

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.

MOUNTING		DRAWING	DESCRIPTION	STATION	CARTYPE					WORK INSTRUCTION	SAFETY	
					TC	MC	M1	M2	M3			TC2
<input checked="" type="checkbox"/>		DTR30235487/3	CARBODYSHELL M3,M4 ASSEMBLY	CB2210		X				(X)	PRQ.CB2210.DTR30225 487/3.V30	YES
<input type="checkbox"/>												
REV	DATE	MODIFICATION CONTENT					RESPONSIBLE	NAME	DATE			
0	10/01/2018	GIBELA NEW CREATION					APPROVER	Izumeleng Modiba	10/01/2018			
							CHECKER	Nosizo Pindela	10/01/2018			
							COMPLIER	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	Izumeleng Modiba	2018/05/18			
							CHECKER	Nosizo Pindela	2018/05/18			
							REVISED BY	Ramokone Mogame	2018/05/18			
2	2018/07/04	Certain dimensional checks moved to CB1220 and CB1230					APPROVER	Izumeleng Modiba	2018/07/04			
							CHECKER	Nosizo Pindela	2018/07/04			
							REVISED BY	Ramokone Mogame	2018/07/04			
3	2018/12/12	Added dimensional check points to CB2210					APPROVER	Izumeleng Modiba	2018/12/12			
							CHECKER	Nosizo Pindela	2018/12/12			
							REVISED BY	Ramokone Mogame	2018/12/12			
5	22/01/2019	As per Baseline 10.2					APPROVER	Izumeleng Modiba	2018/12/12			
							CHECKER	Nosizo Pindela	22/01/2019			
							REVISED BY	Vanessa Ntuli	22/01/2019			
5	13/03/2019	Added D1 and D2 on Self - Inspection					APPROVER	Izumeleng 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	Izumeleng 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	06/08/2020			
							REVISED BY	Bongane Masina	06/08/2020			
20	19/04/2021	New Baseline change 10.3					APPROVER	Timothy Maimela	19/04/2021			
							CHECKER	Bongane Masina	19/04/2021			
							REVISED BY	Mkhombi Collins	19/04/2021			
21	17/08/2021	ADDED DIMENSIONS BEFORE WELDING					APPROVER	Mkhombi Collins	17/08/2021			
							CHECKER	Mpho Mulaudzi	17/08/2021			
							REVISED BY	Mpho Mulaudzi	17/08/2021			
25	19/02/2022	New Baseline change 10.3.1					APPROVER	Mkhombi Collins	19/02/2022			
							CHECKER	Andani Muthelo	19/02/2022			
							REVISED BY	Andani Muthelo	19/02/2022			
26	14/04/2023	Addition of welding consumable traceability					APPROVER	Ntuli Vanessa	14/04/2023			
							CHECKER	Mohlame Amogelang	14/04/2023			
							REVISED BY	Mohlame Amogelang	14/04/2023			
30	20/07/2023	New Baseline change 10.4					APPROVER	Nyobeni Tyson	20/07/2023			
							CHECKER	Mohlame Amogelang	20/07/2023			
							REVISED BY	Mohlame Amogelang	20/07/2023			
31	07/11/2023	Added traceability for welding sections					APPROVER	Nyobeni Tyson	07/11/2023			
							CHECKER	Mohlame Amogelang	07/11/2023			
							REVISED BY	Nitokozo Zwane	07/11/2023			
TRAINSET	CAR	OPERATOR NUMBER	AUS NO	DATE	SELF INSPECTION NUMBER	PAGES						
213	M13	81N68	471497	22/03/24	SLCB2210.254.V30	17						



CARBODYSHELL M3,M4 ASSEMBLY DTR30225487/3

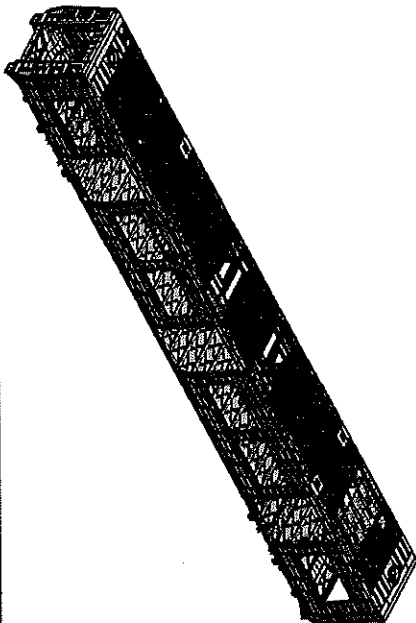
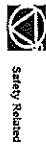
Rev. Project: PRA5A
31 SI:CB2210.254.V30
Date 07/11/2023

Cart: M3 & M4

NCR:

Work station:

CB2210



1 - Documentation and Instruments Control

1.1 - Documentation Control

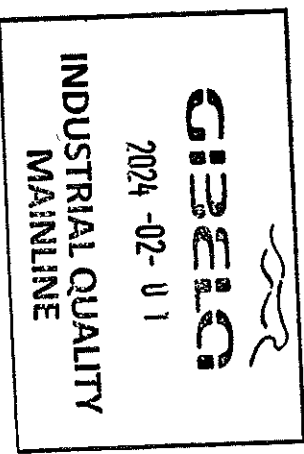
Document	Type of car					Revision	Observation	OK	Signature/Date (Manufacturing)	Signature/Date (Quality)
	CO1	M1	FM	WM	CO2					
DTR30225487/3			X			31		✓	<i>[Signature]</i> 07/11/2023	<i>[Signature]</i> 07/11/2023


1.2 - Instruments Control

Monitoring and Measuring Instrument Control - Used for Special Process						
Instruments	Serial number	Calibration or Verification Validator Date	OK	Signature/Date (Manufacturing)	Signature/Date (Quality)	
TIG WIRE	22713	04/10/25	✓	<i>[Signature]</i> 07/11/2023	<i>[Signature]</i> 07/11/2023	
30M TAP	616TP0084	25/03/31	✓	<i>[Signature]</i> 07/11/2023	<i>[Signature]</i> 07/11/2023	
LASER TAP	125025924	08/0/24	✓	<i>[Signature]</i> 07/11/2023	<i>[Signature]</i> 07/11/2023	


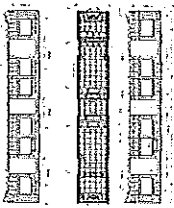
1.3 Consumables


Welding Consumable Control - Used for Special Process							
Filler Material	Heat Number	Welding Process	OK	Signature/Date (Manufacturing)	Signature/Date (Quality)		
AUT7200 308LSI	E221860	MIG	✓	M/10 22/07/24	M/10 22/07/24		
ER 309 LSI	315394	MIG	✓	M/10 22/07/24	M/10 22/07/24		



	CARBODYSHELL M3,M4 ASSEMBLY DTR30225487/3		Rev. 31 Date 07/11/2023	Project: PRASA SI-CB2210.254.V30
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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 (Quality)
01	N/A	Carshell free of significant flaws which compromise the appearance or functionality	DTD00000210675	✓	22/02/24
02	REFER TO ANNEXURE A	Spot welding inspected and approved according to procedure	IND-SAL-WMS-016 o DTD00000210675	✓	22/02/24
03	REFER TO ANNEXURE B	Arc welding inspected and approved according to procedure	IND-SAL-WMS-016 REFER TO GIB - TTPDEF - ARC - 0000	✓	22/02/24
04		Cleaning of all Stainless Steel Surface	According TO GIB-WEL - PROC-0002	✓	22/02/24
05		Functionals dimensions approved according drawing or complementary document approved by Alstom engineering and registered in this document	Approved according specified on pages below.	✓	22/02/24
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 filler sampling as described in DTD00000210658.	As the welding procedure IND-SAL-WMS-018 and DTD00000210658.	✓	22/02/24


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 2024 -02- 01
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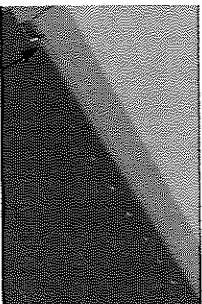


CARBODYSHELL M3,M4 ASSEMBLY DTR30225487/3

Rev.	31	Project: PRASA SI.CB2210.254.V30
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Welding Traceability

Roof ring welds



Boiler maker (Name & Sign): Jim Bell LHS Welder (Name & Sign): William

RHS

Boiler maker (Name & Sign): Laurence RHS Welder (Name & Sign): Robert

END 1

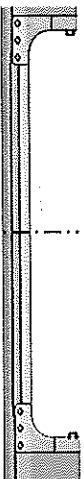
Boiler maker (Name & Sign): Jim Bell LHS Welder (Name & Sign): William

RHS

Boiler maker (Name & Sign): Laurence RHS Welder (Name & Sign): Robert

END 2

Door ring welds



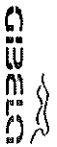
Boiler maker (Name & Sign): Laurence LHS Welder (Name & Sign): Robert

Boiler maker (Name & Sign): Laurence RHS Welder (Name & Sign): Robert

Boiler maker (Name & Sign): Laurence RHS Welder (Name & Sign): Robert

Boiler maker (Name & Sign): Laurence RHS Welder (Name & Sign): Robert

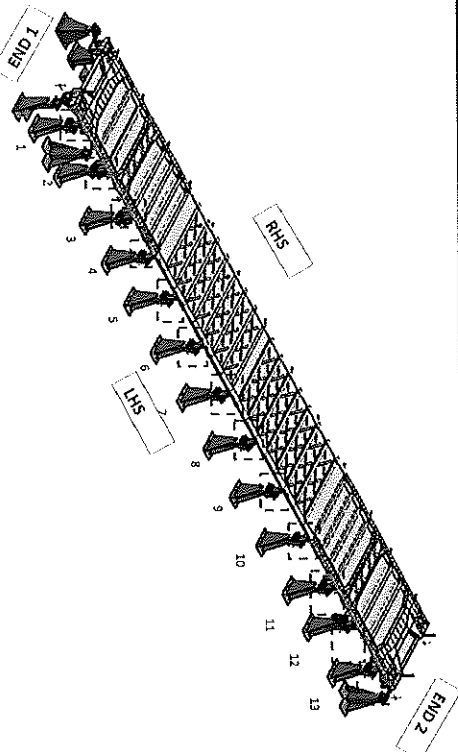
GIBELD
2024-02-01
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MAINLINE



CARBOYSHELL M3,M4 ASSEMBLY DTR30225487/3

Rev.	31	Project: PRASA SI:CB2210.254.V30
Date	07/11/2023	

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 foundon 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													
Right Hand Side													

Signature Operators:

[Signature]

Date: 22/07/24

After Welding.

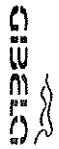
Fill in the gap found each jig pillars / chair and underframe should be 0mm.

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

Signature Industrial Quality:

[Signature]

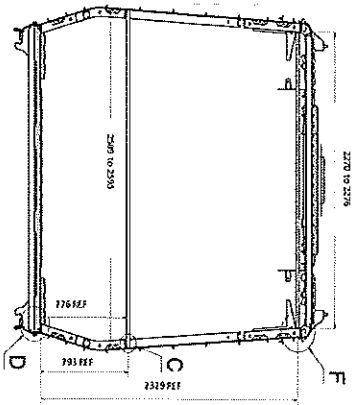
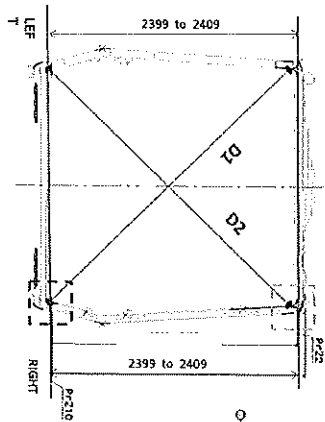
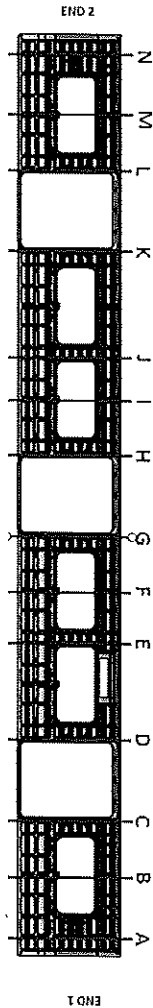
Date:



CARBODYSHELL M3,M4 ASSEMBLY DTR3022548/7/3

Rev.	31	Project: PRASA
Date	07/11/2023	SI.CB2210.254.V30

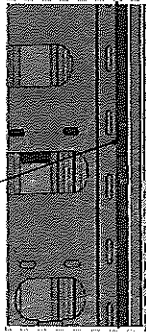
Specifications of Details for GBS measurement



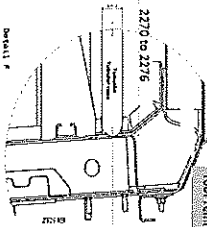
Measurement positions on roof rail and sidewall omega corner.



