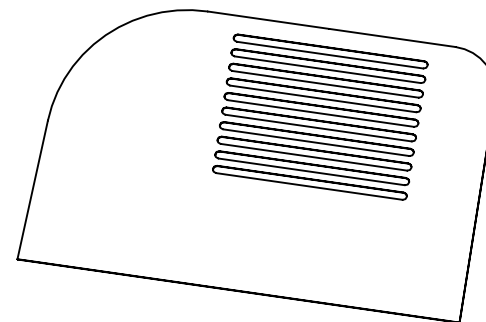
NOTE:-

1. NECESSARY CUT IN PANEL ITEM-1 TO BE PROVIDED TO SUIT AT SITE.
2. COLOR OF THE PANEL (ITEM-1) SHALL BE SIMILAR TO COLOR OF DOORWAY PANEL.
3. PANEL (ITEM-1) SHALL BE OF SIZE 12X504X592 MM PLYWOOD (IS:303-89,BWR,GR.-AA) WITH 1.2 MM THICK HPL SHEET TO SPEC. MDTs 086 PASTED ON BOTH SIDES OF PANEL WITH APPROVED BRAND OF ADHESIVE.
4. ITEM-1 FIXED WITH ITEM-4 (S.S. SLOTTED PAN HEAD SCREW M5X25) AND ITEM-5 (S.S. MACHINE WASHER A5.3) AT PITCH OF 200 MM.
5. ITEM-2 IS ANGLE MOULDING OF AISI 304 2.5X40X90 (LENGTH= 560 MM)
6. ITEM-3 IS ALUMINIUM ANGLE MOULDING OF SIZE 2.5X35X55 (LENGTH= 620 MM) TO MATERIAL SPEC. IS:733-83,63400 WP, DULL ANODISED TO IS:1868-82,TAB-1, GR. AC 10 WITH ELEGANT FINISH.

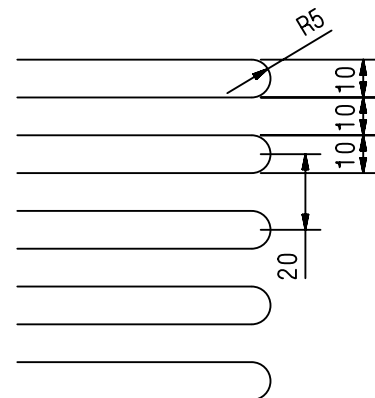
ALT.NO	ALT.DATE	ZONE	ALTERATIONS	AUTHORITY
NIL	NIL	NIL	NIL	NIL




VIEW C



ISO VIEW
(FOR REFERENCE ONLY)



DETAIL B
SCALE 1:2

		NIL	SHEET 2X369X592		NIL	NIL	RDSO/SPEC.C-K201 X5CNIH1610		NIL	
WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS			QPASSLY	DETAIL DRG	MATL. & SPEC.		REMARKS	
NIL	M	GROUP	CEILING AND MOULDING			SUPERSEDES: NIL				
WEIGHT	FILE	MI008396.prt (3D)								
0.980	KG	PERFORATED SHEET FOR FAC COACH IN CORRIDOR AREA					SCALE	SSE/REC		
S.AREA							1: 5	CHD		
NIL	M ²							DRN		
LENGTH / DIA										
NIL	M	RAIL COACH FACTORY, KAPURTHALA					REF.DRG.NO.	NIL		
WIDTH / THICK	रेल कोच फैक्टरी कपूरथला					IRS	PL NO.	NIL		
0.592/0.002	M						DRG.NO.	MI008396		
HEIGHT	ADE/SME		DY.CME		CDE	ALT.	NIL	SIZE A3	SHEET	1/1
0.369	M									

THIS DRAWING IS THE INTELLECTUAL PROPERTY OF RAIL COACH FACTORY, KAPURTHALA.
THIS DRAWING SHOULD NOT BE REPRODUCED, ALTERED, USED FOR MANUFACTURING OF
COMPONENTS, SOLD OR TRANSFERRED WITHOUT PERMISSION FROM CHIEF DESIGN ENGINEER,
RAIL COACH FACTORY, KAPURTHALA.

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE.

THIS IS A COMPUTER GENERATED DRAWING. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER IT INVALID.

