



APPLICABLE FROM TRAINSET 190+ AS PER BASELINE 10.4

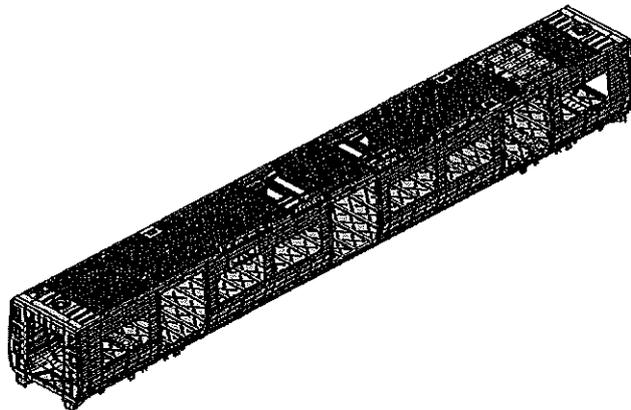
SELF INSPECTION SHEET

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	M1	M2	M3	TC2			
<input type="checkbox"/>	DTR3000152644	AAD0001278566	CARBODYSHELL M3,M4 ASSEMBLY	CB1210		X			X		PRA.CB1210,DTR30225 487/3.V30	YES
<input type="checkbox"/>												
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					
28	07/11/2023	Added traceability for welding sections			APPROVER		Ngobeni Tyson	07/11/2023				
					CHECKER		Mohlampe Amogelang					
					REVISED BY		Ntokozo Zwane					
TRAINSET	CAR	OPERATOR NAME & ALPS NO		DATE	SELF-INSPECTION NUMBER		PAGES					
B234	M3	P. MALATI 40996		21/06/24	SI.CB1210.254.V30		17					

	CARBODYSHELL M3,M4 ASSEMBLY DTR30225487/3	Rev. 28	Project: PRASA SI.CB1210.254.V30
		Date 07/11/2023	

Car: M3 & M4	ICR:	Work station: CB1210
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I - Documentation and Instruments Control

I.1 - Documentation Control

Document	Type of car						Revision	Observation	OK	Signature/Date (Manufacturing)	Signature/Date (Quality)
	D	M	S	L	A	P					
DTR30225487/3				X			V08		✓	[Signature]	[Signature] 21/06/24

I.2 - Instruments Control

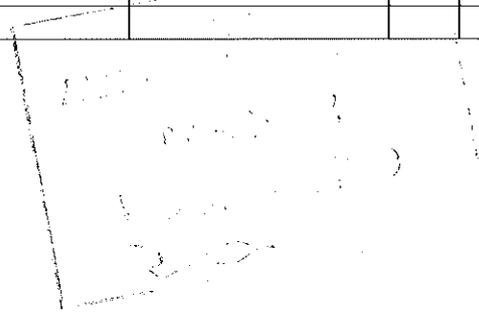
Monitoring and Measuring Instrument Control - Used for Special Process

Instruments	Serial number	Calibration or Verification Validation Date	OK	Signature/Date (Manufacturing)	Signature/Date (Quality)
TUBULAR	32823-0	15/03/05	✓	[Signature]	[Signature] 21/06/24
LASER	125405904	02/01/05	✓	[Signature]	[Signature]
SUM	41670102	18/11/24	✓	[Signature]	[Signature]

1.3 Consumables

Welding Consumable Control - Used for Special Process

Filler Material	Heat Number	Welding Process	OK	Signature/Date (Manufacturing)	Signature/Date (Quality)
ER 308 LSI	314018-74097	MIG	✓	[Signature]	[Signature]
ER 308 L	099687-70300	TIG	✓	[Signature]	[Signature]

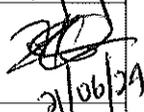
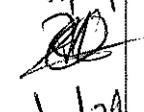
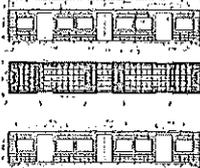
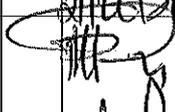
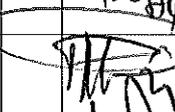
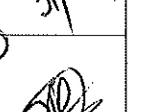


21/06/24
21/06/24

	CARBODYSHELL M3,M4 ASSEMBLY DTR30225487/3	Rev. 28	Project: PRASA SI.CB1210.254.V30
		Date 07/11/2023	

II - Self Inspection - Items to Check

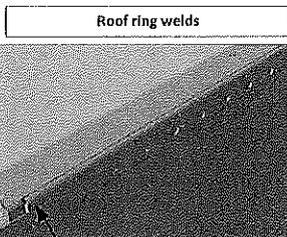
II.1 - Items to check

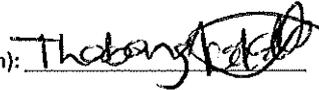
Item	Picture/Drawing	Description	Acceptance criteria / Record	OK	Signature/Date (Manufacturing)	Signature/Date (Quality)
01	N/A	Carshell free of significant flaws which compromise the appearance or functionality	DTD0000210675	✓	 21/06/24	 21/06/24
02	REFER TO ANNEXURE A	Spot welding inspected and approved according to procedure	IND-SAL-WMS-016 e DTD0000210675	✓	 21/06/24	 21/06/24
03	REFER TO ANNEXURE B	Arc welding inspected and approved according to procedure	IND-SAL-WMS-016 REFER TO GIB - TYPDEF - ARC - 0000	✓	 21/06/24	 21/06/24
04		Cleaning of all Stainless Steel Surface	According TO GIB-WEL - PROC-0002	✓	 21/06/24	 21/06/24
05		Functionals dimensions approved according drawing or complementary document approved by Alstom engineering and registered in this document	Approved according specified on pages below.	✓	 21/06/24	 21/06/24
06	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.	✓	 21/06/24	 21/06/24

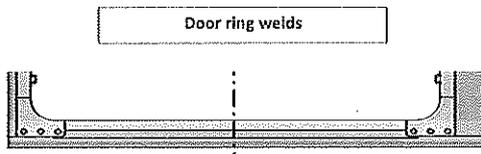


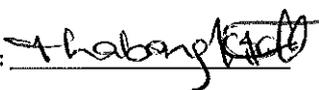
	CARBODYSHELL M3,M4 ASSEMBLY DTR30226487/3	Rev. 28	Project: PRASA SI.CB1210.254.V30
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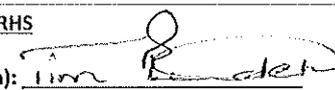
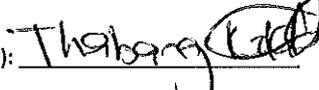
Welding Traceability

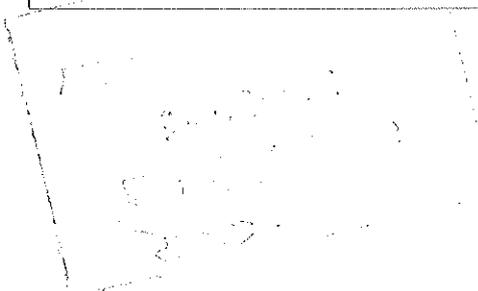


<u>LHS</u>	
Boiler maker (Name & Sign): <u>WNGA</u> 	Welder (Name & Sign): <u>Thabang</u> 
<u>RHS</u>	
Boiler maker (Name & Sign): 	Welder (Name & Sign): <u>Keiru K. Nani</u>

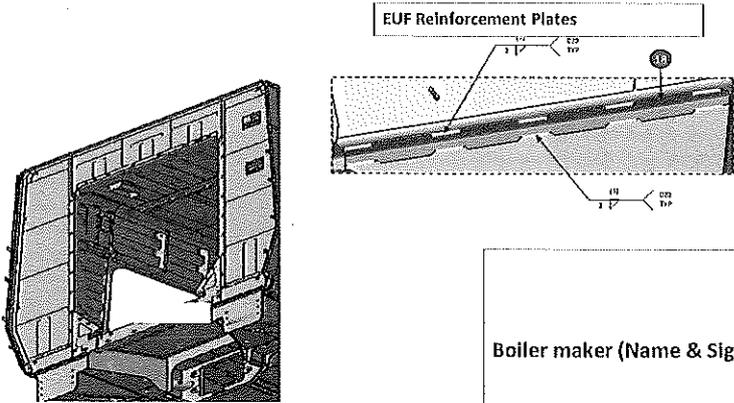


<u>LHS</u>
Boiler maker (Name & Sign): <u>Tim Rader</u> 
Welder (Name & Sign): <u>Thabang</u> 

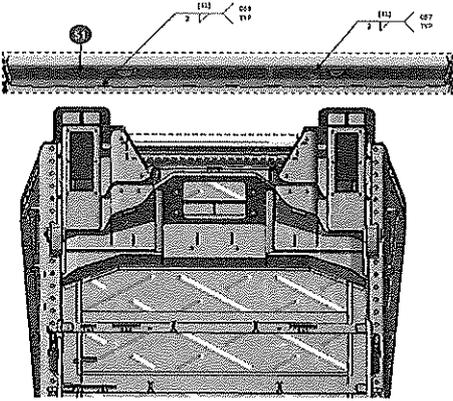
<u>RHS</u>
Boiler maker (Name & Sign): <u>Tim Rader</u> 
Welder (Name & Sign): <u>Thabang</u> 



	CARBODYSHELL M3,M4 ASSEMBLY DTR30225487/3	Rev.	Project: PRASA
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		07/11/2023	



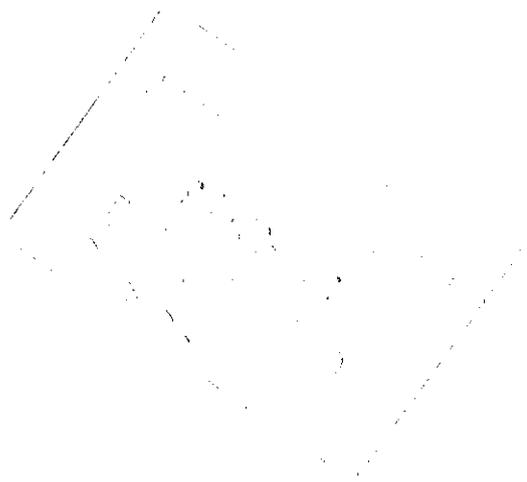
END 1
Boiler maker (Name & Sign): GERALD [Signature]
Welder (Name & Sign): [Signature]



END 2
Boiler maker (Name & Sign): Tim [Signature]
Welder (Name & Sign): SIPHOKAZI [Signature]

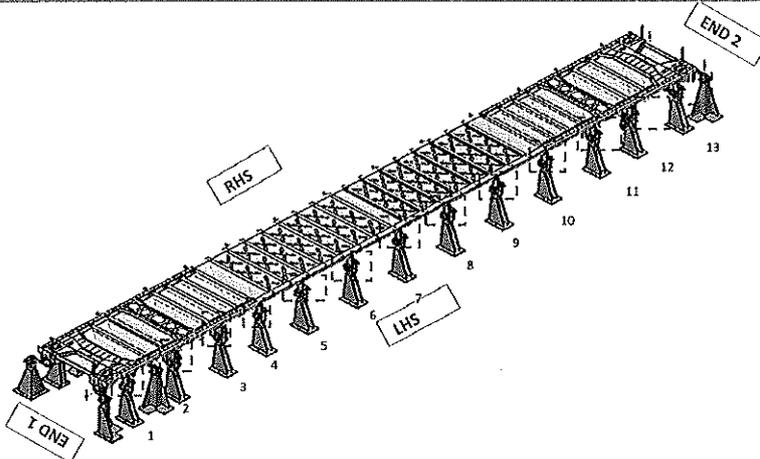


FEDOLI
Operator: SIPHOKAZI [Signature]



	CARBODYSHELL M3,M4 ASSEMBLY DTR30225487/3	Rev. 28	Project: PRASA SI.CB1210.254.V30
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Specifications of Details for CBS measurement

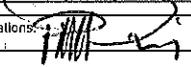


Measure gap between jig pillar / chair and underframe = 0mm. No gap.