Measurement positions on sidewall and side sill corner.

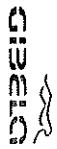


Reinforcement area measurement positions on roof reinforcement area.



Detail F

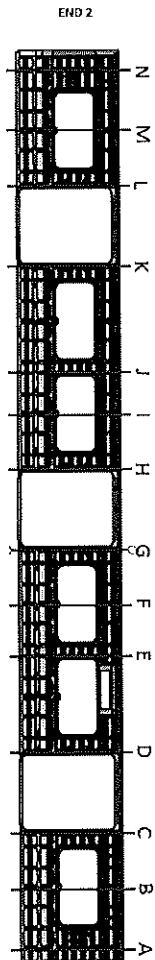
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CARBODYSHELL M3,M4 ASSEMBLY DTR30225487/3

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SI.CB2210.254.V30

Specifications of Details for GBS measurement

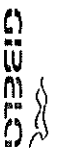


PME Column LHS - RHS should be
≤ 2MM on each point.

BEFORE WELDING

	Record D1 values	Record D2 values	D1-D2 ≤ 5mm	2399 to 2409	2399 to 2409 (RHS)	LHS-RHS ≤ 2
A	3269	3268	1	2405	2407	2
B	3266	3267	1	2406	2405	2
C	3268	3268	0	2406	2406	0
D	3267	3269	2	2407	2405	2
E	3266	3266	0	2404	2404	0
F	3266	3265	1	2406	2405	1
G	3270	3268	2	2405	2404	1
H	3269	3268	1	2406	2406	0
I	3264	3265	1	2404	2405	1
J	3266	3266	0	2407	2406	1
K	3268	3270	2	2405	2405	0
L	3269	3269	0	2405	2406	1
M	3266	3270	4	2405	2404	1
N	3271	3270	1	2406	2408	2

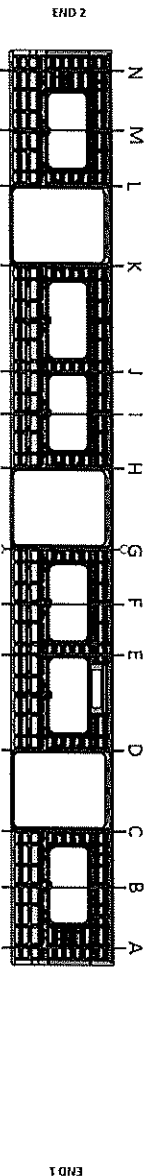

22/02/24



CARBODYSHELL M3,M4 ASSEMBLY DTR30225467/3

Rev. 31
Date 07/11/2023
Project: PRASA
SI.CB2210.254.V30

Specifications of Details for CBS measurement

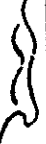


PME Column LHS - RHS should be
≤ 2MM on each point.


AFTER WELDING

Record D1 values		Record D2 values		D1-D2 ≤ 5mm		2399 to 2409	2399 to 2409 (RHS)	LHS-RHS ≤ 2
A	3297	3296		1		2408	2406	2
B	3266	3264		2		2406	2405	1
C	3296	3296		0		2404	2406	2
D	3295	3296		1		2405	2405	0
E	3265	3264		1		2407	2406	1
F	3264	3265		1		2406	2404	2
G	3297	3295		2		2405	2404	1
H	3296	3296		0		2405	2405	0
I	3266	3264		2		2405	2405	0
J	3295	3266		1		2404	2406	2
K	3294	3295		1		2407	2405	2
L	3295	3295		0		2405	2404	1
M	3264	3267		3		2406	2406	0
N	3296	3295		1		2409	2407	2

2402/24

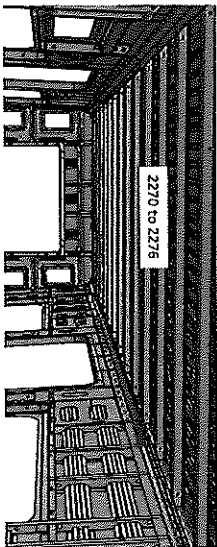
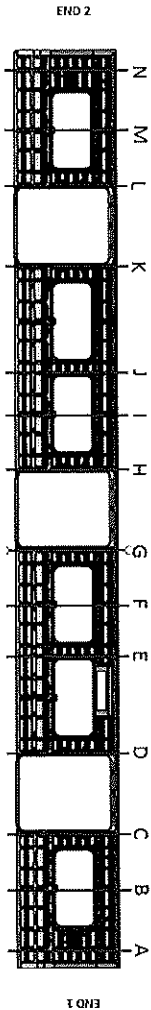


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	CARBODYSHELL M3,M4 ASSEMBLY DTR30225487/3		Rev. 31	Project: PRASA SI.CB2210.254.V30
			Date 07/11/2023	

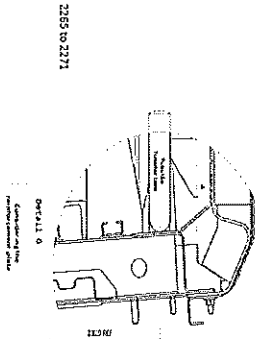
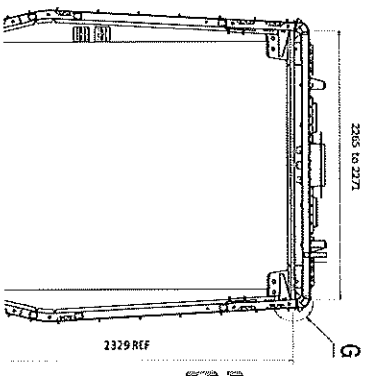
CBS measurement

BEFORE WELDING




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

	2270 to 2276
A	2273
B	2274
C	2270
D	2273
E	2276
F	2276
G	2273
H	2272
I	2276
J	2277
K	2273
L	2270
M	2274
N	2275



20/02/24



2024-02-01

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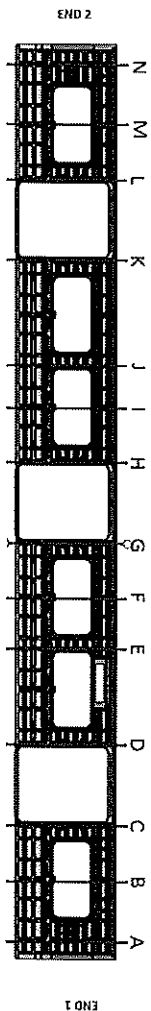


CARBODYSHELL M3,M4 ASSEMBLY DTR30225487/3

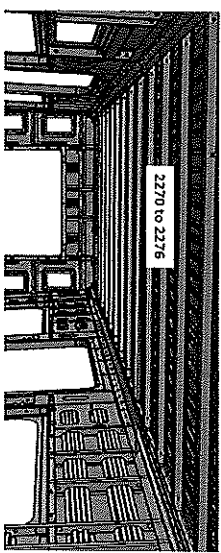
Rev. 31
Date 07/11/2023
Project: PR45A
SI:CB2210.254.V30

CBS measurement

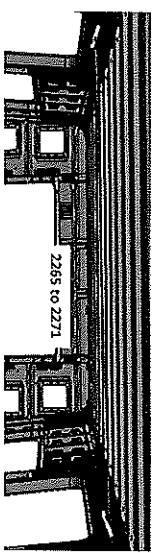
AFTER WELDING



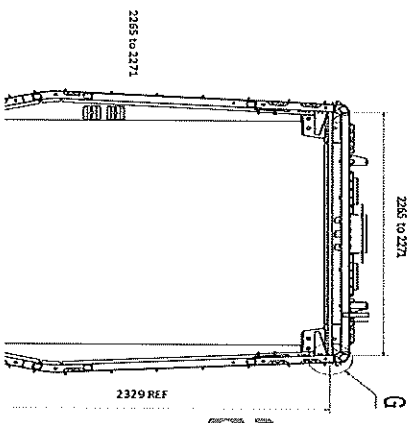
	2265 to 2271	2270 to 2276
A	2270	
B		2274
C	2268	
D	2270	
E		2276
F		2274
G	2265	
H	2269	
I		2275
J		2276
K	2268	
L	2271	
M		2275
N	2268	



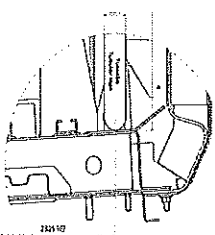
Do not consider reinforcement (Take measurements top area of zec profile



Take measurement close to radius (considering reinforcement)

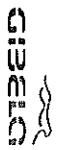


22/02/24



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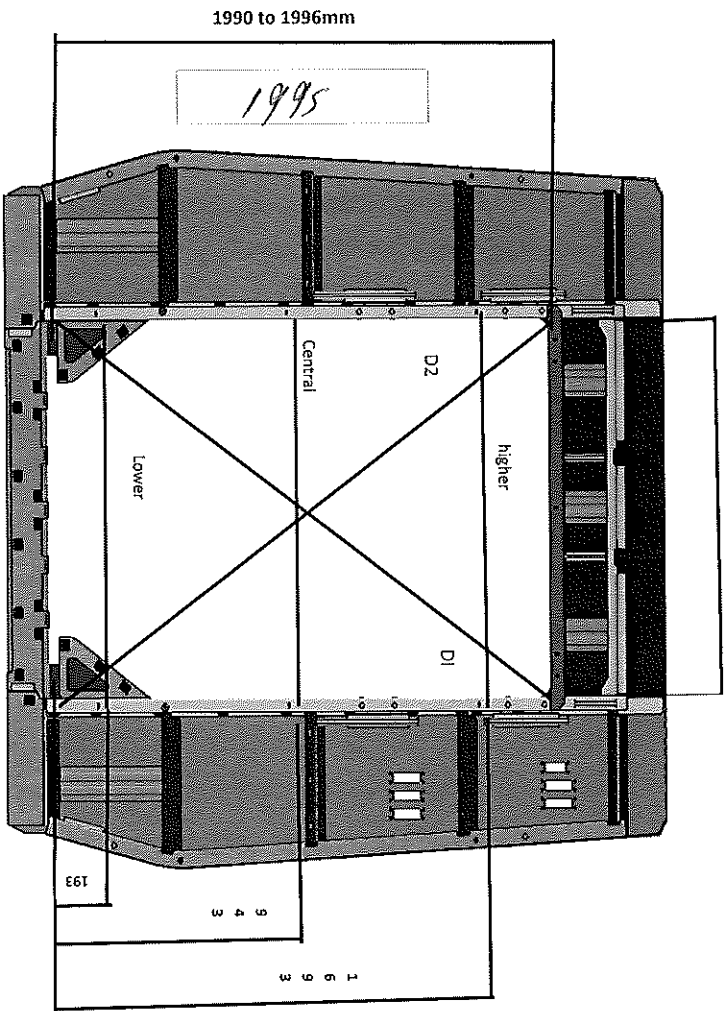