FOR UNTOLERANCED DIMENSIONS REFER MDG0008

DATE OF FIRST ISSUE

12/02/2026

CGM BY

1

2

3

4

5

6

7

8

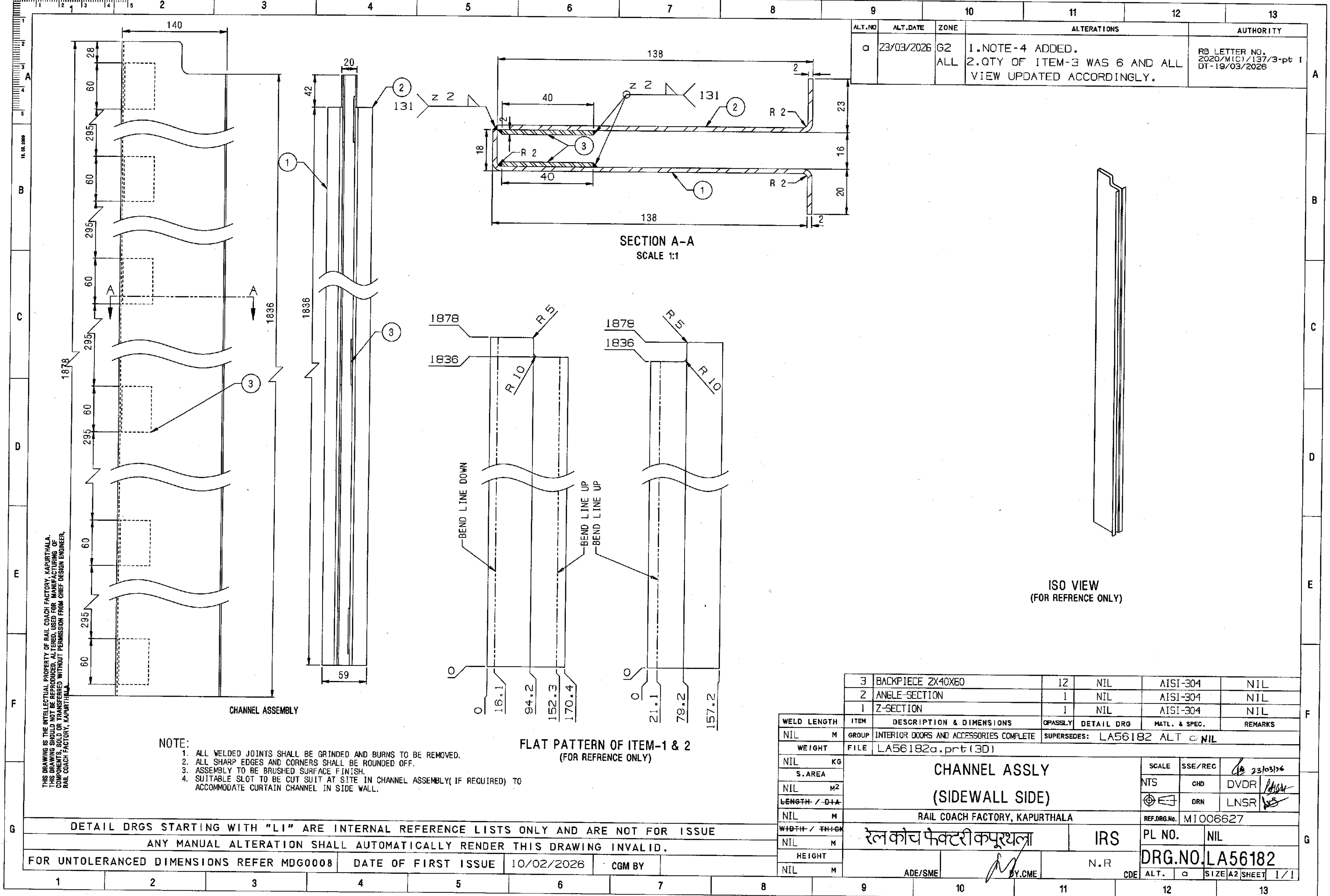
9

10

1.

