

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

APPLICATION REFERENCE												
MOUNTING	DRAWING	DESCRIPTION	STATION	CAR TYPE					WORK INSTRUCTION	SAFETY ?		
				TCL	M4	M1	M2	M3			TCL2	
<input type="checkbox"/>	DTB3223319/3	AAD0001241033	Carshell Assembly TC	CB1210	X					X	PRA-CB1210.DTB3022331 9/3.V25	YES
<input type="checkbox"/>					X							

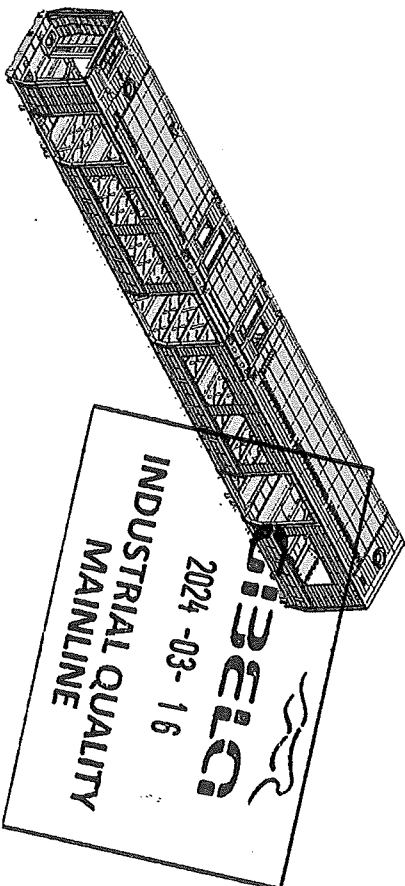
REV	DATE	MODIFICATION CONTENT	RESPONSIBLE	NAME	DATE
0	09/04/2018	GIBELA NEW CREATION	APPROVER	Iltumeleng Modiba	09/04/2018
			CHECKER	Nosizo Pindela	09/04/2018
			COMPLIER	Thanyani Mathegu	06/04/2018
1	2018/05/18	Team leader and Quality Technician to sign final signature from PME Manager to Quality manager	APPROVER	Iltumeleng Modiba	2018/05/18
			CHECKER	Nosizo Pindela	2018/05/18
			REVISD BY	Ramokone Motlana	2018/05/18
2	2018/06/18	MODIFICATION CONTENT	APPROVER	Iltumeleng Modiba	2018/06/18
			CHECKER	Nosizo Pindela	2018/06/18
			REVISD BY	Ramokone Motlana	2018/06/18
3	2018/12/12	Additional checkpoints	CHECKER	Nosizo Pindela	2018/12/12
			REVISD BY	Ramokone Motlana	2018/12/12
5	22/01/2019	As per Baseline 10.2	CHECKER	Iltumeleng Modiba	22/01/2019
			REVISD BY	Nosizo Pindela	22/01/2019
			APPROVER	Vanessa Ntuli	22/01/2019
6	2019/11/03	Record D1 and D2 on Self - Inspection	CHECKER	Iltumeleng Modiba	2019/11/03
			REVISD BY	Nosizo Pindela	2019/11/03
			APPROVER	Iltumeleng Modiba	2019/11/03
10	21/08/2019	New Baseline 10.2.5	CHECKER	Nosizo Pindela	21/08/2019
			REVISD BY	Nosizo Pindela	21/08/2019
			APPROVER	Timothy Maimela	21/08/2019
15	06/08/2020	New Baseline 10.2.6	CHECKER	Bongane Masina	06/08/2020
			REVISD BY	Bongane Masina	06/08/2020
			APPROVER	Timothy Maimela	06/08/2020
20	19/04/2020	New Baseline change 10.3	CHECKER	Bongane Masina	19/04/2021
			REVISD BY	Bongane Masina	19/04/2021
			APPROVER	Timothy Maimela	19/04/2021
21	17/08/2021	ADDED DIMENSIONS BEFORE WELDING	CHECKER	Mpho Mulaudzi	17/08/2021
			REVISD BY	Mpho Mulaudzi	17/08/2021
			APPROVER	Mphombi Collins	17/08/2021
25	21/02/2022	New Baseline change 10.3.1	CHECKER	Mphombi Collins	21/02/2022
			REVISD BY	Andani Muthelo	21/02/2022
			CHECKER	Andani Muthelo	21/02/2022
26	14/04/2023	Addition of welding consumable traceability	APPROVER	Ntuli Vanessa	14/04/2023
			CHECKER	Mohampe Amogelang	14/04/2023
			REVISD BY	Mohampe Amogelang	14/04/2023
27	27/07/2023	Added verification of loaded parts	APPROVER	Ngobeni Tyson	27/07/2023
			CHECKER	Mathapo Keitlone	27/07/2023
			REVISD BY	Mathapo Keitlone	27/07/2023
28	07/11/2023	Addition of welding traceability	APPROVER	Ngobeni Tyson	07/11/2023
			CHECKER	Andani Muthelo	07/11/2023
			REVISD BY	Nokozo Zanele	07/11/2023