CARBODYSHELL M3,M4 ASSEMBLY DTR302254873

Rev.	31	Project: PRA5A SI:CB2210.254.V30
Date	07/11/2023	

Specifications of Details for CBS measurement

End frame 1



22/02/24

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CARBODYSHELL M3,M4 ASSEMBLY DTR30225487/3

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31	SI,CB2210.254.V30
Date	
07/11/2023	

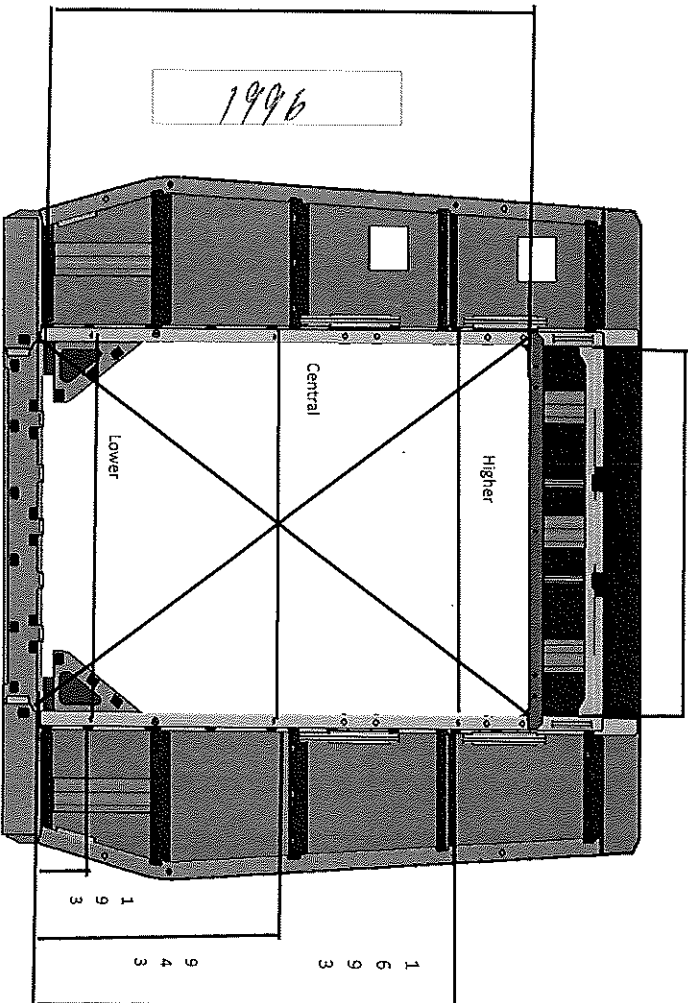
Specifications of Details for GBS measurement

Endframe 2

1380 to 1382 mm

1990 to 1996mm

1996



1390 to 1392 mm

DIAGONAL DIFFERENCE D1-D2 ≤ 3mm

Higher Dimension

1381

D1

2415

Central Dimension

1381

D2

2413

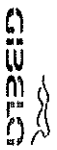
Lower Dimension

1380

D1-D2

0

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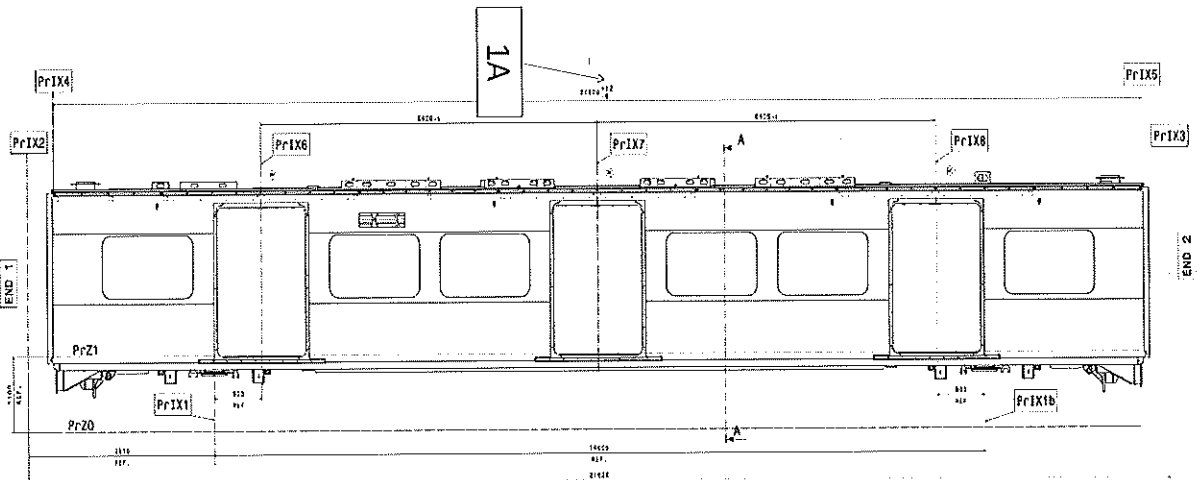
CARBODYSHELL M3,M4 ASSEMBLY DTR30226487/3

Rev.	Project: PRASA
31	SI.CB2210.254.V30
Date	
07/11/2023	

Specifications of Details for: CRS measurement

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

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




Dye penetrant test

Dye-penetration test to be performed by quality personnel



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2024 -02- 01
INDUSTRIAL QUALITY
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	CARBODYSHELL M3,M4 ASSEMBLY DTR302254873	Rev.	Project: PRASA
		31	SI,CR2210.254.V30
		Date	
		07/11/2023	

Self Inspection - Final Result

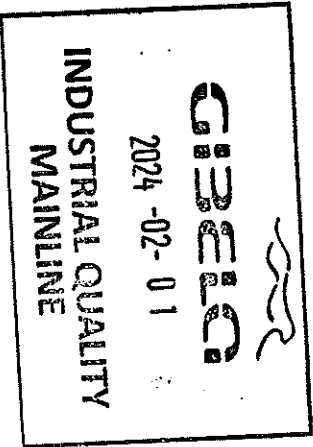
		DATE	NAME	SIGNATURE
HOLD POINT	GO	22/02/24	LMIG Operators	MA
		24/02/24	NTokoro Industrial Quality	PC
			Operators	
			Industrial Quality	

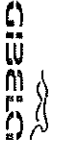
In case of "NO GO", describe blocking problems

In case of "NO GO", the operations manager must define below action plan to ensure "GO".				
Item	Description	Responsible	Due date	Status

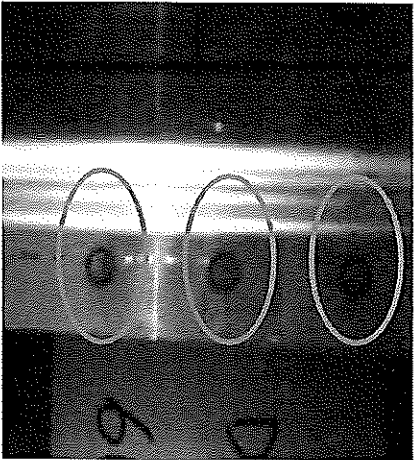
Operations

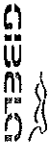
Quality



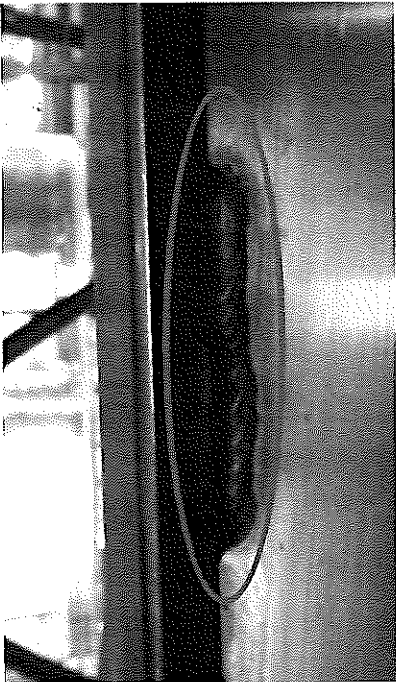
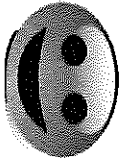
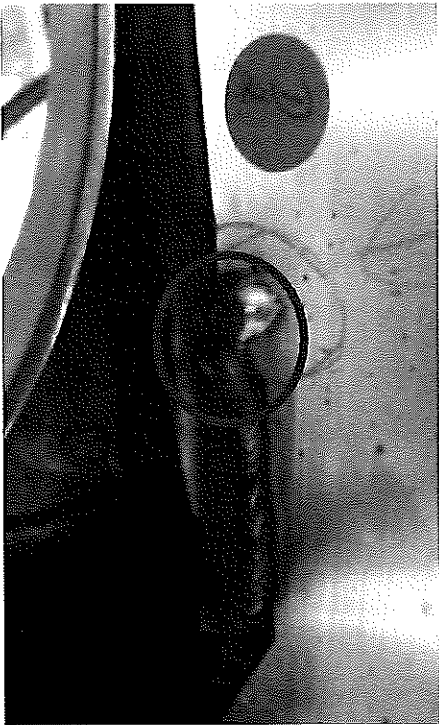
	CARBOYSHELL M3/M4 ASSEMBLY DTR302254873		Project: PRSA SI.CB2210.254.V30
		Rev. 31 Date 07/11/2023	

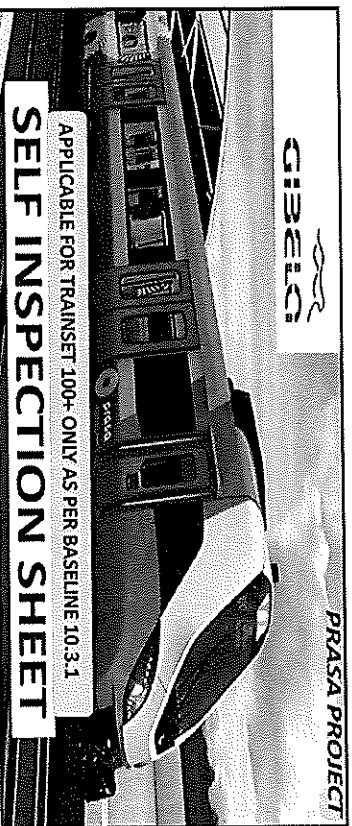
ANNEXURE A: Spot Welding Quality Acceptance Standard



		CARBODYSHELL M3,M4 ASSEMBLY DTR3025487/3		Rev. 31 Date 07/11/2023	Project: PRASA SI.CB2210.254.V30
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ANNEXURE B: Arc Welding Quality Acceptance Standard





CONFIDENTIAL INFORMATION
This document and the information contemplated therein have to be considered as Confidential information pursuant to the provisions of Clause 23 of the MSA, and treated as such.

