

PRASA PROJECT



APPLICABLE FROM TRAINSET 100+ AS PER BASELINE 10.3.1

# SELF INSPECTION SHEET

**CONFIDENTIAL INFORMATION**

This document and the information contemplated therein have to be considered as Confidential Information pursuant to the provisions of Clause 25 of the MSA, and treated as such.

**APPLICATION REFERENCE**

MOUNTING	DRAWING	DESCRIPTION	STATION	CAR TYPE						WORK INSTRUCTION	SAFETY?
				TC1	M1	M2	M3	TC2			
DTR30225497/3	AAD0001278566	CARBODYSHELL M1 ASSEMBLY	CB1210			X				PRA.CB1210.DTR30225497/3.V25	YES

REV	DATE	MODIFICATION CONTENT	RESPONSIBLE	NAME	DATE
0	10/01/2018	GIBELA NEW CREATION	APPROVER	Itumeleng Modiba	10/01/2018
			CHECKER	Nosizo Pindela	10/01/2018
			COMPILER	Thanyani Mathegu	10/01/2018
1	2018/05/18	Team leader and Quality Technician to sign Change final signature from PME Manager to Quality manager	APPROVER	Itumeleng Modiba	2018/05/18
			CHECKER	Nosizo Pindela	2018/05/18
			REVISED BY	Ramokone Motama	2018/05/18
2	2018/07/04	Certain dimensional checks moved to CB1220 and CB1230	APPROVER	Itumeleng Modiba	2018/07/04
			CHECKER	Nosizo Pindela	2018/07/04
			REVISED BY	Ramokone Motama	2018/07/04
3	2018/12/12	Added dimensional check points to CB1210	APPROVER	Itumeleng Modiba	2018/12/12
			CHECKER	Nosizo Pindela	2018/12/12
			REVISED BY	Ramokone Motama	2018/12/12
5	22/01/2019	As per Baseline 10.2	APPROVER	Itumeleng Modiba	22/01/2019
			CHECKER	Nosizo Pindela	22/01/2019
			REVISED BY	Vanessa Ntuli	22/01/2019
6	13/03/2019	Added D1 and D2 on Self - Inspection	APPROVER	Itumeleng Modiba	13/03/2019
			CHECKER	Nosizo Pindela	13/03/2019
			REVISED BY	Nosizo Pindela	13/03/2019
10	21/08/2019	New Baseline 10.2.5	APPROVER	Itumeleng Modiba	21/08/2019
			CHECKER	Nosizo Pindela	21/08/2019
			REVISED BY	Nosizo Pindela	21/08/2019
15	06/08/2020	New Baseline 10.2.6	APPROVER	Timothy Maimela	06/08/2020
			CHECKER	Bongane Masina	
			REVISED BY	Bongane Masina	
20	19/04/2021	New Baseline change 10.3	APPROVER	Timothy Maimela	19/04/2021
			CHECKER	Bongane Masina	
			REVISED BY	Bongane Masina	
21	17/08/2021	ADDED DIMENSIONS BEFORE WELDING	APPROVER	Mbhombi collins	17/08/2021
			CHECKER	Mpho Mulaudzi	
			REVISED BY	Mpho Mulaudzi	
25	19/02/2022	New Baseline change 10.3.1	APPROVER	Mbhombi collins	19/02/2022
			CHECKER	Andani Muthelo	
			REVISED BY	Andani Muthelo	
26	14/04/2023	Addition of welding consumable traceability	APPROVER	Ntuli Vanessa	14/04/2023
			CHECKER	Mohlampe Amogelang	
			REVISED BY	Mohlampe Amogelang	
27	27/07/2023	Added verification of loaded parts	APPROVER	Ngobeni Tyson	27/07/2023
			CHECKER	Zwane Ntokozo	
			REVISED BY	Mohlampe Amogelang	
28	07/11/2023	Addition of welding traceability	APPROVER	Ngobeni Tyson	07/11/2023
			CHECKER	Andani Muthelo	
			REVISED BY	Ntokozo Zwane	

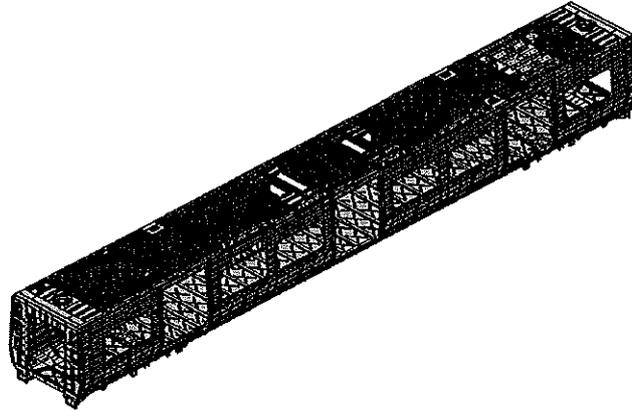
TRAINSET	CAR	OPERATOR NAME & ALPS NO	DATE	SELF INSPECTION NUMBER	PAGES
15226	M1	Justice 410035	07/05/24	SI.CB1210.254.V28	17

	CARBODYSHELL M1 ASSEMBLY DTR30225487/3	Rev. 28	Project: PRASA SI.CB1210.254.V28
		Date 07/11/2023	

Car: M1	NCR:	Work station: CB1210
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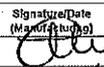


Safety Related



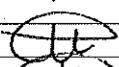
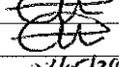
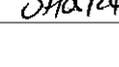
I - Documentation and Instruments Control

1.1 - Documentation Control

Document	Type of car						Revision	Observation	OK		Signature/Date (Manufacturing)	Signature/Date (Quality)
	D	E	M	S	X	P						
DTR30225487/3		X					28		X		 07/10/24	 07/10/24

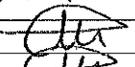
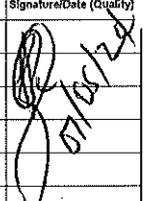
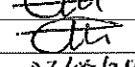
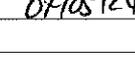
1.2 - Instruments Control

Monitoring and Measuring Instrument Control - Used for Special Process

Instruments	Serial number	Calibration or Verification Validation Date	OK		Signature/Date (Manufacturing)	Signature/Date (Quality)
TUBULAR	32823-2	15/03/24	X		 07/10/24	 07/10/24
LASER TAPE	125425924	08/02/25	X		 07/10/24	
30M TAPE	GIBTP0102	18/11/24	X		 07/10/24	

1.3 Consumables

Welding Consumable Control - Used for Special Process

Fiber Material	Heat Number	Welding Process	OK		Signature/Date (Manufacturing)	Signature/Date (Quality)
ER 308 LS1	314018-74097	MIG	X		 07/10/24	 07/10/24
ER 309 LS1	299687-70302	MIG	X		 07/10/24	
ER 308 LS	299687-70323	MIG	X		 07/10/24	



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**II - Self Inspection - Items to Check**

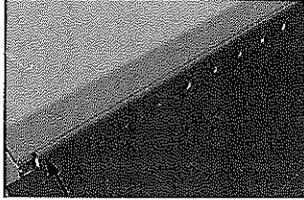
**II.1 - Items to check**

Item	Picture/Drawing	Description	Acceptance criteria / Record	OK		Signature/Date (Manufacturing)	Signature/Date (Quality)
01	N/A	Verification of correct parts loaded (Sidewalls, Endframes, Roof and Underframe)	DT00000311225	✓		07/05/24	07/05/24
02	N/A	Carshell free of significant flaws which compromise the appearance or functionality	DTD0000210675	✓		07/05/24	07/05/24
03	REFER TO ANNEXURE A	Spot welding inspected and approved according to procedure	IND-SAL-WMS-016 e DTD0000210675	✓		07/05/24	07/05/24
04	REFER TO ANNEXURE B	Arc welding inspected and approved according to procedure	IND-SAL-WMS-016 REFER TO GIB - TYPDEF - ARC - 0000	✓		07/05/24	07/05/24
05		Cleaning of all Stainless Steel Surface	According TO GIB-WEL - PROC-0002	✓		07/05/24	07/05/24
06		Functionals dimensions approved according drawing or complementary document approved by Alstom engineering and registered in this document	Approved according specified on pages below.	✓		07/05/24	07/05/24
07	N/A	Perform visual inspection of welds in 100% of the project. Run by penetrant testing in electric arc welding (weld ring) as IND-SAL-WMS-018. Run by penetrant testing welds (weld ring) and fillet sampling as described in DTD0000210658.	As the welding procedure IND-SAL-WMS-018 and DTD0000210658.	✓		07/05/24	07/05/24

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**Welder Traceability**

Roof ring welds



<u>LHS</u>	
Boiler maker (Name & Sign): <u>LWNGA [Signature]</u>	Welder (Name & Sign): <u>BOZBEKI [Signature]</u>
<u>RHS</u>	
Boiler maker (Name & Sign): <u>Tim [Signature]</u>	Welder (Name & Sign): <u>BOZBEKI [Signature]</u>

END 1

<u>LHS</u>	
Boiler maker (Name & Sign): <u>LWNGA [Signature]</u>	Welder (Name & Sign): <u>BOZBEKI [Signature]</u>
<u>RHS</u>	
Boiler maker (Name & Sign): <u>Tim [Signature]</u>	Welder (Name & Sign): <u>BOZBEKI [Signature]</u>

END 2

Door ring welds



<u>LHS</u>
Boiler maker (Name & Sign): <u>JUSTICE [Signature]</u>
Welder (Name & Sign): <u>Thabang [Signature]</u>

<u>RHS</u>
Boiler maker (Name & Sign): <u>JUSTICE [Signature]</u>
Welder (Name & Sign): <u>Thabang [Signature]</u>

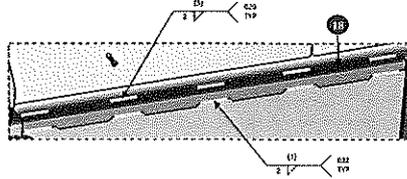
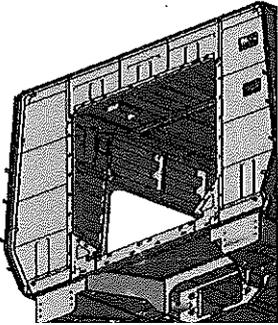


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EUF Reinforcement Plates

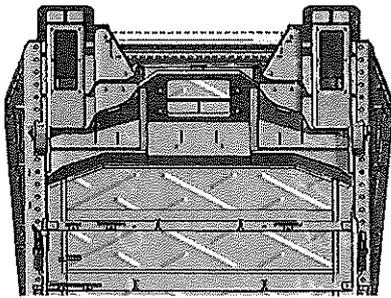


END 1

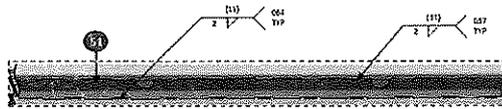
Boiler maker (Name & Sign): SYAN

Welder (Name & Sign): SIPHOMAZI

END 2



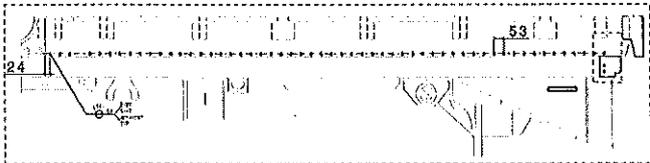
Underneath the CAR



END 2

Boiler maker (Name & Sign): LAWRENCE

Welder (Name & Sign): MITHOKOLISI



FEDOLI

OPERATOR: LAWRENCE

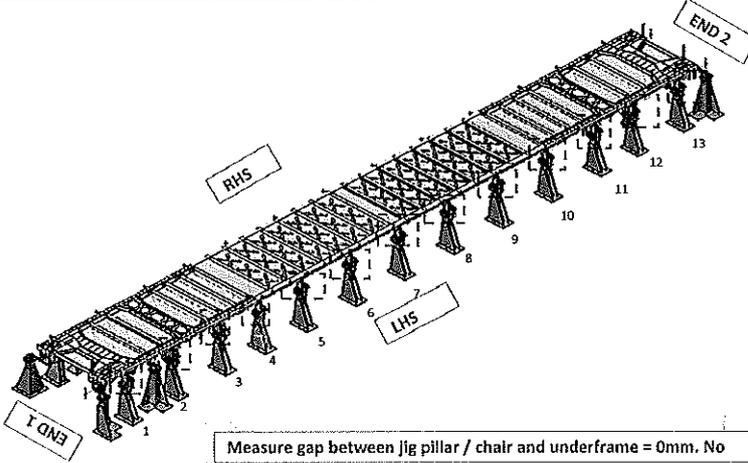


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Specifications of Details for GBS measurement



After loading and clamping

Fill in the gap found on each jig pillars / chair and underframe should be 0mm.