TRAINSET	CAR	OPERATOR NAME & ALPS NUMBER	DATE	SELF INSPECTION NUMBER	PAGES
KB219	Tc1	Imiso 40081	17.03.24	SI.CB1210.322.V28	16





GIBELCO	DTR30223319/3 Carshell Assembly TC	Rev.	Project: PRASA
		V/28	
Cdr: TC1 & TC2		Date-	SI.CB1210.322.V28
NCR		07/11/2023	
		Work station:	CB1210



I - Documentation and Instruments

I.1 - Documentation Control

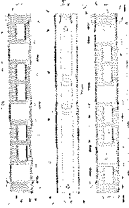
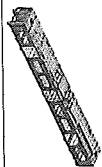
Document	Type of car					Revision	Observation	OK	NOK	Remark	Signature/Date (Manufacturing)	Signature/Date (Quality)
	TC1	M1	M2	M3	M4							
DTR30223319/3						28				N/A	17.03.24	17.03.24

I.2 - Instruments Control

Monitoring and Measuring Instrument Control - Used for Special Process						
Instruments	Validation	Calibration or Verification Validation Date	OK	NOK	Signature/Date (Manufacturing)	Signature/Date (Quality)
(30M) IAPPE	G1897P002	18.11.24	✓		17.03.24	17.03.24
1UBBWA2	32823-2	18.05.25	✓		17.03.24	17.03.24
1UBCE IAPPE	125425924	08.01.25	✓		17.03.24	17.03.24

1.3 Consumables

Welding Consumable Control - Used for Special Process									
Filler Material	Heat Number	Welding Process	OK	NOK	Signature/Date (Manufacturing)	Signature/Date (Quality)			
ER 308 LB1	814018-74097	MIG	✓		17.03.24 17.03.24	17.03.24			
ER 308 -	299687-7032	TIG	✓		17.03.24	17.03.24			

GIBELCO		Rev. Project: PRASA					
DTR3023319/3 Carshell Assembly TC		V28	Date- 07/11/2023				
S1.CB1210.322.V28							
Item	Picture/Drawing	Description	Acceptance criteria / Record	OK	Not OK	Signature/Date (Manufacturing)	Signature/Date (Quality)
01	N/A	Verification of correct parts loaded (Sidewalls, Endframes, Roof and Underframe)	DT00000284980	✓		17.03.24	
02	N/A	Carshell free of significant flaws which compromise the appearance or functionality.	DTD00000210675	✓		17.03.24	
03		Functional dimensions approved according drawing or complementary document approved by Alstom engineering and registered in this document.	Approved according specified on pages below.	✓		17.03.24	
04	REFER TO ANNEXURE A	Spot Welding inspected and approved according procedure	IND-SAL-WMS-016 e DTD00000210675	✓		17.03.24	
05	REFER TO ANNEXURE B	Arc Welding inspected and approved according procedure.	IND-SAL-WMS-016 REFER TO GIB - TPDEF - ARC - 0000	✓		17.03.24	
06		Cleaning of all Stainless Steel Surface	According TO GIB-WEL - PROC-0002	✓		17.03.24	
07	N/A	Perform visual inspection of welds in 100% of the project. Run by penetrant testing in electric arc welding (weld ring) as IND-SAL-WMS-018.	As the welding procedure IND-SAL-WMS-018 and DTD00000210658	✓		17.03.24	

INDUSTRIAL QUALITY
2024-03-16
GIBELCO



DTR3023319/3 Carshell Assembly TC

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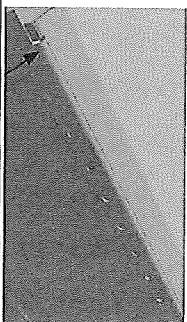
Project: PRASA

Date-
07/11/2023

SI.CB1210.322.V28

Welder traceability

Roof ring welds



Boiler maker (Name & Sign): <u>Luthin M</u>	LHS	Welder (Name & Sign): <u>Karu K. ad</u>
Boiler maker (Name & Sign): <u>Seav S</u>	RHS	Welder (Name & Sign): <u>Thabeng K</u>