After loading and clamping

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 Operations:  Date: 21/06/24

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:  Date: 21/06/24



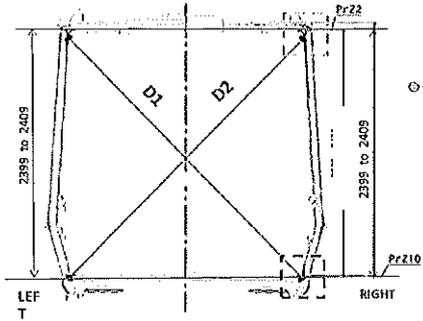
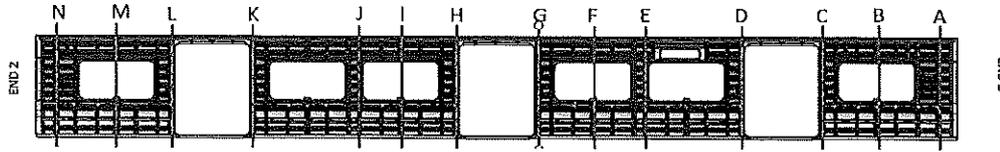


CARBODYSHELL M3,M4 ASSEMBLY DTR30226487/3

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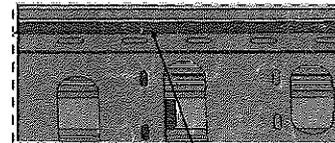
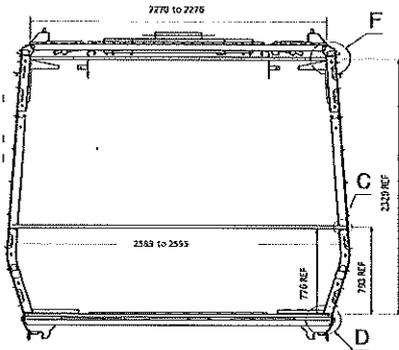
Specifications of Details for CBS measurement



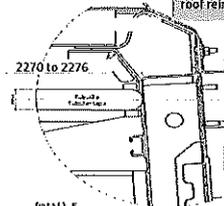
Measurement positions on roof/rail and sidewall omega corner.



Measurement positions on sidewall and side sill corner.



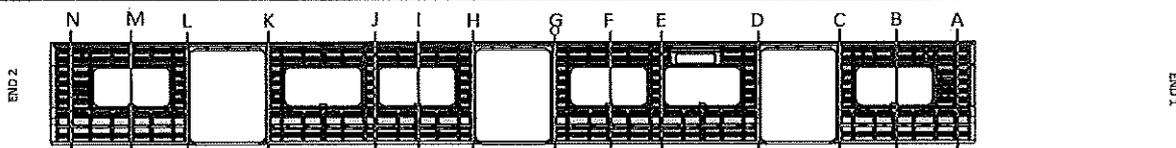
Reinforcement area measurement positions on roof reinforcement area.



Detail F
Don't forgetting
Detail Reinforcement

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Specifications of Details for CBS measurement



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

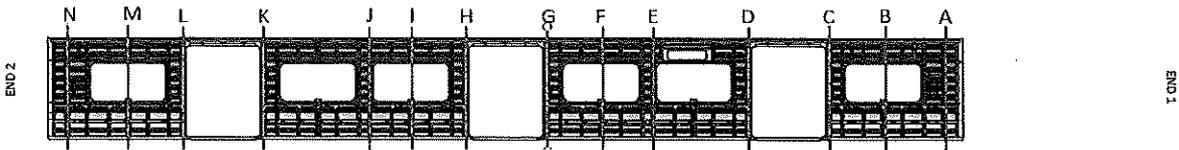
BEFORE WELDING

	Record D1 values	Record D2 values	D1-D2 $\leq 5\text{mm}$	2399 to 2409	2399 to 2409 (RHS)	LHS-RHS ≤ 2
A	3269	3268	1	2404	2404	0
B	3271	3272	1	2406	2405	1
C	3268	3269	1	2404	2404	0
D	3266	3266	0	2406	2405	1
E	3268	3266	2	2405	2404	1
F	3271	3272	1	2404	2404	0
G	3269	3269	0	2405	2404	1
H	3270	3268	2	2404	2406	2
I	3271	3269	2	2404	2405	1
J	3268	3269	1	2404	2404	0
K	3266	3269	3	2406	2405	1
L	3269	3268	1	2404	2404	0
M	3268	3267	1	2405	2404	1
N	3268	3267	1	2406	2404	2


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Specifications of Details for CBS measurement



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

AFTER WELDING

	Record D1 values	Record D2 values	D1-D2 $\leq 5\text{mm}$	2399 to 2409	2399 to 2409 (RHS)	LHS-RHS ≤ 2
A	3096	3098	2	2404	2404	0
B	3068	3068	0	2405	2406	1
C	3097	3096	1	2404	2404	0
D	3096	3096	0	2404	2405	1
E	3068	3067	1	2406	2404	2
F	3069	3068	1	2405	2404	1
G	3097	3098	1	2404	2405	1
H	3096	3098	2	2406	2404	2
I	3069	3068	1	2404	2404	0
J	3068	3068	0	2405	2406	1
K	3096	3097	1	2405	2404	1
L	3098	3098	0	2404	2404	0
M	3069	3068	1	2406	2404	2
N	3096	3096	1	2404	2405	1

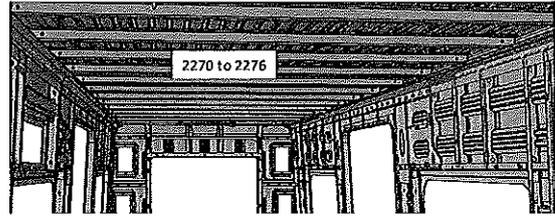
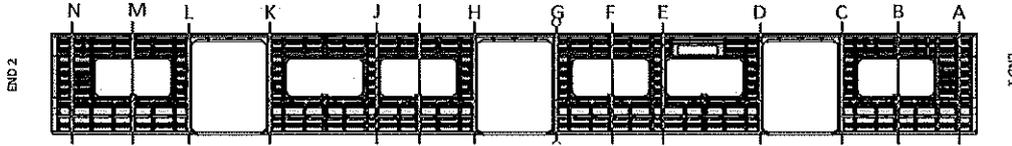

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	CARBODYSHELL M3,M4 ASSEMBLY DTR30225487/3	Rev. 28	Project: PRASA SI.CB1210.254.V30
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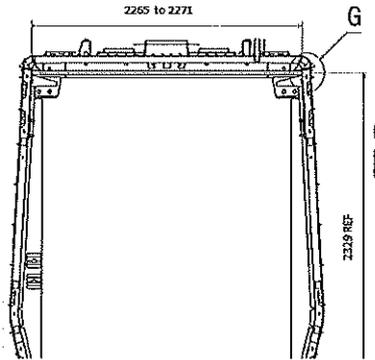
CBS measurement

BEFORE WELDING

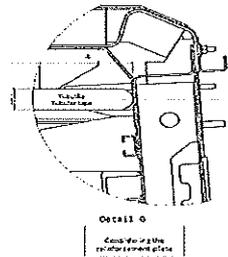


- 2270 to 2276
- A: 2270
 - B: 2270
 - C: 2270
 - D: 2271
 - E: 2270
 - F: 2270
 - G: 2270
 - H: 2270
 - I: 2270
 - J: 2270
 - K: 2270
 - L: 2270
 - M: 2270
 - N: 2270

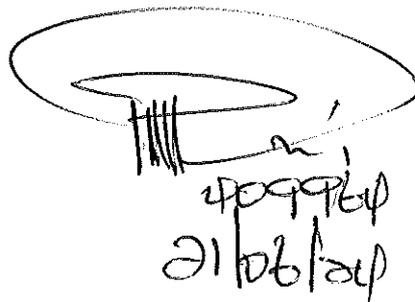
Do not consider reinforcement (Take measurements top area of zee profile



2265 to 2271



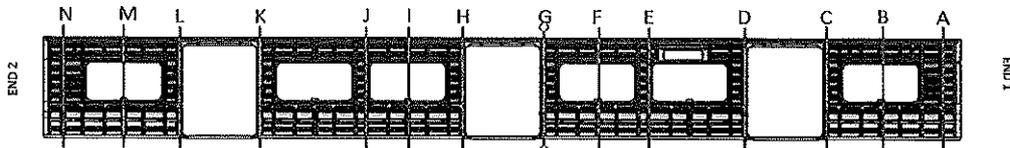
090811 0
Consider the reinforcement plate



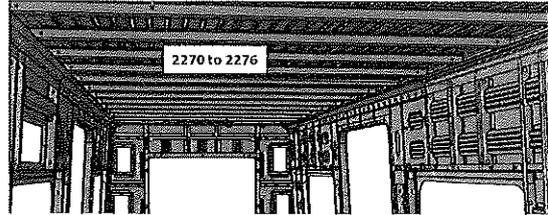
	CARBODYSHELL M3,M4 ASSEMBLY DTR30226487/3	Rev. 28	Project: PRASA SI.CB1 210.254.V30
		Date 07/11/2023	

CBS measurement

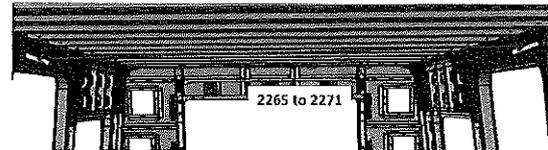
AFTER WELDING



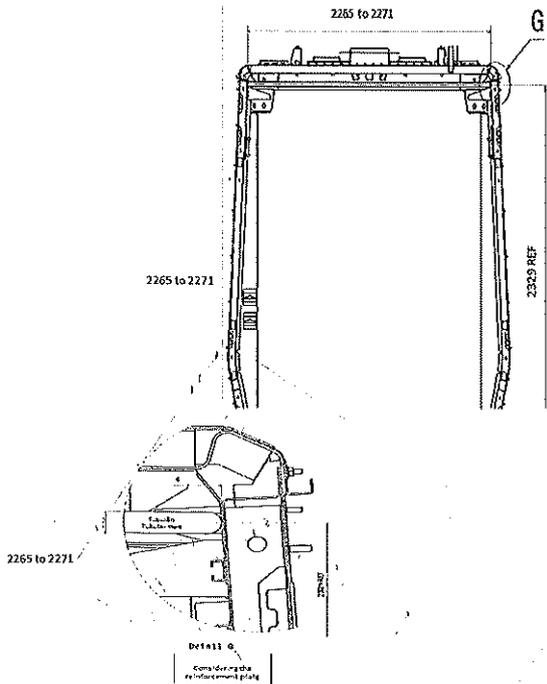
	2265 to 2271	2270 to 2276
A	2269	
B		2274
C	2265	
D	2268	
E		2270
F		2275
G	2265	
H	2268	
I		2275
J		2276
K	2270	
L	2269	
M		2274
N	2268	



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



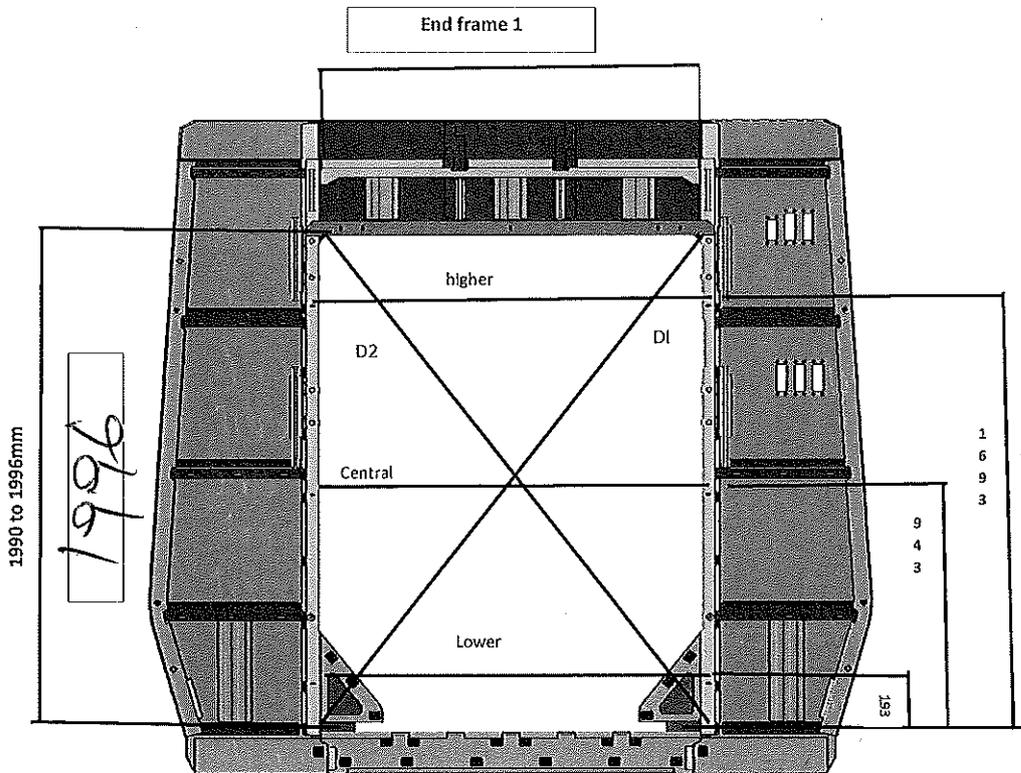
Take measurement close to radius (considering reinforcement)