1

13

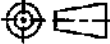


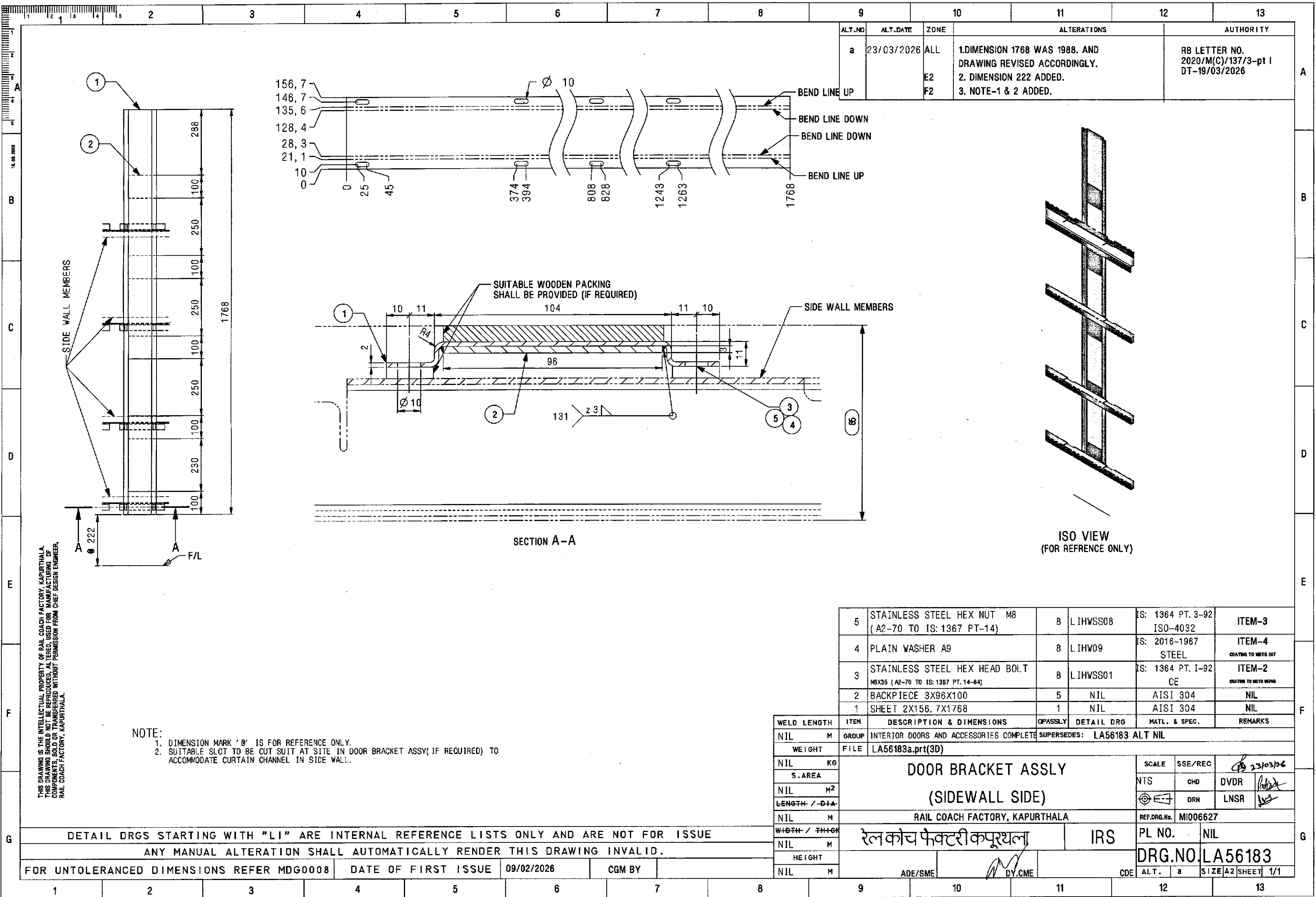
THIS DRAWING IS THE INTELLECTUAL PROPERTY OF RAIL COACH FACTORY, KAPURTHALA. THIS DRAWING SHOULD NOT BE REPRODUCED, ALTERED, USED FOR MANUFACTURING OF COMPONENTS, SOLD OR TRANSFERRED WITHOUT PERMISSION FROM CHIEF DESIGN ENGINEER, RAIL COACH FACTORY, KAPURTHALA.

- NOTE:
- 1. ALL WELDED JOINTS SHALL BE GRINDED AND BURNS TO BE REMOVED.
 - 2. ALL SHARP EDGES AND CORNERS SHALL BE ROUNDED OFF.
 - 3. ASSEMBLY TO BE BRUSHED SURFACE FINISH.
 - 4. SUITABLE SLOT TO BE CUT SUIT AT SITE IN CHANNEL ASSEMBLY(IF REQUIRED) TO ACCOMMODATE CURTAIN CHANNEL IN SIDE WALL.