END 1

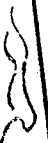
Boiler maker (Name & Sign): <u>Luthin M</u>	LHS	Welder (Name & Sign): <u>Karu K. ad</u>
Boiler maker (Name & Sign): <u>Seav S</u>	RHS	Welder (Name & Sign): <u>Thabeng K</u>

END 2



Boiler maker (Name & Sign): <u>Luthin M</u>	LHS
Welder (Name & Sign): <u>Karu K. ad</u>	

Boiler maker (Name & Sign): <u>Luthin M</u>	RHS
Welder (Name & Sign): <u>Thabeng K</u>	



GIBELD

2024-03-16

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MAINLINE



DTR30223319/3 Carshell Assembly TC

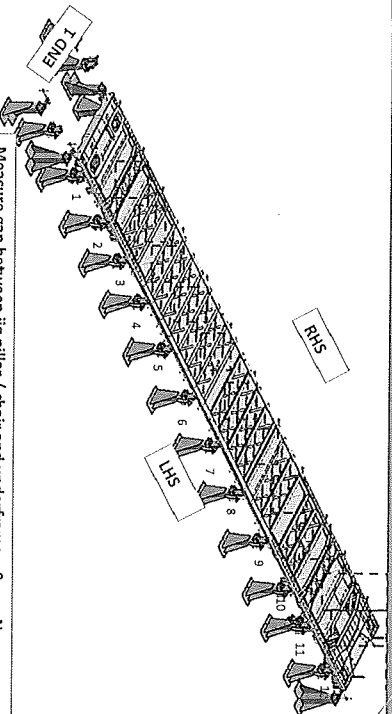
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07/11/2023

SI.CB1210.322.V28

Specifications of Details for GBS measurement



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

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

After Loading Underframe and Clamping.

	1	2	3	4	5	6	7	8	9	10	11	12
Left Hand Side	00	00	00	00	00	00	00	00	00	00	00	00
Right Hand Side	00	00	00	00	00	00	00	00	00	00	00	00

Signature Operations:

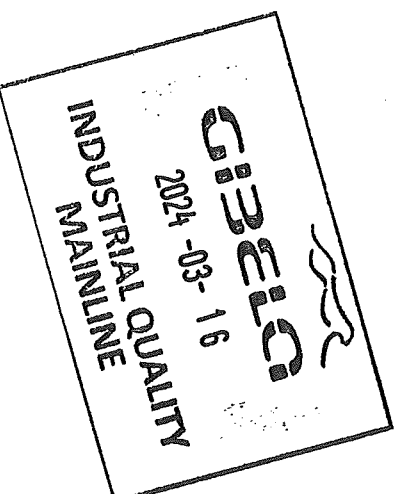
Date: 17.03.24

After Welding.

	1	2	3	4	5	6	7	8	9	10	11	12
Left Hand Side	00	00	00	00	00	00	00	00	00	00	00	00
Right Hand Side	00	00	00	00	00	00	00	00	00	00	00	00

Signature Industrial Quality:

Date: 17/03/24

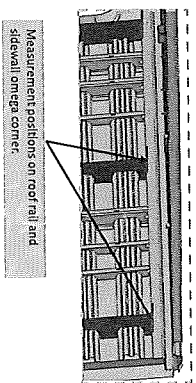
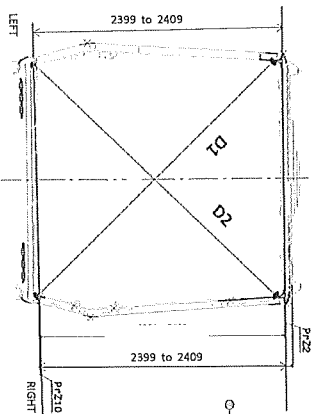
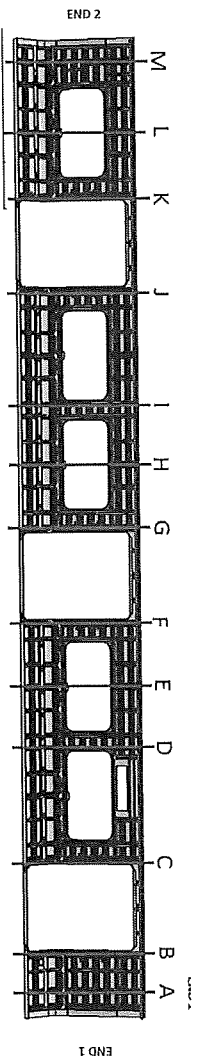




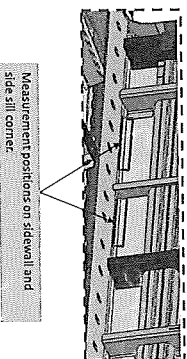
DTR30223319/3 Carshell Assembly TC

Rev. V/28	Project: PRASA
Date- 07/11/2023	SI.CB1210.322.V/28

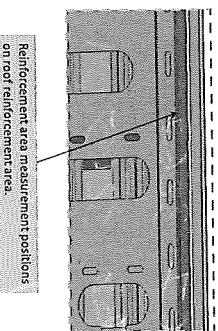
Specifications of Details for CBS measurement



Measurement positions on roof rail and sidewall omega corner.