Handwritten signature and date:
 499964
 21/06/24

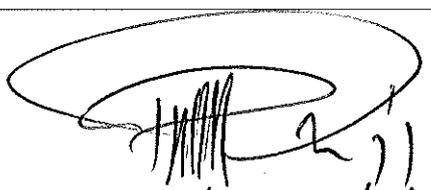
	CARBODYSHELL M3,M4 ASSEMBLY DTR30225487/3	Rev. 28	Project: PRASA SI.CB1210.254.V30
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		07/11/2023	

Specifications of Details for GBS measurement



1380 to 1382 mm DIAGONAL DIFFERENCE $D1-D2 \leq 3mm$

Higher Dimension	<input type="text" value="1581"/>	D1	<input type="text" value="2416"/>
Central Dimension	<input type="text" value="1381"/>	D2	<input type="text" value="2415"/>
Lower Dimension	<input type="text" value="1382"/>	D1-D2	<input type="text" value="1"/>


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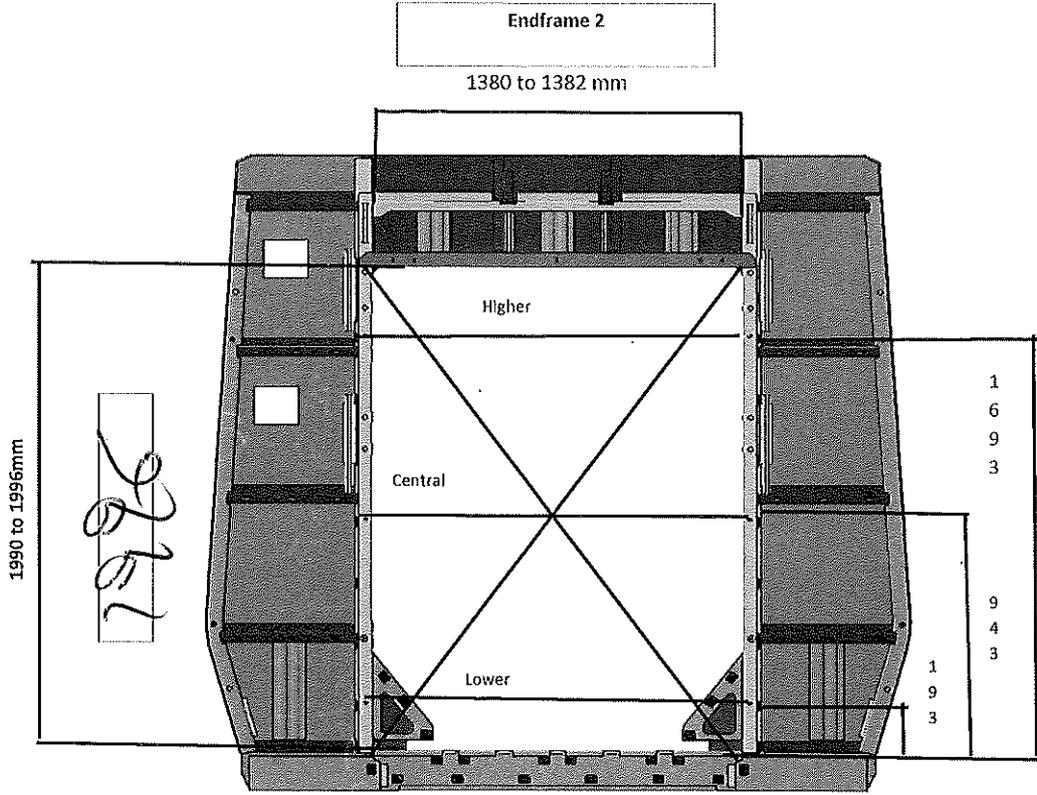


CARBODYSHELL M3,M4 ASSEMBLY DTR30225487/3

Rev. 28
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Project: PRASA
SI.CB1210.254.V30

Specifications of Details for CBS measurement



1380 to 1382 mm

DIAGONAL DIFFERENCE D1-D2 ≤ 3mm

Higher Dimension	1380	D1	2415
Central Dimension	1382	D2	2415
Lower Dimension	1381	D1-D2	0

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 21/06/23



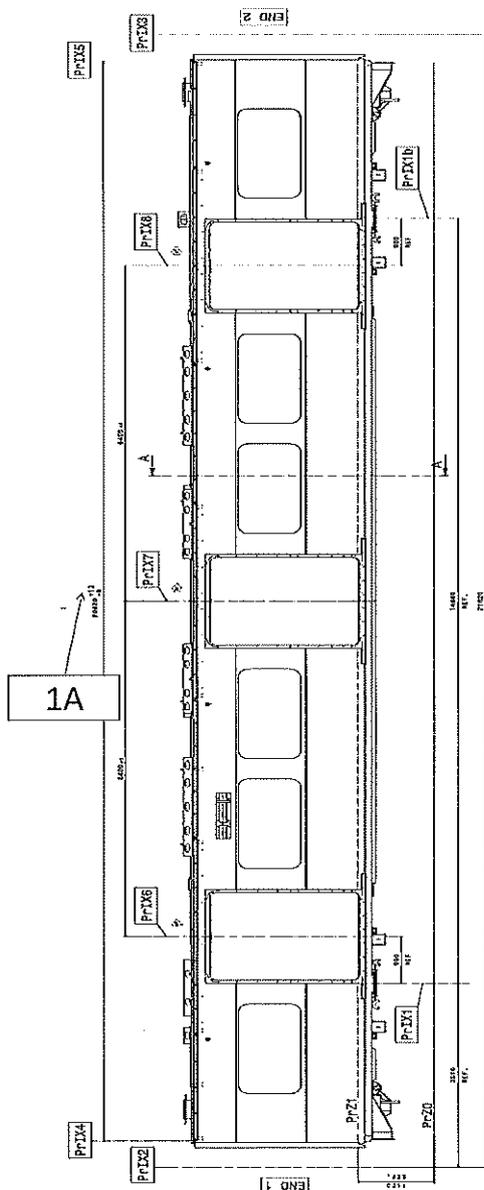


CARBODYSHELL M3,M4 ASSEMBLY DTR30225487/3

Rev.
28
Date
07/11/2023

Project: PRASA
SI.CB1210.254.V30

Specifications of Details for GBS measurement



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

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

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4999/60
01/06/23

Dye penetrant test

Dye-penetration test to be performed by quality personnel



	CARBODYSHELL M3,M4 ASSEMBLY DTR30226487/3	Rev. 28	Project: PRA5A SI.CB1210.254.V30
		Date 07/11/2023	

Self Inspection - Final Result

		DATE	NAME	SIGNATURE	
HOLD POINT	GO	(If activities are not complete, the missing activities must not impact the next stage)	21/06/24	P. MALATI <small>Operations</small>	
		Every auto inspection performed conforms to specification or in case of discrepancy the same is approved by the competent party.	21/06/24	AMOGELANG <small>Industrial Quality</small>	
	NO GO	There are activities pending that impact/stop the activities of the next process Obs: (To describe problems below)		<small>Operations</small>	
		There are non-conformities impact the quality of the product and there is no corrective action defined yet)		<small>Industrial Quality</small>	

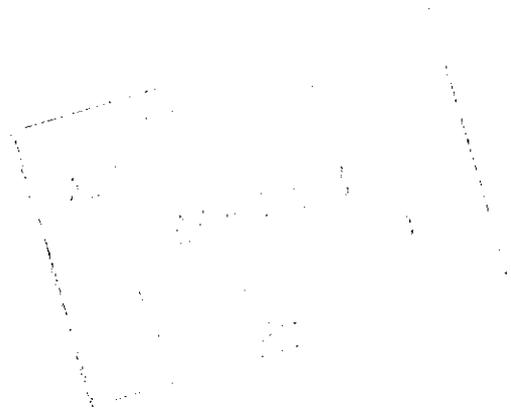
In case of "NO GO", describe blocking problems

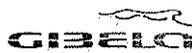
In case of "NO GO", the operations manager must define below action plan to ensure "GO":

Item	Description	Responsible	Due date	Status

Operations

Quality





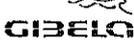
PRASA PROJECT



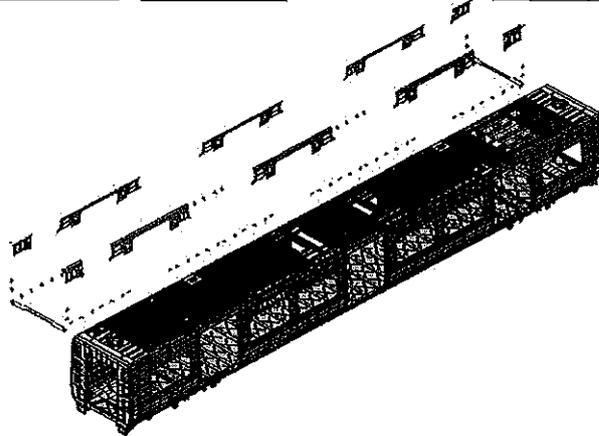
APPLICABLE FOR TRAINSET 100+ ONLY AS PER BASELINE 10.3.1
SELF INSPECTION SHEET

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?	
				TCL	PM	M1	M2	TCL			
<input type="checkbox"/>	DIR3022548/2	AAD0001278556	CAR BODY SHELL M1, M2, PM ASSEMBLY	CB2220		X	X		X	PRACB2220.DIR3022548 7/2.V21	YES
<input type="checkbox"/>											
<input type="checkbox"/>											
<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	Thangani 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		Remove		
					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					
					CHECKER	Bongane Masina	19/04/2021				
					REVISED BY	Bongane Masina					
21	17/08/2021	ADDED DIMENSIONS BEFORE WELDING			APPROVER	Mhombi Collins					
					CHECKER	Mpho Mulaudzi	17/08/2021				
					REVISED BY	Mpho Mulaudzi					
25	20/02/2022	New Baseline change 10.3.1			APPROVER	Collins Mhombhli					
					CHECKER	Andani Muthelo	19/02/2022				
					REVISED BY	Andani Muthelo					
26	14/06/2022	Update minimum temperature requirement for sealant application			APPROVER	Collins Mhombhli					
					CHECKER	Andani Muthelo	14/06/2022				
					REVISED BY	Andani Muthelo					
27	19/10/2022	Addition of traceability for sealant application & welding			APPROVER	Collins Mhombhli					
					CHECKER	Ntokozo Zwane	19/10/2022				
					REVISED BY	Amogelang Mohlampe					
28	14/04/2023	Added sealant batch number & welding consumables traceability			APPROVER	Vanessa Ntuli					
					CHECKER	Ntokozo Zwane	14/04/2023				
					REVISED BY	Amogelang Mohlampe					
29	28/10/2023	Addition of bracket quantity			APPROVER	Ngebani Tyson					
					CHECKER	Ntokozo Zwane	28/10/2023				
					REVISED BY	Amogelang Mohlampe					
TRAINSET	CAR	OPERATOR NAME & ALPS NO		DATE	SELF INSPECTION NUMBER		PAGES				
Ts 234	MD3	ASAMVA-409779		24-06-24	SI.CB2220.250.V29		13				

	CARBODYSHELL M1,M3,M4 ASSEMBLY DTR30225487/2	Rev.	Project: PRASA SI.CB2220.250.V29
		29	
		Date	

Car: M1,M3&M4	NCR:	Work station:	CB2220
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I - Documentation and Instruments Control

I.1 - Documentation Control

Document	Type of car					Revision	Observation	OK	Signature/Date (Manufacturing)	Signature/Date (Quality)
	U	M	M	M	M					
DTR30225487/2			X			29	28-10-2023	X	N/A	21-06-24

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	32203	15/10/2025	X	21-06-24	21/06/24
measuring tape	6152431	17/09/2025	X	21-06-24	21/06/24

1.3 Consumables

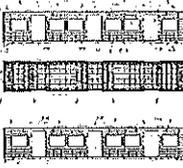
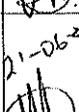
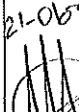
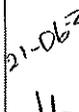
Welding Consumable Control - Used for Special Process

Filler Material	Heat Number	Welding Process	OK	Signature/Date (Manufacturing)	Signature/Date (Quality)
308	373774	MIG	X	21-06-24	21/06/24

[Faint handwritten notes and signatures at the bottom of the page]