	1	2	3	4	5	6	7	8	9	10	11	12	13
Left Hand Side	0	0	0	0	0	0	0	0	0	0	0	0	0
Right Hand Side	0	0	0	0	0	0	0	0	0	0	0	0	0

Signature Operations: *[Signature]* Date: 07/11/24

After Welding.

Fill in the gap found each jig pillars / chair and underframe should be 0mm.

	1	2	3	4	5	6	7	8	9	10	11	12	13
Left Hand Side	0	0	0	0	0	0	0	0	0	0	0	0	0
Right Hand Side	0	0	0	0	0	0	0	0	0	0	0	0	0

Signature Industrial Quality: *[Signature]* Date: 07/11/24

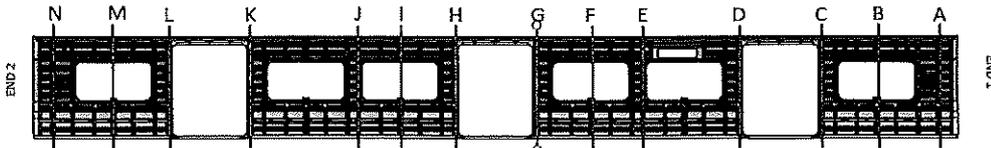


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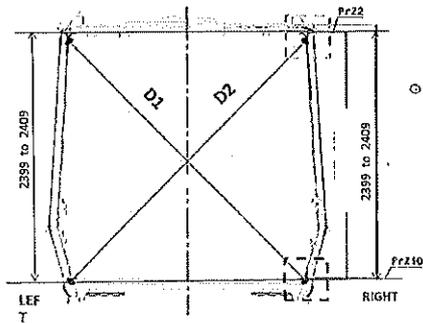
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Specifications of Details for CBS measurement



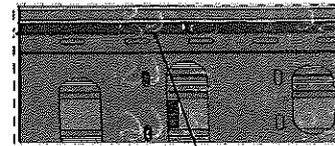
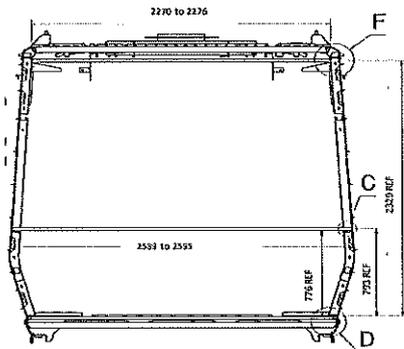
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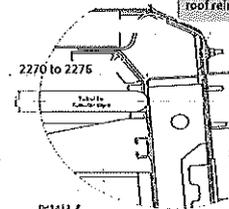
Measurement positions on roof fall and sidewall omega corner.



Measurement positions on sidewall and side sill corner.



Reinforcement area measurement positions on roof reinforcement area.



Detail 11 P  
Don't forget to check the reinforcement

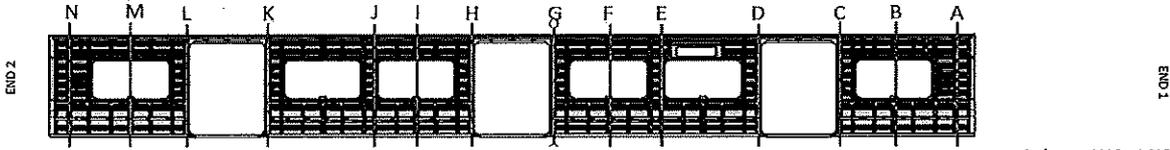


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Specifications of Details for CBS measurement



PME Column LHS - RHS should be  $\leq 2$ MM on each point.

BEFORE WELDING

	Record D1 values	Record D2 values	D1-D2 $\leq 5$ mm	2399 to 2409	2399 to 2409 (RHS)	LHS-RHS $\leq 2$
A	3269	3269	0	2406	2404	2
B	3267	3266	1	2405	2404	1
C	3271	3269	2	2405	2405	0
D	3268	3266	2	2406	2404	2
E	3266	3265	1	2405	2405	0
F	3268	3269	1	2405	2404	1
G	3266	3268	2	2406	2405	1
H	3265	3265	0	2405	2403	2
I	3269	3266	3	2406	2403	3
J	3269	3268	1	2405	2403	2
K	3267	3265	2	2406	2406	0
L	3268	3269	1	2405	2404	1
M	3270	3268	2	2404	2404	0
N	3269	3266	3	2405	2405	0

  
07/05/24

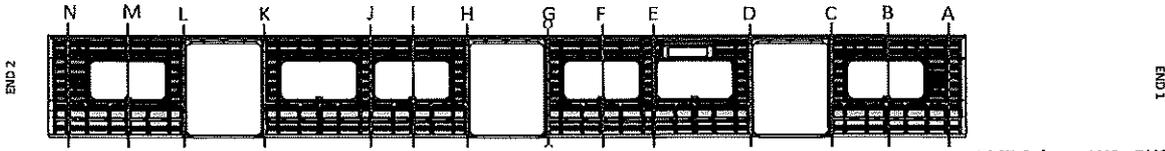


CARBODYSHELL M1 ASSEMBLY DTR30226487/3

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Specifications of Details for CBS measurement



PME Column LHS - RHS should be ≤2MM on each point.

AFTER WELDING

	Record D1 values	Record D2 values	D1-D2 ≤ 5mm	2399 to 2409	2399 to 2409 (RHS)	LHS-RHS ≤ 2
A	3296	3295	1	2406	2406	0
B	3269	3266	3	2405	2404	1
C	3298	3296	2	2408	2408	2405 <sup>0</sup>
D	3299	3297	2	2405	2405	0
E	3268	3265	3	2407	2405	2
F	3270	3268	2	2406	2405	2
G	3296	3296	0	2405	2406	1
H	3297	3295	2	2406	2404	2
I	3266	3265	1	2407	2405	2
J	3268	3265	3	2405	2405	0
K	3296	3296	0	2408	2406	2
L	3299	3298	1	2405	2405	0
M	3268	3266	2	2407	2405	2
N	3296	3295	1	2406	2405	1

  
07/05/24



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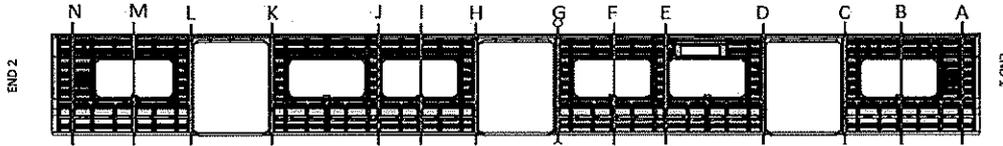
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SI.CB1210.254.V28

Date

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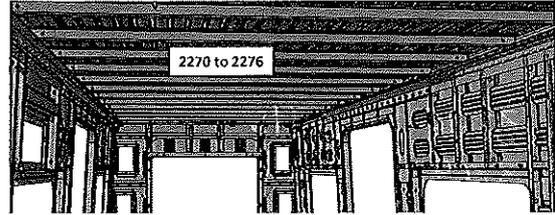
CBS measurement

BEFORE WELDING

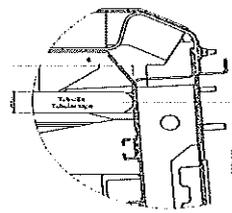
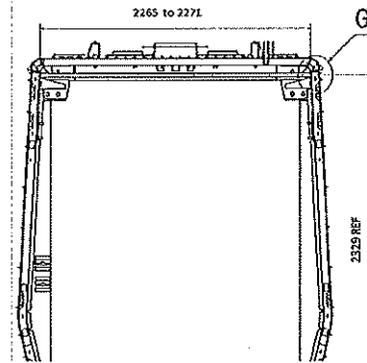


	2270 to 2276
A	2274
B	2271
C	2270
D	2273
E	2276
F	2274
G	2270
H	2273
I	2272
J	2276
K	2276
L	2271
M	2272
N	2274

1990 to



Do not consider reinforcement ( Take measurements top area of zee profile



Detail 0  
Consider only  
the measurement place

07/05/24



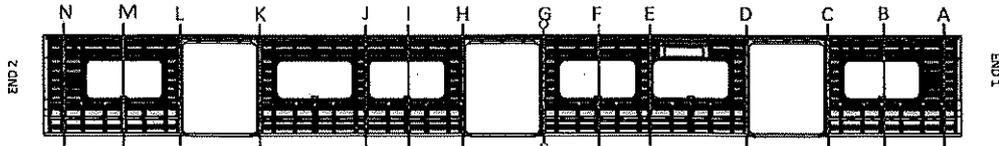
CARBODYSHELL M1 ASSEMBLY DTR30226487/3

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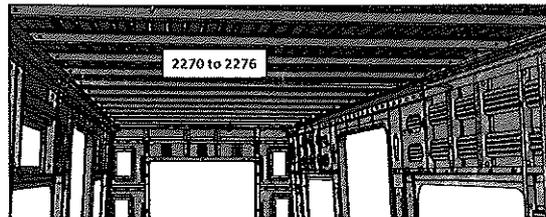
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SI.CB1210.254.V28

CBS measurement

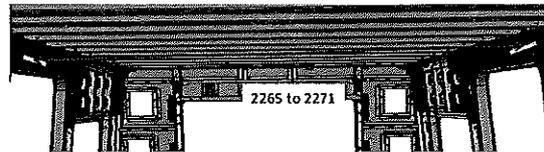
AFTER WELDING



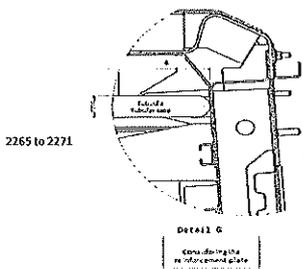
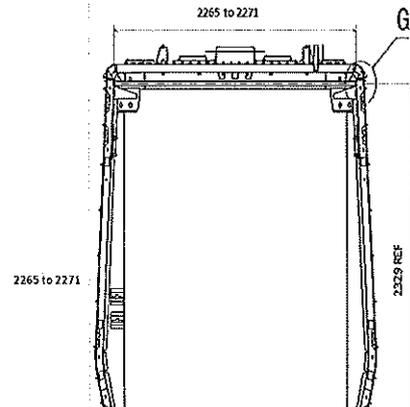
	2265 to 2271	2270 to 2276
A	2269	
B		2274
C	2270	
D	2269	
E		2275
F		2273
G	2265	
H	2268	
I		2276
J		2274
K	2266	
L	2268	
M		2275
N	2270	



Do not consider reinforcement ( Take measurements top area of zee profile



Take measurement close to radius ( considering reinforcement)



07/05/24

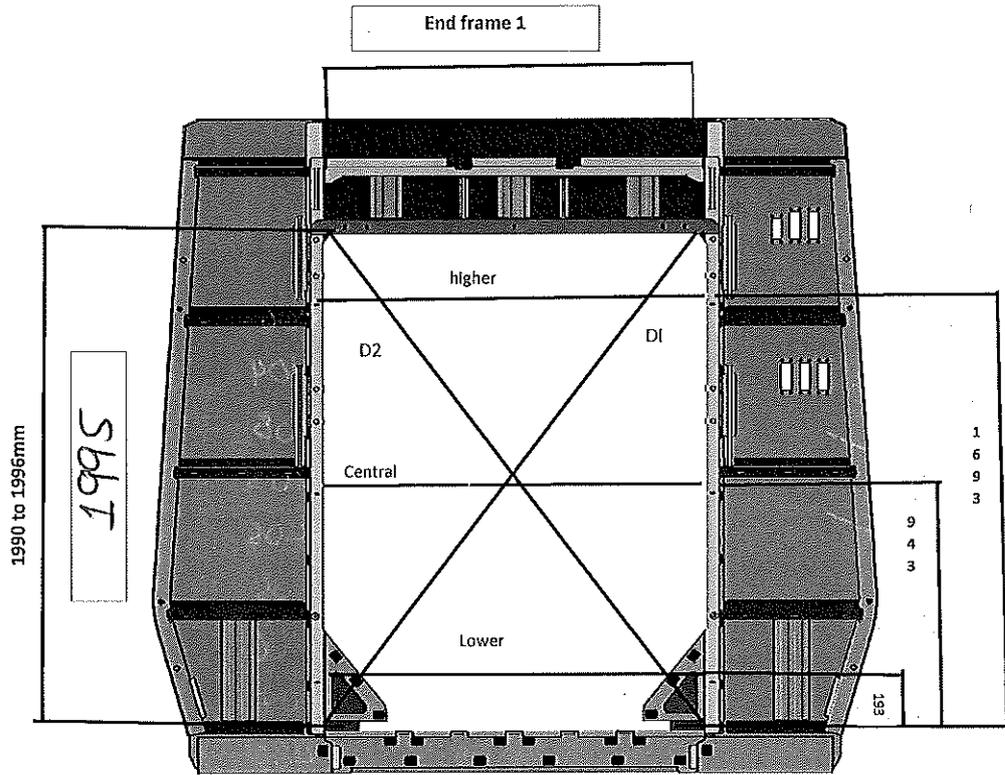


CARBODYSHELL M1 ASSEMBLY DTR30225487/3

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Project: PRA5A  
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Specifications of Details for CBS measurement