APPLICABLE FOR TRAINSET 100- ONLY AS PER BASELINE 10.3.1

SELF INSPECTION SHEET

APPLICATION REFERENCE

AMOUNTING	DRAWING	DESCRIPTION	STATION	QA TYPE				WORK INSTRUCTION	SAFETY ?	
				TS	MA	MO	TCI			
<input type="checkbox"/>	DT0002548/2	CARBON STEEL MILWAUKEE	03330		X	X	<input checked="" type="checkbox"/>	PPA.CB2220.DTS021248 7.2.V12	YES	
<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	Imreling Medha	01/02/2018
1	18/05/2018	Team leader and Quality Technician to sign Change final signature from Pipe Manager to Quality manager					CHECKER	Nesio Pindola	01/02/2018	
							COMPLER	Tharpen Maringu	01/02/2018	
							APPROVER	Imreling Medha	18/05/2018	
2	2018/07/05	Certain dimensional checks added and others moved to CB210					CHECKER	Nesio Pindola	18/05/2018	
							REVISOR BY	Ramonele Mearana	18/05/2018	
							APPROVER	Imreling Medha	2018/07/05	
3	2018/06/12	Width tolerance as per DT000038600					CHECKER	Nesio Pindola	2018/07/05	
							REVISOR BY	Nesio Pindola	2018/06/12	
							APPROVER	Imreling Medha	2018/06/12	
5	24/01/2019	As per Baseline 10.2					CHECKER	Nesio Pindola	2018/06/12	
							REVISOR BY	Nesio Pindola	2018/06/12	
							APPROVER	Imreling Medha	24/01/2019	
6	13/03/2019	Added D1 and D2 on Self - Inspection length measurements					CHECKER	Nesio Pindola	24/01/2019	
							REVISOR BY	Nesio Pindola	24/01/2019	
							APPROVER	Imreling Medha	13/03/2019	
10	22/08/2019	New Baseline 10.2.5					CHECKER	Nesio Pindola	13/03/2019	
							REVISOR BY	Nesio Pindola	13/03/2019	
							APPROVER	Imreling Medha	22/08/2019	
15	06/08/2020	New Baseline 10.2.6					CHECKER	Nesio Pindola	22/08/2019	
							REVISOR BY	Nesio Pindola	22/08/2019	
							APPROVER	Imreling Medha	06/08/2020	
20	19/04/2021	New Baseline change 10.3					CHECKER	Nesio Pindola	24/01/2019	
							REVISOR BY	Nesio Pindola	24/01/2019	
							APPROVER	Imreling Medha	19/04/2021	
21	17/08/2021	ADDED DIMENSIONS BEFORE WELDING					CHECKER	Nesio Pindola	13/03/2019	
							REVISOR BY	Nesio Pindola	13/03/2019	
							APPROVER	Imreling Medha	17/08/2021	
25	20/02/2022	New Baseline change 10.3.1					CHECKER	Nesio Pindola	22/08/2019	
							REVISOR BY	Nesio Pindola	22/08/2019	
							APPROVER	Imreling Medha	06/08/2020	
26	14/06/2022	Update minimum temperature requirement for sealant application					CHECKER	Nesio Pindola	19/04/2021	
							REVISOR BY	Nesio Pindola	19/04/2021	
							APPROVER	Imreling Medha	17/08/2021	
27	19/10/2022	Addition of traceability for sealant application & welding					CHECKER	Nesio Pindola	22/08/2019	
							REVISOR BY	Nesio Pindola	22/08/2019	
							APPROVER	Imreling Medha	06/08/2020	
28	14/04/2023	Added sealant batch number & welding consumables traceability					CHECKER	Nesio Pindola	13/03/2019	
							REVISOR BY	Nesio Pindola	13/03/2019	
							APPROVER	Imreling Medha	17/08/2021	
29	28/10/2023	Addition of bracket quantity					CHECKER	Nesio Pindola	22/08/2019	
							REVISOR BY	Nesio Pindola	22/08/2019	
							APPROVER	Imreling Medha	06/08/2020	
TRAINSET	CAR	OPERATOR NAME/ALPS NO	DATE	SELF INSPECTION NUMBER				PAGES		
213	M3	426954	23/02/24	SI.CB2220.250.V29				13		

INDUSTRIAL QUALITY
MAINLINE
2024-02-01



CARBODYSHELL M1.M3.M4 ASSEMBLY
DTR302254872

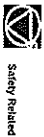
Rev. 29
Date 28/10/2023
Project: PR05A
SI.CB2220.250.V29

Chf: M1.M3.M4

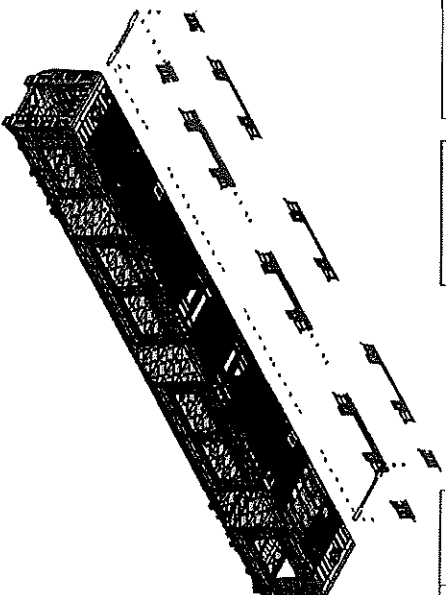
NGR:

Work station:

CB2220



Safety Related



I - Documentation and Instruments Control

I.1 - Documentation Control

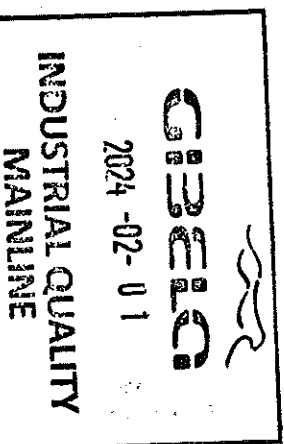
Document	Type of car					Revision	Observation	OK	Signature/Datc (Manufacturing)	Signature/Datc (Quality)
	TO1	M1	M2	M3	TO1					
DTR302254872						29	23/02/24	✓	N/A	29/02/24 5 23/02/24

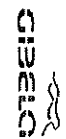
I.2 - Instruments Control

Monitoring and Measuring Instrument Control - Used for Special Process					
Instruments	Serial number	Calibration or Verification Validation Date	OK	Signature/Datc (Manufacturing)	Signature/Datc (Quality)
Type measure	GSR1057	2024/04/05	✓	29/02/24	29/02/24
Tuboulet	22713	03/03/2024	✓	29/02/24	29/02/24

I.3 Consumables

Welding Consumable Control - Used for Special Process					
Filler Material	Heat Number	Welding Process	OK	Signature/Datc (Manufacturing)	Signature/Datc (Quality)
308	B31067	308 MIG	✓	29/02/24	29/02/24












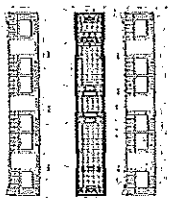


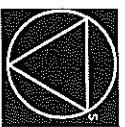








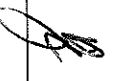


CARBODYSHELL M1,M3,M4 ASSEMBLY
DTR302254872

Rev.
29
Date
29/02/2023
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SI.CB2220.250.V29

II - Self Inspection - Items to Check

II.1 - Items to check

Item	Picture/Viewing	Description	Acceptance criteria / Record	OK	Signature/Date (Manufacturing)	Signature/Date (Quality)
01	N/A	Assembly according to Instruction Engineering n° PRA.CB2220.DTR302254872 Verification of filament for all reinforcement brackets.	PRA.CB2220.DTR302254872	<input checked="" type="checkbox"/>	 23/02/24	 23/02/24
02	N/A	Checklist free of significant flaws which compromise the appearance or functionality	DTD000210675	<input checked="" type="checkbox"/>	 23/02/24	 23/02/24
03	REFER TO ANNEXURE A	Arc Welding inspected and approved according procedure.	IND-SAL-WMS-016 REFER TO GIB - TYPDEF - ARC - 0000	<input checked="" type="checkbox"/>	 23/02/24	 23/02/24
04		Cleaning of all Stainless Steel Surface	According TO GIB-WEL - PROC- 0002	<input checked="" type="checkbox"/>	 23/02/24	 23/02/24
05		Functional dimensions approved according drawing or complementary document approved by Alstom engineering and registered in this document.	Approved according specified on pages below.	<input checked="" type="checkbox"/>	 23/02/24	 23/02/24
06		Perform visual inspection of welds in 100% of the project. Run by potentiost testing in electric arc welding (weld ring) to IND-SAL-WMS-028. Run by potentiost testing welds (weld ring) and fillet stamping as described in DTD000210658.	As the welding procedure IND-SAL-WMS- 028 and DTD0000210658.	<input checked="" type="checkbox"/>	 23/02/24	 23/02/24
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 10°C - Max-Max 35°C Relative humidity Min - Max-Max 25% - Max 100% Max 100%	Sealant Batch No: <u>LS 003</u> Exp Date: <u>1/02/24</u> Actuals Temperature: <u>17°C</u> Humidity: <u>77%</u>	<input checked="" type="checkbox"/>	 23/02/24	 23/02/24
08	N/A	Verification of sealant application in certain regions in the drawing.	AAD0001278556	<input checked="" type="checkbox"/>	 23/02/24	 23/02/24
09		Verification of safety welds	Approved according to DTD000210658 reference and Self inspection	<input checked="" type="checkbox"/>	 23/02/24	 23/02/24

GIBELCO



2024 -02- 01

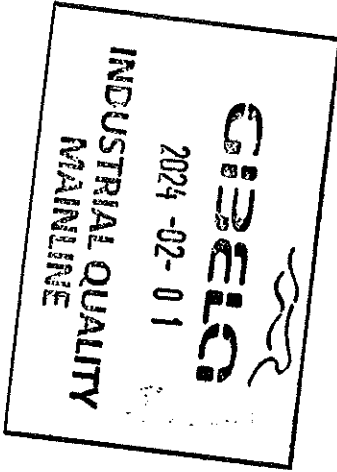
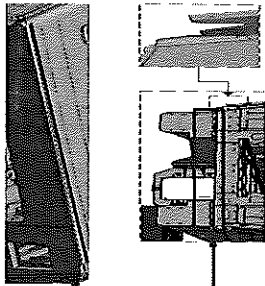
**INDUSTRIAL QUALITY
MAINLINE**

	Rev. 29 Project: PRASA	
	CARBODYSHELL M1,M3,M4 ASSEMBLY DTR302Zs487/2	
CIBELCO	II - Self Inspection - Items to Check	

SEALANT APPLICATION

AREA 1 & 2 END 1

Operator (Name & sign):
 Mthwaczis: 
 Operator (Name & sign):
 Mthwaczis: 

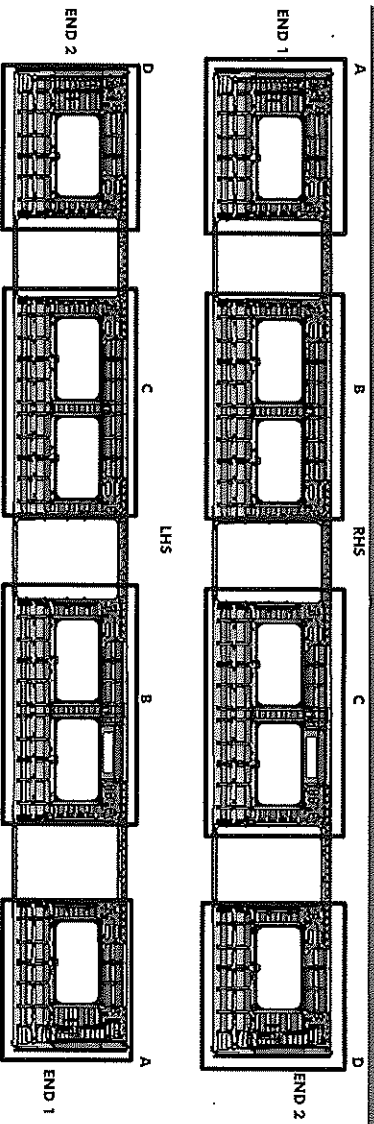




CARBODYSHELL M1.M3.M4 ASSEMBLY
DTR3022548712

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

II - Self Inspection - Items to Check



BRACKETING

C-RAILS:

Operator:

ben *[Signature]*

DOOR MECHANISMS:

Operator:

Tetelo *[Signature]*

TAPPING PADS

Operator:

Tetelo *[Signature]*

SEAT & LUGGAGE BRACKETS:

Operator:

Miguel *[Signature]*

SEAT BRACKETS VERIFICATION:

Operator:

Ksandra

Operator:

Operator:

INSTALLATION & VERIFICATION

CIBELCO

2024-02-01

**INDUSTRIAL QUALITY
MAINLINE**

AREA

LHS

A (Seat brackets)

: Operator (Name&sign):