Measurement positions on sidewall and side sill corner.

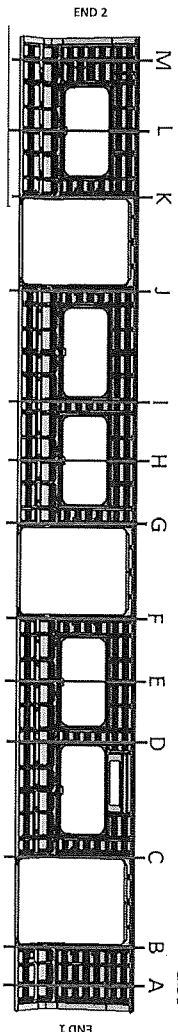


Reinforcement area measurement positions on roof reinforcement area.



Specifications of Details for GBS measurement

BEFORE WELDING



PME: The difference in Height values measured on the LHS and RHS should be $\leq 2\text{MM}$ on each point.

	Record D1 values	Record D2 values	D1-D2 $\leq 5\text{mm}$	2399 to 2409	2399 to 2409 (RHS)	LHS-RHS ≤ 2
A	3268	3268	0	2405	2406	0
B	3266	3267	1	2406	2406	0
C	3267	3267	0	2405	2405	0
D	3270	3270	0	2406	2404	2
E	3269	3267	0	2406	2408	1
F	3266	3266	0	2403	2404	1
G	3267	3267	0	2406	2405	1
H	3268	3265	3	2406	2404	2
I	3269	3269	0	2406	2405	1
J	3267	3267	0	2406	2406	0
K	3266	3266	0	2405	2407	2
L	3268	3265	3	2406	2406	0
M	3267	3267	0	2406	2406	0

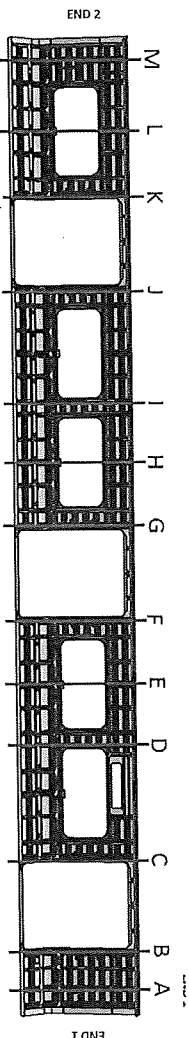


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Specifications of Details for GBS measurement

AFTER WELDING

PME: The difference in Height values measured on the
LHS and RHS should be $\leq 2\text{MM}$ on each point.

	Record D1 values	Record D2 values	D1-D2 $\leq 5\text{mm}$	2399 to 2409	2399 to 2409 (RHS)	LHS-RHS ≤ 2
A	3269	3269	0	2405	2405	0
B	3297	3297	0	2406	2406	0
C	3298	3298	0	2406	2406	0
D	3274	3271	3	2404	2406	2
E	3268	3267	1	2406	2406	0
F	3298	3298	0	2406	2405	1
G	3296	3296	0	2406	2405	1
H	3269	3265	4	2405	2404	1
I	3270	3271	1	2406	2406	0
J	3297	3296		2405	2406	1
K	3298	3297		2404	2406	2
L	3269	3267		2406	2405	1
M	3297	3297		2406	2406	0

GIBCO
2024-03-18
INDUSTRIAL QUALITY
MAINLINE

PMB

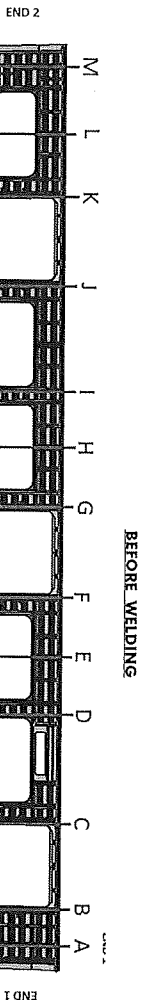
17.03.24



DTR302231913 Carshell Assembly TC

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Date-	SI.CB1210.322.V28
07/11/2023	

