



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

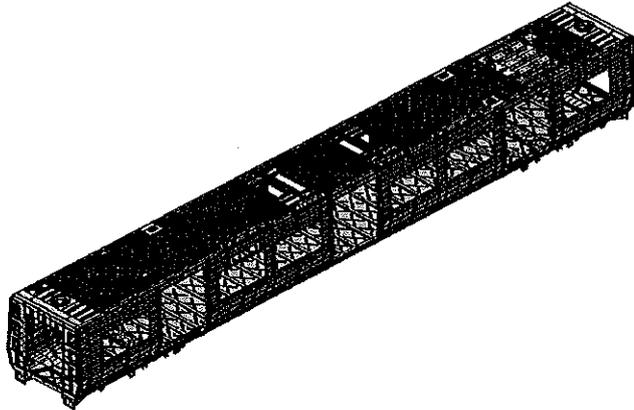
MOUNTING	DRAWING	DESCRIPTION	STATION	CAR TYPE						WORK INSTRUCTION	SAFETY?	
				TCA	M4	M4	M4	M4	TCA			
<input type="checkbox"/>	DIR3000152644	AAD0001278566	CARBODYSHELL M3,M4 ASSEMBLY	CB1210		X			X		PRA.CB1210.DTR30225 487/3.V30	YES
<input type="checkbox"/>												

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
230	M3	WNCB 471497	28/05/24	SI.CB1210.254.V30	17

	CARBODYSHELL M3,M4 ASSEMBLY DTR30225487/3	Rev. 31	Project: PRASA SI.CB1210.254.V30
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Car: M3 & M4	NCR:	Work station: CB1210
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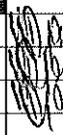
I - Documentation and Instruments Control

I.1 - Documentation Control

Document	Type of car						Revision	Observation	OK	Signature/Date (Manufacturing)	Signature/Date (Quality)
	D	M	M	S	M	D					
DTR30225487/3				X					<input checked="" type="checkbox"/>		

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	39823-2	18/05/24	<input checked="" type="checkbox"/>	 28/05/24	
30 M TAPE	6157P 0084	14/05/24	<input checked="" type="checkbox"/>	 28/05/24	
LASE II TAPE	125425924	08/01/24	<input checked="" type="checkbox"/>	 28/05/24	28/05/24

1.3 Consumables

Welding Consumable Control - Used for Special Process

Filler Material	Heat Number	Welding Process	OK	Signature/Date (Manufacturing)	Signature/Date (Quality)
AUT (CO) 308 LS1	1221880	MIG	<input checked="" type="checkbox"/>	 28/05/24	
ETL 509 LS1	318399	MIG	<input checked="" type="checkbox"/>	 28/05/24	



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II - Self Inspection - Items to Check

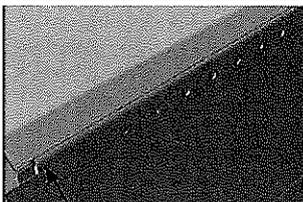
II.1 - Items to check

Item	Picture/Drawing	Description	Acceptance criteria / Record	OK		Signature/Date (Manufacturing)	Signature/Date (Quality)
01	N/A	Carshell free of significant flaws which compromise the appearance or functionality	DTD0000210675	✓		28/05/24	28/05/24
02	REFER TO ANNEXURE A	Spot welding inspected and approved according to procedure	IND-SAL-WMS-016 e DTD0000210675	✓		28/05/24	28/05/24
03	REFER TO ANNEXURE B	Arc welding inspected and approved according to procedure	IND-SAL-WMS-016 REFER TO GIB - TYPDEF - ARC - 0000	✓		28/05/24	28/05/24
04		Cleaning of all Stainless Steel Surface	According TO GIB-WEL - PROC-0002	✓		28/05/24	28/05/24
05		Functionals dimensions approved according drawing or complementary document approved by Alstom engineering and registered in this document	Approved according specified on pages below.	✓		28/05/24	28/05/24
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 DTD000021065B.	As the walding procedure IND-SAL-WMS-018 and DTD000021065B.	✓		28/05/24	28/05/24

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Welding Traceability

Roof ring welds



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

Door ring welds



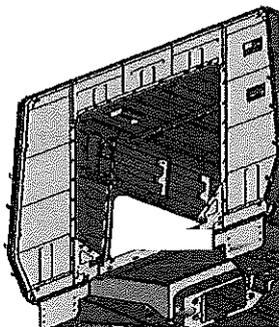
<u>LHS</u>	
Boiler maker (Name & Sign): <u>WINGA [Signature]</u>	
Welder (Name & Sign): <u>GIFT</u>	

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

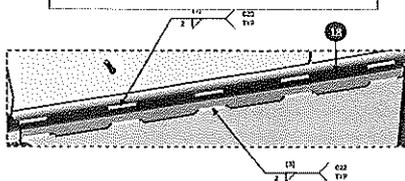


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EUFR Reinforcement Plates



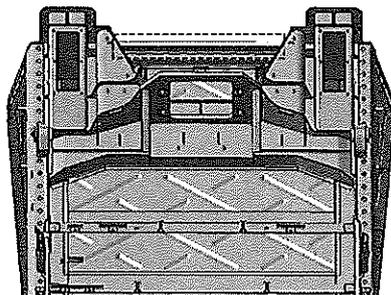
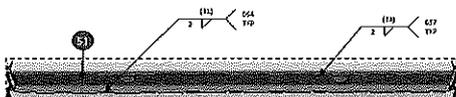
END 1

Boiler maker (Name & Sign):

SEA

Welder (Name & Sign):

SIMONAZI



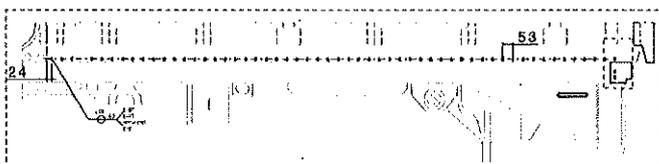
END 2

Boiler maker (Name & Sign):

JUSTICE

Welder (Name & Sign):

Thabeng



FEDOLI

Operator:

Luca

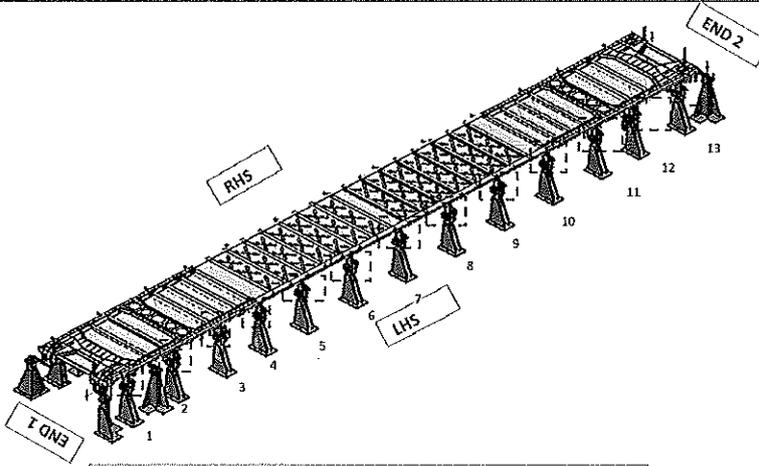


CARBODYSHELL M3,M4 ASSEMBLY DTR30226487/3

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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 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						OK/A							
Right Hand Side													

Signature Operations:

Date: 2.8/05/24

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						OK/A							
Right Hand Side													

Signature Industrial Quality:

Date: 22/05/24

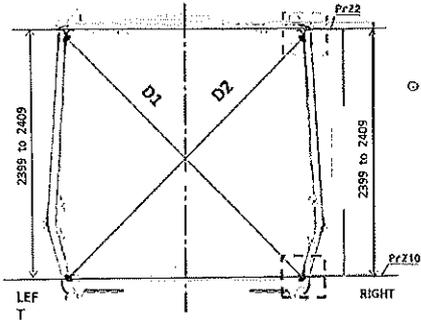
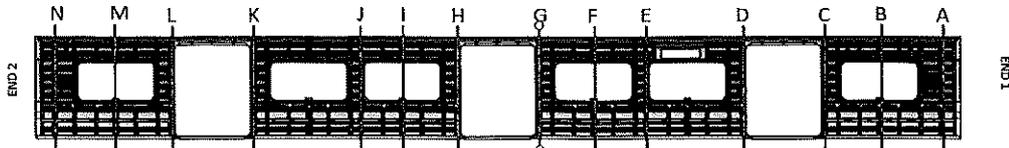


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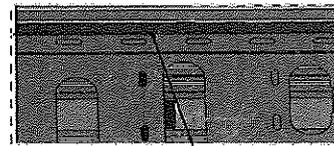
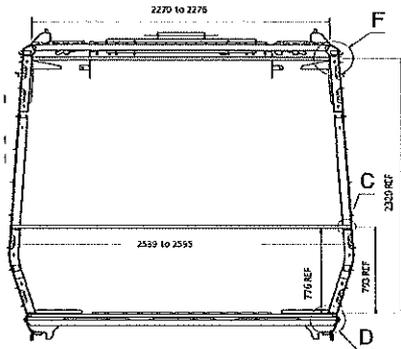
Specifications of Details for CBS measurement



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 forget the surface corner.