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 CB2220.DTR30225487/2 Verification of fitment for all reinforcement brackets.	PRA CB2220.DTR30225487/2	✓	21-06-24 	 21/06/24
02	N/A	Carshell free of significant flaws which compromise the appearance or functionality	DTD0000210675	✓	21-06-24 	 21/06/24
03	REFER TO ANNEXURE A	Arc Welding inspected and approved according procedure.	IND-SAL-WMS-016 REFER TO GIB - TYPDEF - ARC - 0000	✓	21-06-24 	 21/06/24
04		Cleaning of all Stainless Steel Surface	According TO GIB-WEL - PROC-0002	✓	21-06-24 	 21/06/24
05		Functionals dimensions approved according drawing or complementary document approved by Alstom engineering and registered in this document.	Approved according specified on pages below.	✓	21-06-24 	 21/06/24
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 DTD0000210558.	As the welding procedure IND-SAL-WMS-018 and DTD0000210558.	✓	21-06-24 	 21/06/24
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 (%) Min Max 25% - 80%	Sealant Batch No: 15431 Exp Date: 10/25 Actuals Temperature: 11 Humidity: 58	✓	21-06-24 	 21/06/24
08	NA	Verification of sealant application in certain regions in the drawing.	AAD0001278566	✓	21-06-24 	 21/06/24
09		Verification of safety welds	Approved according to DTD000210658 reference and Self inspection	✓	21-06-24 	 21/06/24



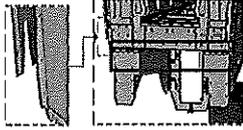
CARBODYSHELL M1,M3,M4 ASSEMBLY
DTR3022548712

Rev.
29
Date
29/10/2023

Project: PRASA
SI.CB2220.250.V29

II - Self Inspection - Items to Check

SEALANT APPLICATION



AREA 1 & 2 END 1

Operator (Name & sign):

Mt Vehozeris:

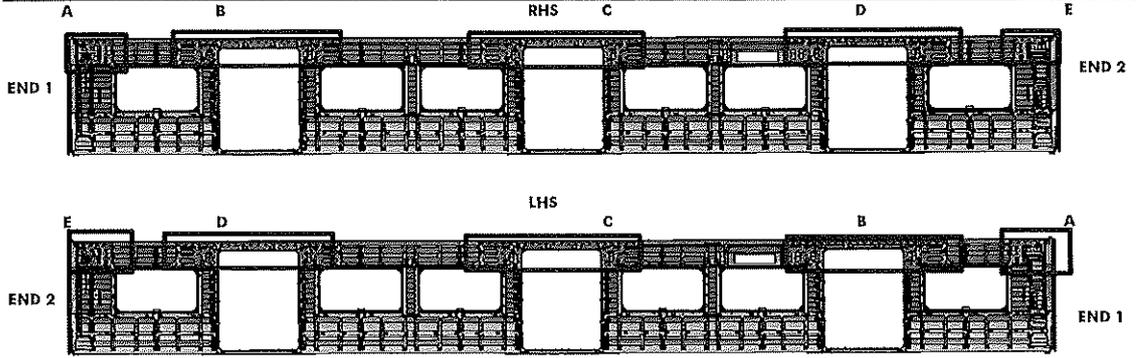
Operator (Name & sign):

Mt Vehozeris:

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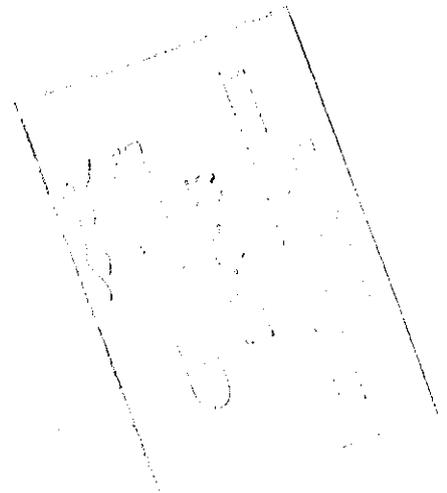
	CARBODYSHELL M1,M3,M4 ASSEMBLY DTR30226487/2	Rev.	Project: PRASA SI.CB2220.250.V29
		29	
		Date	
		28/10/2023	

II - Self Inspection - Items to Check



REINFORCEMENT WELDING

AREA	LHS	RHS
A	Operator (Name&sign): <u>[Signature]</u>	<u>[Signature]</u>
B	Operator (Name&sign): <u>[Signature]</u>	<u>[Signature]</u>
C	Operator (Name&sign): <u>[Signature]</u>	<u>[Signature]</u>
D	Operator (Name&sign): <u>[Signature]</u>	<u>[Signature]</u>
E	Operator (Name&sign): <u>[Signature]</u>	<u>[Signature]</u>



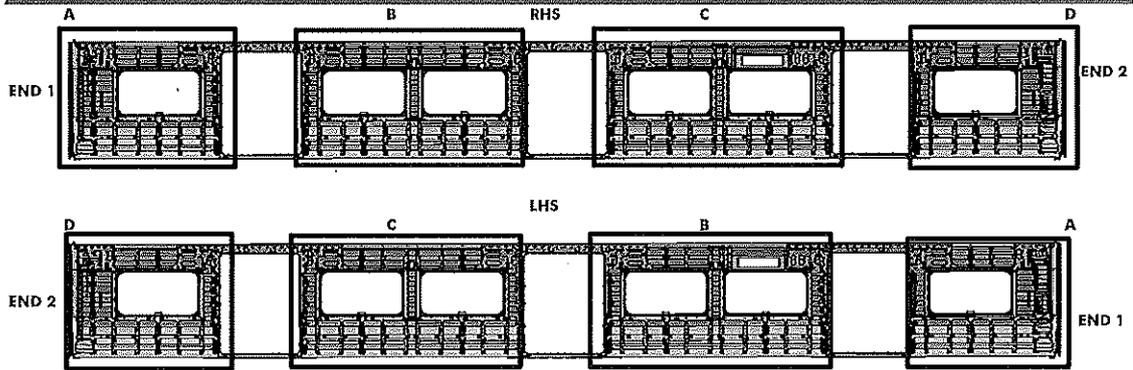


CARBODYSHELL M1,M3,M4 ASSEMBLY
DTR30225487/2

Rev.
29
Date
28/10/2023

Project: PRASA
SI.CB2220.250.V29

II - Self Inspection - Items to Check



BRACKETING

		INSTALLATION	
C-RAILS:	Operator:	<u>Methochaisu MR</u>	
	Operator:	_____	
DOOR MECHANISMS:	Operator:	<u>Methochaisu MR</u>	
	Operator:	_____	
TAPPING PADS	Operator:	<u>LINDO @ END1</u>	
	Operator:	<u>[Signature]</u>	
		INSTALLATION & VERIFICATION	
SEAT & LUGGAGE BRACKETS:	Operator:	<u>AGARINA [Signature]</u>	
	Operator:	_____	
SEAT BRACKETS VERIFICATION:	Operator:	<u>AGARINA [Signature]</u>	
	Operator:	_____	
		WELDING	
AREA	LHS		RHS
A (Seat brackets)	: Operator (Name&sign):	<u>LINDO @</u>	<u>LINDO @</u>
(C-rails, Luggage and earth bushes)	: Operator (Name&sign):	<u>LINDO @</u>	<u>LINDO @</u>
B (Seat brackets)	: Operator (Name&sign):	<u>LINDO @ / Mmasriwala</u>	<u>LINDO @ / Mmasriwala</u>
(C-rails, Luggage and earth bushes)	: Operator (Name&sign):	<u>Mmasriwala</u>	<u>Mmasriwala</u>
C (Seat brackets)	: Operator (Name&sign):	<u>Mmasriwala</u>	<u>Mmasriwala</u>
(C-rails, Luggage and earth bushes)	: Operator (Name&sign):	<u>Mmasriwala</u>	<u>Mmasriwala</u>
D (Seat brackets)	Operator (Name&sign):	<u>[Signature]</u>	<u>[Signature]</u>
(C-rails, Luggage and earth bushes)	: Operator (Name&sign):	<u>[Signature]</u>	<u>[Signature]</u>
ENDS			
END 1 TAPPING PADS WELDING:	Operator (Name&sign):	<u>LINDO @</u>	
END 2 TAPPING PADS WELDING:	Operator (Name&sign):	<u>[Signature]</u>	



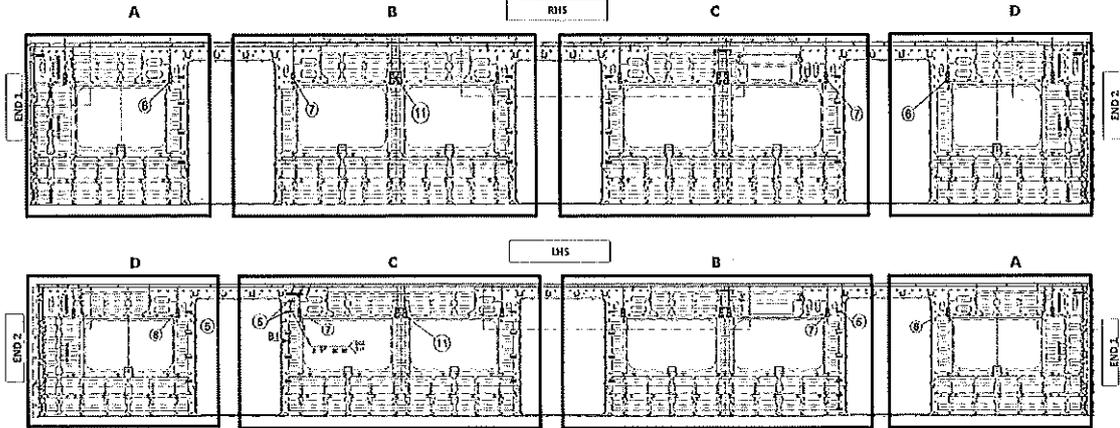
CARBODYSHELL M1,M3,M4 ASSEMBLY
DTR30226487/2

Rev.
29
Date
28/10/2023

Project: PRASA
SI.CB2220.250.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: *ASANDA*

LHS				
	SECTION	QUANTITY	OK	NOK
C-RAILS	A	2	/	
	B	8	/	
	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: *ASANDA*

QUANTITIES (M1)

RHS				
	SECTION	QUANTITY	OK	NOK
C-RAILS	A	7		
	B	6		
	C	8		
	D	8		
SEAT BRACKETS	A	13		
	B	21		
	C	21		
	D	13		
EARTH BUSH	A	2		
	B	4		
	C	5		
	D	3		

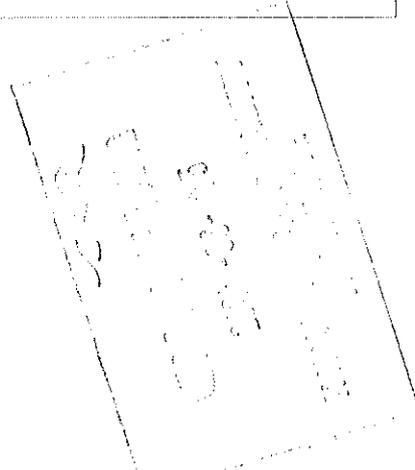
ROOF ENDS:
 CRAILS 2 OFF EACH END
 EARTH BUSH 6 OFF EACH END

VERIFICATION BY: _____

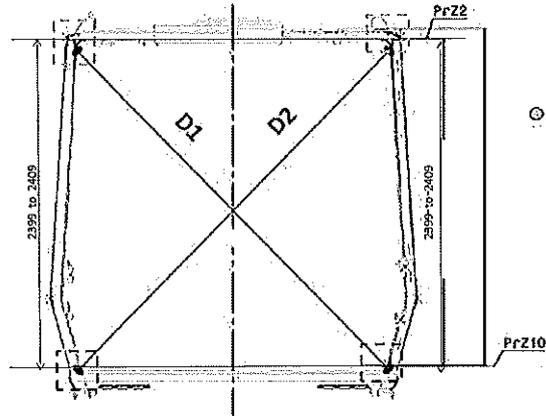
LHS				
	SECTION	QUANTITY	OK	NOK
C-RAILS	A	2		
	B	10		
	C	11		
	D	6		
SEAT BRACKETS	A	13		
	B	21		
	C	21		
	D	13		
EARTH BUSH	A	3		
	B	7		
	C	6		
	D	2		

ROOF ENDS:
 CRAILS 2 OFF EACH END
 EARTH BUSH 6 OFF EACH END

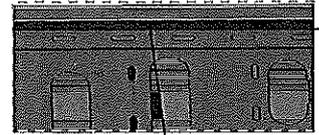
VERIFICATION BY: _____



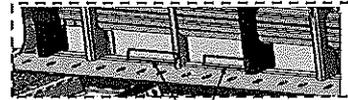
Specifications of Details for CBS measurement



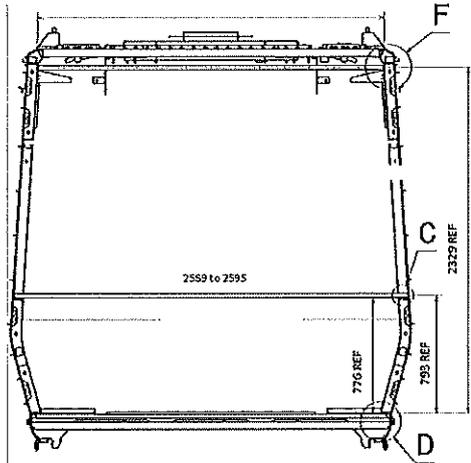
Measurement positions on roof rail and sidewall omega corner.