1380 to 1382 mm

DIAGONAL DIFFERENCE  $D1-D2 \leq 3mm$

Higher Dimension

1380

D1

2415

Central Dimension

1381

D2

2416

Lower Dimension

1381

D1-D2

1

07/05/24

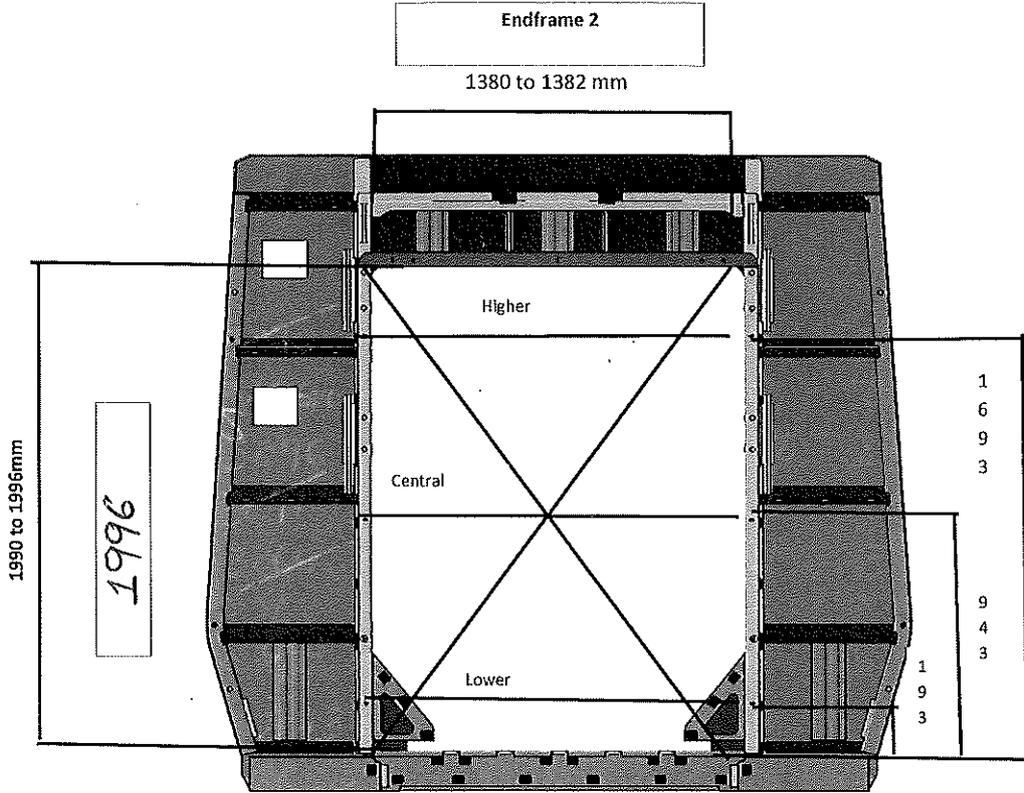


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Specifications of Details for CBS measurement



1380 to 1382 mm

DIAGONAL DIFFERENCE  $D1-D2 \leq 3\text{mm}$

Higher Dimension	1380	D1	2416
Central Dimension	1382	D2	2416
Lower Dimension	1381	D1-D2	0

07/05/24

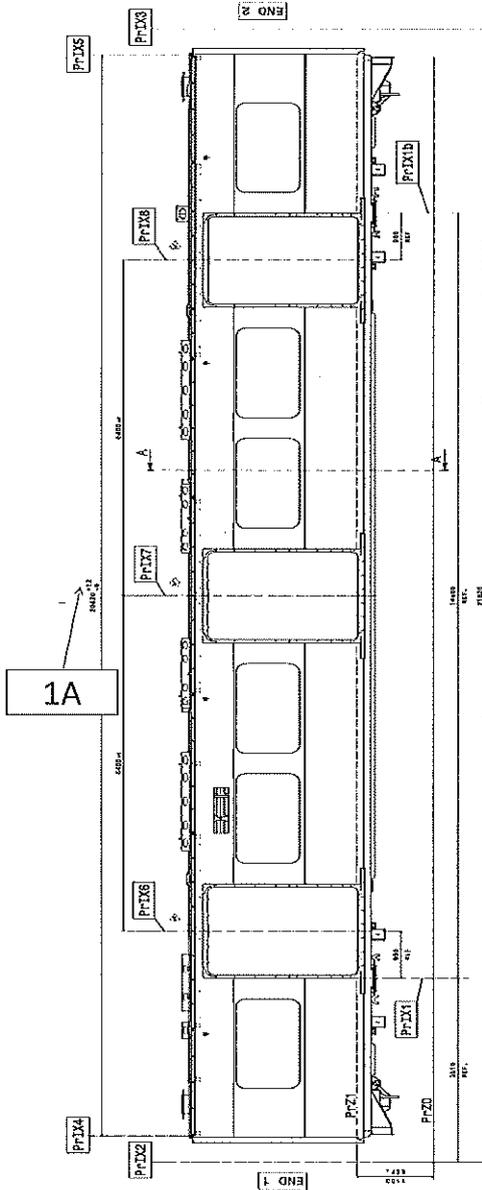


CARBODYSHELL M1 ASSEMBLY DTR30225487J3

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Specifications of Details for CBS measurement



LEFT SIDE		
	SPECIFICATION SIZE	ACTUAL SIZE
1A	20632 - 20614	20615

RIGHT SIDE		
	SPECIFICATION SIZE	ACTUAL SIZE
1A	20632 - 20614	20615

Dye penetrant test

Dye-penetration test to be performed by quality personnel



07/05/24





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Date

07/11/2023

Project: PRA5A

SI.CB1210.254.V28

**Self Inspection - Final Result**

				DATE	NAME	SIGNATURE
HOLD POINT	GO	(if activities are not complete, the missing activities must not impact the next stage)		07/05/24	JUSTICE Operations	
		Every auto inspection performed conforms to specification or in case of discrepancy the same is approved by the competent party.)		07/05/24	NTORCERO Industrial Quality	
		There are activities pending that impact/stop the activities of the next process Obs: (To describe problems below)				
		There are non-conformities impact the quality of the product and there is no corrective action defined yet)				

In case of "NO GO", describe blocking problems

In case of "NO GO", the operations manager must define below action plan to ensure "GO":

Item	Description	Responsible	Due date	Status

Operations

Quality



APPLICABLE FOR TRAINSET 100+ ONLY AS PER BASELINE 10.3.1  
**SELF INSPECTION SHEET**

**CONFIDENTIAL INFORMATION**  
 This document and the information contemplated therein have to be considered as Confidential Information pursuant to the provisions of Clause 25 of the MSA, and treated as such.

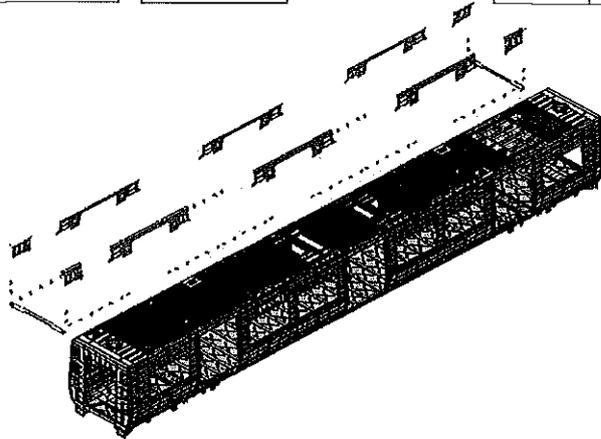
APPLICATION REFERENCE												
MOUNTING	DRAWING	DESCRIPTION	STATION	CAR TYPE						WORK INSTRUCTION	SAFETY	
				YCL	MA	PK	MZ	MS	TCR			
<input type="checkbox"/>	DTR3022548/2	A/D0001278566	CARBODYSHELL M1,M4,M4 ASSEMBLY	CB1220		X	X		X		PRA.CB1220.DTR3022548 7/2.V21	YES
<input type="checkbox"/>												
<input type="checkbox"/>												
<input type="checkbox"/>												
<input type="checkbox"/>												
<input type="checkbox"/>												
<input type="checkbox"/>												
REV	DATE	MODIFICATION CONTENT			RESPONSIBLE		NAME		DATE			
0	01/02/2018	GIBELA NEW CREATION			APPROVER	Itumeleng Modiba		01/02/2018				
					CHECKER	Nosizo Pindela		01/02/2018				
					COMPILER	Thanyani Mathegu		01/02/2018				
1	18/05/2018	Team leader and Quality Technician to sign Change final signature from PME Manager to Quality manager			APPROVER	Itumeleng Modiba		18/05/2018				
					CHECKER	Nosizo Pindela		18/05/2018				
					REVISED BY	Ramokone Motama		18/05/2018				
2	2018/07/05	Certain dimensional checks added and others moved to CB1210			APPROVER	Itumeleng Modiba		2018/07/05				
					CHECKER	Nosizo Pindela		2018/07/05				
					REVISED BY	Ramokone Motama		2018/07/05				
3	2018/06/12	Width tolerance as per DT0000336600			APPROVER	Itumeleng Modiba		2018/06/12				
					CHECKER	Nosizo Pindela		2018/06/12				
					REVISED BY	Nosizo Pindela		2018/06/12				
5	24/01/2019	As per Baseline 10.2			APPROVER	Itumeleng Modiba		24/01/2019				
					CHECKER	Nosizo Pindela		24/01/2019				
					REVISED BY	Vanessa Ntuli		24/01/2019				
6	13/03/2019	Added D1 and D2 on Self - Inspection length measurements			APPROVER	Itumeleng Modiba		13/03/2019				
					CHECKER	Nosizo Pindela		13/03/2019				
					REVISED BY	Nosizo Pindela		13/03/2019				
10	22/08/2019	New Baseline 10.2.5			APPROVER	Itumeleng Modiba		22/08/2019				
					CHECKER	Nosizo Pindela		22/08/2019				
					REVISED BY	Nosizo Pindela		22/08/2019				
15	06/08/2020	New Baseline 10.2.6			APPROVER	Timothy Maimela		06/08/2020				
					CHECKER	Bongane Masina		06/08/2020				
					REVISED BY	Bongane Masina		06/08/2020				
20	19/04/2021	New Baseline change 10.3			APPROVER	Timothy Maimela		19/04/2021				
					CHECKER	Bongane Masina		19/04/2021				
					REVISED BY	Bongane Masina		19/04/2021				
21	17/08/2021	ADDED DIMENSIONS BEFORE WELDING			APPROVER	Mhombhli Collins		17/08/2021				
					CHECKER	Mpho Mufaudzi		17/08/2021				
					REVISED BY	Mpho Mufaudzi		17/08/2021				
25	20/02/2022	New Baseline change 10.3.1			APPROVER	Mhombhli Collins		19/02/2022				
					CHECKER	Andani Muthelo		19/02/2022				
					REVISED BY	Andani Muthelo		19/02/2022				
26	14/06/2022	Update minimum temperature requirement for sealant application			APPROVER	Mhombhli Collins		14/06/2022				
					CHECKER	Andani Muthelo		14/06/2022				
					REVISED BY	Andani Muthelo		14/06/2022				
27	17/10/2022	Addition of traceability for sealant application and welding			APPROVER	Mhombhli Collins		17/10/2022				
					CHECKER	Ntokozo Zwane		17/10/2022				
					REVISED BY	Amogelang Mohlampe		17/10/2022				
28	14/04/2023	Added sealant batch number & welding consumables traceability			APPROVER	Vanessa Ntuli		14/04/2023				
					CHECKER	Ntokozo Zwane		14/04/2023				
					REVISED BY	Amogelang Mohlampe		14/04/2023				
29	28/10/2023	Addition of bracket quantity			APPROVER	Ngobeni Tyson		28/10/2023				
					CHECKER	Ntokozo Zwane		28/10/2023				
					REVISED BY	Amogelang Mohlampe		28/10/2023				
TRAINSET	CAR	OPERATOR NAME & ALPS NO		DATE	SELF INSPECTION NUMBER		PAGES					
226	M1	M. Muthelo		08/06/24	SI.CB1220.250.V29		14					

	<b>CARBODYSHELL M1,M3,M4 ASSEMBLY</b> DTR30225487/2	Rev.	Project: PRASA
		Date	SI.CB1220.250.V29
		28/10/2023	

Car: M1,M3&M4	NCR:	Work station:	CB1220
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Safety Related