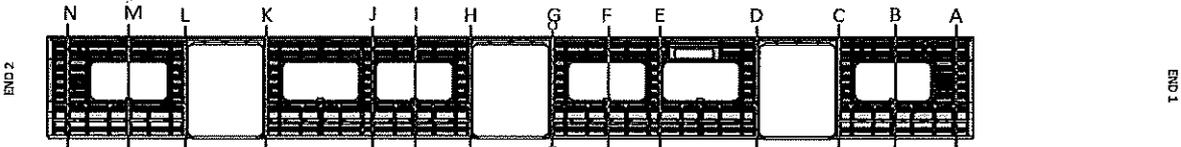


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Specifications of Details for CBS measurement



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	32.68	32.68	0	24.08	24.07	1
B	32.66	32.69	3	24.06	24.06	0
C	32.67	32.68	1	24.07	24.05	2
D	32.68	32.68	0	24.06	24.07	1
E	32.65	32.65	0	24.05	24.05	0
F	32.64	32.66	2	24.05	24.06	1
G	32.68	32.68	0	24.04	24.06	2
H	32.67	32.68	1	24.05	24.07	2
I	32.66	32.64	2	24.06	24.06	0
J	32.66	32.66	0	24.05	24.05	0
K	32.68	32.67	1	24.06	24.07	2
L	32.69	32.69	0	24.05	24.06	1
M	32.64	32.68	4	24.06	24.06	0
N	32.68	32.69	1	24.07	24.07	0

28/05/24

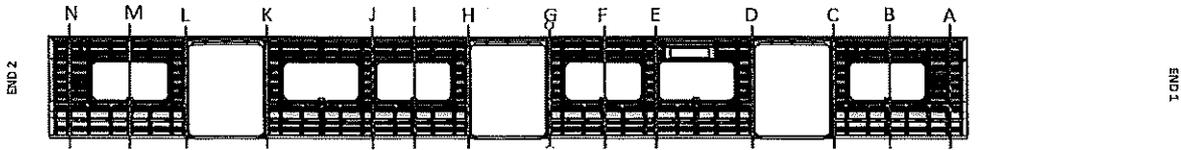


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Specifications of Details for CBS measurement



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

AFTER WELDING

	Record D1 values	Record D2 values	D1-D2 ≤ 5 mm	2399 to 2409	2399 to 2409 (RHS)	LHS-RHS ≤ 2
A	32.95	32.94	1	24.07	24.06	1
B	32.66	32.68	2	24.05	24.05	0
C	32.95	32.95	0	24.07	24.06	1
D	32.95	32.96	1	24.06	24.05	1
E	32.66	32.66	0	24.04	24.05	1
F	32.66	32.65	1	24.06	24.04	2
G	32.94	32.95	1	24.05	24.05	0
H	32.95	32.95	0	24.05	24.06	1
I	32.64	32.65	1	24.05	24.05	0
J	32.66	32.66	0	24.06	24.07	1
K	32.96	32.94	2	24.05	24.06	1
L	32.95	32.95	0	24.04	24.05	1
M	32.68	32.65	3	24.05	24.05	0
N	32.94	32.95	1	24.07	24.07	0

Handwritten signature and date: 28/05/24



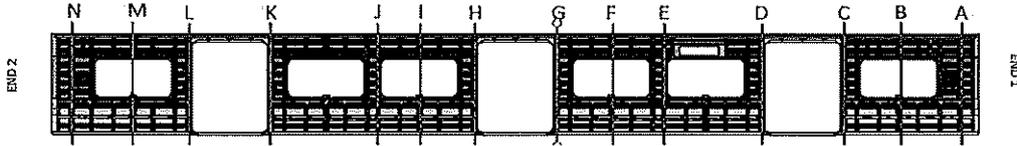
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CBS measurement

BEFORE WELDING



2270 to 2276

A 2271

B 2275

C 2272

D 2272

E 2277

F 2275

G 2272

H 2274

I 2276

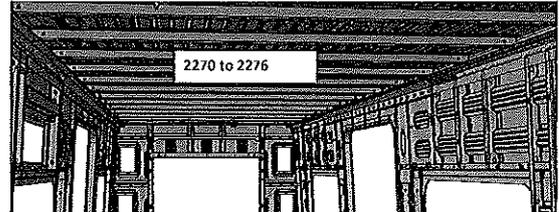
J 2277

K 2272

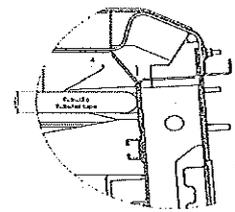
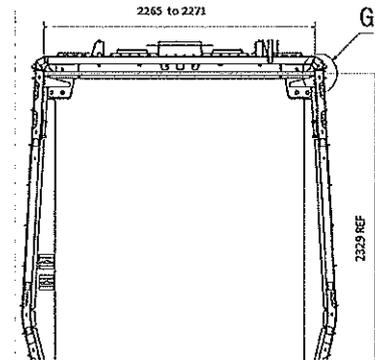
L 2271

M 2275

N 2270



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



Detail G
Consider in the reinforcement plate

Handwritten signature and date: 2.8/05/24



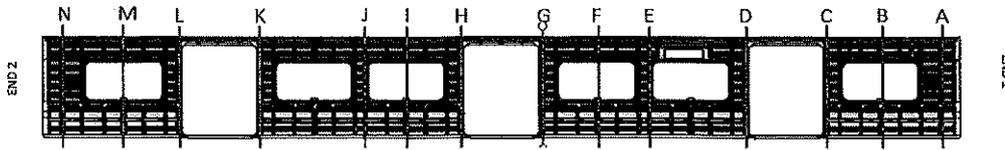
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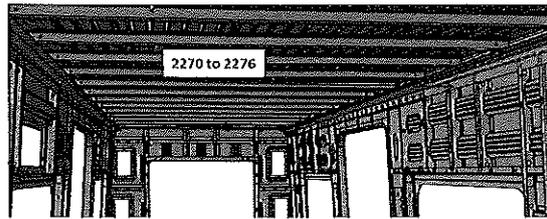
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CBS measurement

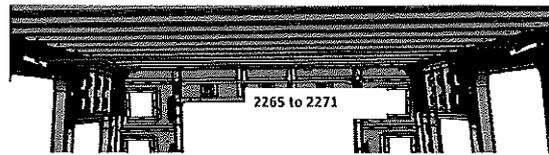
AFTER WELDING



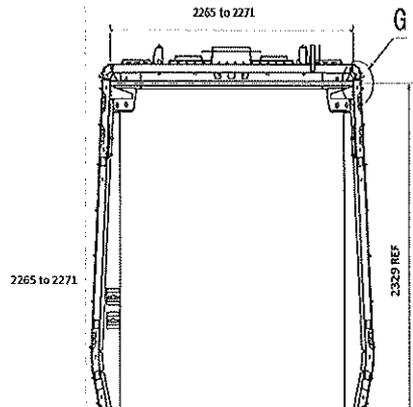
	2265 to 2271	2270 to 2276
A	2265	
B		2274
C	2270	
D	2266	
E		2276
F		2274
G	2268	
H	2269	
I		2275
J		2275
K	2268	
L	2266	
M		2275
N	2268	



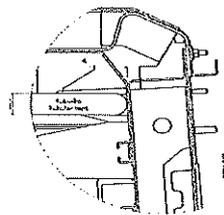
Do not consider reinforcement (Take measurements top area of zee profile



Take measurement close to radius (considering reinforcement)



Handwritten signature and date: 28/05/24



Detail 0
Considering the reinforcement plate

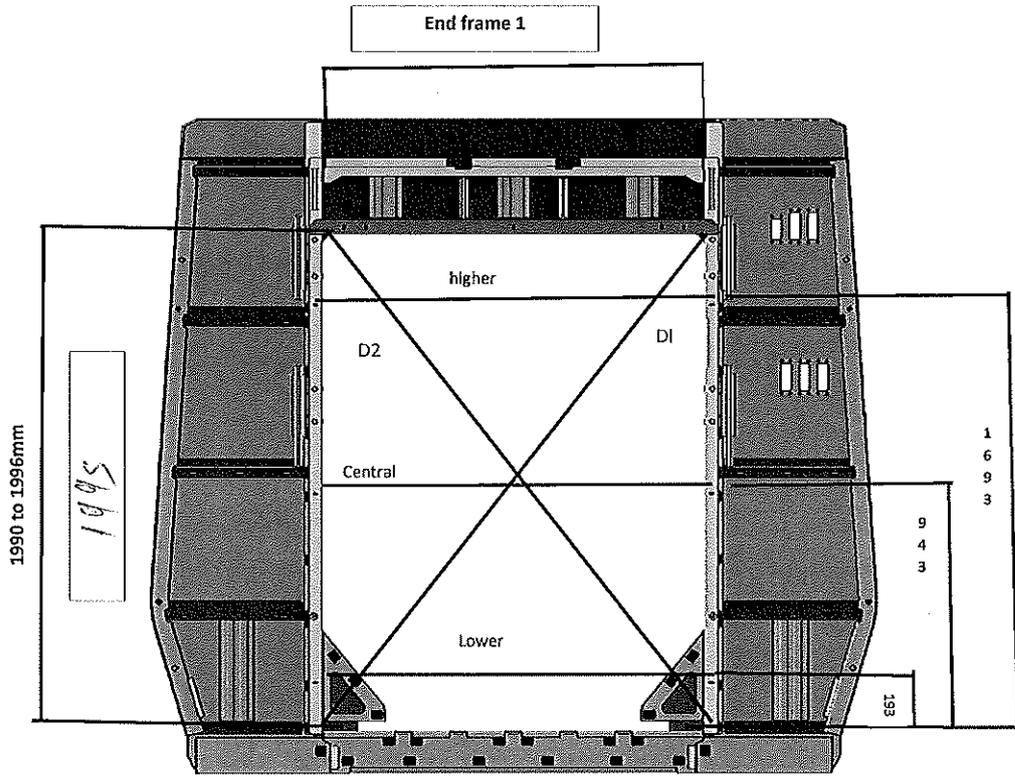


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Specifications of Details for CBS measurement



1380 to 1382 mm

DIAGONAL DIFFERENCE $D1-D2 \leq 3mm$

Higher Dimension

1381

D1

2413

Central Dimension

1380

D2

2414

Lower Dimension

1380

D1-D2

1

28/05/24



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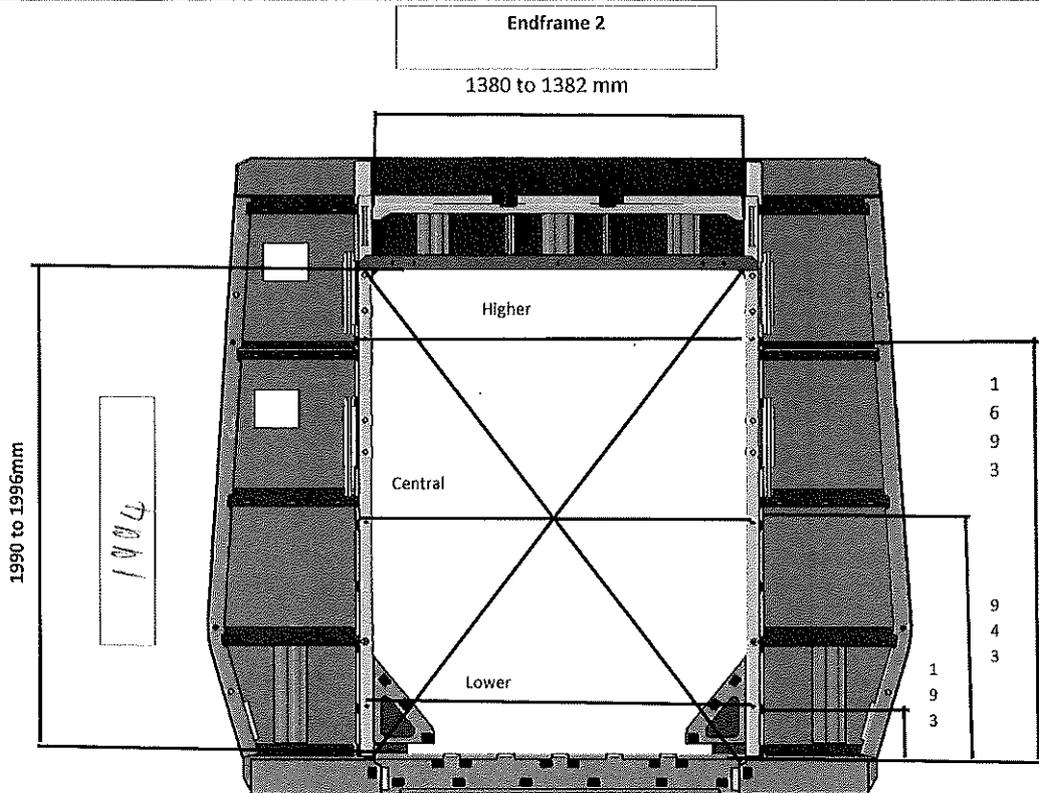
Date