[Signature]

(C-rails, Luggage and earth bushes) : Operator (Name&sign):

[Signature]

B (Seat brackets)

: Operator (Name&sign):

[Signature]

(C-rails, Luggage and earth bushes) : Operator (Name&sign):

[Signature]

C (Seat brackets)

: Operator (Name&sign):

[Signature]

(C-rails, Luggage and earth bushes) : Operator (Name&sign):

[Signature]

D (Seat brackets)

: Operator (Name&sign):

[Signature]

(C-rails, Luggage and earth bushes) : Operator (Name&sign):

[Signature]

ENDS

END 1 TAPPING PADS WELDING: Operator (Name&sign):

[Signature]

END 1 TAPPING PADS WELDING: Operator (Name&sign):

[Signature]

END 2

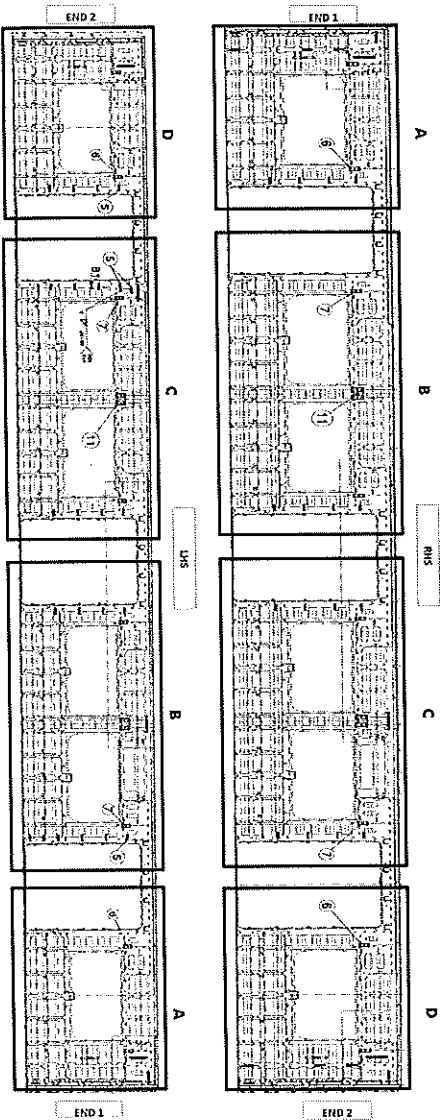


CARBODYSHELL M1, M3, M4 ASSEMBLY
DTR30225487/2

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

II - Self Inspection - Items to Check

M1/M3/M4 BRACKET INSTALLATION



QUANTITIES (M3/M4)

RHS

SECTION	QUANTITY	OK	NOK
C-RAILS	A 7	✓	
	B 4	✓	
	C 8	✓	
	D 10	✓	
SEAT BRACKETS	A 13	✓	
	B 21	✓	
	C 21	✓	
	D 13	✓	
EARTH BUSH	A 3	✓	
	B 5	✓	
	C 5	✓	
	D 3	✓	

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

LHS

SECTION	QUANTITY	OK	NOK
C-RAILS	A 2	✓	
	B 6	✓	
	C 10	✓	
	D 18	✓	
SEAT BRACKETS	A 13	✓	
	B 21	✓	
	C 21	✓	
	D 13	✓	
EARTH BUSH	A 3	✓	
	B 5	✓	
	C 5	✓	
	D 3	✓	

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

QUANTITIES (M1)

RHS

SECTION	QUANTITY	OK	NOK
C-RAILS	A 7		
	B 4		
	C 8		
	D 10		
SEAT BRACKETS	A 13		
	B 21		
	C 21		
	D 13		
EARTH BUSH	A 3		
	B 5		
	C 5		
	D 3		

ROOF ENDS:
CRAILS 2 OFF EACH END
EARTH BUSH 6 OFF EACH END
VERIFICATION BY: N/A

LHS

SECTION	QUANTITY	OK	NOK
C-RAILS	A 10		
	B 11		
	C 13		
	D 21		
SEAT BRACKETS	A 13		
	B 21		
	C 21		
	D 13		
EARTH BUSH	A 3		
	B 5		
	C 5		
	D 3		

ROOF ENDS:
CRAILS 2 OFF EACH END
EARTH BUSH 6 OFF EACH END
VERIFICATION BY: N/A

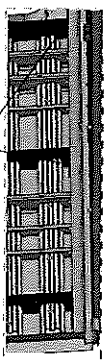
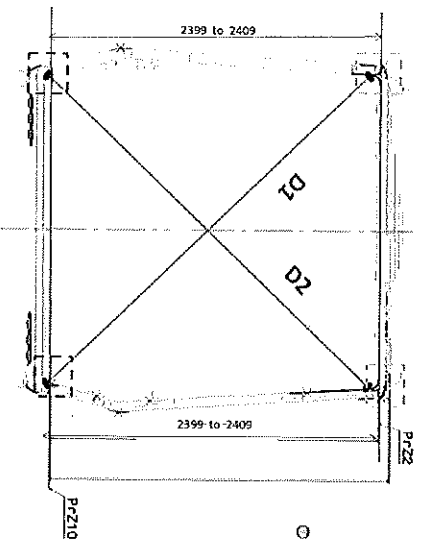
GIBCO
2024-02-01
INDUSTRIAL QUALITY
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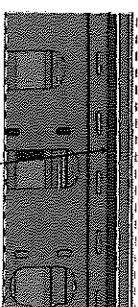
CARBODYSHELL M1,M3,M4 ASSEMBLY
DTR302ZS487/2

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

Specifications of Details for CBS measurement



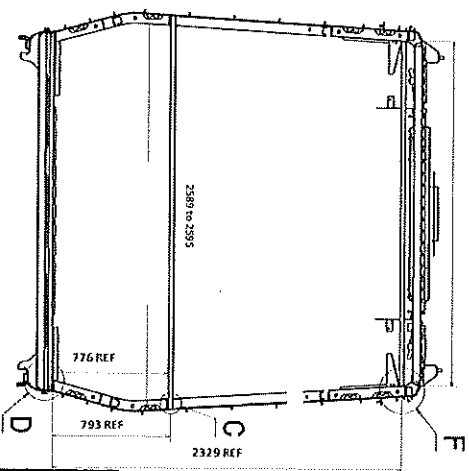
Measurement positions on roof rail and sidewall corner corner



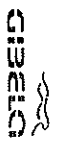
Reinforcement measurement positions on roof rail/sidewall corner area



Measurement positions on sidewall and side sill corner



GIBECO
2024-02-01
INDUSTRIAL QUALITY
MAINLINE



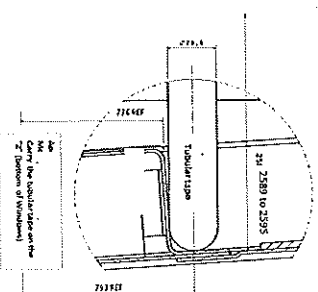
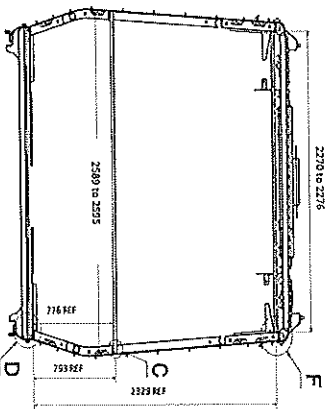
CARBODYSHELL M1,M3,M4 ASSEMBLY
DTR30225487/2

Rev.
29
Date
28/10/2023

Project: PRASA

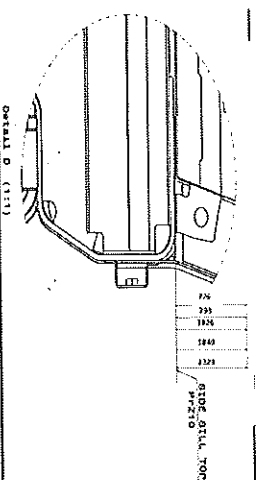
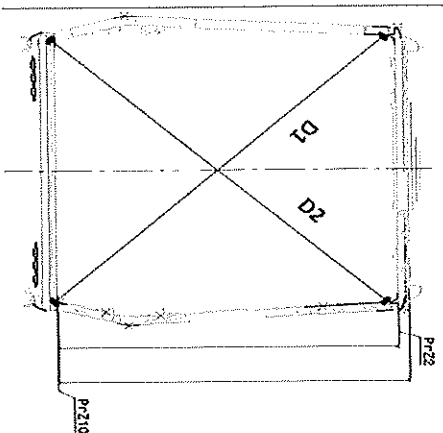
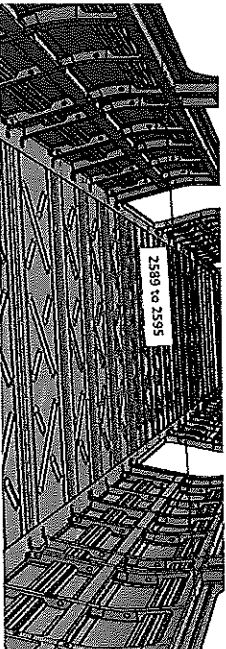
SI.CB2220.250.V29

GAS measurement




Detail C

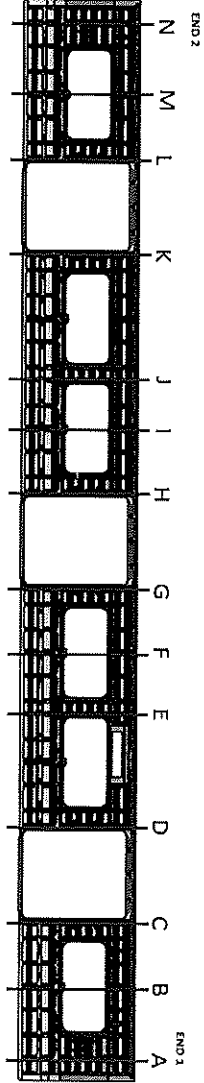
Take measurement close to
radius



Detail D (1:1)

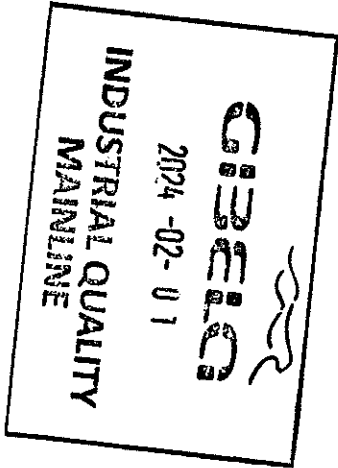
GIBCO
2024-02-01
INDUSTRIAL QUALITY
MAINLINE

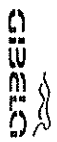
	CARBODYSHELL M1,M3,M4 ASSEMBLY			Project: PRASA
	DTR302254872			
	Rev.	29	Date	
	28/10/2023			
SI.CB2220.250.V29				
GIS measurement				



BEFORE WELDING

	Record D1 values	Record D2 values	D1-D2 ≤ 5mm	2589 to 2595
A	3304	3299	5	-
B	3274	3264	10	-
C	3300	3298	2	-
D	3299	2397	0	-
E	3265	3265	3	-
F	3268	3265	3	-
G	3299	3298	1	-
H	3296	3299	4	-
I	3265	3267	2	-
J	3266	3265	1	-
K	3300	3297	3	-
L	3297	3297	0	-
M	3267	3265	2	-
N	3297	3300	3	-

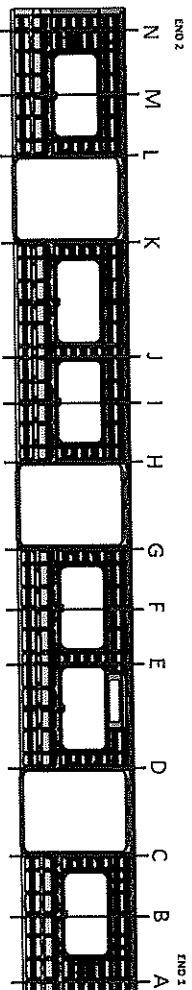




CARBODYSHELL M1,M3,M4 ASSEMBLY
DTR3022548712

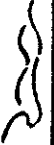
Rev.	Project: PRASA
29	
Date	
28/10/2023	S1.CB2220.250.V29