**I - Documentation and Instruments Control**

**I.1 - Documentation Control**

Document	Type of car					Revision	Observation	OK	N/A	Signature/Date (Manufacturing)	Signature/Date (Quality)
	M1	M3	M4	M4	M4						
DTR30225487/2	✓					06/05/23	29	✓	N/A	<i>[Signature]</i>	<i>[Signature]</i>

**I.2 - Instruments Control**

Monitoring and Measuring Instrument Control - Used for Special Process

Instruments	Serial number	Calibration or Verification Validation Date	OK	Signature/Date (Manufacturing)	Signature/Date (Quality)
Tubular	528232	15/03/2025	✓	<i>[Signature]</i>	<i>[Signature]</i>
Measuring tape	610710428	2025/04/17	✓	<i>[Signature]</i>	<i>[Signature]</i>

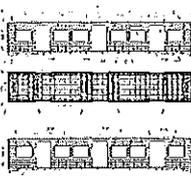
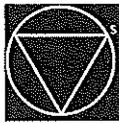
**I.3 Consumables**

Welding Consumable Control - Used for Special Process

Filler Material	Heat Number	Welding Process	OK	Signature/Date (Manufacturing)	Signature/Date (Quality)
308 1.0mm	37737	MIG	✓	<i>[Signature]</i>	<i>[Signature]</i>

## II - Self Inspection - Items to Check

## II.1 - Items to check

Item	Picture/Drawing	Description	Acceptance criteria / Record	OK		Signature/Date (Manufacturing)	Signature/Date (Quality)
01	N/A	Assembly according to Instruction Engineering n° PRA CB1220.DTR30225487/2 Verification of fitment for all reinforcement brackets.	PRA CB1220 DTR30225487/2	/		 08/05/24	
02	N/A	Carshell free of significant flaws which compromise the appearance or functionality	DTD0000210675	/		 08/05/24	 08/05/24
03	REFER TO ANNEXURE A	Arc Welding inspected and approved according procedure.	IND-SAL-WMS-016 REFER TO GIB - TYPDEF - ARC - 0000	/		 08/05/24	
04		Cleaning of all Stainless Steel Surface	According to GIB-WEL - PROC-0002	/		 08/05/24	
05		Functionals dimensions approved according drawing or complementary document approved by Alstom engineering and registered in this document.	Approved according specified on pages below.	/		 08/05/24	
06		Perform visual inspection of welds in 100% of the project. Run by penetrant testing in electric arc welding (weld ring) as IND-SAL-WMS-018. Run by penetrant testing welds (weld ring) and fillet sampling as described in DTD0000210658.	As the welding procedure IND-SAL-WMS-018 and DTD0000210658.	/		 08/05/24	
07	N/A	Before application of sealant record the expiry date and make sure that the room temperature and humidity are within specified values as per Works Instructions Specified:  Temperature Min - Max (°) Min-Max 10°C - 35°C Relative humidity Min - Max (%) 25% - 60%	Sealant Batch No: <u>2001435P</u> Exp Date: <u>10/05/24</u>  Actuals Temperature: <u>22</u> Humidity: <u>33</u>	/		 08/05/24	
08	NA	Verification of sealant application in certain regions in the drawing.	AAD0001278566	/		 08/05/24	
09		Verification of safety welds	Approved according to DTD000210658 reference and Self inspection	/		 08/05/24	



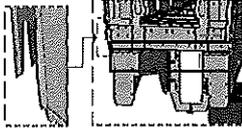
CARBODYSHELL M1,M3,M4 ASSEMBLY  
DTR30225487/2

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29  
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28/10/2023

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SI.CB1220.250.V29

II - Self Inspection - Items to Check

SEALANT APPLICATION



AREA 1 & 2 END 1

Operator (Name & sign):

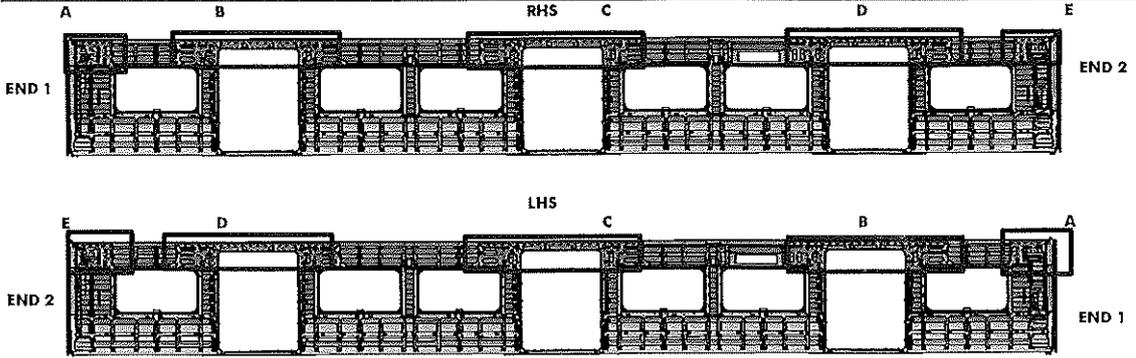
M. Hekozisi

Operator (Name & sign):

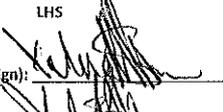
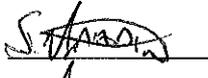
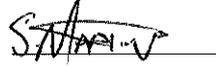
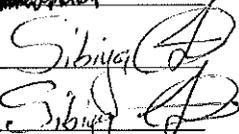
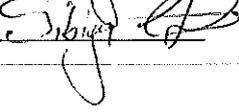
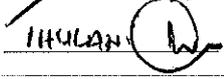
M. Hekozisi

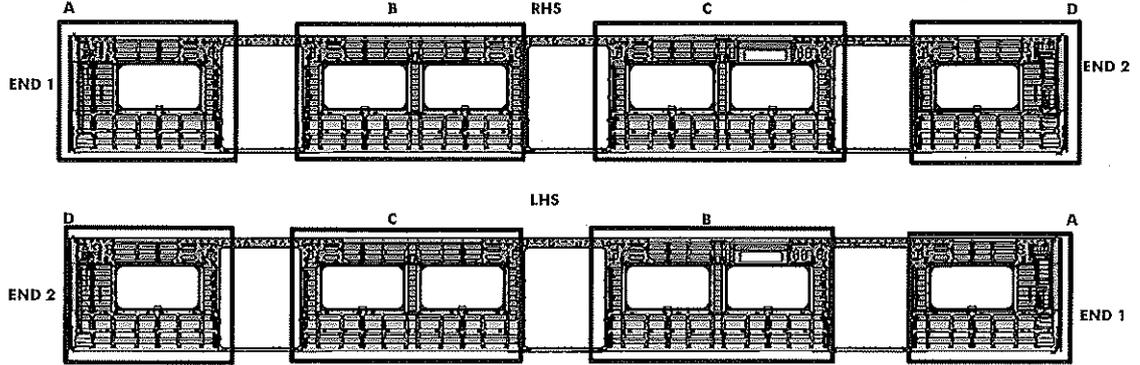
	<b>CARBODYSHELL M1,M3,M4 ASSEMBLY</b> DTR30226487/2	Rev.	Project: PRASA
		29	
		Date	<b>SI.CB1220.250.V29</b>
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**II - Self Inspection - Items to Check**



**REINFORCEMENT WELDING**

AREA	LHS	RHS
A	Operator (Name&sign): 	
B	Operator (Name&sign): 	
C	Operator (Name&sign): 	
D	Operator (Name&sign): 	
E	Operator (Name&sign): 	



**BRACKETING**

<b>INSTALLATION</b>		
C-RAILS:	Operator: <u>Pascilla</u>	
	Operator: _____	
DOOR MECHANISMS:	Operator: <u>THULANI</u>	
	Operator: _____	
TAPPING PADS	Operator: <u>Mthekozisi</u>	
	Operator: _____	
<b>INSTALLATION &amp; VERIFICATION</b>		
SEAT & LUGGAGE BRACKETS:	Operator: <u>Leni</u>	
	Operator: _____	
SEAT BRACKETS VERIFICATION:	Operator: <u>Leni</u>	
	Operator: _____	
<b>WELDING</b>		
AREA	LHS	RHS
A (Seat brackets)	Operator (Name&sign): <u>S. MATHIBO</u>	Operator (Name&sign): <u>S. MATHIBO</u>
(C-rails, Luggage and earth bushes)	Operator (Name&sign): <u>Jolly Raso</u>	Operator (Name&sign): <u>Jolly Raso</u>
B (Seat brackets)	Operator (Name&sign): <u>M. SINDIGA</u>	Operator (Name&sign): <u>M. SINDIGA</u>
(C-rails, Luggage and earth bushes)	Operator (Name&sign): <u>Jolly Raso</u>	Operator (Name&sign): <u>Jolly Raso</u>
C (Seat brackets)	Operator (Name&sign): <u>X. MATHIBO</u>	Operator (Name&sign): <u>X. MATHIBO</u>
(C-rails, Luggage and earth bushes)	Operator (Name&sign): <u>Jolly Raso</u>	Operator (Name&sign): <u>Jolly Raso</u>
D (Seat brackets)	Operator (Name&sign): <u>THULANI</u>	Operator (Name&sign): <u>THULANI</u>
(C-rails, Luggage and earth bushes)	Operator (Name&sign): <u>M. MATHIBO MATHIBO</u>	Operator (Name&sign): <u>M. MATHIBO MATHIBO</u>
<b>ENDS</b>		
END 1 TAPPING PADS WELDING:	Operator (Name&sign): <u>Jolly Raso</u>	
END 2 TAPPING PADS WELDING:	Operator (Name&sign): <u>M. MATHIBO MATHIBO</u>	



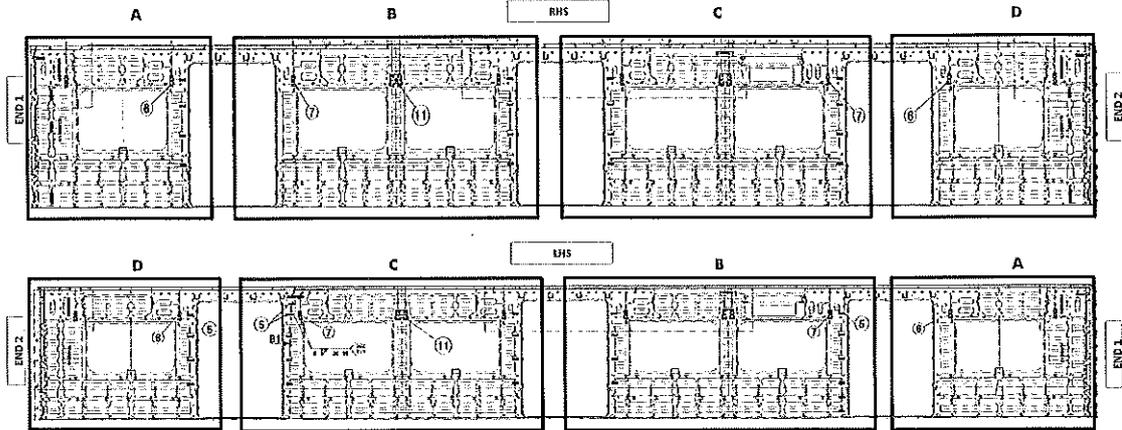
CARBODYSHELL M1,M3,M4 ASSEMBLY  
DTR30226487/2

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SI.CB1220.250.V29

II - Self Inspection - Items to Check

M1/M3/M4 BRACKET INSTALLATION



QUANTITIES (M3/M4)

RHS

	SECTION	QUANTITY	OK	NOK
C-RAILS	A	7		
	B	4		
	C	8		
	D	6		
SEAT BRACKETS	A	13		
	B	21		
	C	21		
	D	13		
EARTH BUSH	A	3		
	B	5		
	C	4		
	D	3		

ROOF ENDS:  
 CRAILS 2 OFF EACH END  
 EARTH BUSH 6 OFF EACH END  
 VERIFICATION BY: \_\_\_\_\_

LHS

	SECTION	QUANTITY	OK	NOK
C-RAILS	A	2		
	B	6		
	C	11		
	D	8		
SEAT BRACKETS	A	13		
	B	21		
	C	21		
	D	13		
EARTH BUSH	A	3		
	B	5		
	C	6		
	D	2		

ROOF ENDS:  
 CRAILS 2 OFF EACH END  
 EARTH BUSH 6 OFF EACH END  
 VERIFICATION BY: \_\_\_\_\_

QUANTITIES (M1)

RHS

	SECTION	QUANTITY	OK	NOK
C-RAILS	A	7		
	B	9		
	C	8		
	D	8		
SEAT BRACKETS	A	13		
	B	21		
	C	21		
	D	13		
EARTH BUSH	A	2		
	B	4		
	C	5		
	D	3		