07/11/2023

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Specifications of Details for CBS measurement



1380 to 1382 mm

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

Higher Dimension

1381

D1

2414

Central Dimension

1381

D2

2414

Lower Dimension

1380

D1-D2

0

10
28/05/24

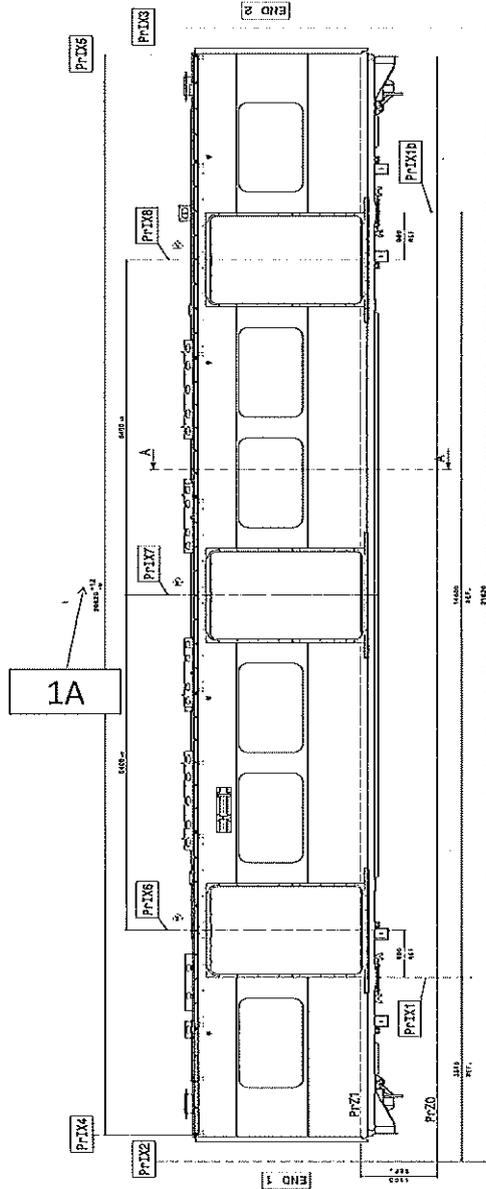


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Specifications of Details for CBS measurement



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

RIGHT SIDE		
	SPECIFICATION SIZE	ACTUAL SIZE
1A	20632 - 20614	20616

Dye penetrant test

Dye-penetration test to be performed by quality personnel





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Self Inspection - Final Result

				DATE	NAME	SIGNATURE	
HOLD POINT	GO	(If activities are not complete, the missing activities must not impact the next stage)		02/05/24	hwnca Operations		
		Every auto inspection performed conforms to specification or in case of discrepancy the same is approved by the competent party.)		22/05/24	Richardmond 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



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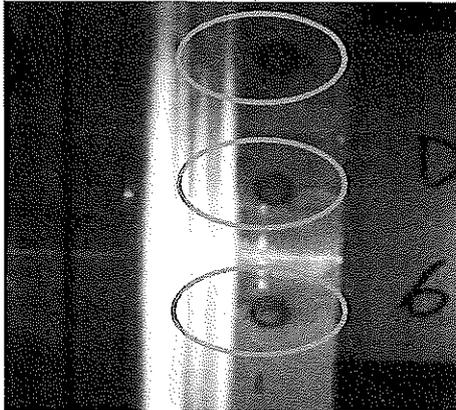
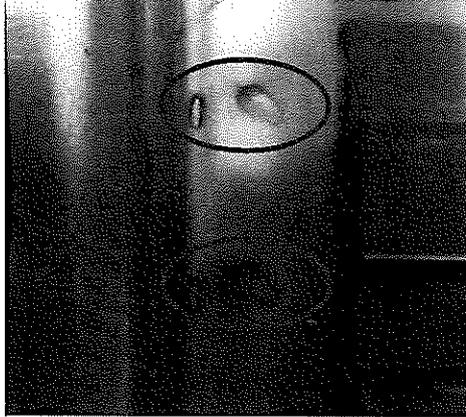
Date

07/11/2023

Project: PRASA

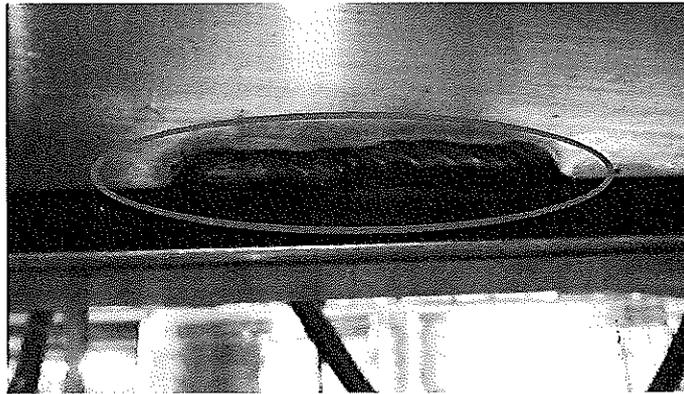
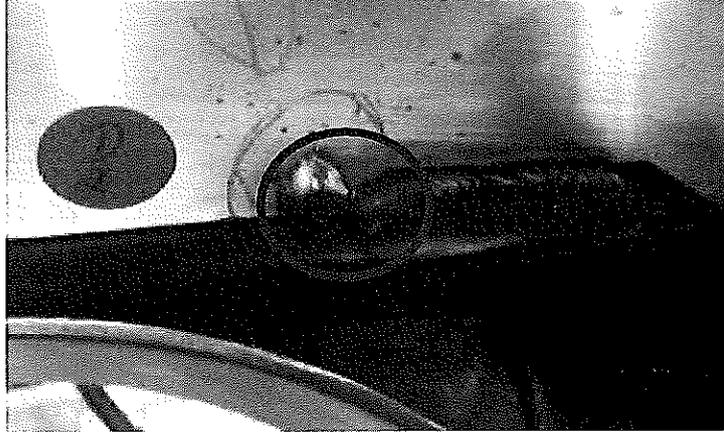
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ANNEXURE A: Spot Welding Quality Acceptance Standard



	CARBODYSHELL M3,M4 ASSEMBLY DTR30225487/3	Rev. 31	Project: PRASA SI.CB1210.254.V30
		Date 07/11/2023	

ANNEXURE B: Arc Welding Quality Acceptance Standard





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

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 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.

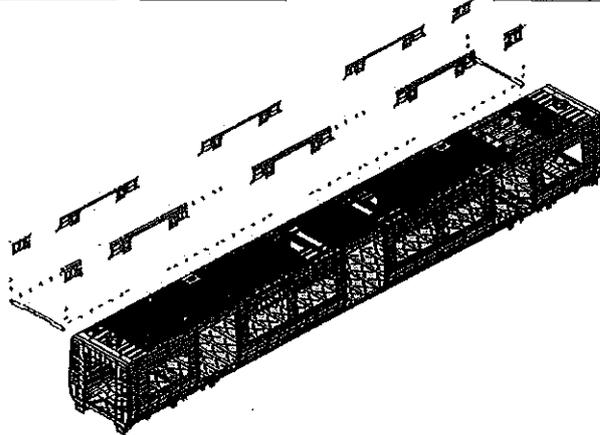
APPLICATION REFERENCE												
MOUNTING	DRAWING	DESCRIPTION	STATION	CAR TYPE						WORK INSTRUCTION	SAFETY ?	
				Tc1	M4	M1	M2	M3	Tc2			
<input type="checkbox"/>	DTRJ000132648	AND0001278566	CARBODY/SHELL M1,M3,M4 ASSEMBLY	CB2220			X				PRA.CB2220.DTR3022548 7/2.V21	YES
<input type="checkbox"/>	DTRJ000132649	AND0001278566	CARBODY/SHELL M1,M3,M4 ASSEMBLY	CB2220		X	X		X		PRA.CB2220.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 DT0000336800			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 Remove			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						
					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	20/02/2022	New Baseline change 10.3.1			APPROVER	Collins Mbhombhi	19/02/2022					
					CHECKER	Andani Muthelo						
					REVISED BY	Andani Muthelo						
26	14/06/2022	Update minimum temperature requirement for sealant application			APPROVER	Collins Mbhombhi	14/06/2022					
					CHECKER	Andani Muthelo						
					REVISED BY	Andani Muthelo						
27	19/10/2022	Addition of traceability for sealant application & welding			APPROVER	Collins Mbhombhi	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	28/10/2023	Addition of bracket quantity			APPROVER	Ngebeni Tyson	28/10/2023					
					CHECKER	Ntokozo Zwane						
					REVISED BY	Amogelang Mohlampe						
TRAINSET	CAR	OPERATOR NAME & ALPS NO	DATE	SELF INSPECTION NUMBER	PAGES							
230	M3	Levin 483003	30/10/24	SI.CB2220.250.V29	13							

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

Car: M1,M3&M4	NCR:	Work station:	CB2220
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Safety Related



I - Documentation and Instruments Control

I.1 - Documentation Control

Document	Type of car						Revision	Observation	OK	Signature/Date (Manufacturing)	Signature/Date (Quality)
	TCT	M1	M2	M3	M4	TCS					
DTR30226487/2							29	28/10/2023	X	N/A	30/05/24 30/05/24

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)
Tubometer	3283323	15/03/2023 - 15/03/24	X	30/05/24	30/05/24
Measuring tape	408110432	17/04/2024 - 17/04/2025	X	30/05/24	30/05/24