Reinforcement area measurement positions on roof reinforcement area.



Measurement positions on sidewall and side sill corner.



[Handwritten notes and signatures]

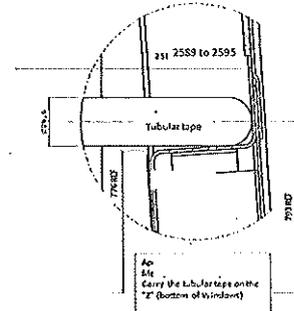
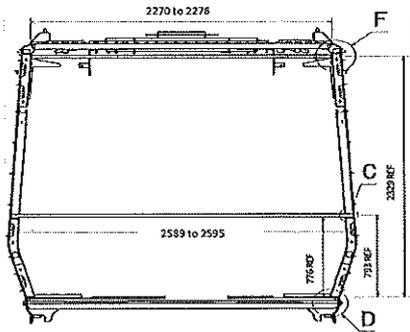


CARBODYSHELL M1,M3,M4 ASSEMBLY
DTR30226487/2

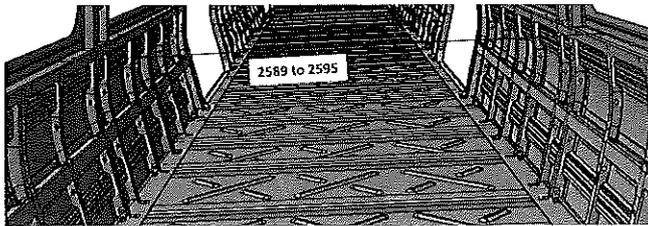
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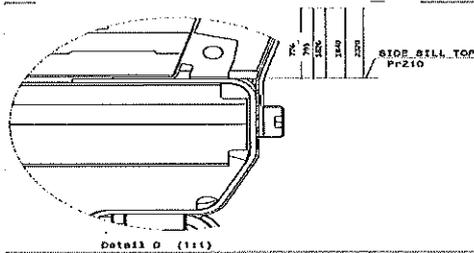
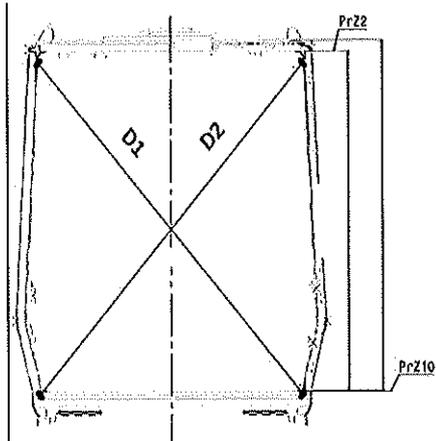
CBS measurement



Detail C

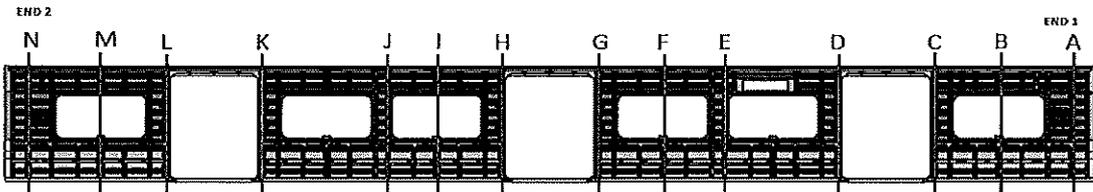


Take measurement close to radius



Detail D (1:1)





BEFORE WELDING

	Record D1 values	Record D2 values	D1-D2 ≤ 5mm	2589 to 2595
A	3295	3297	2	—
B	3263	3264	1	—
C	3294	3293	1	—
D	3293	3295	2	—
E	3263	3261	2	—
F	3269	3261	3	—
G	3298	3295	3	—
H	3295	3295	0	—
I	3264	3261	3	—
J	3265	3264	1	—
K	3295	3295	0	—
L	3295	3295	0	—
M	3266	3264	2	—
N	3293	3294	1	—


21-06-24



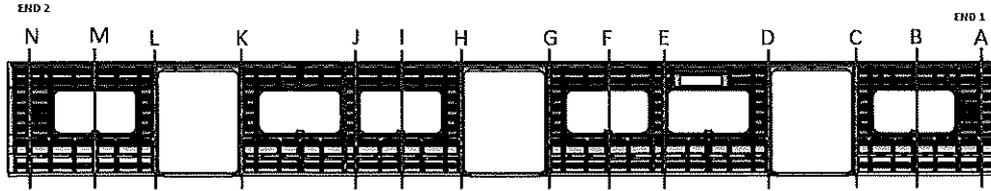


CARBODYSHELL M1,M3,M4 ASSEMBLY
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29
Date
28/10/2023

Project: PRASA
SI.CB2220.250.V29

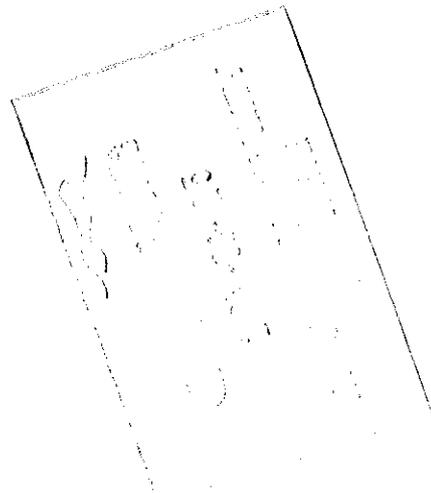
CBS measurement



AFTER WELDING

	Record D1 values	Record D2 values	D1-D2 ≤ 5mm	2589 to 2595
A	3297	3291	6	2595
B	3265	3264	1	2589
C	3216	3212	4	2589
D	3216	3213	3	2594
E	3266	3263	3	2594
F	3266	3262	4	2592
G	3300	3293	7	2593
H	3298	3291	7	2593
I	3266	3262	4	2595
J	3269	3269	5	2596
K	3293	3300	7	2592
L	3277	3297	0	2594
M	3266	3261	5	2590
N	3296	3292	4	2595

21-06-24

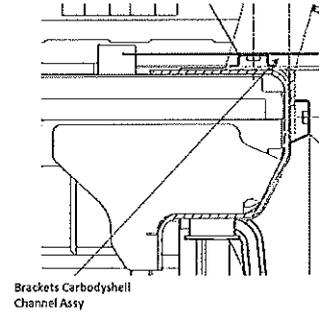
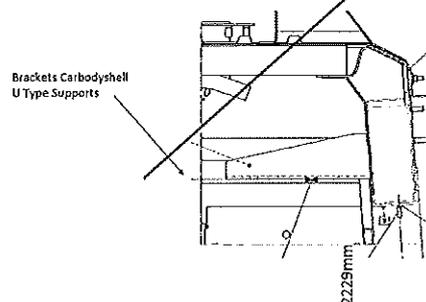
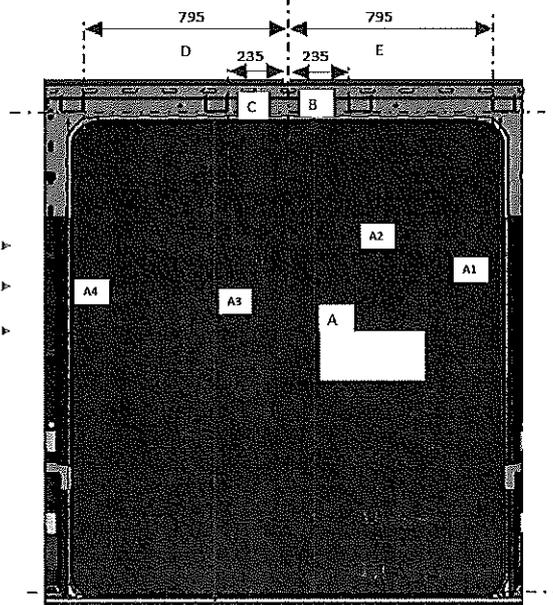




CARBODYSHELL M1,M3,M4 ASSEMBLY
DTR30226487/2

Rev. 29 Project: PRASA
Date 28/10/2023 SI.CB2220.250.V29

Specifications of Details for CBS measurement CB1220



DOOR 1 - LHS

	VALUE	ACTUAL
A1	2230 to 2232	2232
A2	2230 to 2232	2231
A3	2230 to 2232	2232
A4	2230 to 2232	2232
B	234 to 236	235
C	234 to 236	235
D	794 to 796	794
E	794 to 796	795

DOOR 2 - LHS

	VALUE	ACTUAL
A1	2230 to 2232	2232
A2	2230 to 2232	2231
A3	2230 to 2232	2232
A4	2230 to 2232	2231
B	234 to 236	235
C	234 to 236	235
D	794 to 796	795
E	794 to 796	795

DOOR 2 - RHS

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

DOOR 1 - RHS

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

DOOR 2 - RHS

	VALUE	ACTUAL
A1	2230 to 2232	2232
A2	2230 to 2232	2232
A3	2230 to 2232	2232
A4	2230 to 2232	2231
B	234 to 236	235
C	234 to 236	235
D	794 to 796	795
E	794 to 796	795

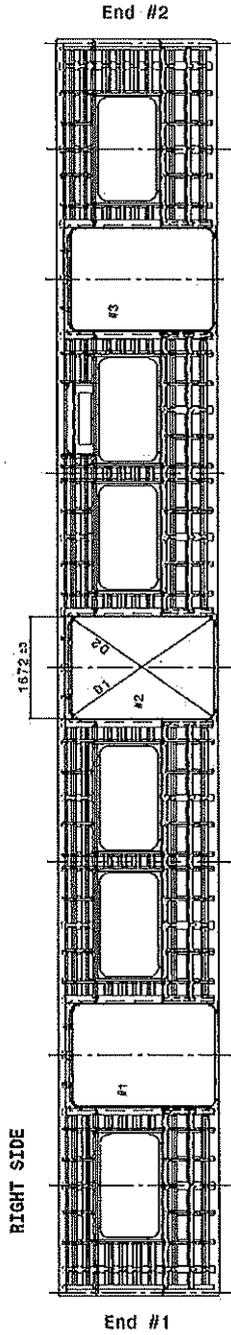
DOOR 3 - RHS

	VALUE	ACTUAL
A1	2230 to 2232	2232
A2	2230 to 2232	2232
A3	2230 to 2232	2231
A4	2230 to 2232	2232
B	234 to 236	235
C	234 to 236	235
D	794 to 796	795
E	794 to 796	796

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21-06-24

[Handwritten notes and stamps]
87-00-1-1-1
87-00-1-1-1

Specifications of Details for CBS measurement CB1220

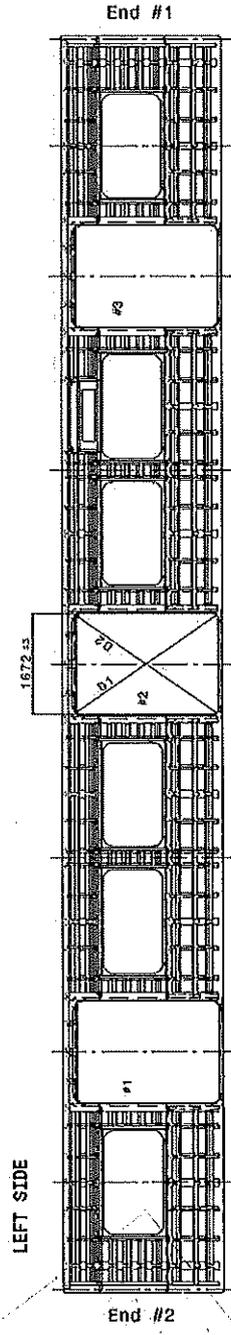


Doors diagonal D1-D2 maximum difference ≤4mm

#1	#2	#3
D1	2746	2746
D2	2744	2745
D1-D2	2	1

Doors Length - 1672 ±3mm

#1	#2	#3
HIGHER DIMENSION	1674	1674
CENTRAL DIMENSION	1673	1673
LOWER DIMENSION	1672	1672



Doors diagonal D1-D2 maximum difference ≤4mm

#1	#2	#3
D1	2747	2745
D2	2745	2748
D1-D2	2	3

Doors Length - 1672 ±3mm

#1	#2	#3
HIGHER DIMENSION	1674	1674
CENTRAL DIMENSION	1673	1673
LOWER DIMENSION	1671	1671

(Handwritten signature)
21-06-24

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CARBODYSHELL M1,M3,M4 ASSEMBLY
DTR30225487/2