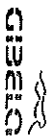
GIBECO measurement



AFTER WELDING

	Record D1 values	Record D2 values	D1-D2 ≤ 5mm	2589 to 2595
A	3304	3289	5	2594
B	3274	3264	10	2589
C	3304	3285	9	2590
D	3361	3299	5	2593
E	3272	3265	10	2592
F	3272	3262	10	2590
G	3302	3296	6	2593
H	3299	3299	0	2592
I	3268	3267	1	2591
J	3270	3268	2	2594
K	3302	3299	5	2590
L	3301	3301	0	2592
M	3270	3267	3	2589
N	3297	3299	2	2595

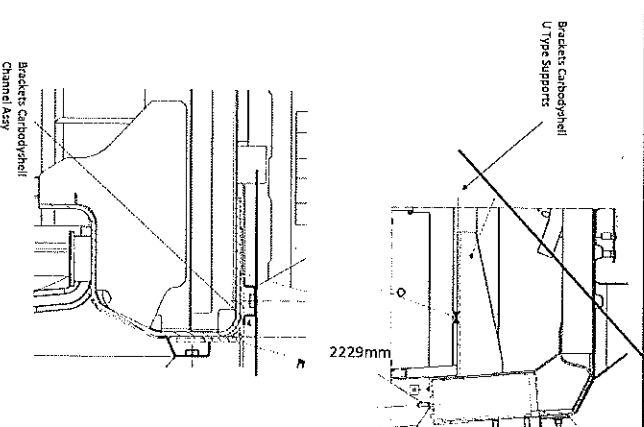
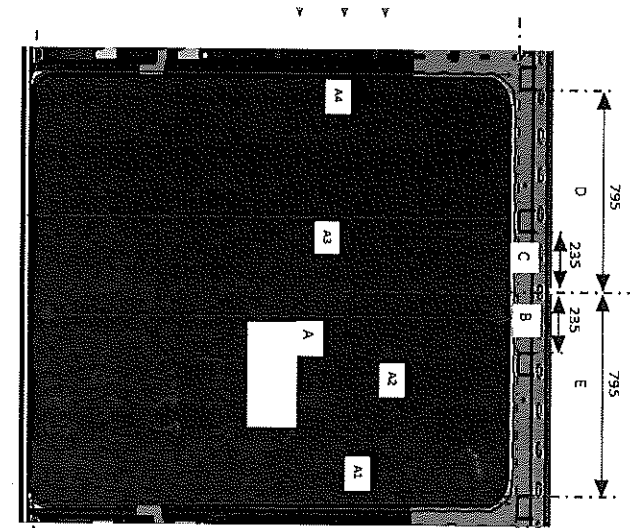

GIBECO
2024 -02- 01
INDUSTRIAL QUALITY
MAINLINE



CARBODYSHELL M1,M3,M4 ASSEMBLY
DTR302284872

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

Specifications of Details for CBS measurement CB1220



DOOR 1 - LHS

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

DOOR 2 - LHS

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

DOOR 2 - LHS

VALUE	ACTUAL
A1 2230 to 2232	2234
A2 2230 to 2232	2234
A3 2230 to 2232	2234
A4 2230 to 2232	2234
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	2230
A2 2230 to 2232	2230
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 2 - RHS

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

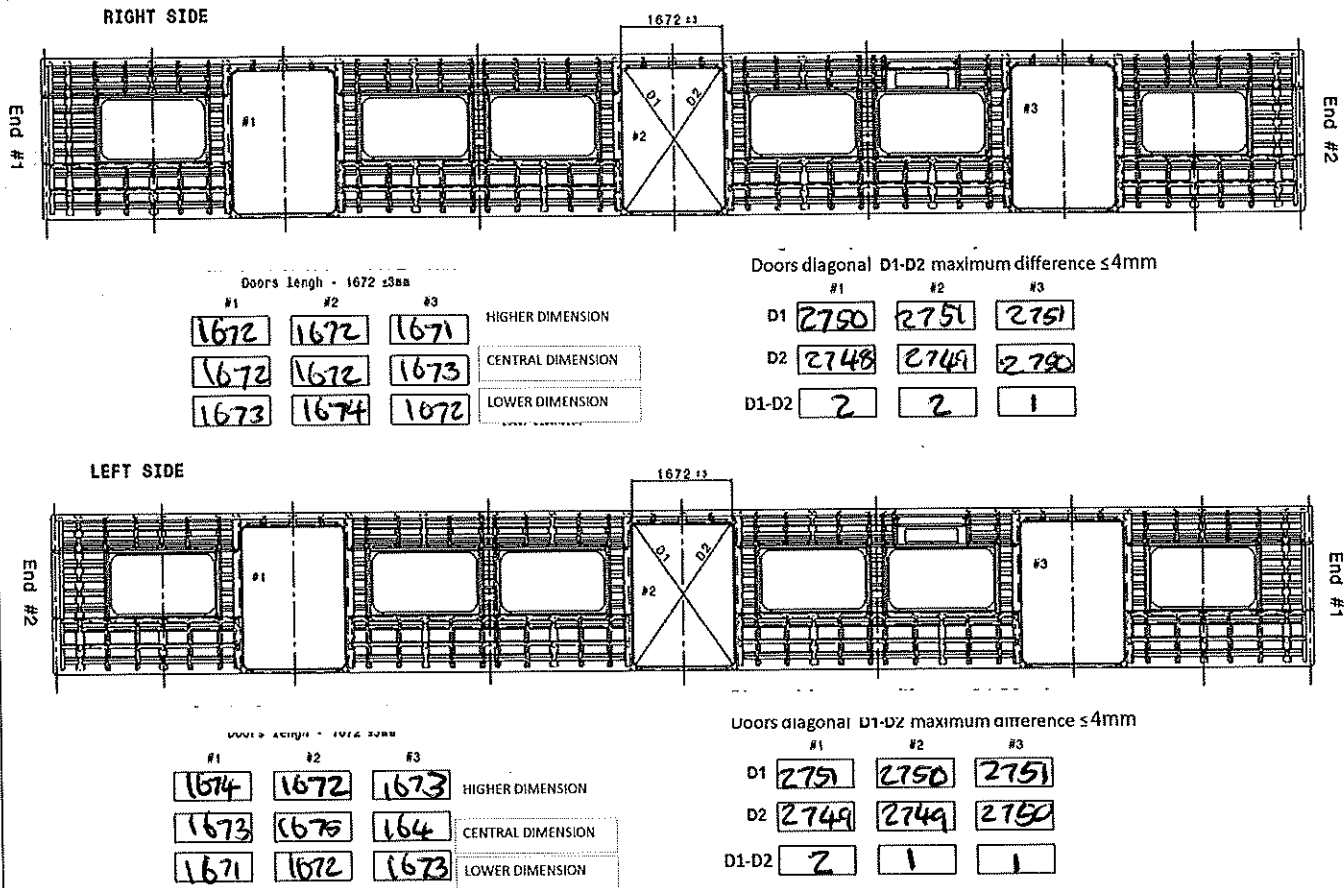
DOOR 3 - RHS


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

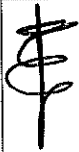



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 GIBELCO	CARBODYSHELL M1,M3,M4 ASSEMBLY DTR3022548712		Rev. 29	Project: PRASA
			Date 28/10/2023	SI.CB2220.250.V29
	Self Inspection - Final Result			

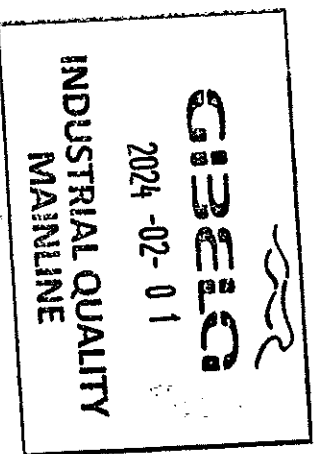
Is the cargo to advance to the next workstation/process? (Approval of Operations Manager and Industrial Quality)		DATE	NAME	SIGNATURE
HOLD POINT	GO	23/02/24	Mthadisi	
		23/02/24	Mthadisi	
			Operations	
			Industrial Quality	

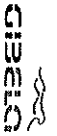
In case of "NO GO", describe blocking problems

In case of "NO GO", the operations manager must define below action plan to ensure "GO":				
Item	Description	Responsible	Due date	Status

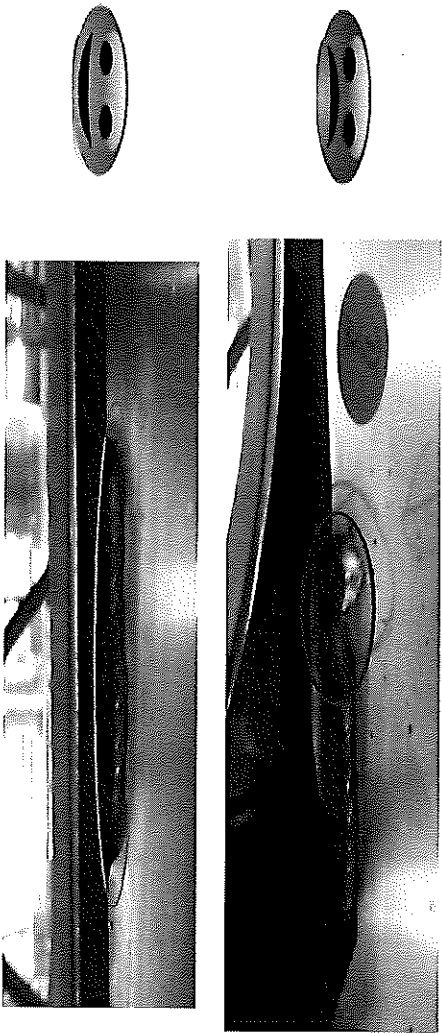
Operations

Quality



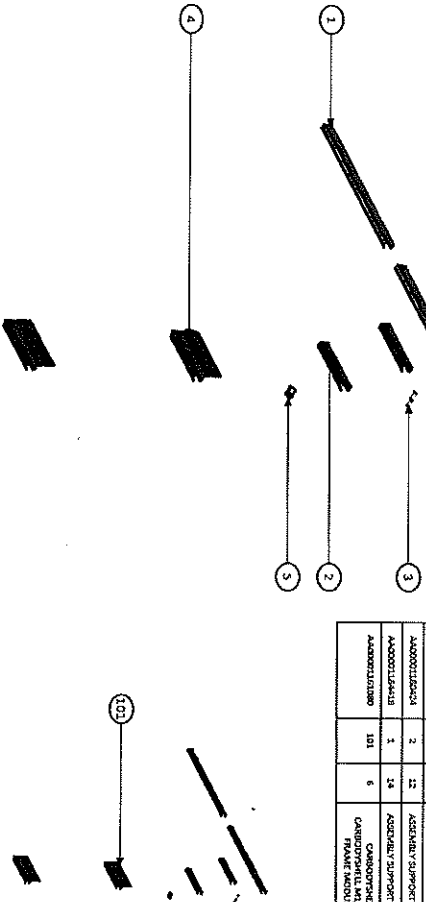
	CARBODYSHELL M1,M3,M4 ASSEMBLY DTR30225487/2		Rev	Project: PRASA
			29 Date	SI.CB22220.250.V29
		28/10/2023		

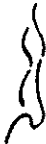
ANNEXURE A: Arc Welding Quality Acceptance Standard