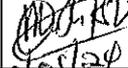
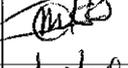
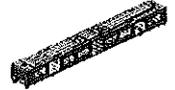
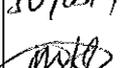
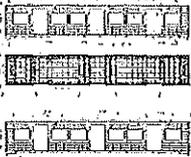
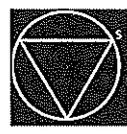
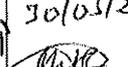
1.3 Consumables

Welding Consumable Control - Used for Special Process

Filler Material	Heat Number	Welding Process	OK	Signature/Date (Manufacturing)	Signature/Date (Quality)
Welding 308LSI	B221850	MIG	X	30/05/24	30/05/24

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	✓		 30/05/24	 30/05/24
02	N/A	Carshell free of significant flaws which compromise the appearance or functionality	DTD0000210675	✓		 30/05/24	 30/05/24
03	REFER TO ANNEXURE A	Arc Welding inspected and approved according procedure.	IND-SAL-WMS-016 REFER TO GIB - TYPDEF - ARC - 0000	✓		 30/05/24	 30/05/24
04		Cleaning of all Stainless Steel Surface	According TO GIB-WEL - PROC-0002	✓		 30/05/24	 30/05/24
05		Functional's dimensions approved according drawing or complementary document approved by Alstom engineering and registered in this document.	Approved according specified on pages below.	✓		 30/05/24	 30/05/24
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.	✓		 30/05/24	 30/05/24
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% - 80%	Sealant Batch No: 6344/05/24 Exp Date: 04/05/24 Actuals Temperature: 20°C Humidity: 40%	✓		 30/05/24	 30/05/24
08	NA	Verification of sealant application in certain regions in the drawing.	AAD0001278566	✓		 30/05/24	 30/05/24
09		Verification of safety welds	Approved according to DTD000210658 reference and Self inspection	✓		 30/05/24	 30/05/24



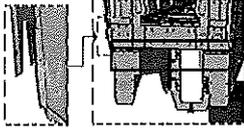
CARBODYSHELL M1,M3,M4 ASSEMBLY
DTR30226487/2

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II - Self Inspection - Items to Check

SEALANT APPLICATION



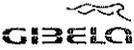
AREA 1 & 2 END 1

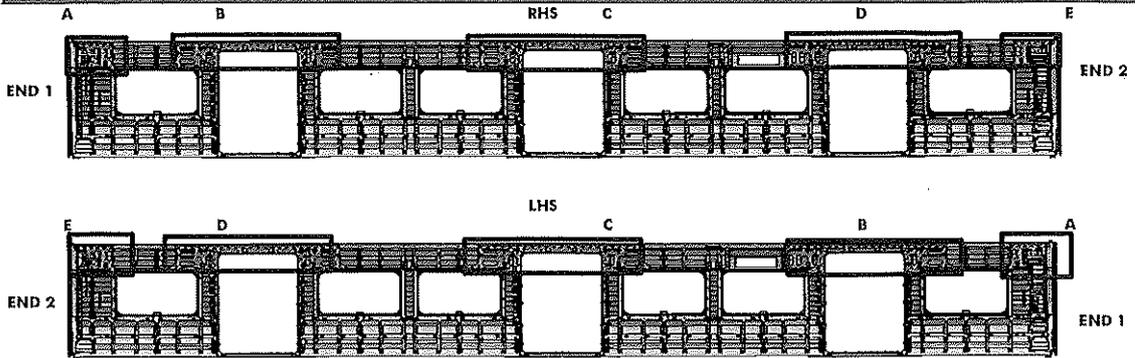
Operator (Name & sign):

Priscilla

Operator (Name & sign):

Priscilla

	CARBODYSHELL M1,M3,M4 ASSEMBLY DTR30225487/2	Rev.	Project: PRASA SI.CB2220.250.V29
		Date	
		28	
		28/10/2023	
II - Self Inspection - Items to Check			

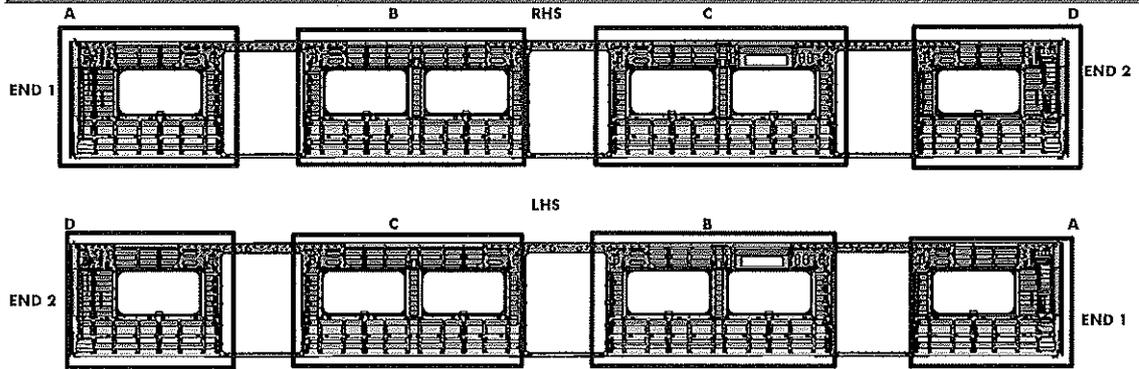


REINFORCEMENT WELDING

AREA	LHS	RHS
A	Operator (Name&sign): <u><i>Jolly Das</i></u>	<u>LINDO</u> <i>(signature)</i>
B	Operator (Name&sign): <u><i>Jolly Das</i></u>	<u>LINDO</u> <i>(signature)</i>
C	Operator (Name&sign): <u><i>(signature)</i></u>	<u>M. MANSUKHANI</u> <i>(signature)</i>
D	Operator (Name&sign): <u><i>(signature)</i></u>	<u>M. MANSUKHANI</u> <i>(signature)</i>
E	Operator (Name&sign): <u><i>(signature)</i></u>	<u>M. MANSUKHANI</u> <i>(signature)</i>

	CARBODYSHELL M1,M3,M4 ASSEMBLY DTR30225487/2	Rev.	Project: PRASA
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II - Self Inspection - Items to Check



BRACKETING

INSTALLATION		
C-RAILS:	Operator: <u>Aseunda</u>	
	Operator: _____	
DOOR MECHANISMS:	Operator: <u>Levi</u>	
	Operator: _____	
TAPPING PADS	Operator: <u>LINDO</u>	
	Operator: <u>S. MUKHARREZ</u>	
INSTALLATION & VERIFICATION		
SEAT & LUGGAGE BRACKETS:	Operator: <u>M. HOKORISI</u>	
	Operator: _____	
SEAT BRACKETS VERIFICATION:	Operator: <u>Priscilla</u>	
	Operator: _____	
WELDING		
AREA	LHS	RHS
A (Seat brackets)	Operator (Name&sign): <u>[Signature]</u>	<u>LINDO</u>
(C-rails, Luggage and earth bushes)	Operator (Name&sign): <u>[Signature]</u>	<u>LINDO</u>
B (Seat brackets)	Operator (Name&sign): <u>[Signature]</u>	<u>LINDO</u>
(C-rails, Luggage and earth bushes)	Operator (Name&sign): <u>[Signature]</u>	<u>LINDO</u> & <u>MASHUDU</u>
C (Seat brackets)	Operator (Name&sign): <u>[Signature]</u>	<u>M. MATSUCHE</u>
(C-rails, Luggage and earth bushes)	Operator (Name&sign): <u>[Signature]</u>	_____
D (Seat brackets)	Operator (Name&sign): <u>[Signature]</u>	<u>M. MATSUCHE</u>
(C-rails, Luggage and earth bushes)	Operator (Name&sign): <u>[Signature]</u>	<u>M. MATSUCHE</u>
ENDS		
END 1 TAPPING PADS WELDING:	Operator (Name&sign): <u>LINDO</u>	
END 2 TAPPING PADS WELDING:	Operator (Name&sign): <u>S. MUKHARREZ</u>	



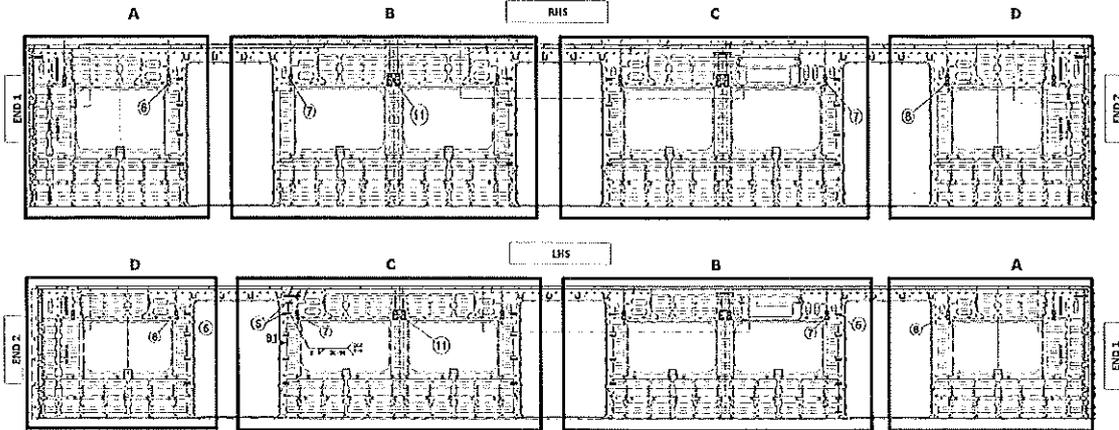
CARBODYSHELL M1,M3,M4 ASSEMBLY
DTR30226487/2

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	8	/	
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: *[Signature]*

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: *[Signature]*

QUANTITIES (M1)

RHS

	SECTION	QUANTITY	OK	NOK
C-RAILS	A	7		
	B	8		
	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: _____

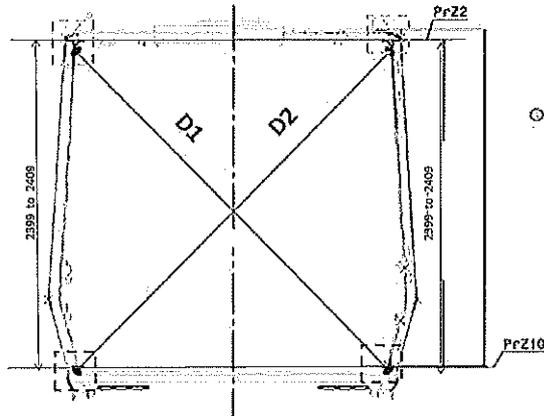
LHS

	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: _____

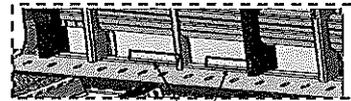
Specifications of Details for CBS measurement



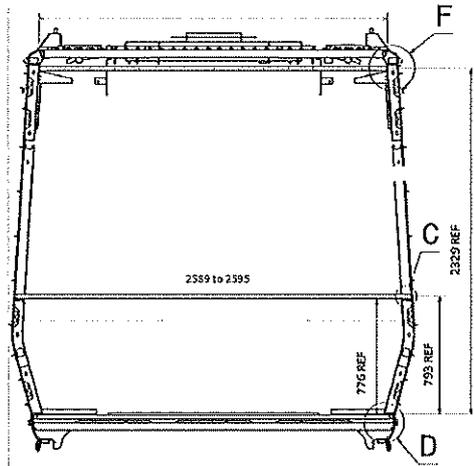
Measurement positions on roof rail and sidewall omega corner.