GBS measurement



BEFORE WELDING

2270 to 2276

2268 & 2274

2271

2270

2271

2276

2278

2270

2271

2273

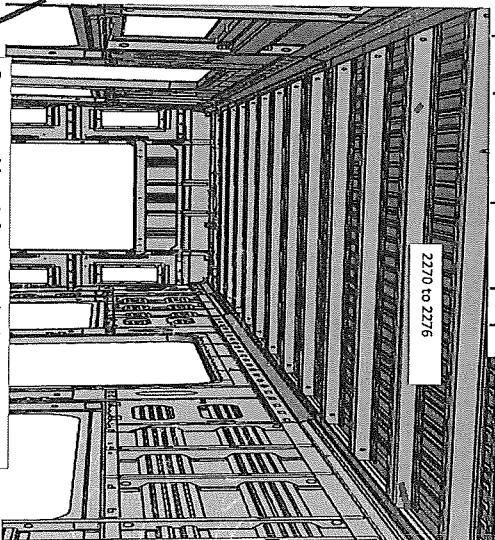
2274

2272

2271

2273

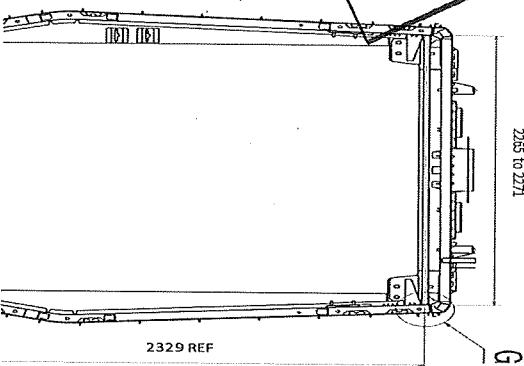
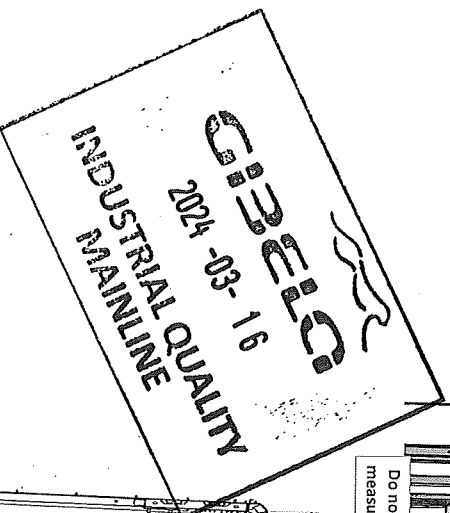
2270



2270 to 2276

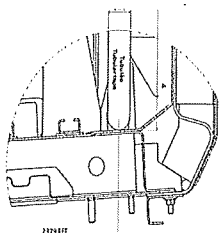
Do not consider reinforcement (Take measurements top area of zee profile)

2255 to 2271



2329 REF

2265 to 2271



Detail B
Considering the reinforcement profile

17.03.24

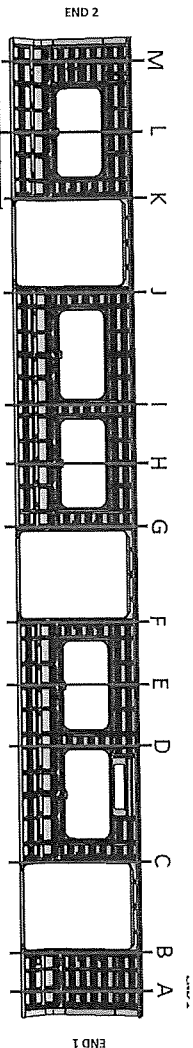


DTR30223319/3 Carshell Assembly TC

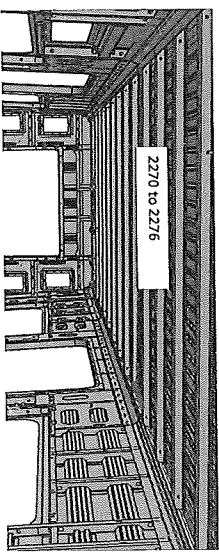
Rev.	Project: PRASA
V28	
Date-	SI.CR1210.322.V28
07/11/2023	