Station: CB1220-004- U108 & U107

Part No.	Item No.	Qty	Description	Mass (kg)
DTROCD7000A	5	6	Left Stud 6	0.036
AA0000101040	4	6	Assembly Support	0.271
DTROCD1000S	3	12	Welding Stud 100100A P1 - A0020 - 20	0.007
AA00001000A	2	12	Assembly Support	0.191
AA00001000A	1	24	Assembly Support	0.532
AA000010000	101	6	Carbodyshell Brackets Frame Module End - 099	10.02





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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 ?	
				TG1	M1	M2	M3	TG2			
<input type="checkbox"/>	DT0000025487	AAD0001278566	CABODYSHELL M1,M3,M4 ASSEMBLY	CB2230		X	X	<input checked="" type="checkbox"/>	PRACB2230.DT000002 25487.V20	YES	
<input type="checkbox"/>											
<input type="checkbox"/>											
REV	DATE	MODIFICATION CONTENT							RESPONSIBLE	NAME	DATE
0	2018/08/02	GIBELA NEW CREATION							APPROVER	Philippe Marques	2018/08/02
									CHECKER	Nosizo Pindela	2018/08/02
									COMPILER	Nosizo Pindela	2018/08/02
1	30/5/2018	Team leader and Quality Technician to sign Change final signature from PME Manager to Quality manager							APPROVER	Izumeleing 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	Izumeleing 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	Izumeleing 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	Izumeleing 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	Izumeleing 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	06/08/2020
									REVISED BY	Bongane Masina	06/08/2020
20	19/04/2021	New Baseline change 10.3							APPROVER	Timothy Maimela	19/04/2021
									CHECKER	Bongane Masina	19/04/2021
									REVISED BY	Bongane Masina	19/04/2021
25	20/02/2022	New Baseline change 10.3.1							APPROVER	Andani Muthelo	20/02/2022
									CHECKER	Andani Muthelo	20/02/2022
									REVISED BY	Andani Muthelo	20/02/2022
26	14/06/2022	Update minimum temperature requirement for sealant application							APPROVER	Collins Mkhombhi	14/06/2022
									CHECKER	Andani Muthelo	14/06/2022
									REVISED BY	Andani Muthelo	14/06/2022
27	26/07/2022	Threshold measurements addition							APPROVER	Collins Mkhombhi	26/07/2022
									CHECKER	Andani Muthelo	26/07/2022
									REVISED BY	Andani Muthelo	26/07/2022
28	17/10/2022	Added traceability of sealant application							APPROVER	Collins Mkhombhi	17/10/2022
									CHECKER	Nitokozo Zwane	17/10/2022
									REVISED BY	Amogelang Moshampe	17/10/2022
29	14/04/2023	Added sealant batch number & welding consumables traceability							APPROVER	Vanessa Ntuli	14/04/2023
									CHECKER	Nitokozo Zwane	14/04/2023
									REVISED BY	Amogelang Moshampe	14/04/2023
30	06/11/2023	Added threshold traceability for boiler makers and welders							APPROVER	Ngobeni Tyson	06/11/2023
									CHECKER	Andani Muthelo	06/11/2023
									REVISED BY	Nitokozo Zwane	06/11/2023
TRAINSET	CAR	OPERATOR NAME ALPS NO	DATE		SELF INSPECTION NUMBER				PAGES		
213	M3	Levy	23/02/2024	SI.CB2230.256.V29				12			



CARBODYSHELL M1,M3,M4 ASSEMBLY
DT00000225487

Rev. 30
Date 06/11/2023
Project: PRASA
SI.CB2230.256.V29

Car:

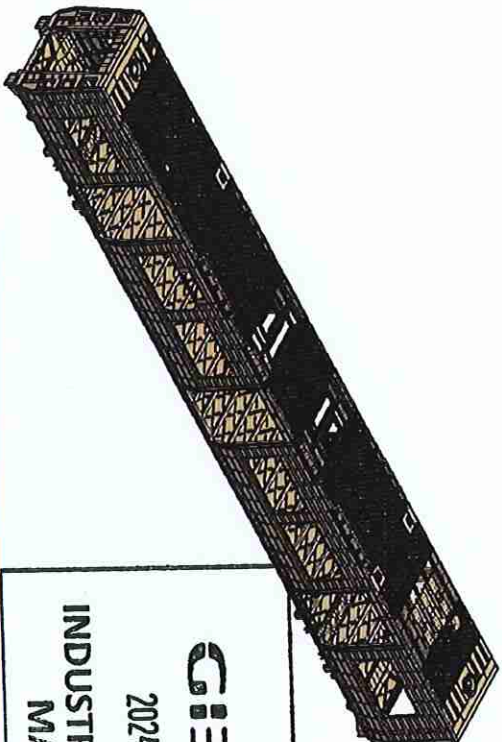
NCR:

Work station:

CB2230




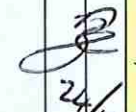
Safety Related



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I - Documentation and Instruments Control


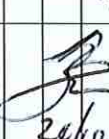
I.1 - Documentation Control

Document	Type of car				Revision	Observation	OK	NOK	Rework	Signature/Date (Operations)	Signature/Date (Quality)
	M1	M2	M3	M4							
PRA.CB2230.DT00000225487					30				N/A	 24/02/24	 24/02/24

I.2 - Instruments Control

Monitoring and Measuring Instrument Control - Used for Special Process						
Instruments	Serial number	Calibration or Verification Validation Date	OK	NOK	Signature/Date (Operations)	Signature/Date (Quality)
Tubular	12602	2024/02/19	✓		Signature 24/02/24	Signature 24/02/24
Combination Square	GIBCS0074	2024/01/11	✓		Signature 24/02/24	
Measuring Tape	GIBTA0230	2023/03/30	✓		Signature 24/02/24	Signature 24/02/24

1.3 Consumables

Welding Consumable Control - Used for Special Process						
Filler Material	Heat Number	Welding Process	OK	NOK	Signature/Date (Manufacturing)	Signature/Date (Quality)
fluxed 308 LSi	E23167	MIG	✓		 24/02/24	 24/02/24



CARBODYSHELL M1,M3,M4 ASSEMBLY
DT00000225487

Rev.
30
Date
06/11/2023

Project: PRASA

SI.CB2230.256.V29

II - Self Inspection - Items to Check

II.1 - Items to check

Item	Picture/Drawing	Description	Acceptance criteria / Record	OK	NOK	Rework	Signature/Date (Operations)	Signature/Date (Quality)
01	N/A	Assembly according to Instruction Engineering n° PRA.CB1 230.DT00000225487 Verification of fitment for all brackets.	PRA.CB1 230.DT00000225487	✓			 23/02/24	 22/02/24
02	N/A	Carshell free of significant flaws which compromise the appearance or functionality	DTD00000210675	✓			 23/02/24	 22/02/24
03	REFER TO ANNEXURE A	Arc Welding inspected and approved according procedure.	IND-SAL-WMS-016 REFER TO GIB - TYPEDEF - ARC - 0000	✓			 23/02/24	 22/02/24
04		Cleaning of all Stainless Steel Surface	According TO GIB-WEL - PROC-0002	✓			 23/02/24	 22/02/24
05		Functional dimensions approved according drawing or complementary document approved by Alstom engineering and registered in this document.	Approved according specified on pages below.	✓			 23/02/24	 24/02/24
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 filler sampling as described in DTD00000210658.	As the welding procedure IND-SAL-WMS-018 and DTD00000210658.	✓			 23/02/24	 24/02/24
07	N/A	Before application of sealant record the expiry date and make sure that the room temperature and humidity are within specified values as per Works Instructions Specified: Temperature Min - Max (°) Min-Max 10°C - 35°C Relative Humidity Min - Max (%) 25% - 80% Max (°)	Sealant Batch No: <u>15R 70-30</u> Exp Date: <u>05/24</u> Actuals Temperature: <u>24°C</u> Humidity: <u>47%</u>	✓			 23/02/24	 24/02/24
08	N/A	Verification of sealant application on the roof and sidewall finishers.	Sealant must be: -Applied straight and even -Free of gaps, cracks, damage and debris (flashes, dirt, dust) Refer to Annexure B	✓			 23/02/24	 22/02/24
09	N/A	Verification of sealant application in certain regions in the drawing.	AAD0001278566				 23/02/24	 22/02/24

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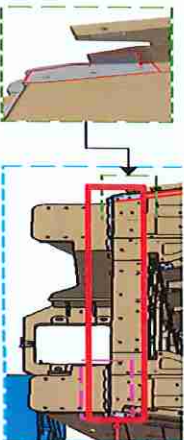
CARBODYSHELL M1,M3,M4 ASSEMBLY
DT00000225487

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30
Date
06/11/2023

Project: PRASA
SI.CB2230.256.V29

II - Self Inspection - Items to Check

AREA 1



OPERATOR
(Name & sign):

Lenny

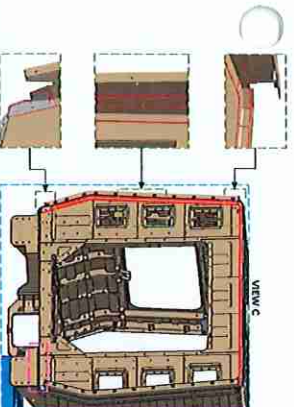
OPERATOR
(Name & sign):

Lenny

OPERATOR
(Name & sign):

Lenny

AREA 2 (VIEW C)



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

Operator (Name & sign):

FJ D, E, G, H, I

LHS

RHS

FJ D Nonhlanhla

Operator (Name & sign):

LERATO

Nonhlanhla

Operator (Name & sign):

HI Bottom

FHI Bottom

Operator (Name & sign):

LERATO

LERATO

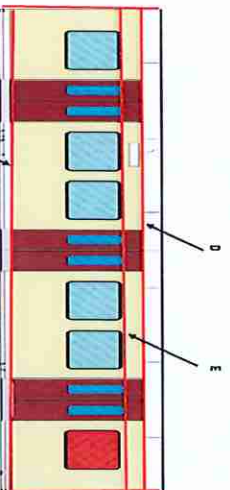
Operator (Name & sign):

Operator (Name & sign):

D, E (HI) top
Sine &

Shendo

H

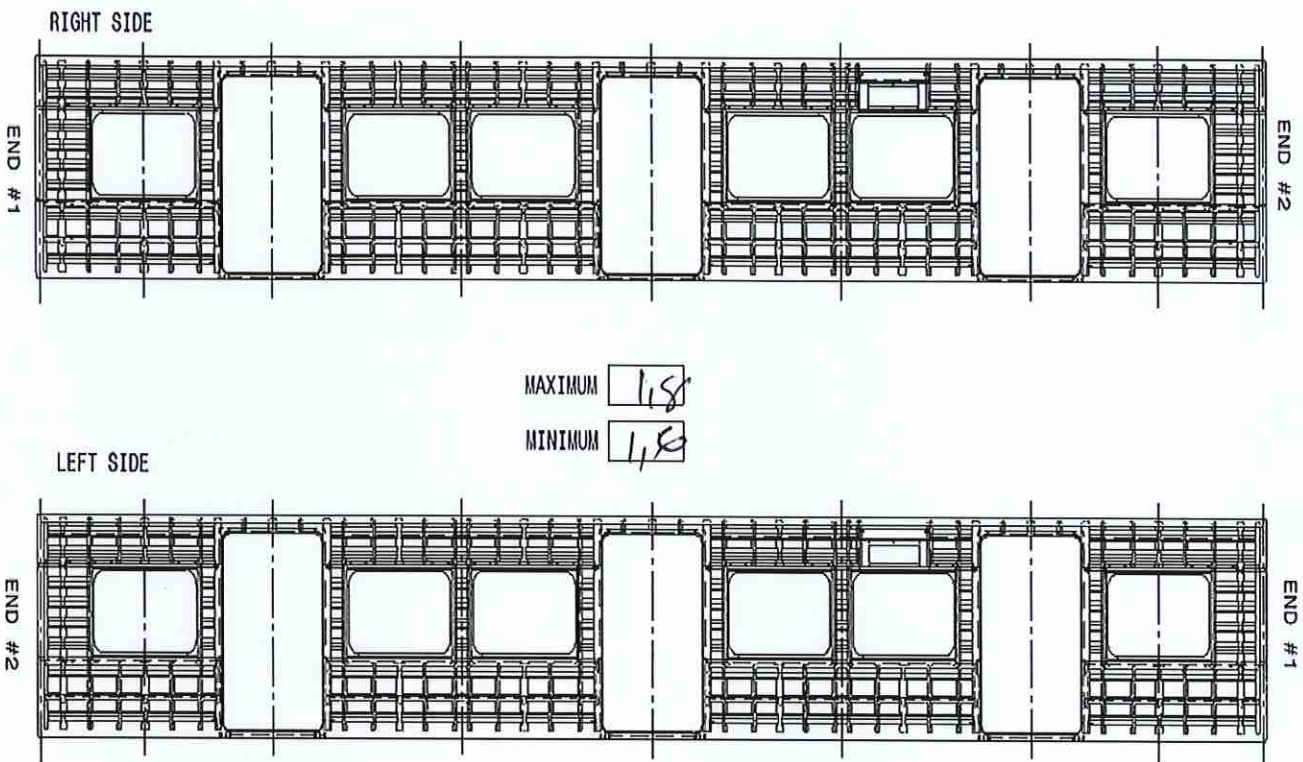


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Specifications of Details for CBS measurement CB1230