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SI.CB2220.250.V29

CBS measurement (Manufacturing)

Dye penetrant test

Dye-penetration test to be performed by quality personnel



Item	Description of the Issue	OK	Signature/Date (Manufacturing)	Signature/Date (Quality)

II.2 - Check List REX

Check List Items

Item	Picture/Drawing	Description	Criteria/Record	OK	Signature/Date (Manufacturing)	Signature/Date (Quality)
01	N/A	To complete REX	Refer to REX. New defects must be added on the REX			

[Faint, illegible handwritten notes or stamps]

	CARBODYSHELL M1,M3,M4 ASSEMBLY DTR30225487/2	Rev.	Project: PRASA SI.CB2220.250.V29
		29	
		Date	
		28/10/2023	

Self Inspection - Final Result

Is the car good to advance to the next workstation/process? (Approval of Operations Manager and Industrial Quality)			DATE	NAME	SIGNATURE	
HOLD POINT	GO	(If activities are not complete, the missing activities must not impact the next stage)	21-06-24	ASA-IDA Operations		
		Every auto inspection performed conforms to specification or in case of discrepancy the same is approved by the competent party.)	21/06/24	Ntokoza 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	

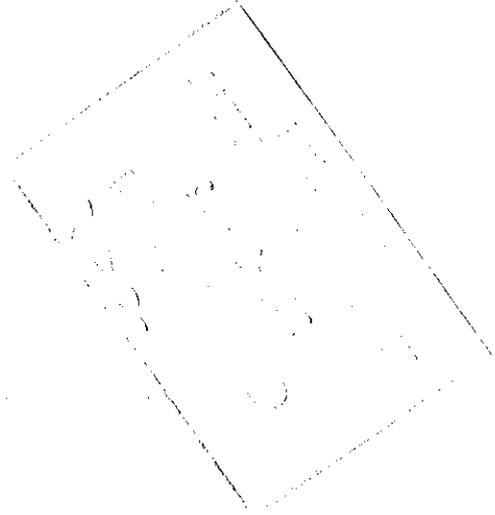
In case of "NO GO", describe blocking problems

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

Item	Description	Responsible	Due date	Status

Operations

Quality



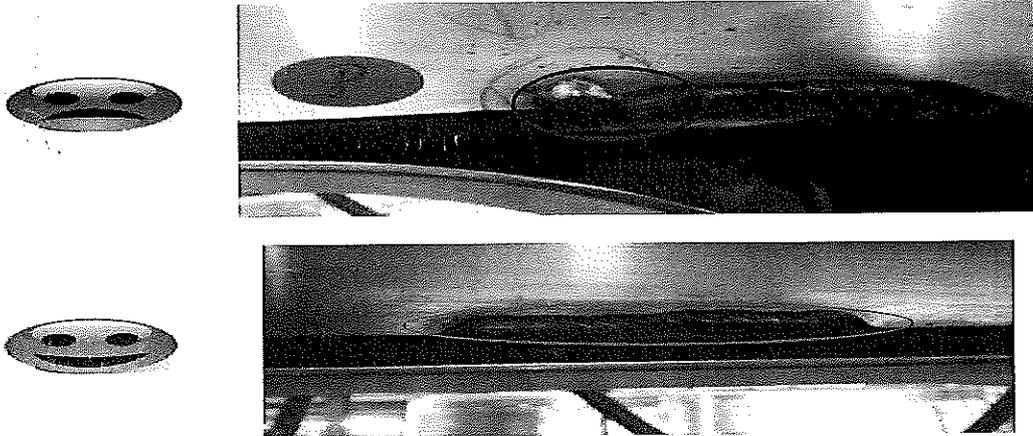


CARBODYSHELL M1,M3,M4 ASSEMBLY
DTR30225487/2

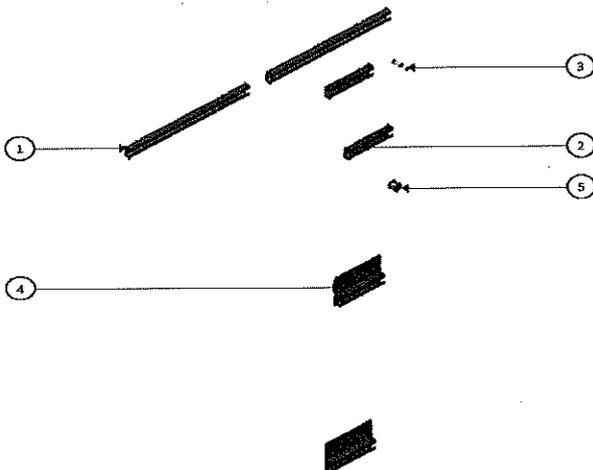
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SI.CB2220.250.V29

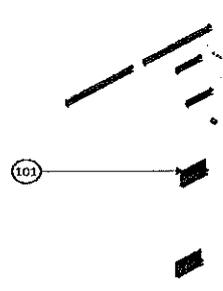
ANNEXURE A: Arc Welding Quality Acceptance Standard

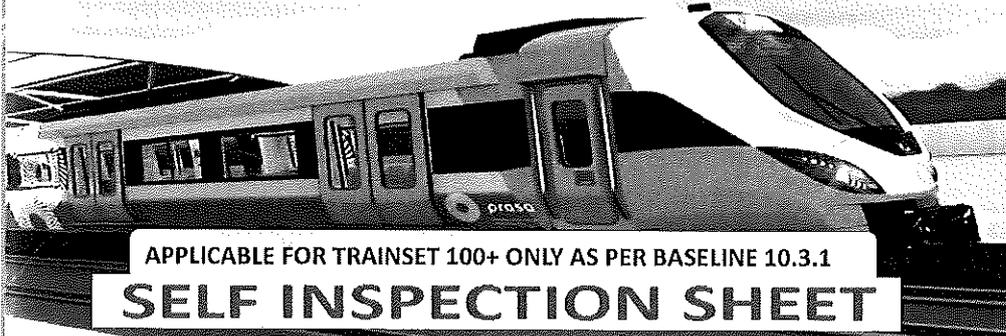


Station: CB1220-004- U108 & U107



PART NO.	ITEM NO.	QTY	DESCRIPTION	MASS (KG)
DTR0020074003	5	6	EARTH STUD 6	0.096
AAC0001201848	4	6	ASSEMBLY SUPPORT	0.271
DTF0000343305	3	12	WELDING STUD 40x13916 FT - A5620 - SST	0.007
AAC0001160421	2	12	ASSEMBLY SUPPORT	0.193
AAC0001184416	1	14	ASSEMBLY SUPPORT	0.522
AAC0001161080	101	6	CARBODYSHELL BRACKETS CARBODYSHELL M1/M3/M4 CAR(SIDE FRAME MODULE END - OP)	12.132





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.

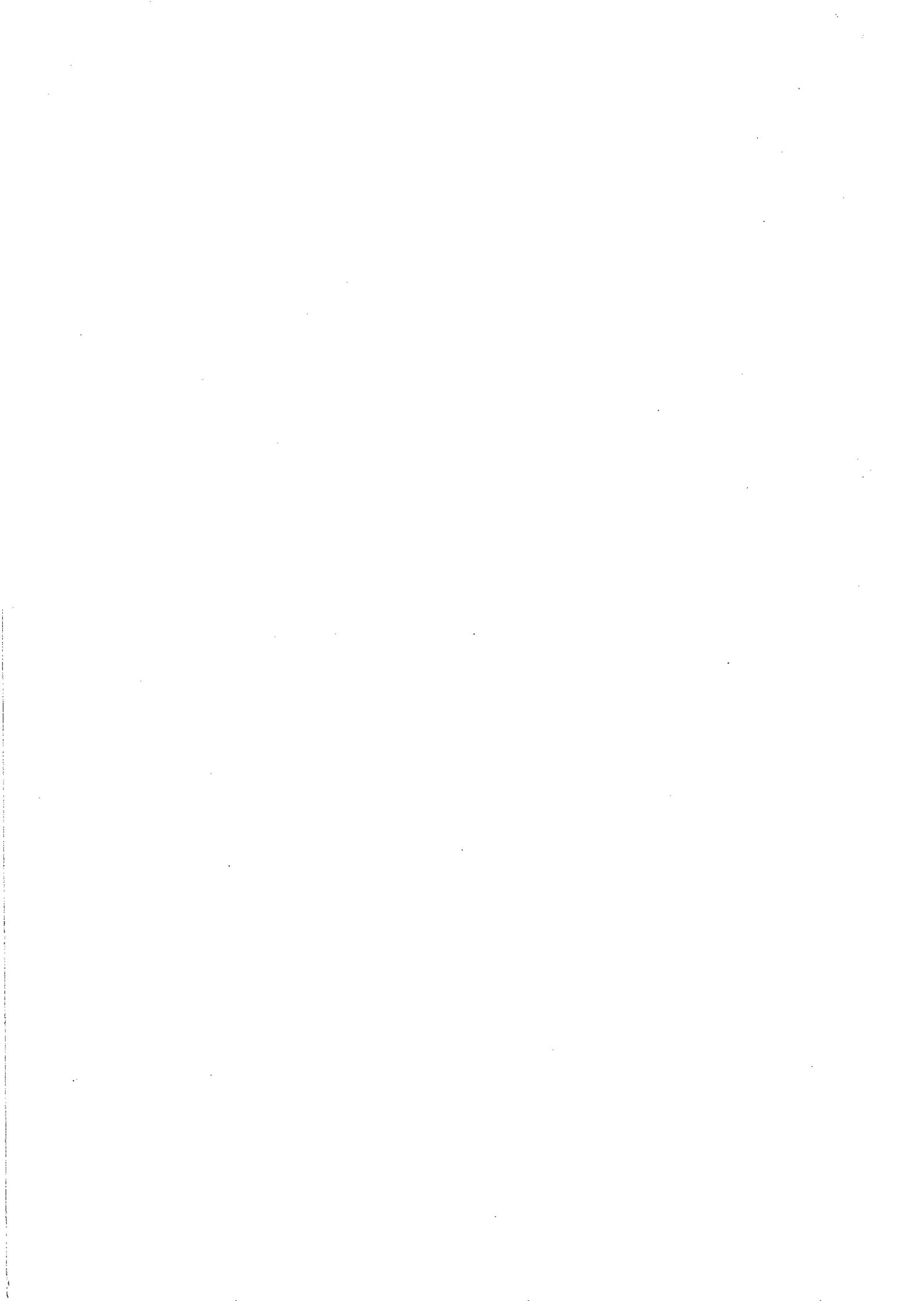
APPLICATION REFERENCE

MOUNTING	DRAWING	DESCRIPTION	STATION	CAR TYPE						WORK INSTRUCTION	SAFETY ?	
				TC1	M4	M1	M2	M3	TC2			
<input type="checkbox"/>	DT00000225487	AAD0001278565	CARBODYSHELL M1, M3, M4 ASSEMBLY	CB1230		X	X		X		PRA.CB1230.DT000002 25487.V20	YES
<input type="checkbox"/>												
<input type="checkbox"/>												

	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
11	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 Mbhombhii	20/02/2022
			CHECKER	Andani Muthelo	
			REVISED BY	Andani Muthelo	
26	14/06/2022	Update minimum temperature requirement for sealant application	APPROVER	Collins Mbhombhii	14/06/2022
			CHECKER	Andani Muthelo	
			REVISED BY	Andani Muthelo	
27	19/10/2022	Addition of traceability for sealant application	APPROVER	Collins Mbhombhii	19/10/2022
			CHECKER	Ntokozo Zwane	
			REVISED BY	Amogelang Mohlampe	
28	14/04/2023	Added sealant batch number & welding consumables traceability	APPROVER	Vanessa Ntuli	14/04/2023
			CHECKER	Ntokozo Zwane	
			REVISED BY	Amogelang Mohlampe	
29	06/11/2023	Added thresholds traceability for boiler makers and welders	APPROVER	Tyson Ngobeni	06/11/2023
			CHECKER	Andani Muthelo	
			REVISED BY	Ntokozo Zwane	

TRAINSET	CAR	OPERATOR NAME & ALPS NO	DATE	SELF INSPECTION NUMBER	PAGES
23A	M3	482774 Zonete	24/06/24	SI.CB1230.256.V28	11







CARBODYSHELL M1,M3,M4 ASSEMBLY
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29
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06/11/2023