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.
FOR UNTOLERANCED DIMENSIONS REFER MDG0008 DATE OF FIRST ISSUE 10/02/2026 CGM BY

ALT.NO	ALT.DATE	ZONE	ALTERATIONS	AUTHORITY
a	23/03/2026	G2 ALL	1.NOTE-4 ADDED. 2.QTY OF ITEM-3 WAS 6 AND ALL VIEW UPDATED ACCORDINGLY.	RB LETTER NO. 2020/MIC/137/3-pt I DT-19/03/2026

3	BACKPIECE 2X40X60	12	NIL	AISI-304	NIL		
2	ANGLE-SECTION	1	NIL	AISI-304	NIL		
1	Z-SECTION	1	NIL	AISI-304	NIL		
ITEM	DESCRIPTION & DIMENSIONS		OPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS	
GROUP	INTERIOR DOORS AND ACCESSORIES COMPLETE		SUPERSEDES: LA56182 ALT			NIL	
FILE	LA56182a.prt (3D)						
CHANNEL ASSLY (SIDEWALL SIDE)				SCALE	SSE/REC	48 23/03/76	
				N/TS	CHD	DVDR	1/1
					DRN	LNSR	1/1
RAIL COACH FACTORY, KAPURTHALA				REF.DRG.No.	MI006627		
रेल कोच फैक्टरी कपूरथला			IRS	PL NO.	NIL		
ADE/SME		BY.CME	N.R	DRG.NO.	LA56182		
			CDE	ALT.	a	SIZE A2 SHEET 1/1	



NOTE:

1. DIMENSION MARK 'Ø' IS FOR REFERENCE ONLY.
2. SUITABLE SLOT TO BE CUT SUIT AT SITE IN DOOR BRACKET ASSY(IF REQUIRED) TO ACCOMMODATE CURTAIN CHANNEL IN SIDE WALL.

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE

ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.

FOR UNTOLERANCED DIMENSIONS REFER MDG0008

DATE OF FIRST ISSUE 09/02/2026

CGM BY

ADE/SME

DY.CME

CDE

ALT.

a

SIZE A2 SHEET 1/1

5	STAINLESS STEEL HEX NUT M8 (A2-70 TO IS: 1367 PT-14)	8	LIHWSS08	IS: 1364 PT. 3-92 ISO-4032	ITEM-3
4	PLAIN WASHER A9	8	LIHW09	IS: 2016-1967 STEEL	ITEM-4 COATING TO MTS DET
3	STAINLESS STEEL HEX HEAD BOLT M8X35 (A2-70 TO IS: 1367 PT. 14-84)	8	LIHWSS01	IS: 1364 PT. I-92 CE	ITEM-2 COATING TO MTS DET
2	BACKPIECE 3X96X100	5	NIL	AISI 304	NIL
1	SHEET 2X156.7X1768	1	NIL	AISI 304	NIL

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	OPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL	M	GROUP	INTERIOR DOORS AND ACCESSORIES COMPLETE	SUPERSEDES: LA56183 ALT NIL		
WEIGHT	FILE	LA56183a.prt(3D)				
NIL	KG					
S.AREA						
NIL	M2					
LENGTH / DIA						
NIL	M					
WIDTH / THICK						
NIL	M					
HEIGHT						
NIL	M					

DOOR BRACKET ASSLY
(SIDEWALL SIDE)

RAIL COACH FACTORY, KAPURTHALA

रेल कोच फैक्टरी कपूरथला

IRS

PL NO.