Specifications of Details for GBS measurement

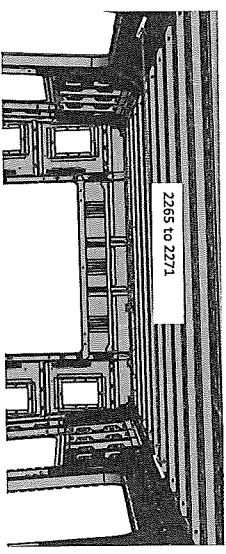
AFTER WELDING



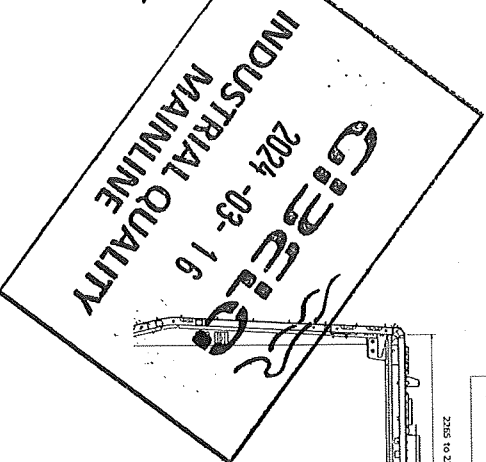
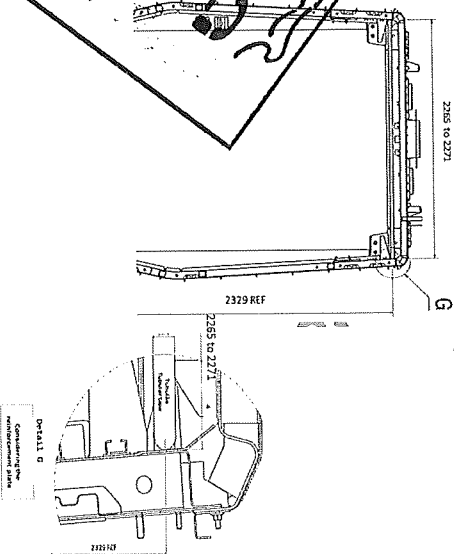
	2265 to 2271	2270 to 2276
A	N/A	2273
B	2268	N/A
C	2269	N/A
D	N/A	2276
E	N/A	2274
F	2267	N/A
G	2268	N/A
H	N/A	2273
I	N/A	2275
J	2268	N/A
K	2267	N/A
L	N/A	2274
M	2268	N/A



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



Take measurement close to radius (considering reinforcement)



17.03.24



DIR30233193 Carshell Assembly TC

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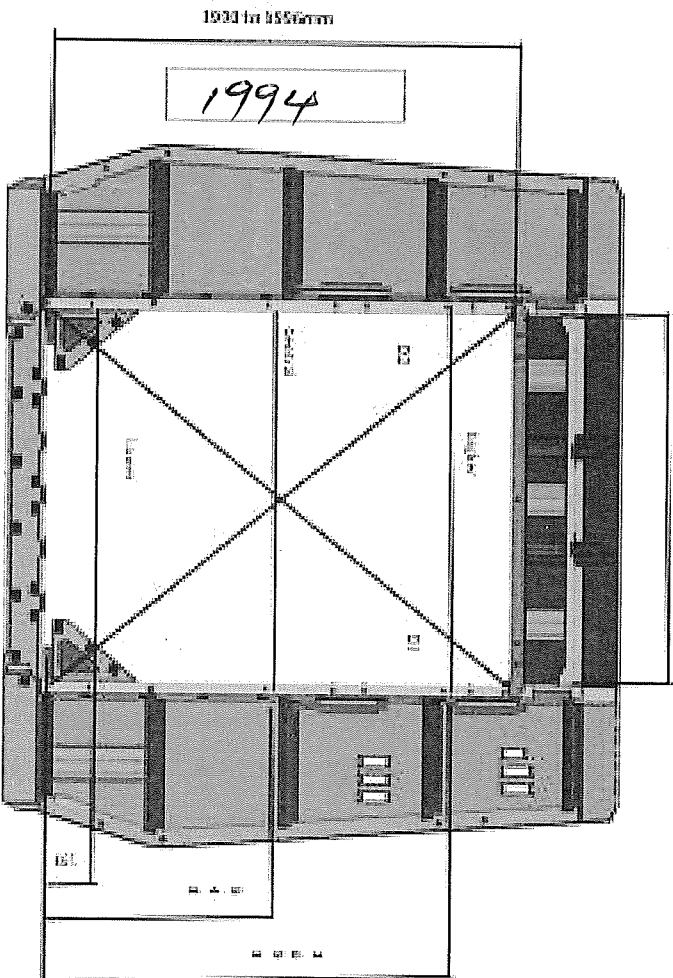
Project: PRA5A