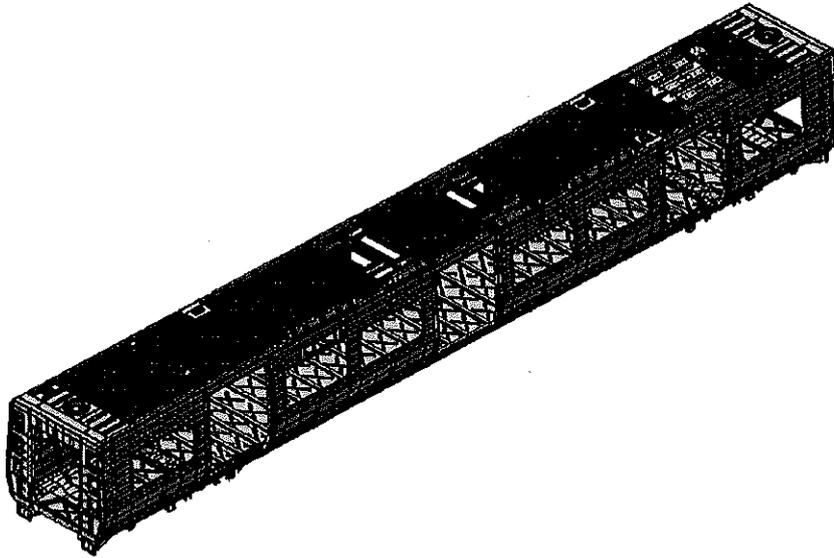
Project: PRASA
SI.CB1230.256.V28

Car: _____ NCR: _____

Work station: CB1230



Safety Related



I - Documentation and Instruments Control

I.1 - Documentation Control

Document	Type of car					Revision	Obseavllon	OK	NOK	Rework	Signature/Date (Operations)	Signature/Date (Quality)
	M1	M2	M3	M4	TC2							
PRA.CB1230.DT00000225487						09		X		N/A	[Signature]	24/06/24

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)
THERMOCOUPL	918679	28/06/25	X		[Signature]	24/06/24
TUBULAR	22713	28/06/25	X		[Signature]	24/06/24
COMBINATION SQUARE	918 0072	27/07/24	X		[Signature]	24/06/24

1.3 Consumables

Welding Consumable Control - Used for Special Process

Filler Material	Heat Number	Welding Process	OK	NOK	Signature/Date (Manufacturing)	Signature/Date (Quality)
ER308 CSI	313779	MIG	X		[Signature]	24/06/24



CARBODYSHELL M1,M3,M4 ASSEMBLY
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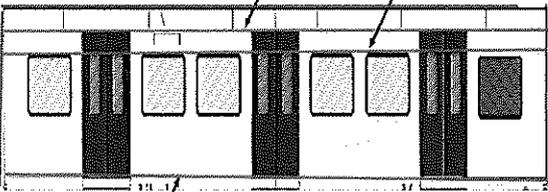
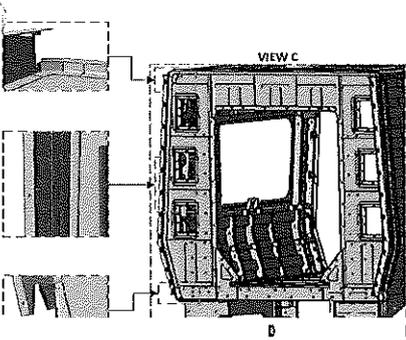
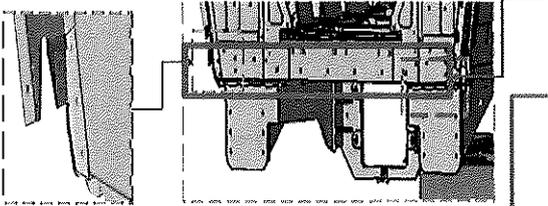
Project: PRASA
SI.CB1230.256.V28

II - Self Inspection - Items to Check

II.1 - Items to check

Item	Picture/Drawing	Description	Acceptance criteria / Record	OK	NOK	Re-work	Signature/Date (Operations)	Signature/Date (Quality)
01	N/A	Assembly according to Instruction Engineering nº PRA.CB1230.DT00000225487 Verification of fitment for all brackets.	PRA.CB1230.DT00000225487	X			24/06/24	24/06/24
02	N/A	Carshell free of significant flaws which compromise the appearance or functionality	DTD0000210675	X			24/06/24	24/06/24
03	REFER TO ANNEXURE A	Arc Welding inspected and approved according procedure.	IND-SAL-WMS-016 REFER TO GIB - TYPDEF - ARC - 0000	X			24/06/24	24/06/24
04		Cleaning of all Stainless Steel Surface	According TO GIB-WEL - PROC-0002	X			24/06/24	24/06/24
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			24/06/24	24/06/24
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			24/06/24	24/06/24
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 (1) Min-Max 10°C - 35°C Relative humidity Min - Max (1) Min-Max 25% - 80%	Sealant Batch No: <u>B9321-10/24</u> Exp Date: <u>01/02/24</u> Actuals Temperature: <u>18°C</u> Humidity: <u>39%</u>	X			24/06/24	24/06/24
08	N/A	Verification of sealant application in regions of roof and sideframe.	Sealant applied in regions of roof and sideframe.	X			24/06/24	24/06/24

AREA 1



END 2 SEALANT

OPERATOR
(Name & sign):

Lerabo

OPERATOR
(Name & sign):

Lerabo

OPERATOR
(Name & sign):

Lerabo

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

Operator (Name & sign):

LHS
DE, F, G, H, I

RHS

Buhle

Operator (Name & sign):

Buhle

Operator (Name & sign):

~~Abigale~~

||

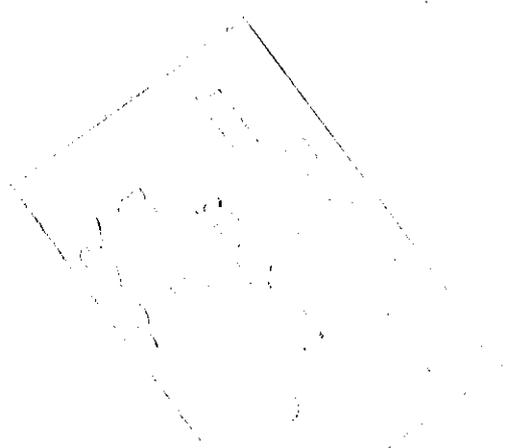
Operator (Name & sign):

Abhlanke

||

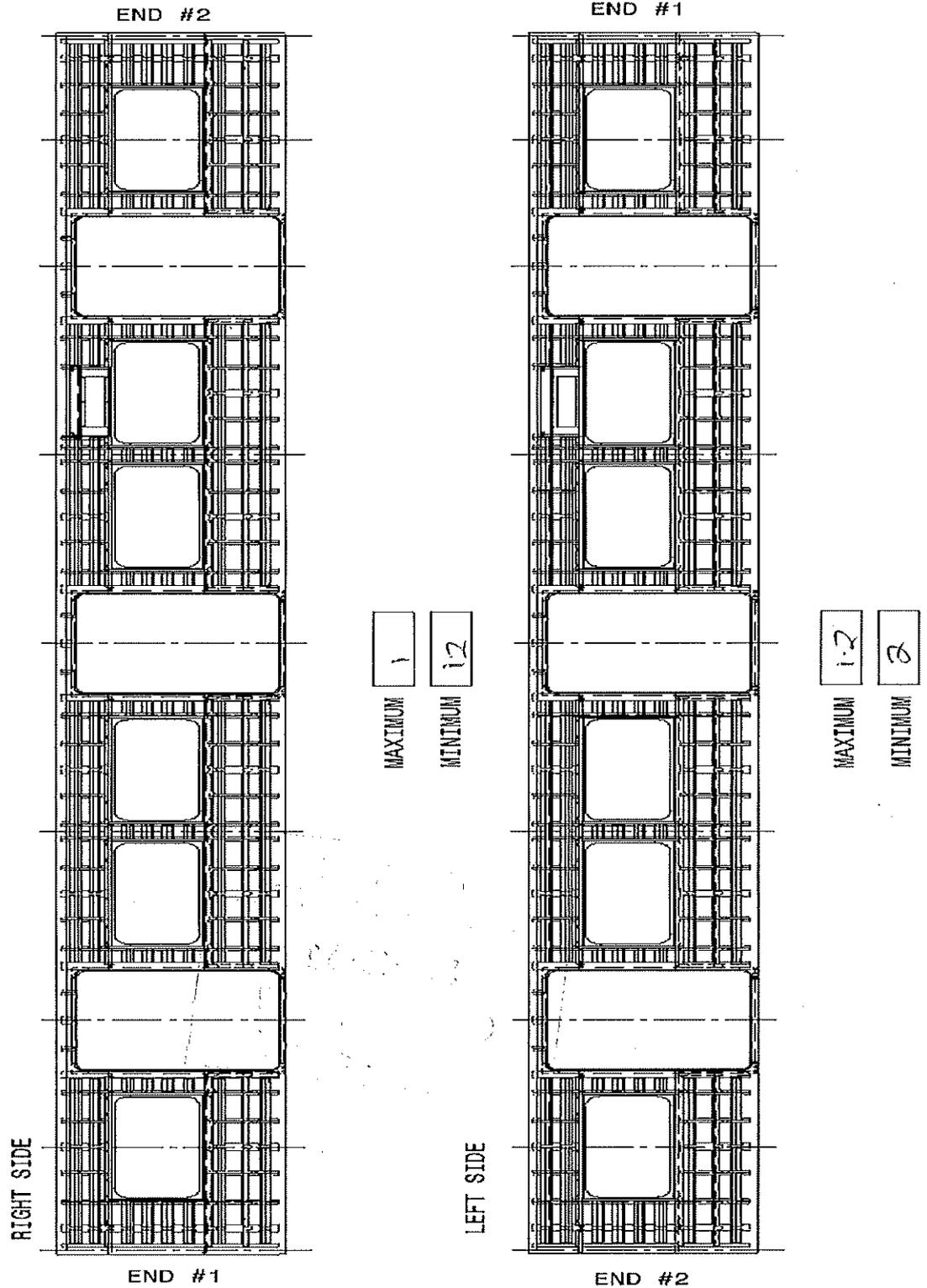
Operator (Name & sign):

Operator (Name & sign):



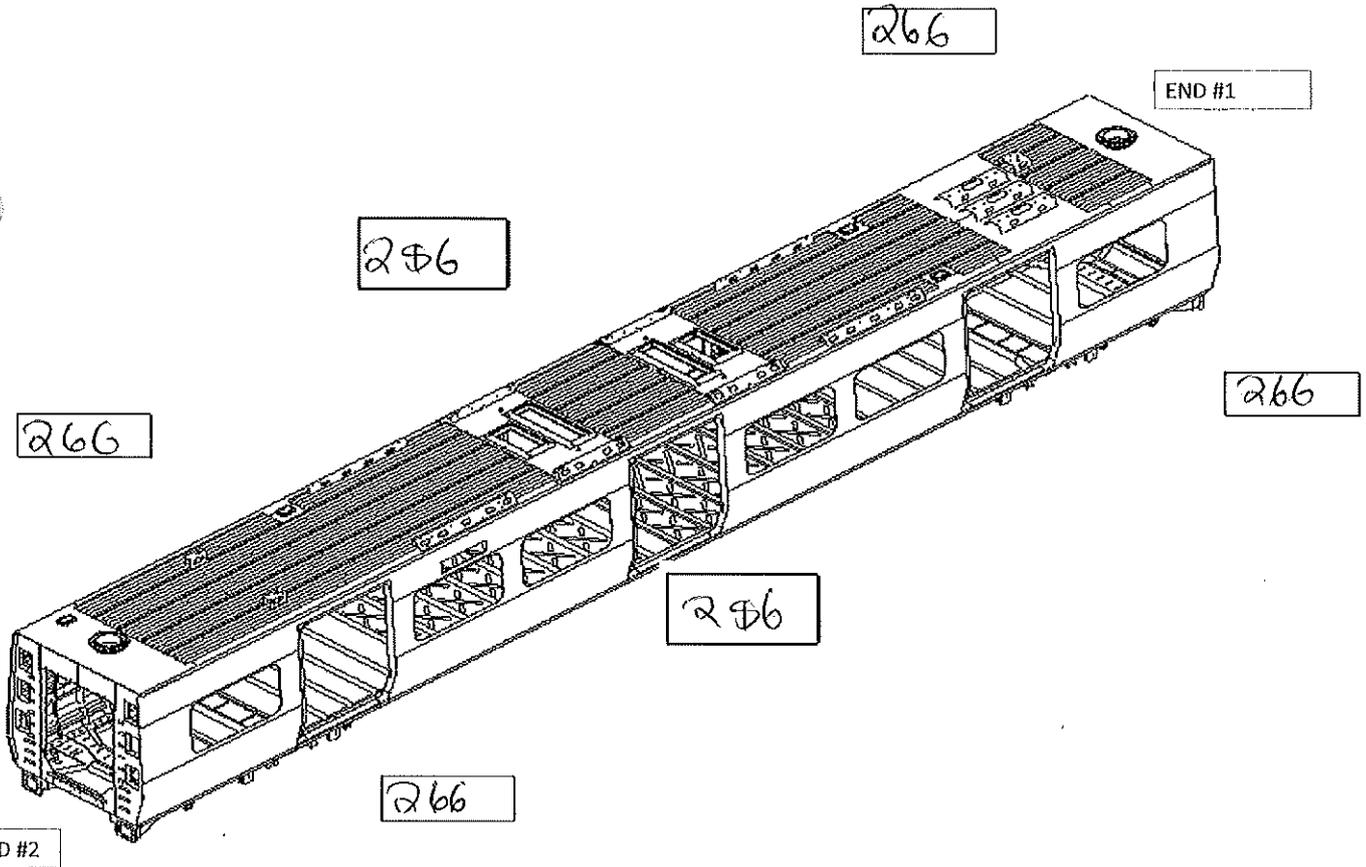
Specifications of Details for CBS measurement CB1230

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.