ROOF ENDS:  
 CRAILS 2 OFF EACH END  
 EARTH BUSH 6 OFF EACH END  
 VERIFICATION BY: *Nthekha*

LHS

	SECTION	QUANTITY	OK	NOK
C-RAILS	A	2		
	B	10		
	C	11		
	D	6		
SEAT BRACKETS	A	13		
	B	21		
	C	21		
	D	13		
EARTH BUSH	A	3		
	B	7		
	C	6		
	D	2		

ROOF ENDS:  
 CRAILS 2 OFF EACH END  
 EARTH BUSH 6 OFF EACH END  
 VERIFICATION BY: *Nthekha*

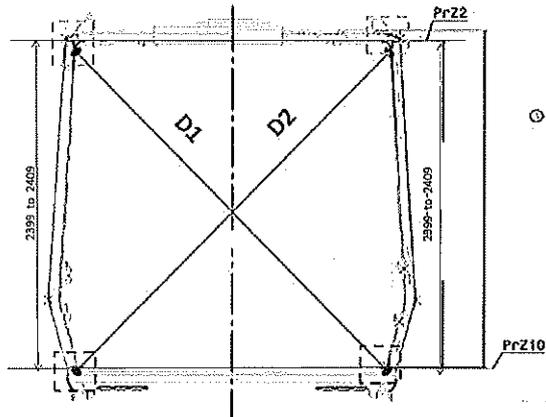


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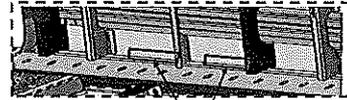
Specifications of Details for CBS measurement



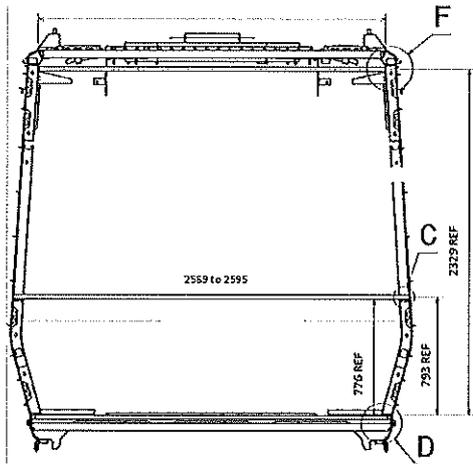
Measurement positions on roof rail and sidewall omega corner.



Reinforcement area measurement positions on roof reinforcement area.



Measurement positions on sidewall and side sill corner.



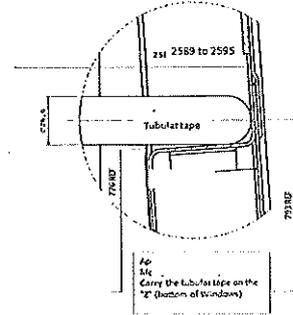
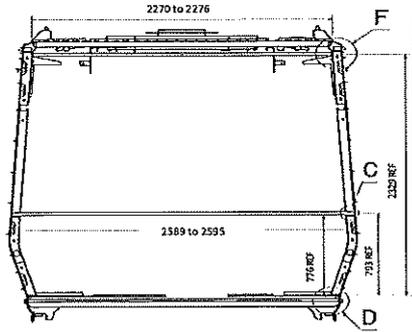


CARBODYSHELL M1,M3,M4 ASSEMBLY  
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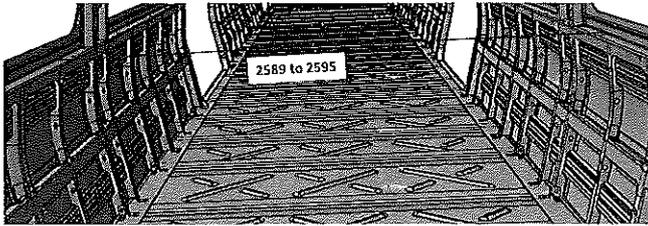
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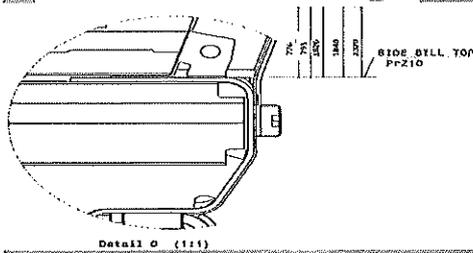
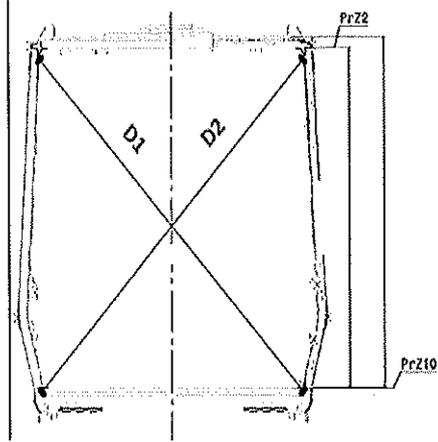
CBS measurement



Detail C

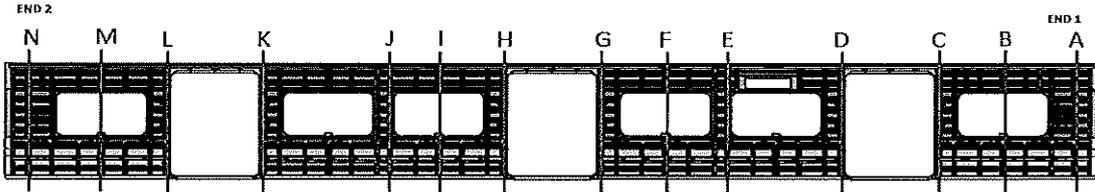


Take measurement close to radius



Detail O (1:1)

	CARBODYSHELL M1,M3,M4 ASSEMBLY DTR30226487/2	Rev.	Project: PRASA  SI.CB1220.250.V29
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CBS measurement			



**BEFORE WELDING**

	Record D1 values	Record D2 values	D1-D2 ≤ 5mm	2589 to 2595
A	3298	3299	1	—
B	3268	3264	4	—
C	3298	3299	1	—
D	3298	3296	2	—
E	3265	3268	3	—
F	3263	3265	2	—
G	3300	3300	0	—
H	3299	3296	3	—
I	3263	3262	1	—
J	3266	3264	2	—
K	3300	3296	4	—
L	3300	3295	5	—
M	3262	3263	3	—
N	3293	3295	2	—

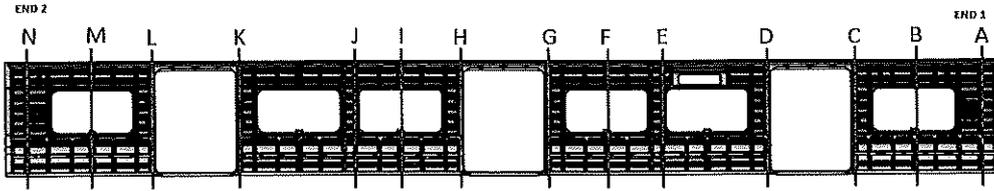


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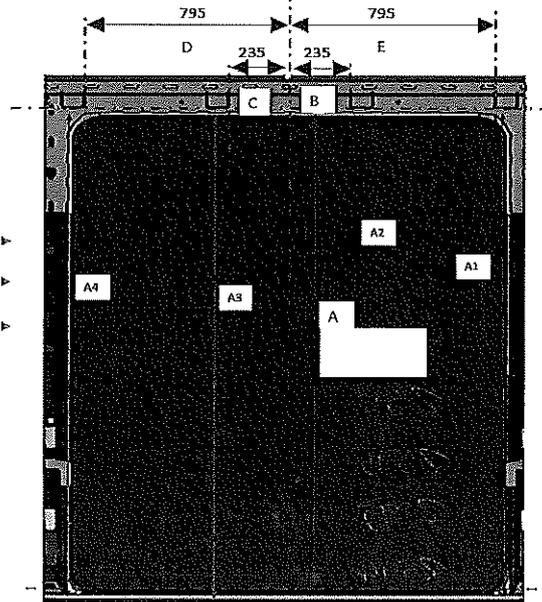
CBS measurement



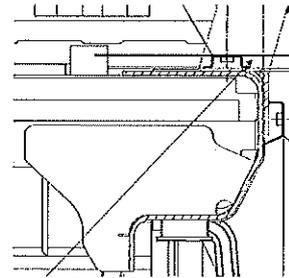
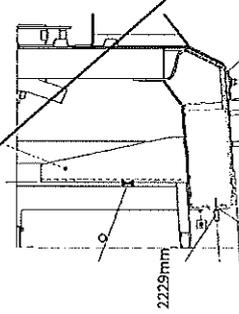
AFTER WELDING

	Record D1 values	Record D2 values	D1-D2 ≤ 5mm	2589 to 2595
A	3295	3297	2	2595
B	3262	3266	2	2592
C	3297	3295	2	2595
D	3300	3295	5	2595
E	3264	3262	2	2594
F	3264	3262	2	2593
G	3298	3295	3	2595
H	3295	3298	3	2595
I	3261	3263	2	2598
J	3264	3266	2	2596
K	3295	3302	3	2595
L	3295	3298	3	2595
M	3260	3268	8	2589
N	3290	3293	3	2595

Specifications of Details for CBS measurement CB1220



Brackets Carbodyshell  
U Type Supports



Brackets Carbodyshell  
Channel Assy

DOOR 1 - LHS

	VALUE	ACTUAL
A1	2230 to 2232	2232
A2	2230 to 2232	2232
A3	2230 to 2232	2232
A4	2230 to 2232	2232
B	234 to 236	235
C	234 to 236	235
D	794 to 796	795
E	794 to 796	795

DOOR 2 - LHS

	VALUE	ACTUAL
A1	2230 to 2232	2233
A2	2230 to 2232	2232
A3	2230 to 2232	2232
A4	2230 to 2232	2232
B	234 to 236	235
C	234 to 236	236
D	794 to 796	795
E	794 to 796	794

DOOR 2 - RHS

	VALUE	ACTUAL
A1	2230 to 2232	2232
A2	2230 to 2232	2231
A3	2230 to 2232	2231
A4	2230 to 2232	2232
B	234 to 236	235
C	234 to 236	235
D	794 to 796	796
E	794 to 796	796

DOOR 1 - RHS

	VALUE	ACTUAL
A1	2230 to 2232	2233
A2	2230 to 2232	2232
A3	2230 to 2232	2232
A4	2230 to 2232	2233
B	234 to 236	234
C	234 to 236	235
D	794 to 796	795
E	794 to 796	794

DOOR 2 - RHS

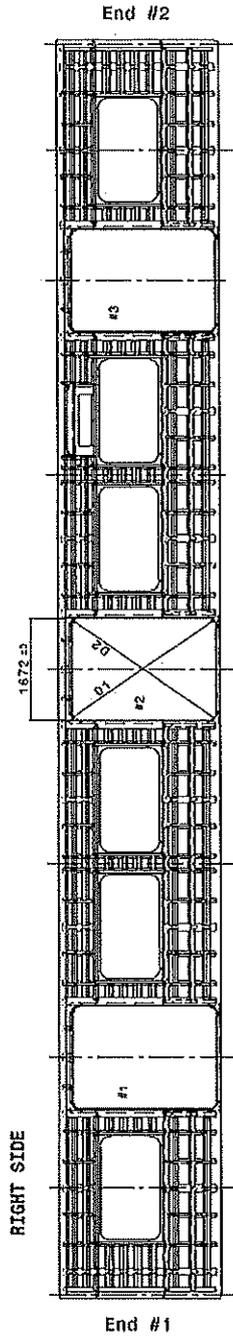
	VALUE	ACTUAL
A1	2230 to 2232	2233
A2	2230 to 2232	2232
A3	2230 to 2232	2232
A4	2230 to 2232	2232
B	234 to 236	234
C	234 to 236	235
D	794 to 796	795
E	794 to 796	795

DOOR 3 - RHS

	VALUE	ACTUAL
A1	2230 to 2232	2234
A2	2230 to 2232	2232
A3	2230 to 2232	2232
A4	2230 to 2232	2234
B	234 to 236	235
C	234 to 236	235
D	794 to 796	795
E	794 to 796	794