Date-
07/11/2023

SI.CB1210.322.V28

Specifications of Details for GB5 measurement

Endframe 2



Height Dimension

1381

01

2418

Central Dimension

1380

02

2417

Lower Dimension

1380

01-02

1

1930 in 155 mm

DIAGONAL DIFFERENCE 01-02 3 mm

17.08.24

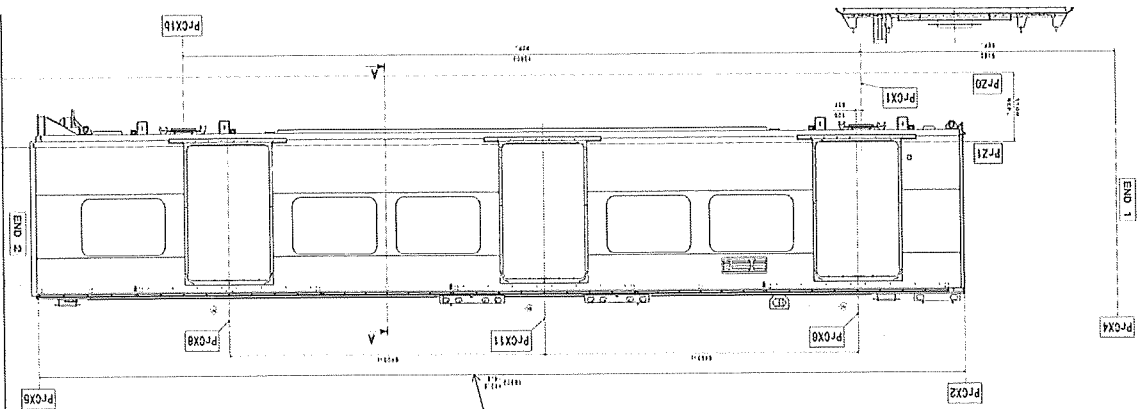




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Date-	
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Specifications of Details for CBS measurement



LEFT SIDE	
SPECIFICATION SIZE	ACTUAL SIZE
1A	18870

RIGHT SIDE	
SPECIFICATION SIZE	ACTUAL SIZE
1A	18870

Dye penetrant test

Dye-penetration test to be performed by quality personnel





DTR3022319/3 Carshell Assembly TC

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Date- 07/11/2023
Project: PRASA
SI.CB1210.322.V28

Self Inspection - Final Result

Is the car good to advance to the next workstation/process?
(Approval of Operations and Industrial Quality)

DATE

NAME

SIGNATURE

17/03/24 Tuncelir

17/03/24

Ubolon

HOLD POINT

GO

If activities are not complete, the missing activities must not impact the next stage!

Every auto inspection performed conforms to specification or in case of discrepancy the same is approved by the competent party.)

There are activities pending that impact the activities of the next process.
Ops: (To describe problems below)

Operations

NO GO

There are non-conformities impact the quality of the product and there is no corrective action defined yet)

Quality

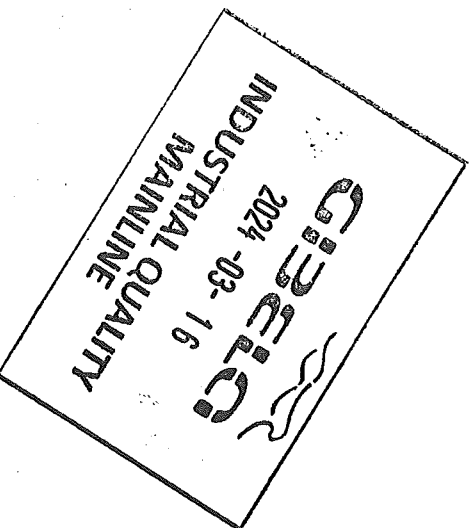
In case of "NO GO", describe blocking problems


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

Item	Description	Action	Responsible	Due date	Status

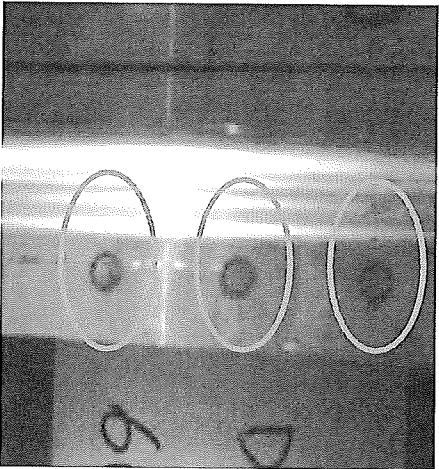
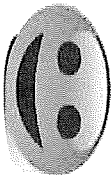
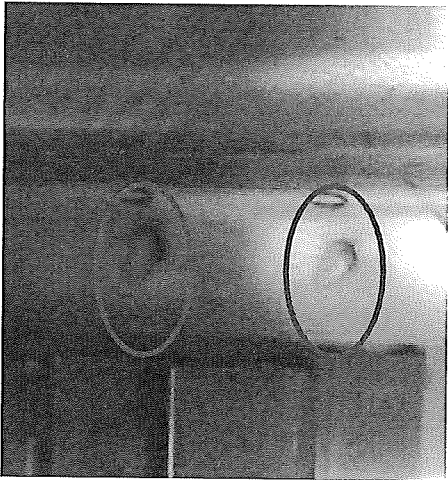
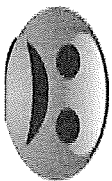
Operations