Reinforcement area measurement positions on roof reinforcement area.



Measurement positions on sidewall and side sill corner.



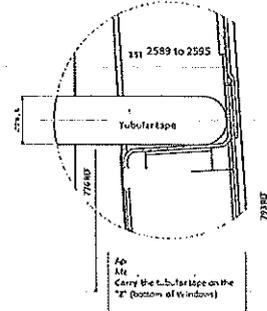
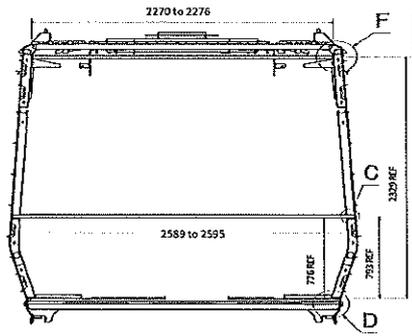


CARBODYSHELL M1,M3,M4 ASSEMBLY
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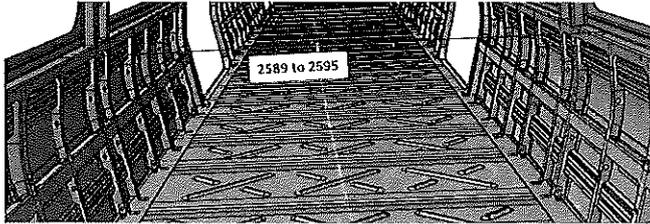
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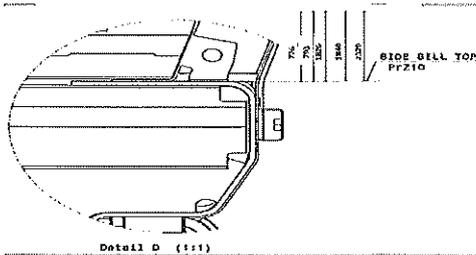
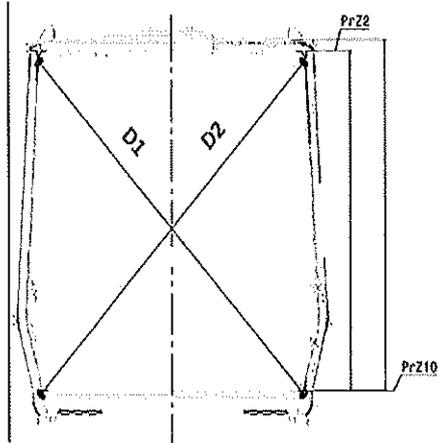
CBS measurement



Detail C

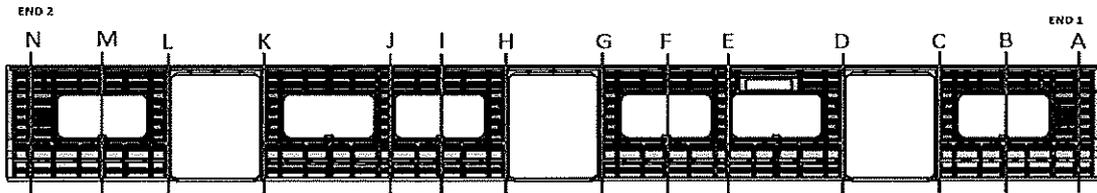


Take measurement close to radius



Detail D (1:1)

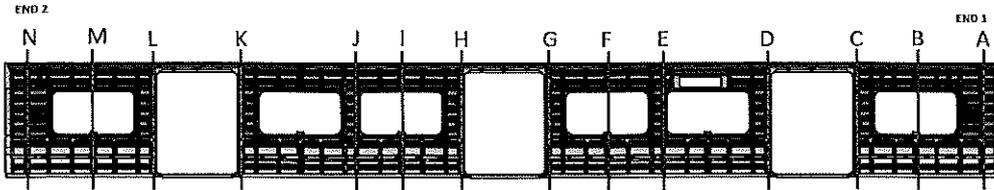
	CARBODYSHELL M1,M3,M4 ASSEMBLY DTR30226487/2	Rev.	Project: PRASA SI.CB2220.250.V29
		29	
		Date	
		28/10/2023	
CBS measurement			



BEFORE WELDING

	Record D1 values	Record D2 values	D1-D2 ≤ 5mm	2589 to 2595
A	3294	3296	2	
B	3263	3267	4	
C	3293	3299	2	
D	3298	3295	3	
E	3263	3262	1	
F	3263	3263	0	
G	3298	3298	0	
H	3299	3297	2	
I	3263	3262	1	
J	3263	3262	1	
K	3265	3269	0	
L	3295	3293	2	
M	3267	3267	1	
N	3294	3298	4	

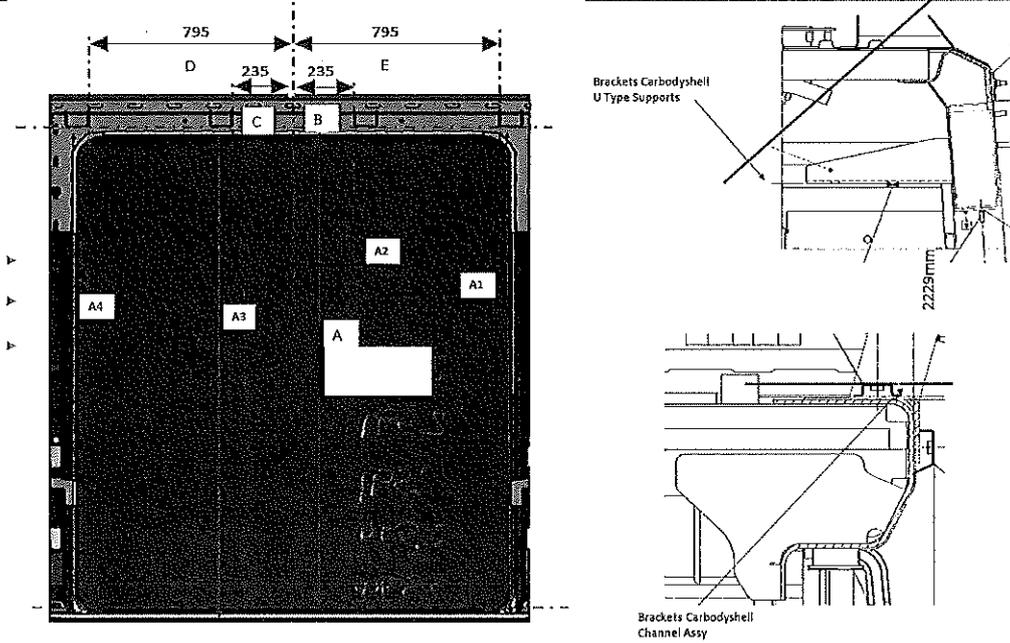
CBS measurement



AFTER WELDING

	Record D1 values	Record D2 values	D1-D2 ≤ 5mm	2589 to 2595
A	3294	3295	1	2594
B	3267	3266	1	2591
C	3293	3294	1	2591
D	3297	3295	2	2594
E	3264	3263	1	2594
F	3263	3265	2	2593
G	3295	3295	0	2595
H	3296	3295	1	2595
I	3296	3297	1	2595
J	3265	3268	3	2595
K	3296	3294	2	2590
L	3294	3291	3	2590
M	3262	3264	2	2595
N	3295	3295	0	2595

Specifications of Details for CBS measurement CB1220



DOOR 1 - LHS	
VALUE	ACTUAL
A1 2230 to 2232	2230
A2 2230 to 2232	2231
A3 2230 to 2232	2230
A4 2230 to 2232	2231
B 234 to 236	234
C 234 to 236	236
D 794 to 796	796
E 794 to 796	794

DOOR 2 - LHS	
VALUE	ACTUAL
A1 2230 to 2232	2230
A2 2230 to 2232	2231
A3 2230 to 2232	2230
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

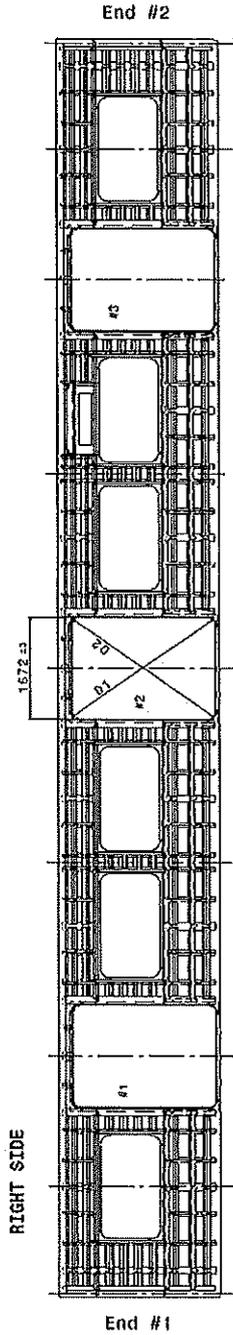
DOOR 2 - RHS	
VALUE	ACTUAL
A1 2230 to 2232	2231
A2 2230 to 2232	2231
A3 2230 to 2232	2232
A4 2230 to 2232	2230
B 234 to 236	235
C 234 to 236	235
D 794 to 796	795
E 794 to 796	795

DOOR 1 - RHS	
VALUE	ACTUAL
A1 2230 to 2232	2231
A2 2230 to 2232	2231
A3 2230 to 2232	2231
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	2231
A2 2230 to 2232	2231
A3 2230 to 2232	2230
A4 2230 to 2232	2230
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	2230
A2 2230 to 2232	2231
A3 2230 to 2232	2230
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