Specifications of Details for CBS measurement CB1220

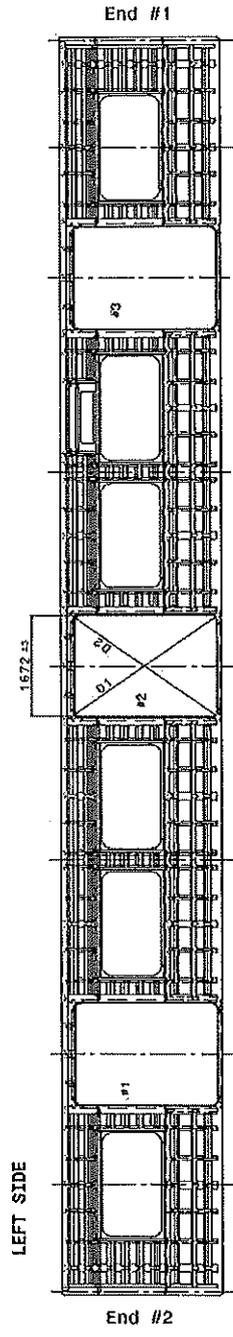


Doors diagonal D1-D2 maximum difference ≤ 4mm

	#1	#2	#3
D1	2149	2149	2150
D2	2147	2147	2148
D1-D2	2	2	2

Doors Length - 1672 ±3mm

	#1	#2	#3
HIGHER DIMENSION	1671	1671	1672
CENTRAL DIMENSION	1671	1672	1672
LOWER DIMENSION	1671	1672	1672



Doors diagonal D1-D2 maximum difference ≤ 4mm

	#1	#2	#3
D1	2149	2149	2148
D2	2148	2148	2149
D1-D2			1

Doors Length - 1672 ±3mm

	#1	#2	#3
HIGHER DIMENSION	1671	1672	1672
CENTRAL DIMENSION	1671	1671	1673
LOWER DIMENSION	1670	1671	1672



	<b>CARBODYSHELL M1,M3,M4 ASSEMBLY</b> DTR30226487/2	Rev.	<b>Project: PRASA</b>  <b>SI.CB1220.250.V29</b>
		29	
		Date	
		28/10/2023	
<b>Self Inspection - Final Result</b>			

Is the car good to advance to the next workstation/process? (Approval of Operations Manager and Industrial Quality)			DATE	NAME	SIGNATURE	
<b>HOLD POINT</b>	<b>GO</b>	(If activities are not complete, the missing activities must not impact the next stage!)	08/05/24	Mt. W. (Operations)		
		Every auto inspection performed conforms to specification or in case of discrepancy the same is approved by the competent party)	08/05/24	Industrial Quality		
		There are activities pending that impact/stop the activities of the next process Obs: (To describe problems below)			Operations	
		There are non-conformities impact the quality of the product and there is no corrective action defined yet)			Industrial Quality	

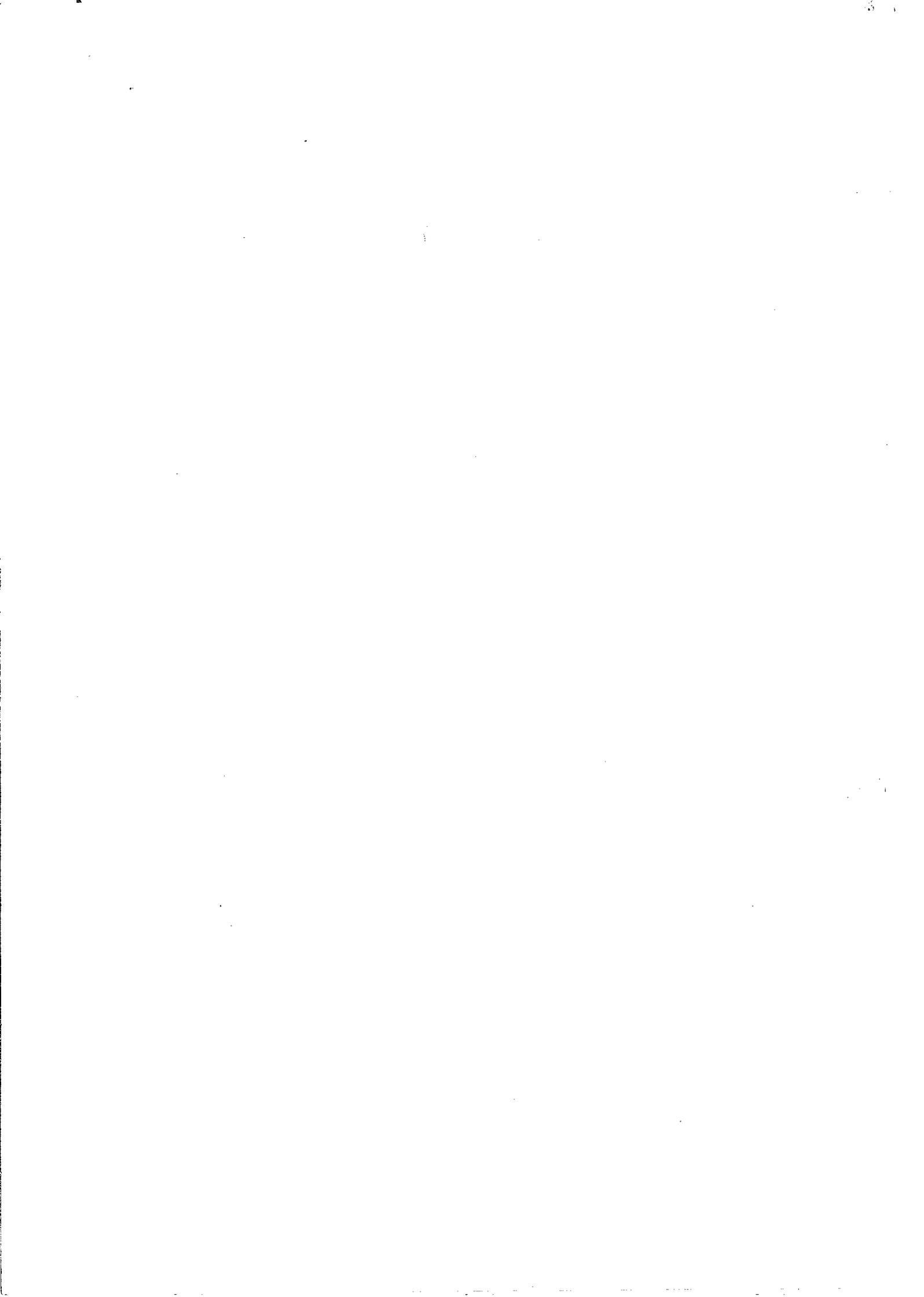
In case of "NO GO", describe blocking problems

In case of "NO GO", the operations manager must define below action plan to ensure "GO":

Item	Description	Responsible	Due date	Status

\_\_\_\_\_  
Operations

\_\_\_\_\_  
Quality





APPLICABLE FOR TRAINSET 100+ ONLY AS PER BASELINE 10.3.1

# SELF INSPECTION SHEET

**CONFIDENTIAL INFORMATION**  
 This document and the information contemplated therein have to be considered as Confidential Information pursuant to the provisions of Clause 25 of the MSA, and treated as such.

**APPLICATION REFERENCE**

MOUNTING	DRAWING	DESCRIPTION	STATION	CAR TYPE						WORK INSTRUCTION	SAFETY ?	
				TC1	M4	M3	M2	M1	TC2			
<input type="checkbox"/>	DT00000225487	AAD0001278566	CARBODYSHELL M1,M2,M3 ASSEMBLY	CB2230		X	X		X		PRA.CB2230.DT000002 25487.V20	YES
<input type="checkbox"/>												
<input type="checkbox"/>												
REV	DATE	MODIFICATION CONTENT			RESPONSIBLE	NAME	DATE					
0	2018/08/02	GIBELA NEW CREATION			APPROVER	Philippe Marques	2018/08/02					
					CHECKER	Nosizo Pindela	2018/08/02					
					COMPILER	Nosizo Pindela	2018/08/02					
1	30/5/2018	Team leader and Quality Technician to sign Change final signature from PME Manager to Quality manager			APPROVER	Itumeleng Modiba	30/5/2018					
					CHECKER	Nosizo Pindela	30/5/2018					
					REVISED BY	Nosizo Pindela	30/5/2018					
2	2018/05/07	Certain dimensional checks moved to CB1220			APPROVER	Itumeleng Modiba	2018/05/07					
					CHECKER	Nosizo Pindela	2018/05/07					
					REVISED BY	Ramokone Motama	2018/05/07					
5	24/01/2019	As per Baseline 10.2			APPROVER	Itumeleng Modiba	24/01/2019					
					CHECKER	Nosizo Pindela	24/01/2019					
					REVISED BY	Vanessa Ntuli	24/01/2019					
6	13/03/2019	Added Twist and Door Bracket Measurements Remove Door Measurements			APPROVER	Itumeleng Modiba	13/03/2019					
					CHECKER	Nosizo Pindela	13/03/2019					
					REVISED BY	Nosizo Pindela	13/03/2019					
10	23/08/2019	New Baseline 10.2.5			APPROVER	Itumeleng Modiba	23/08/2019					
					CHECKER	Nosizo Pindela	23/08/2019					
					REVISED BY	Nosizo Pindela	23/08/2019					
15	06/08/2020	New Baseline 10.2.6			APPROVER	Timothy Maimela	06/08/2020					
					CHECKER	Bongane Masina						
					REVISED BY	Bongane Masina						
20	19/04/2021	New Baseline change 10.3			APPROVER	Timothy Maimela	19/04/2021					
					CHECKER	Bongane Masina						
					REVISED BY	Bongane Masina						
25	20/02/2022	New Baseline change 10.3.1			APPROVER	Collins Mhombhli	20/02/2022					
					CHECKER	Andani Muthelo						
					REVISED BY	Andani Muthelo						
26	14/06/2022	Update minimum temperature requirement for sealant application			APPROVER	Collins Mhombhli	14/06/2022					
					CHECKER	Andani Muthelo						
					REVISED BY	Andani Muthelo						
27	26/07/2022	Threshold measurements addition			APPROVER	Collins Mhombhli	26/07/2022					
					CHECKER	Andani Muthelo						
					REVISED BY	Andani Muthelo						
28	17/10/2022	Added traceability of sealant application			APPROVER	Collins Mhombhli	17/10/2022					
					CHECKER	Ntokozo Zwane						
					REVISED BY	Amogelang Mohlampe						
29	14/04/2023	Added sealant batch number & welding consumables traceability			APPROVER	Vanessa Ntuli	14/04/2023					
					CHECKER	Ntokozo Zwane						
					REVISED BY	Amogelang Mohlampe						
30	06/11/2023	Added threshold traceability for boiler makers and welders			APPROVER	Ngubeni Tyson	06/11/2023					
					CHECKER	Andani Muthelo						
					REVISED BY	Ntokozo Zwane						
TRAINSET	CAR	OPERATOR NAME & ALPS NO	DATE	SELF INSPECTION NUMBER	PAGES							
226	M1	Zanele 432774	09/08/24	SI.CB2230.256.V29	12							





CARBODYSHELL M1,M3,M4 ASSEMBLY  
DT00000225487

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06/11/2023

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Car:

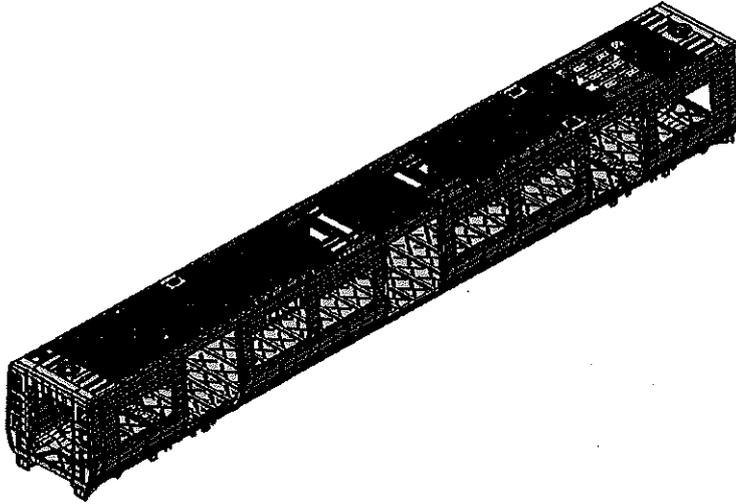
NCR:

Work station:

CB2230



Safety Related



I - Documentation and Instruments Control

I.1 - Documentation Control

Document	Type of car					Revision	Observation	OK	NOK	Re-work	Signature/Date (Operations)	Signature/Date (Quality)
	M1	M2	M3	M4	TCS							
PRA.CB2230.DT00000225487	X					30		X		N/A	09/05/24	09/05/24

I.2 - Instruments Control

Monitoring and Measuring Instrument Control - Used for Special Process

Instruments	Serial number	Calibration or Verification Validation Date	OK	NOK	Signature/Date (Operations)	Signature/Date (Quality)
Tubular	22713	26/06/24	X		09/05/24	09/05/24
Combination square	G1B0794	25/07/24	X		09/05/24	09/05/24
Tape measurement	G1B0012	27/07/24	X		09/05/24	09/05/24