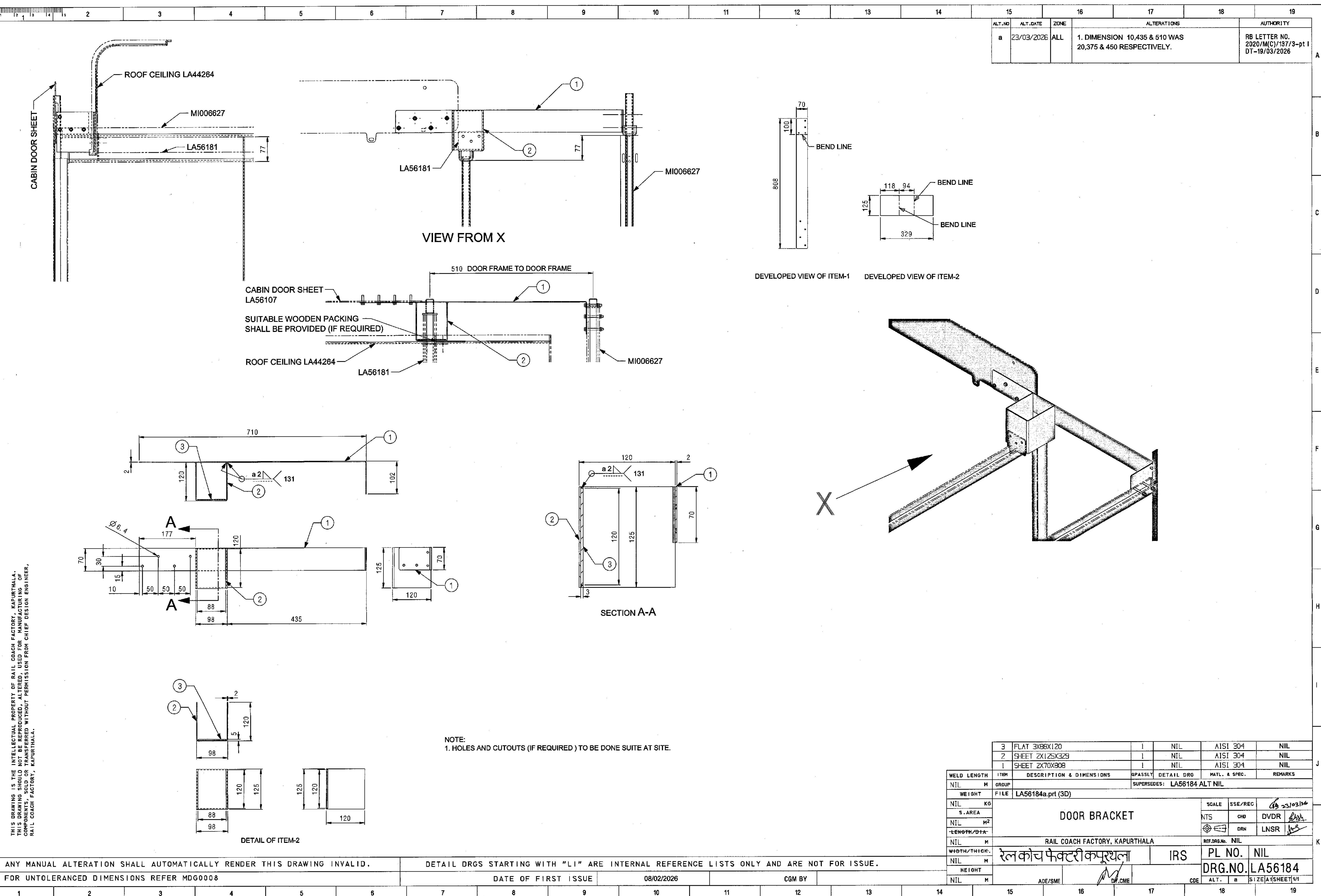
NIL

DRG.NO. LA56183

ALT.

a

SIZE A2 SHEET 1/1



ALT. NO.	ALT. DATE	ZONE	ALTERATIONS	AUTHORITY
a	23/03/2026	ALL	1. DIMENSION 10,435 & 510 WAS 20,375 & 450 RESPECTIVELY.	RB LETTER NO. 2020/M(C)/137/3-pt I DT-19/03/2026

DEVELOPED VIEW OF ITEM-1 DEVELOPED VIEW OF ITEM-2

		3	FLAT 3X86X120	1	NIL	AISI 304	NIL		
		2	SHEET 2X125X329	1	NIL	AISI 304	NIL		
		1	SHEET 2X70X908	1	NIL	AISI 304	NIL		
WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS		QPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS		
NIL	M	GROUP		SUPERSEDES: LA56184 ALT NIL					
WEIGHT	FILE	LA56184a.prt (3D)							
NIL	KG								
S. AREA	DOOR BRACKET						SCALE	SSE/REC	
NIL							M ²	NTS	CHD
LENGTH/DIA	RAIL COACH FACTORY, KAPURTHALA							DRN	LNSR
NIL							M	REF.DRG.No.	NIL
WIDTH/THICK.	रेल कोच फैक्टरी कपूरथला				IRS	PL NO.	NIL		
NIL	M					DRG.NO. LA56184			
HEIGHT									
NIL	M	ADE/SME	PM/CME	CDE	ALT.	a	SIZE A1/SHEET/VI		

THIS DRAWING IS THE INTELLECTUAL PROPERTY OF RAIL COACH FACTORY, KAPURTHALA. THIS DRAWING SHOULD NOT BE REPRODUCED, ALTERED, USED FOR MANUFACTURING OF COMPONENTS, SOLD OR TRANSFERRED WITHOUT PERMISSION FROM CHIEF DESIGN ENGINEER, RAIL COACH FACTORY, KAPURTHALA.

ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE.

FOR UNTOLERANCED DIMENSIONS REFER MDG0008 DATE OF FIRST ISSUE 08/02/2026 CGM BY