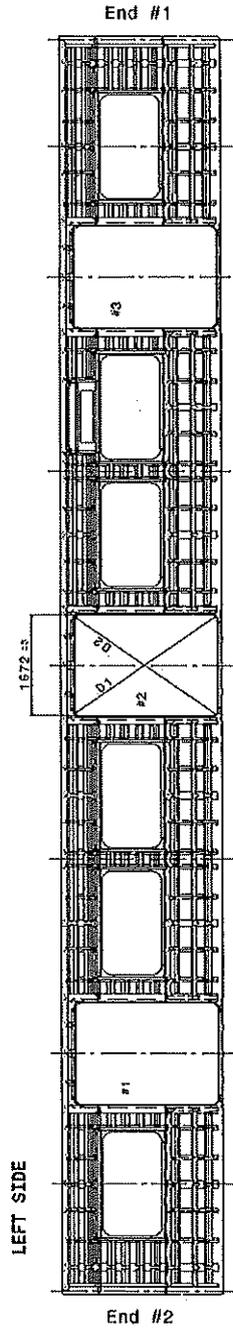
Specifications of Details for CBS measurement CB1220



Doors diagonal D1-D2 maximum difference ≤ 4mm

#1	#2	#3
D1 2749	2748	2747
D2 2746	2749	2748
D1-D2 3	1	1

Doors Length = 1672 ± 3mm		
#1	#2	#3
1671	1672	1671
1672	1671	1672
1672	1672	1673
HIGHER DIMENSION		
CENTRAL DIMENSION		
LOWER DIMENSION		



Doors diagonal D1-D2 maximum difference ≤ 4mm

#1	#2	#3
D1 2749	2747	2748
D2 2748	2749	2747
D1-D2 1	2	1

Doors Length = 1672 ± 3mm		
#1	#2	#3
1671	1672	1672
1672	1671	1672
1672	1671	1671
HIGHER DIMENSION		
CENTRAL DIMENSION		
LOWER DIMENSION		



CARBODYSHELL M1,M3,M4 ASSEMBLY
DTR30225487/2

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Date	28/10/2023

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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			



CARBODYSHELL M1,M3,M4 ASSEMBLY
DTR30225487/2

Rev.
29
Date
28/10/2023

Project: PRA5A
SI.CB2220.250.V29

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)	30/05/2024	Jeni Operations		
		Every auto inspection performed conforms to specification or in case of discrepancy the same is approved by the competent party.)	30/05/24	Richmond 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":

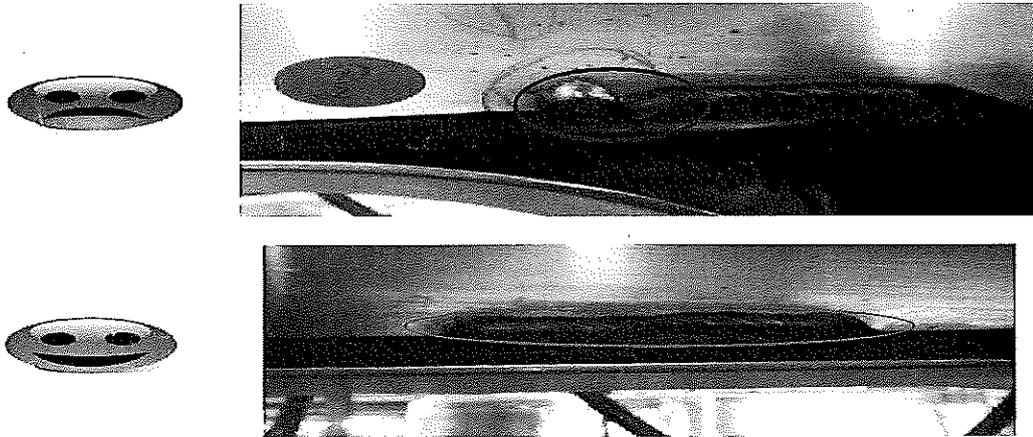
Item	Description	Responsible	Due date	Status

Operations

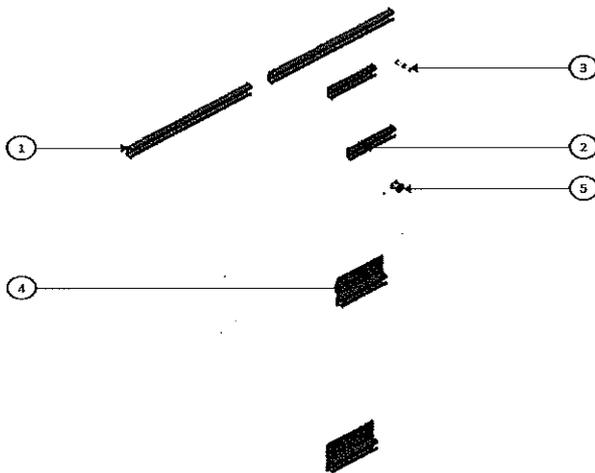
Quality

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

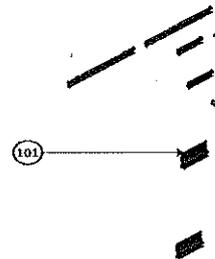
ANNEXURE A: Arc Welding Quality Acceptance Standard

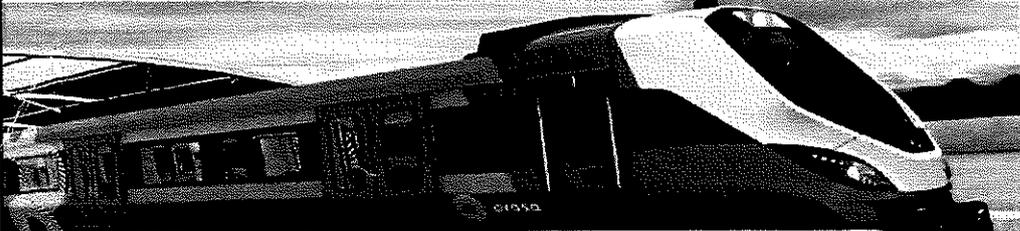


Station: CB1220-004- U108 & U107



PART NO.	ITEM NO.	QTY	DESCRIPTION	MASS (KG)
DYF0020074003	5	6	EARTH STUD 6	0.005
AA00001201613	4	6	ASSEMBLY SUPPORT	0.271
DYF0000343305	3	12	WELDING STUD ISO13318 PT-1/2F70-SST	0.007
AA00001150124	2	12	ASSEMBLY SUPPORT	0.193
AA00001161118	1	14	ASSEMBLY SUPPORT	0.522
AA00001161080	101	6	CARBODYSHELL BRACKETS CARBODYSHELL M1/M3/M4 CASI SIDE FRAME MODULE END-099	12.192





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 ?	
				TC	MA	M1	M2	M3	TCA			
<input type="checkbox"/>	DTR3000152668	AAD0001278566	CARBODYSHELL M1,M3,M4 ASSEMBLY	CB2230			X				PRA.CB2230.DT000002 25487.V20	YES
<input type="checkbox"/>	DTR3000152673	AAD0001278566	CARBODYSHELL M1,M3,MA ASSEMBLY	CB2230		X			(X)		PRA.CB2230.DT000002 25487.V20	YES
<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 Mbhombhi	20/02/2022
			CHECKER	Andani Muthelo	
			REVISED BY	Andani Muthelo	
26	14/06/2022	Update minimum temperature requirement for sealant application	APPROVER	Collins Mbhombhi	14/06/2022
			CHECKER	Andani Muthelo	
			REVISED BY	Andani Muthelo	
27	26/07/2022	Threshold measurements addition	APPROVER	Collins Mbhombhi	26/07/2022
			CHECKER	Andani Muthelo	
			REVISED BY	Andani Muthelo	
28	17/10/2022	Added traceability of sealant application	APPROVER	Collins Mbhombhi	17/10/2022
			CHECKER	Ntokozi Zwane	
			REVISED BY	Amogelang Mohlampe	
29	14/04/2023	Added sealant batch number & welding consumables traceability	APPROVER	Vanessa Ntuli	14/04/2023
			CHECKER	Ntokozi Zwane	
			REVISED BY	Amogelang Mohlampe	
30	06/11/2023	Added threshold traceability for boiler makers and welders	APPROVER	Ngobeni Tyson	06/11/2023
			CHECKER	Andani Muthelo	
			REVISED BY	Ntokozi Zwane	

TRAINSET	CAR	OPERATOR NAME/ALPS NO	DATE	SELF INSPECTION NUMBER	PAGES
230	M3	ERAMONILE 410478	31.05.24	SI.CB2230.256.V29	12



CARBODYSHELL M1,M3,M4 ASSEMBLY
DT00000225487

Rev. 30
Date 08/11/2023

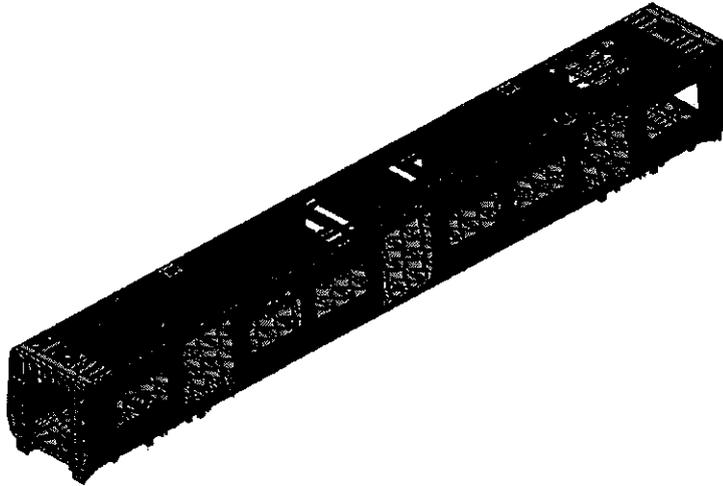
Project: PRASA
SI.CB2230.256.V29

Car: NCR:

Work station: CB2230



Safety Related



I - Documentation and Instruments Control

I.1 - Documentation Control

Document	Type of car					Revision	Observation	OK	Signature/Date (Operations)	Signature/Date (Quality)
	BT	ME	SE	TE	CE					
PRA.CB2230.DT00000225487		X				30	OK	L	N/A	Emmanuel 31-05-24