I.3 Consumables

Welding Consumable Control - Used for Special Process

Filler Material	Heat Number	Welding Process	OK	NOK	Signature/Date (Manufacturing)	Signature/Date (Quality)
308LSi	313779	Mig	X		09/05/24	09/05/24





CARBODYSHELL M1,M3,M4 ASSEMBLY  
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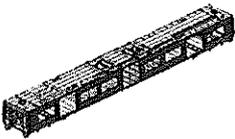
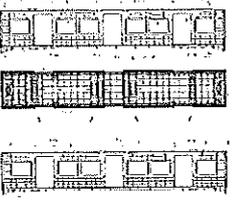
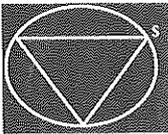
Date

06/11/2023

SI.CB2230.256.V29

II - Self Inspection - Items to Check

II.1 - Items to check

Item	Picture/Drawing	Description	Acceptance criteria / Record	OK	NO	NO/OP	Signature/Date (Operations)	Signature/Date (Quality)
01	N/A	Assembly according to Instruction Engineering n° PRA,CB1230,DT00000225487 Verification of fitment for all brackets.	PRA.CB1230.DT00000225487	X			AR 09/05/24	JG 07/05/24
02	N/A	Carshell free of significant flaws which compromise the appearance or functionality	DTD0000210675	X			AR 09/05/24	JG 07/05/24
03	REFER TO ANNEXURE A	Arc Welding inspected and approved according procedure.	IND-SAL-WMS-016 REFER TO GIB - TYPDEF - ARC - 0000	X			AR 09/05/24	JG 07/05/24
04		Cleaning of all Stainless Steel Surface	According TO GIB-WEL - PROC-0002	X			AR 09/05/24	JG 07/05/24
05		Functionals dimensions approved according drawing or complementary document approved by Alstom engineering and registered in this document.	Approved according specified on pages below.	X			AR 09/05/24	JG 07/05/24
06		Perform visual inspection of welds in 100% of the project. Run by penetrant testing in electric arc welding (weld ring) as IND-SAL-WMS 018. Run by penetrant testing welds (weld ring) and fillet sampling as described in DTD0000210658.	As the welding procedure IND-SAL-WMS-018 and DTD0000210658.	X			AR 09/05/24	JG 07/05/24
07	N/A	Before application of sealant record the expiry date and make sure that the room temperature and humidity are within specified values as per Works Instructions Specified:  Temperature Min - Max (I)    Min-Max    10°C - 35°C Relative humidity Min - Max (I)    Min-Max    25% - 60%	Sealant Batch No: <u>B-3497-60324</u> Exp Date: <u>06/24</u> Actuals Temperature: <u>15°C</u> Humidity: <u>34%</u>	X			AR 09/05/24	JG 07/05/24
08	N/A	Verification of sealant application on the roof and sidewall finishers.	Sealant must be: -Applied straight and even -Free of gaps,cracks,damage and debris (flashes, dirt, dust)  Refer to Annexure B	X			AR 09/05/24	JG 07/05/24
09	N/A	Verification of sealant application in certain regions in the drawing.	AAD0001278566	X			AR 09/05/24	JG 07/05/24





CARBODYSHELL M1,M3,M4 ASSEMBLY  
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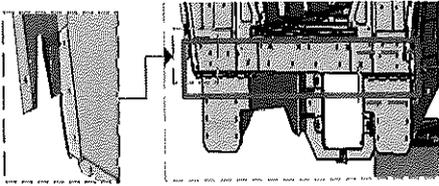
Date

06/11/2023

SI.CB2230.256.V29

II - Self Inspection - Items to Check

AREA 1



END 2 SEALANT

OPERATOR  
(Name & sign):

Bortumelo

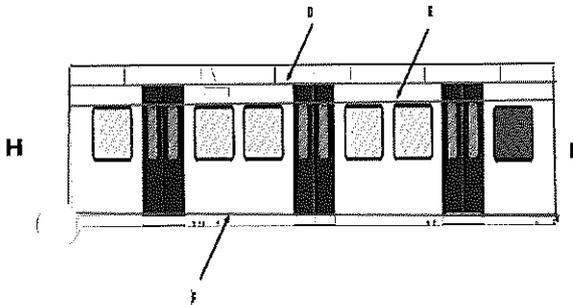
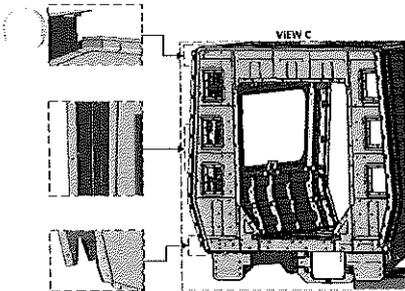
OPERATOR  
(Name & sign):

Bortumelo

OPERATOR  
(Name & sign):

Bortumelo

AREA 2 (VIEW C)



Area D,E,F,G,H,I

Operator (Name & sign): D,E,F,G,H,I <sup>LHS</sup> / D,E,F,G,H,I <sup>RHS</sup>

Operator (Name & sign): Buhle Buhle

Operator (Name & sign): Leato Leato

Operator (Name & sign): \_\_\_\_\_

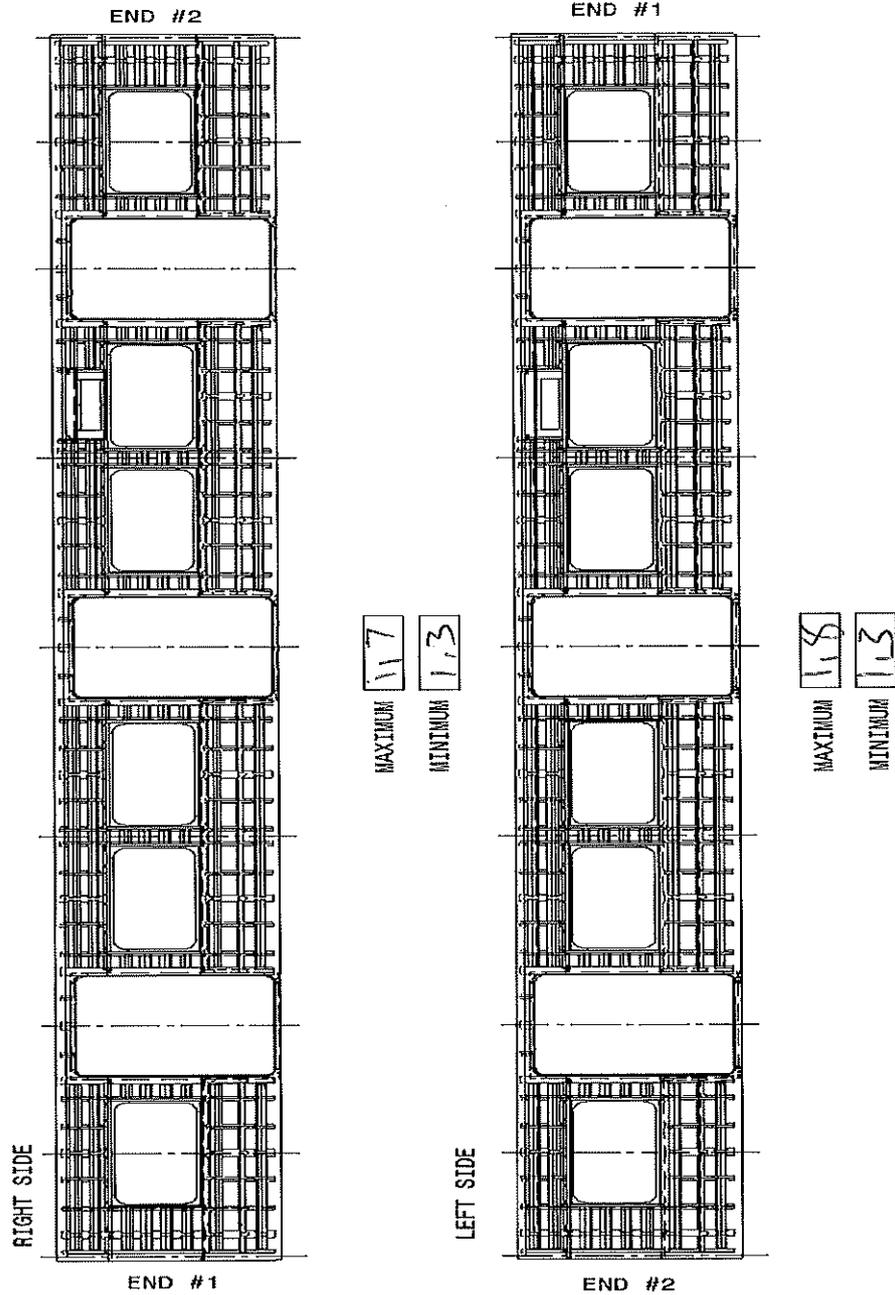
Operator (Name & sign): \_\_\_\_\_

Operator (Name & sign): \_\_\_\_\_



Specifications of Details for CBS measurement CB1230

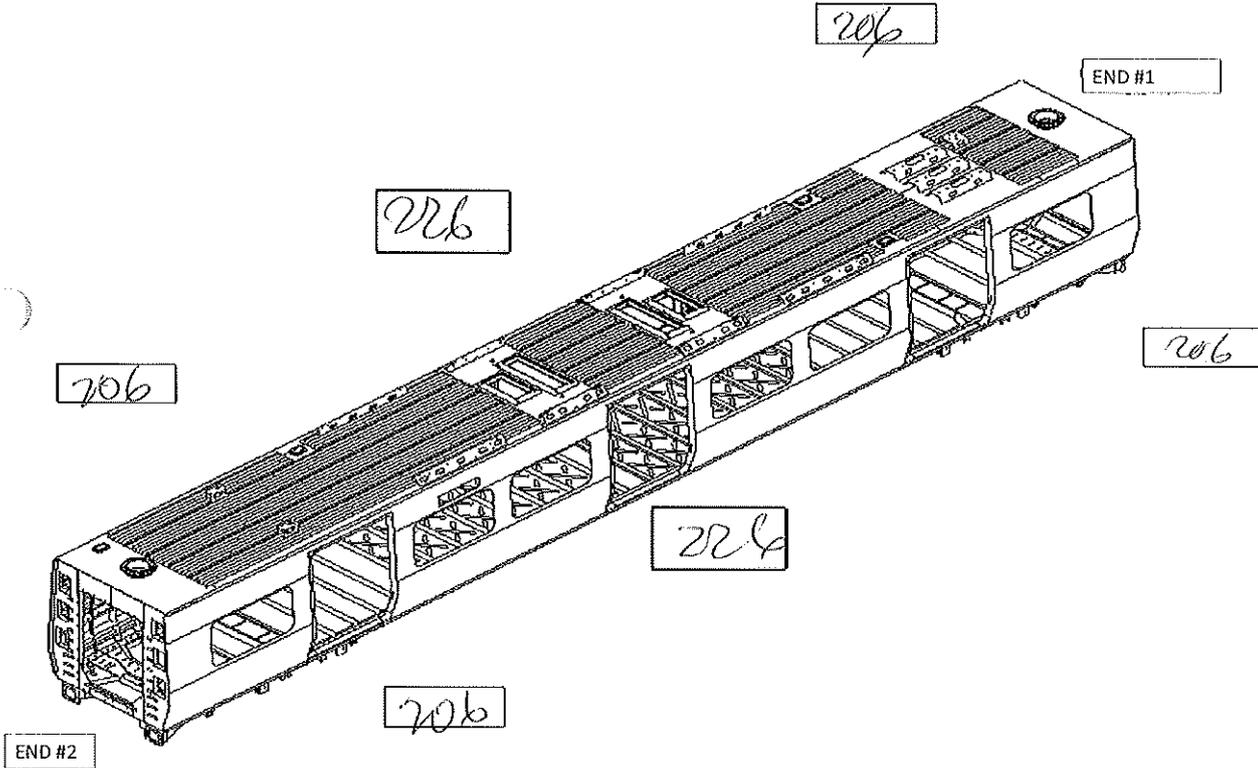
Flatness side left and right maximum of 2mm in the valley to peak measured in 900mm. Recod the maximum and minimum value found and indicate the corresponding region.