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





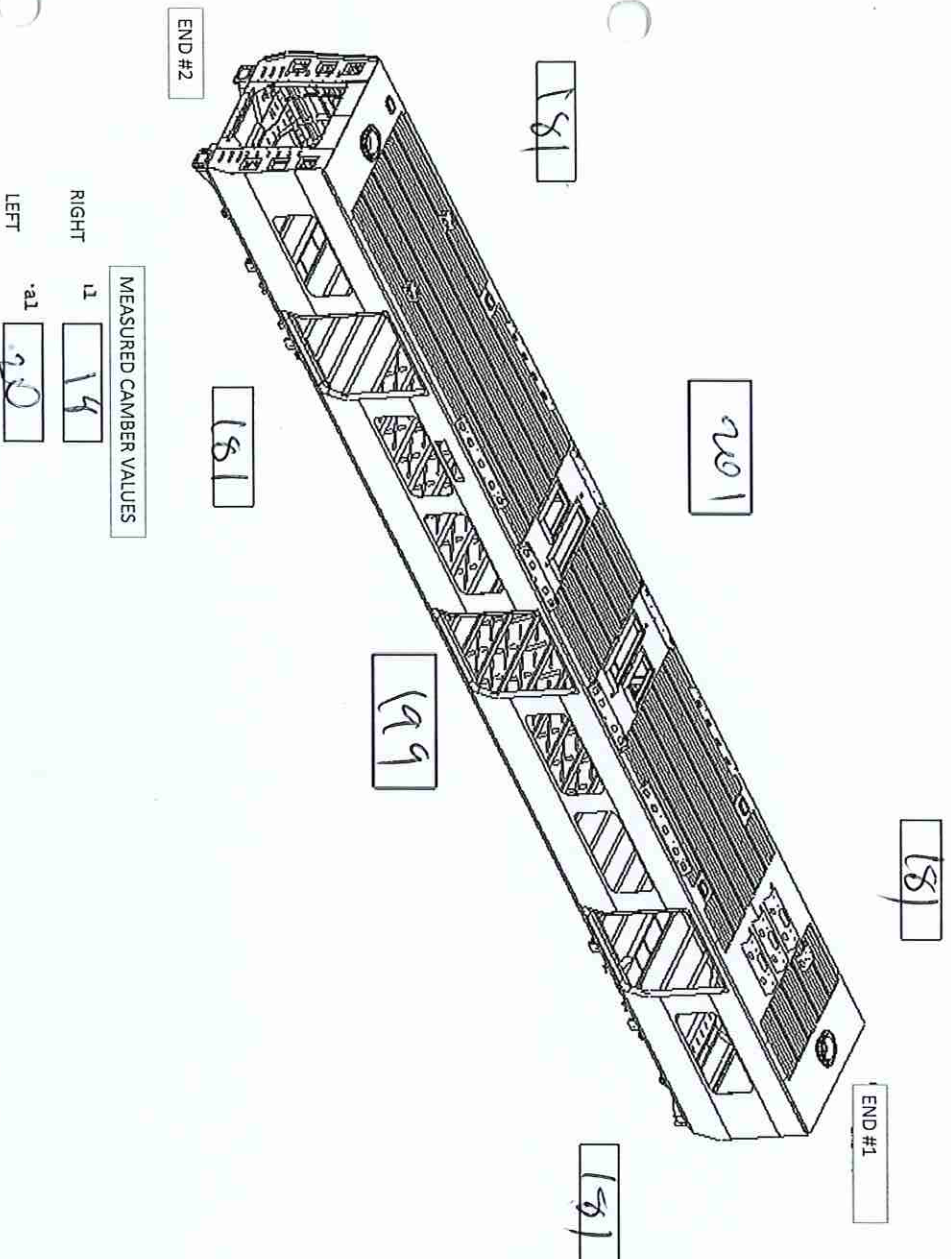
CARBODYSHELL M1,M3,M4 ASSEMBLY
DT00000225487

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Specifications of Details for CBS measurement CB1230

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



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

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.

122

123

END #1

END #2

120

120

TWIST FOUND ON END 1

TRANVERSE

2

LONGITUDINAL

1

TWIST FOUND ON END 2

TRANVERSE

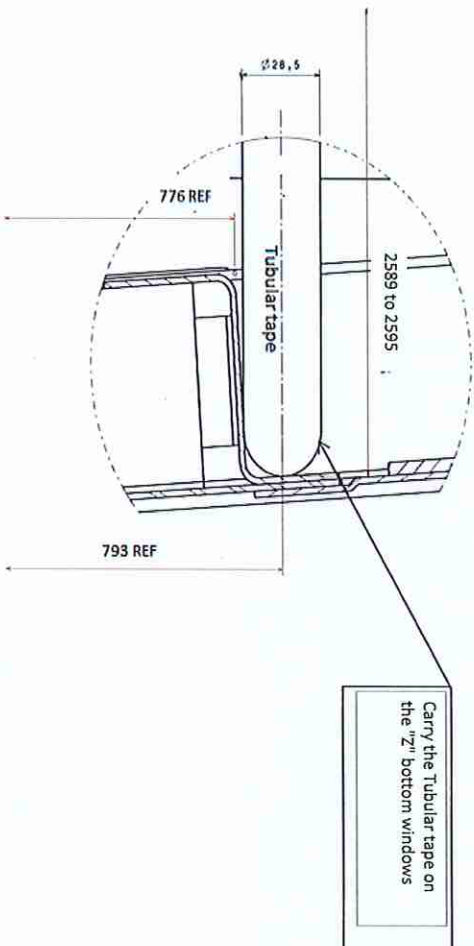
3

LONGITUDINAL

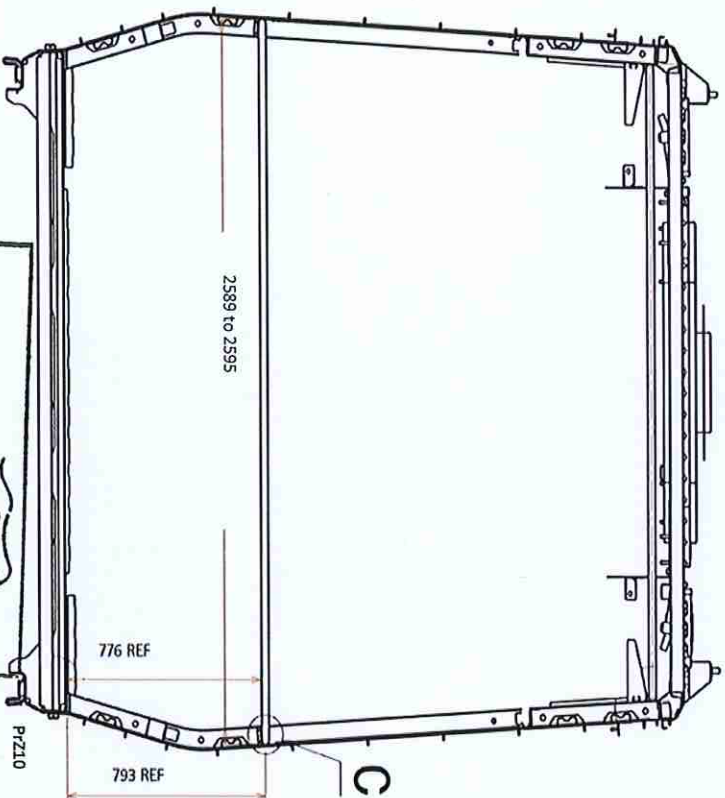
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Specifications of Details for CBS measurement CB1230



Detail C



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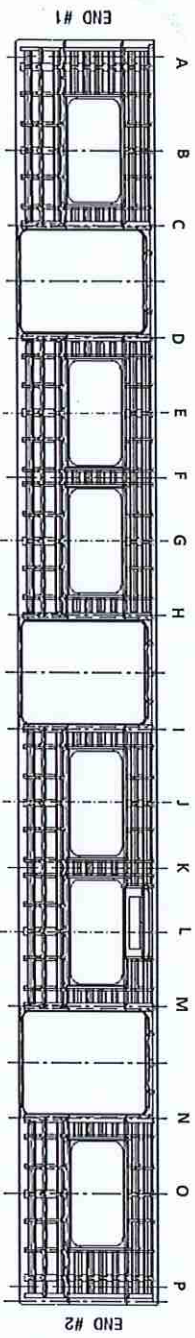


CARBODYSHELL M1,M3,M4 ASSEMBLY
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06/11/2023

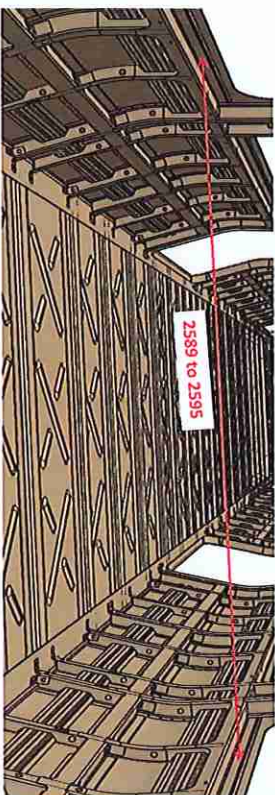
Project: PRASA
SI.CB2230.256.V29

Specifications of Details for CBS measurement CB1230



2589 to 2595mm

A	25 93
B	25 89
C	25 91
D	25 91
E	25 89
F	25 90
G	25 89
H	25 90
I	25 89
J	25 89
K	25 91
L	25 89
M	25 91
N	25 91
O	25 89
P	25 95



Threshold verification

Nominal value :38

Door 1		Door 2		Door 3	
L	R	L	R	L	R
38	38	39	38	39	38
Door 4		Door 5		Door 6	
L	R	L	R	L	R
38	38	38	38	37	37

BOILER MAKER: Mmthapelo Mphela

WELDER: Mmthapelo Mphela


Dye-penetration test to be performed by quality personnel

Dye penetrant test





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	CARBODYSHELL M1,M3,M4 ASSEMBLY DT00000225487	Rev. 30	Project: PRASA
		Date 06/11/2023	
			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	GO	23/02/2024	Perry Operations	
	NO GO	23/02/24	Nyokoro Industrial Quality	
				Operations
			Industrial Quality	

In case "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 DT00000225487		Rev. 30	Project: PRASA SI.CB2230.256.V29
			Date 06/11/2023	

ANNEXURE A: Arc Welding Quality Acceptance Standard



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