I.2 - Instruments Control

Monitoring and Measuring Instrument Control - Used for Special Process

Instruments	Serial number	Calibration or Verification Validation Date	OK	Signature/Date (Operations)	Signature/Date (Quality)
Huber	3222-3	15-03-25	✓	Emmanuel 31/05/24	EB 31/05/24
Measuring tape	1160774	25-04-24	✓	Emmanuel 31-05-24	EB 31/05/24
Combination Saw	CAB0012	07-07-24	✓	Emmanuel 31-05-24	EB 31/05/24

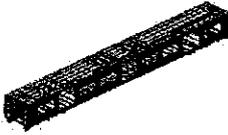
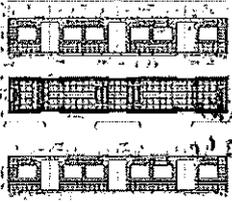
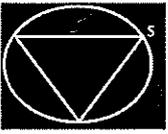
1.3 Consumables

Welding Consumable Control - Used for Special Process

Filler Material	Heat Number	Welding Process	OK	Signature/Date (Manufacturing)	Signature/Date (Quality)
308 L15	273779	Mg	X	Emmanuel 31-05-24	EB 31/05/24

II - Self Inspection - Items to Check

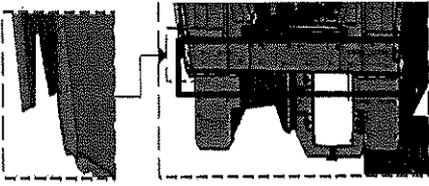
II.1 - Items to check

Item	Picture/Drawing	Description	Acceptance criteria / Record	OK	Signature/Date (Operations)	Signature/Date (Quality)						
01	N/A	Assembly according to Instruction Engineering nº PRA.CB1 230.DT00000225487 Verification of filmet for all brackets.	PRA.CB1 230.DT00000225487	X	<i>E. Murrain</i> 31.05.24	<i>[Signature]</i> 31/05/24						
02	N/A	Carshell free of significant flaws which compromise the appearance or functionality	DTD0000210675	X	<i>E. Murrain</i> 31.05.24	<i>[Signature]</i> 31/05/24						
03	REFER TO ANNEXURE A	Arc Welding inspected and approved according procedure.	IND-SAL-WMS-016 REFER TO GIB - TYPDEF - ARC - 0000	X	<i>E. Murrain</i> 31.05.24	<i>[Signature]</i> 31/05/24						
04		Cleaning of all Stainless Steel Surface	According TO GIB-WEL - PROC-0002	X	<i>E. Murrain</i> 31.05.24	<i>[Signature]</i> 31/05/24						
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	<i>E. Murrain</i> 31.05.24	<i>[Signature]</i> 31/05/24						
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	<i>E. Murrain</i> 31.05.24	<i>[Signature]</i> 31/05/24						
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: <table border="1" data-bbox="406 1489 678 1579"> <tr> <td>Temperature Min - Max (1)</td> <td>Min-Max</td> <td>10°C - 35°C</td> </tr> <tr> <td>Relative humidity Min - Max (1)</td> <td>Min-Max</td> <td>25% - 80%</td> </tr> </table>	Temperature Min - Max (1)	Min-Max	10°C - 35°C	Relative humidity Min - Max (1)	Min-Max	25% - 80%	Sealant Batch No: <u>209349</u> Exp Date: <u>1/06/24</u> Actuals Temperature: <u>14°C</u> Humidity: <u>59%</u>	X	<i>E. Murrain</i> 31.05.24	<i>[Signature]</i> 31/05/24
Temperature Min - Max (1)	Min-Max	10°C - 35°C										
Relative humidity Min - Max (1)	Min-Max	25% - 80%										
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	<i>E. Murrain</i> 31.05.24	<i>[Signature]</i> 31/05/24						
09	N/A	Verification of sealant application in certain regions in the drawing.	AAD0001278566	X	<i>E. Murrain</i> 31.05.24	<i>[Signature]</i> 31/05/24						

II - Self Inspection - Items to Check

END 2 SEALANT

AREA 1



OPERATOR
(Name & sign):

Leroy

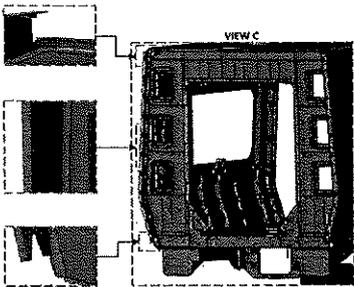
OPERATOR
(Name & sign):

Leroy

OPERATOR
(Name & sign):

Leroy

AREA 2 (VIEW C)



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

Operator (Name & sign):

LHS
D,E,G,H,I top

RHS
D,E,F,G,H,I

Operator (Name & sign):

Sinle

Lerato

Operator (Name & sign):

Bunle

Operator (Name & sign):

Tshendo

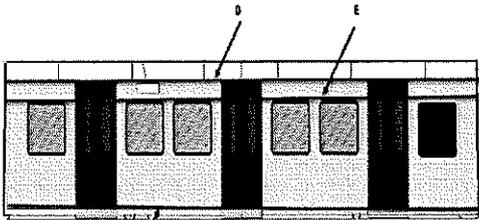
Boity

Operator (Name & sign):

Operator (Name & sign):