Specifications of Details for CBS measurement CB1230

Specified Camber for car out of jig is 18mm(-0mm + 2mm)



MEASURED CAMBER VALUES

RIGHT	11	20
LEFT	11	20





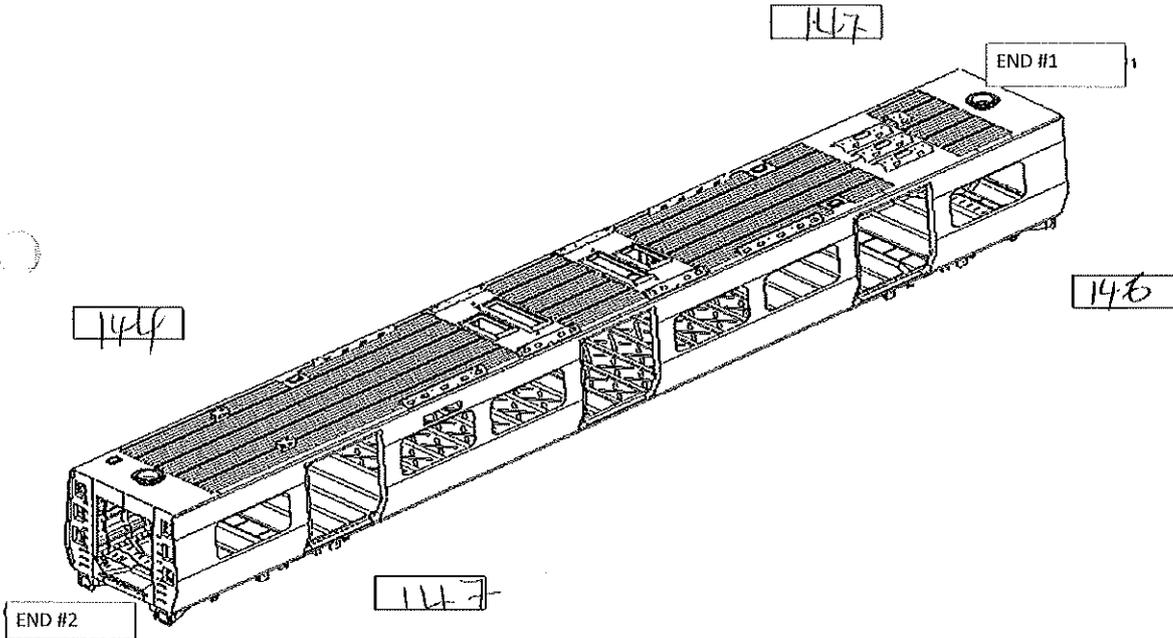
CARBODYSHELL M1,M3,M4 ASSEMBLY  
DT00000225487

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SI.CB2230.256.V29

Specifications of Details for CBS measurement CB1230

Twist measured in transversal and longitudinal = Maximum 3mm. Measure twist on air spring plates (LHS and RHS), both End 1 and End 2 following twist measurement document.



TWIST FOUND ON END 1

TRANVERSE   
LONGITUDINAL

TWIST FOUND ON END 2

TRANVERSE   
LONGITUDINAL





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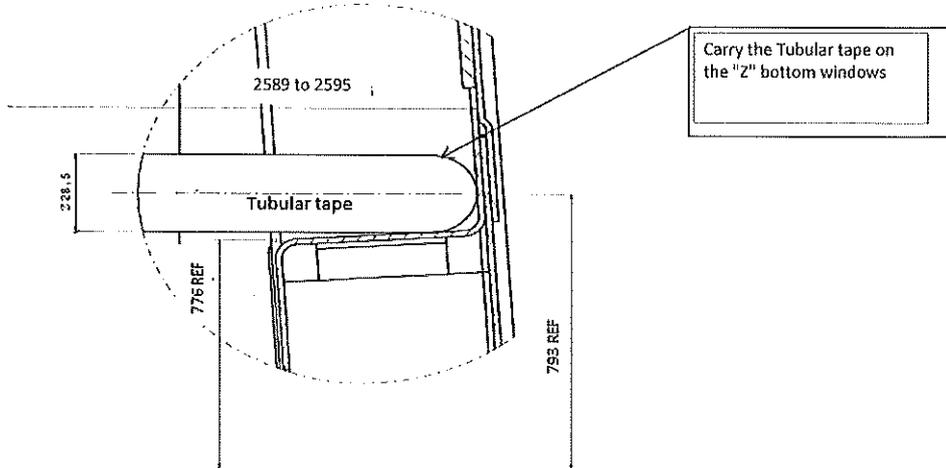
Project: PRASA

Date

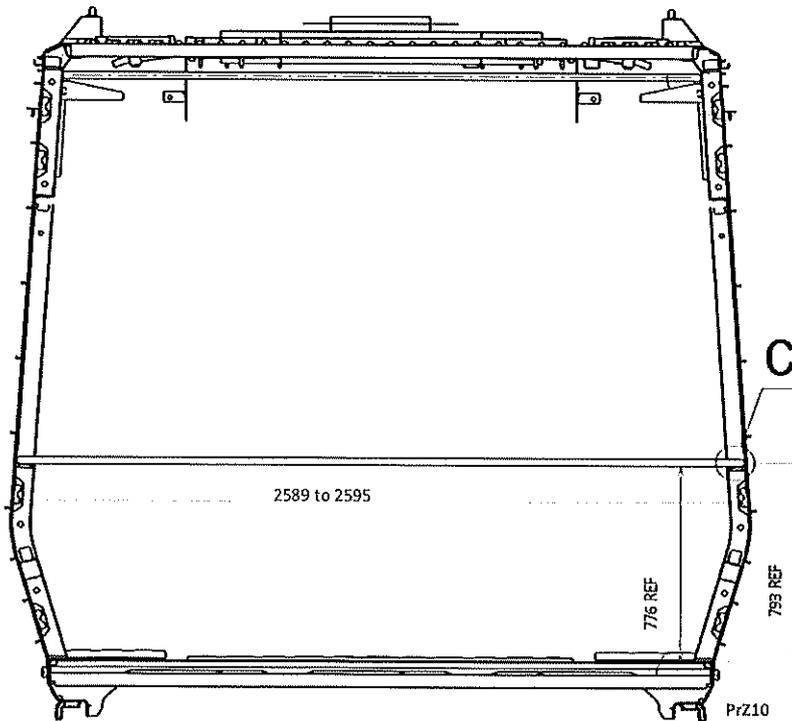
06/11/2023

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Specifications of Details for CBS measurement CB1230



Detail C







CARBODYSHELL M1,M3,M4 ASSEMBLY  
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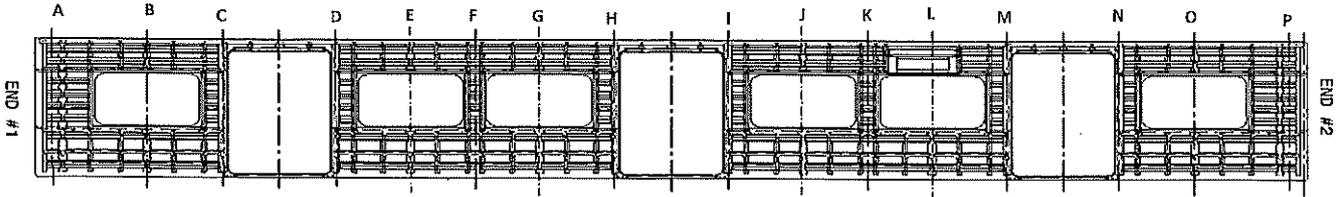
Project: PRASA

Date

06/11/2023

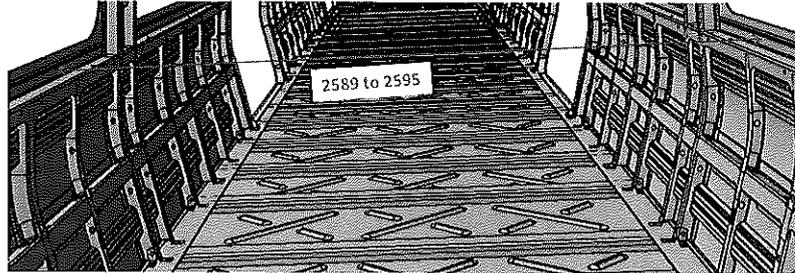
SI/CB2230.256.V29

Specifications of Details for CBS measurement CB1230



2589 to 2595mm

- A 2592
- B 2593
- C 2594
- D 2595
- E 2594
- F 2595
- G 2594
- H 2593
- I 2592
- J 2590
- K 2591
- L 2592
- M 2593
- N 2590
- O 2593
- P 2592



Threshold verification

Nominal value :38

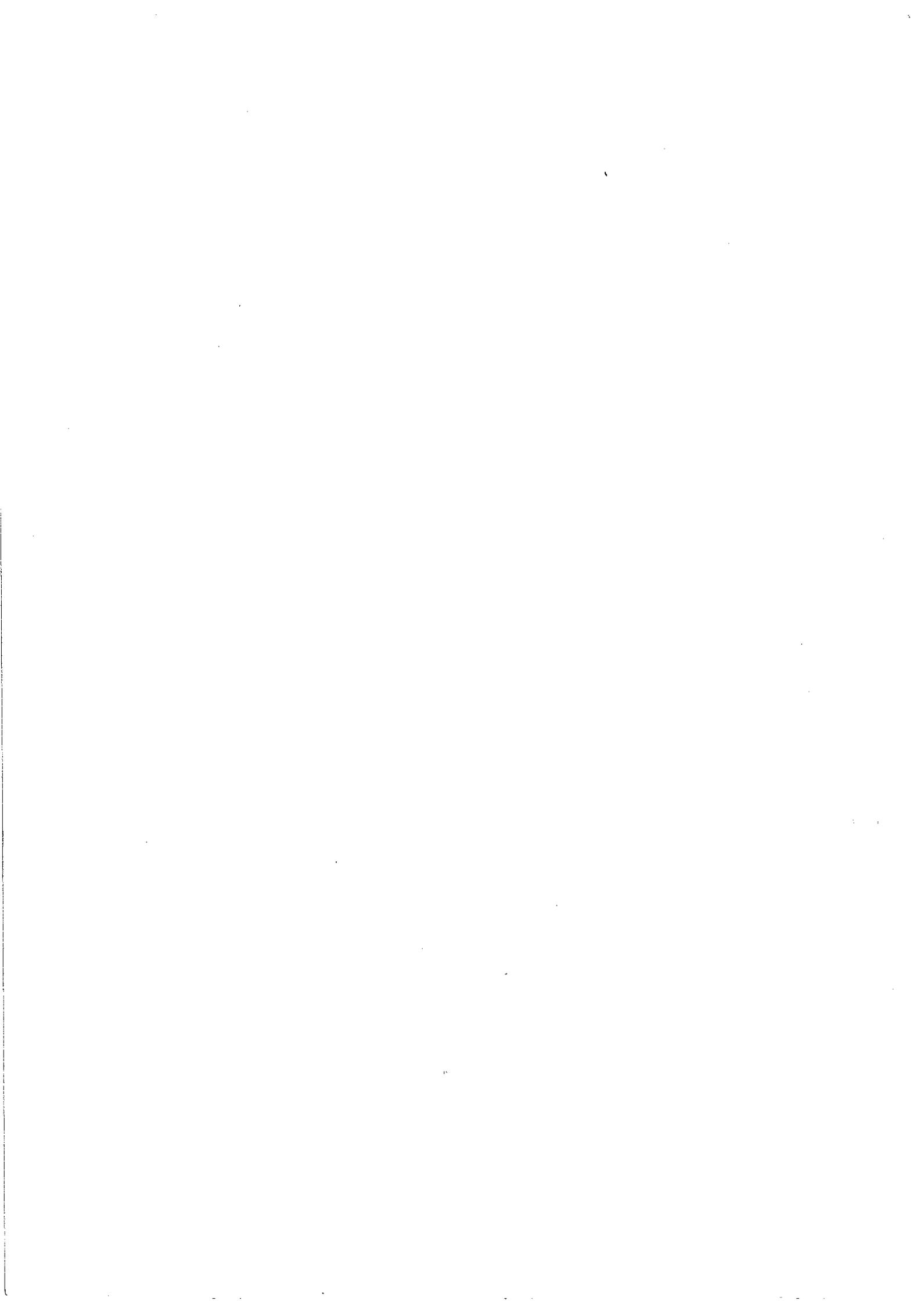
Door 1		Door 2		Door 3	
L	R	L	R	L	R
38	39	38	39	38	39
Door 4		Door 5		Door 6	
L	R	L	R	L	R
39	38	38	38	39	39

BOILER MAKER: Mafunisa Binafontis  
 WELDER: Mathafeto Masaka

Dye penetrant test

Dye-penetration test to be performed by quality personnel











CARBODYSHELL M1,M3,M4 ASSEMBLY  
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**Self Inspection - Final Result**

Is the car good to advance to the next workstation/process? (Approval of Operations and Industrial Quality)		DATE	NAME	SIGNATURE	
HOLD POINT	GO  (If activities are not complete, the missing activities must not impact the next stage!)	09/05/24	Zende Operations		
		09/05/24	Ntkerw Industrial Quality		
	NO GO  There are activities pending that impact/stop the activities of the next process Obs: (To describe problems below)			Operations	
				Industrial Quality	

In case of "NO GO", describe blocking problems

In case of "NO GO", the operations manager must define below action plan to ensure "GO":

Item	Description	Responsible	Due date	Status

Operations

Quality