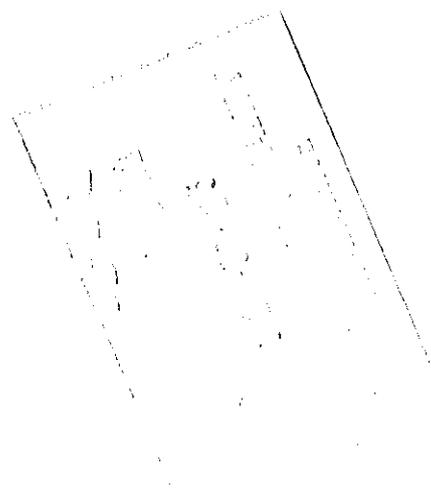
Specifications of Details for CBS measurement CB1230

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



MEASURED CAMBER VALUES

RIGHT	¹	20
LEFT	^{a1}	20





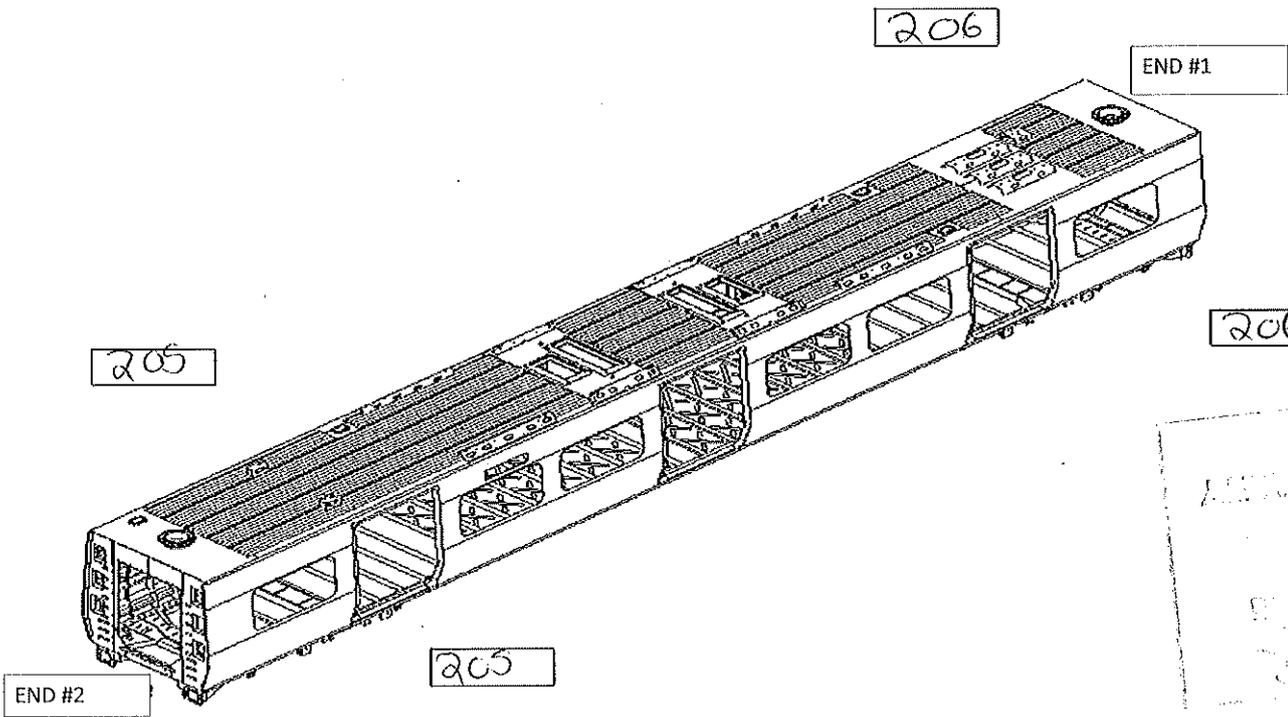
CARBODYSHELL M1,M3,M4 ASSEMBLY
DT00000225487

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29
Date
06/11/2023

Project: PRASA
SI.CB1230.256.V28

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.



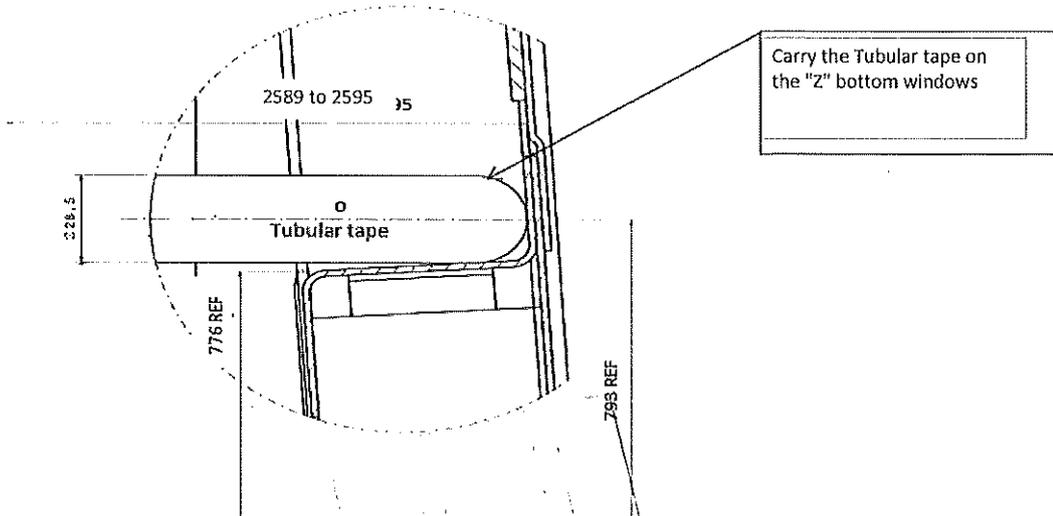
TWIST FOUND ON END 1

TRANVERS
LONGITUDIN

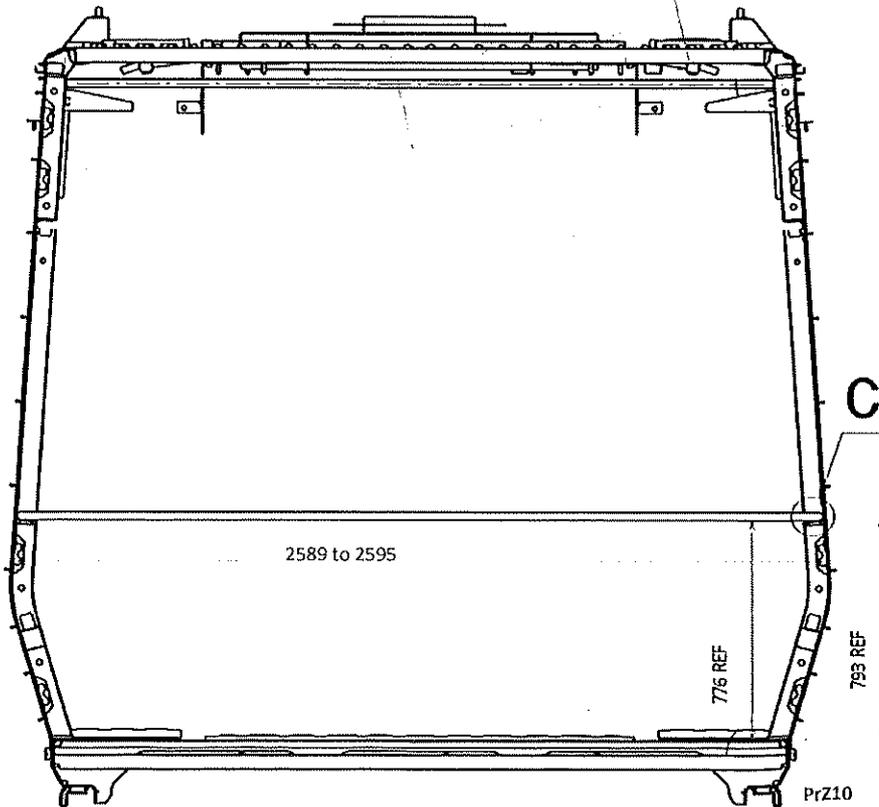
TWIST FOUND ON END 2

TRANVERSE
LONGITUDINAL

Specifications of Details for CBS measurement CB1230



Detail C



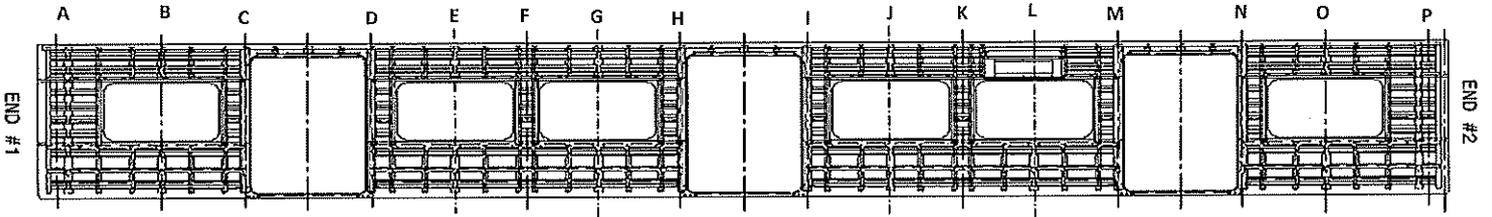


CARBODYSHELL M1,M3,M4 ASSEMBLY
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06/11/2023

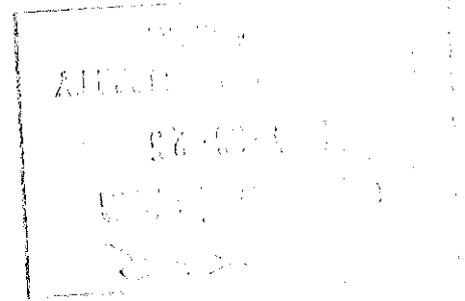
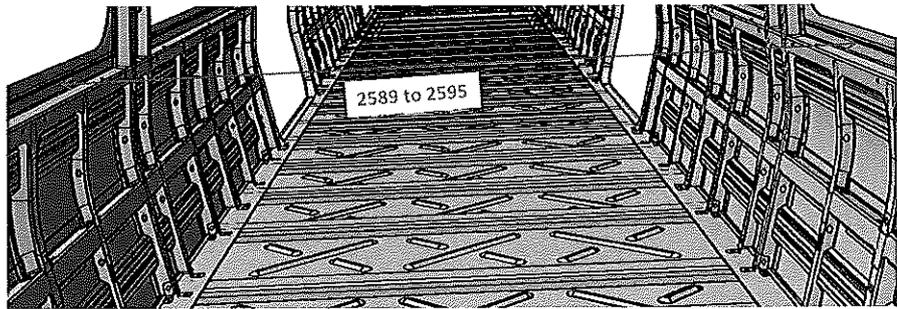
Project: PRASA
SI.CB1230.256.V28

Specifications of Details for CBS measurement CB1230



2589 to 2595mm

A	2595
B	2593
C	2590
D	2594
E	2593
F	2592
G	2593
H	2592
I	2593
J	2594
K	2590
L	2591
M	2589
N	2593
O	2594
P	2592



Threshold verification						Nominal value :38	
Door 1		Door 2		Door 3			
L	R	L	R	L	R		
39	38	39	38	39	38		
Door 4		Door 5		Door 6			
L	R	L	R	L	R		
39	39	38	38	39	38		

BOILER MAKER: *Koobes*
Welder: *Zanele du*



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)	24/06/24	Zanete Operations		
		Every auto inspection performed conforms to specification or in case of discrepancy the same is approved by the competent party.)	24/06/24	Andani Industrial Quality		
	NO GO	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