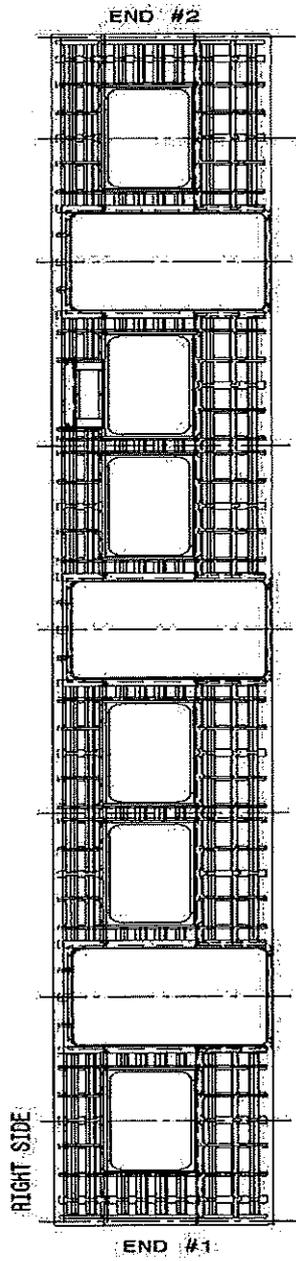
HI BOTTOM
F Lerato
Boity
Bunle

H

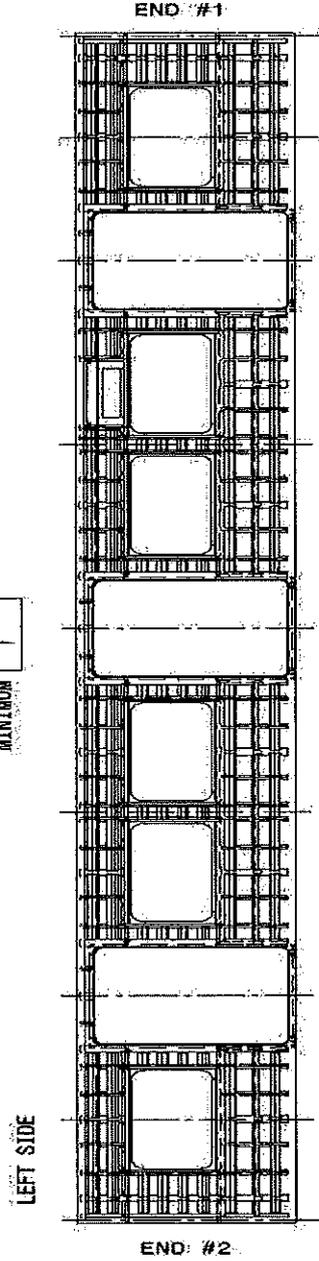


Specifications of Details for CBS measurement CB1230

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



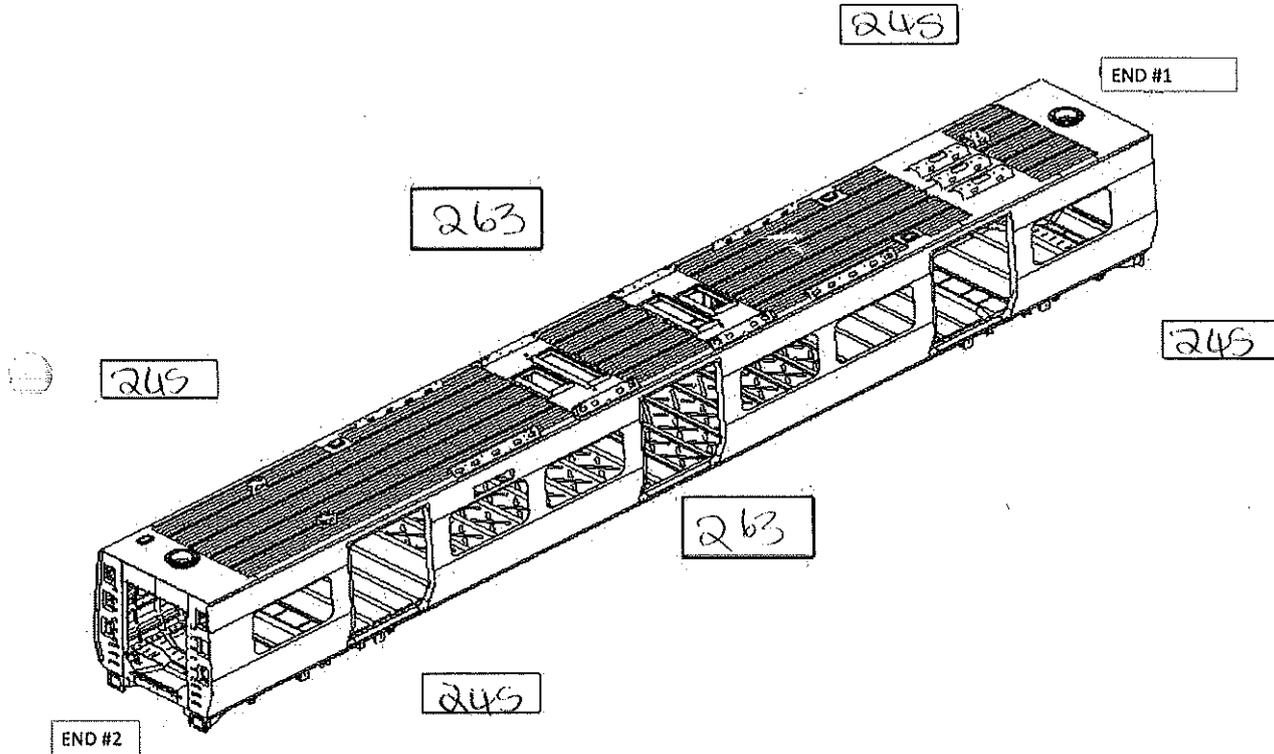
MAXIMUM 0.7
MINIMUM 1



MAXIMUM 0.5
MINIMUM 1.2

Specifications of Details for CBS measurement CB1230

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

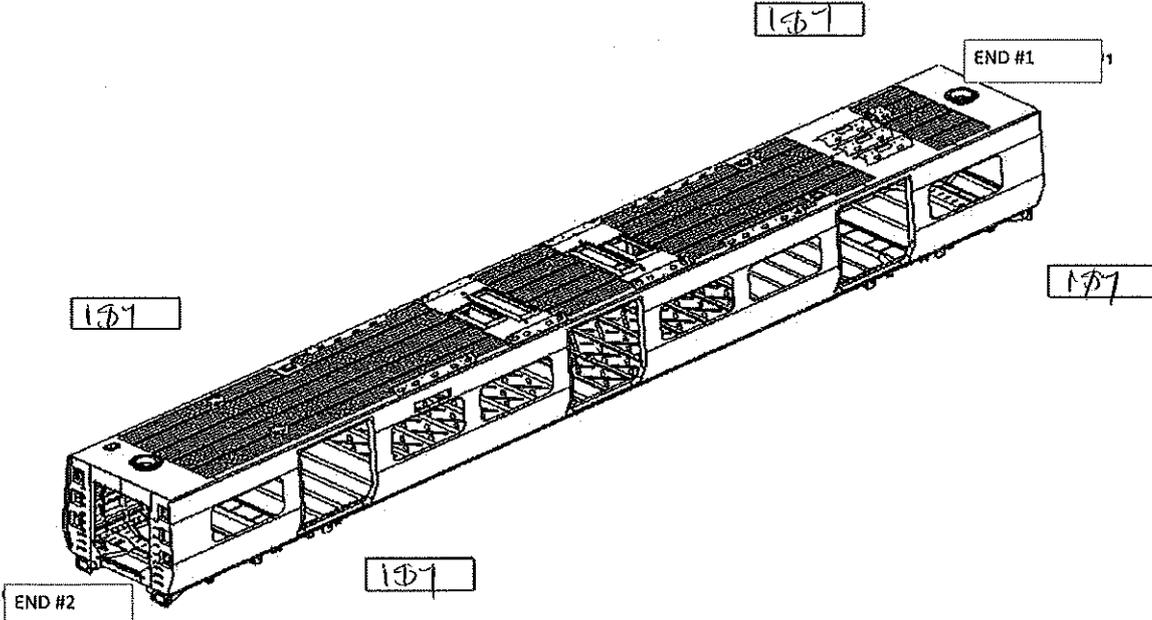


MEASURED CAMBER VALUES

RIGHT	il	19
LEFT	al	19

Specifications of Details for CBS measurement CB1230

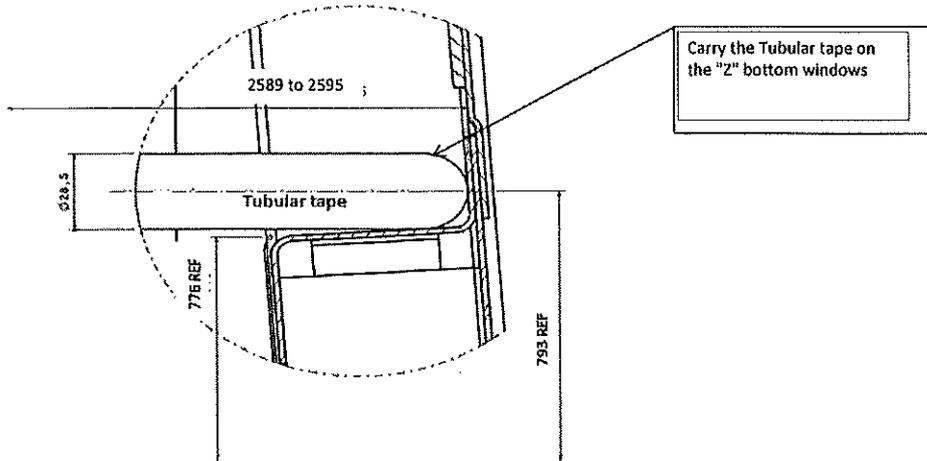
Twist measured in transversal and longitudinal = Maximum 3mm. Measure twist on air spring plates (LHS and RHS), both End 1 and End 2 following twist measurement document.



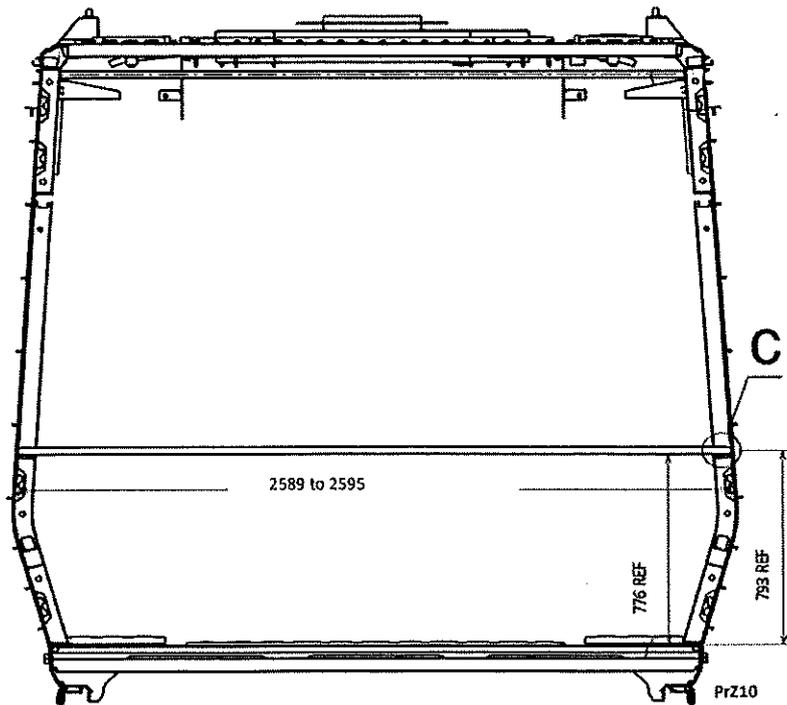
TWIST FOUND ON END 1	
TRANVERSE	<input type="text" value="0"/>
LONGITUDINAL	<input type="text" value="0"/>

TWIST FOUND ON END 2	
TRANVERSE	<input type="text" value="0"/>
LONGITUDINAL	<input type="text" value="0"/>

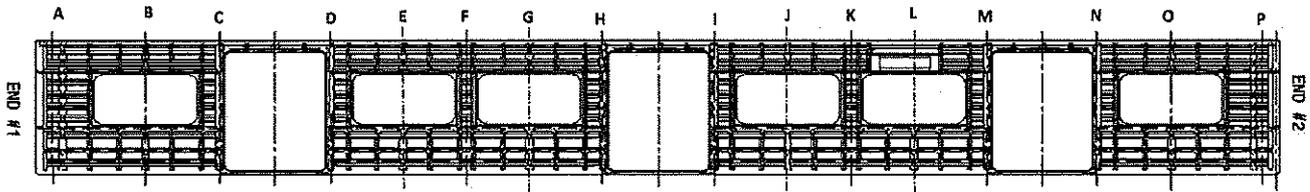
Specifications of Details for CBS measurement CB1230



Detail C

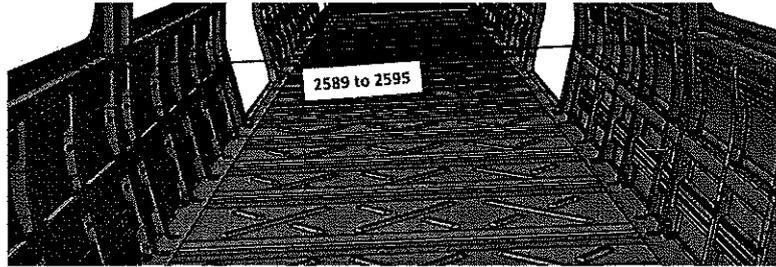


Specifications of Details for CBS measurement CB1230



2589 to 2595mm

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



Threshold verification

Nominal value :38

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

BOILER MAKER: ASANIYA

WELDER: Windo

Dye penetrant test

Dye-penetration test to be performed by quality personnel





CARBODYSHELL M1,M3,M4 ASSEMBLY
DT00000225487

Rev.
30
Date
08/11/2023

Project: PRASA
SI.CB2230.256.V29

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	(If activities are not complete, the missing activities must not impact the next stage!	31/05/24	Widmann	[Signature]
	Every auto inspection performed conforms to specification or in case of discrepancy the same is approved by the competent party.)	31/05/24	Andeni	[Signature]
	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

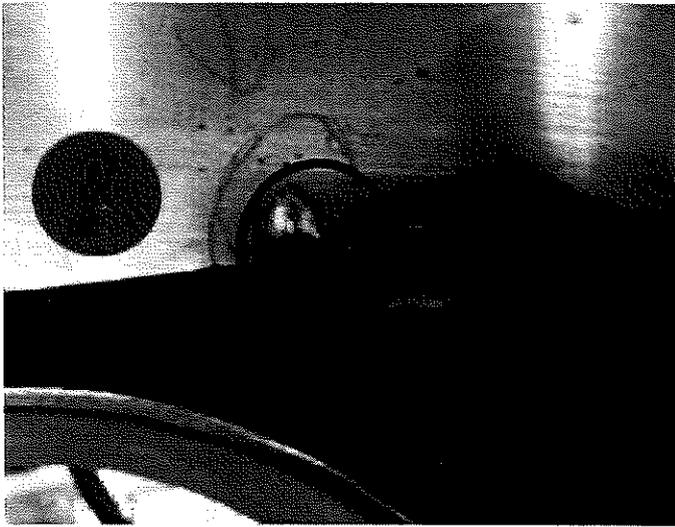
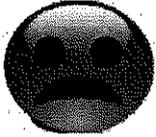
In case of "NO GO", the operations manager must define below action plan to ensure "GO":

Item	Description	Responsible	Due date	Status

Operations

Quality

ANNEXURE A: Arc Welding Quality Acceptance Standard



(1)



(1)

	CARBODYSHELL M1,M3,M4 ASSEMBLY DT00000225487	Rev. 30	Project: PRASA SI.CB2230.256.V29
		Date 06/11/2023	

ANNEXURE B: Sealant