Quality



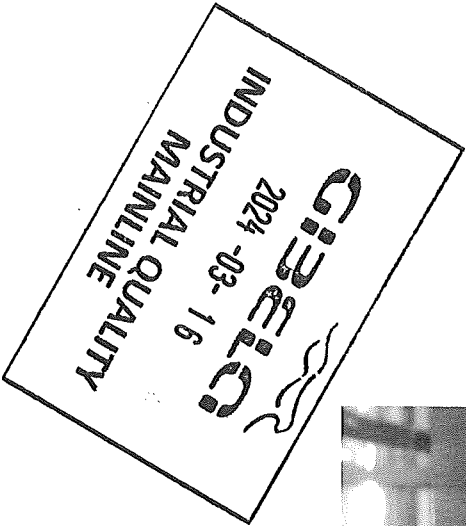
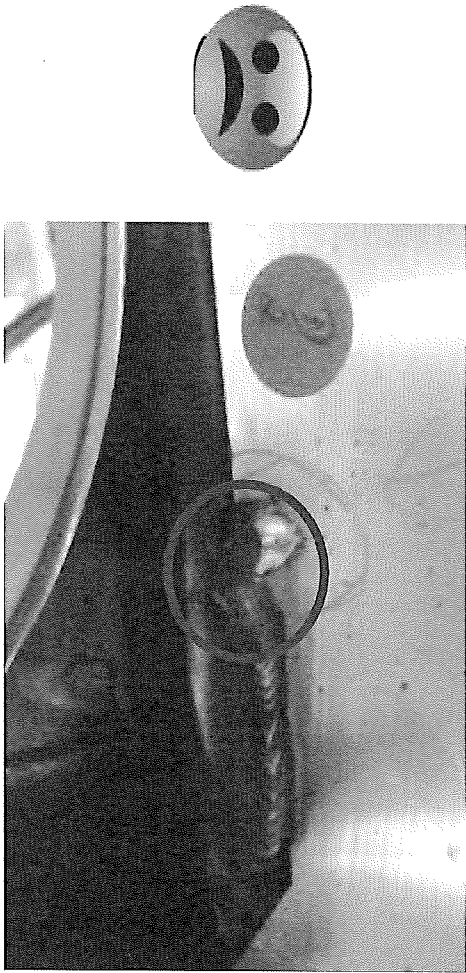
		DTR30223319/3 Carshell Assembly TC	
Rev. V28		Project: PRASA	
Date- 07/1/2023		SI.CB1210.322.V28	

ANNEXURE A: Spot Welding Quality Acceptance Standard



	DTR30232319/3 Carshell Assembly TC		Rev. V28 Date- 07/11/2023	Project: PRASA SI.CB1210.322.V28
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ANNEXURE B: Arc Welding Quality Acceptance Standard





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.

[illegible]

REV	DATE	MODIFICATION CONTENT	RESPONSIBLE	NAME	DATE
0	09/04/2018	GIBELA NEW CREATION	APPROVER CHECKER COMPLER	Iumheng Modtha Netsa Pindela Thapana Mahiphe	09/04/2018 09/04/2018 06/04/2019
1	23/05/2018	Team leader and Quality Technician to sign Change final signature from PME Manager to Quality manager	APPROVER CHECKER REMOVED BY	Iumheng Modtha Netsa Pindela Ramdenek Matama	23/05/2018 23/05/2018 23/05/2018
2	05/07/2018	Certain dimensional checks added and others moved to CB2.10 and CB2.30	APPROVER CHECKER COMPLER	Iumheng Modtha Netsa Pindela Ramdenek Matama	05/07/2018 05/07/2018 05/07/2018
3	2018/06/12	Certain dimensional checks added and others moved to CB2.10 and CB2.30	APPROVER CHECKER COMPLER	Iumheng Modtha Netsa Pindela Ramdenek Matama	20/06/2018 20/06/2018 20/06/2018
5	24/01/2019	As per Baseline 10.2	APPROVER CHECKER COMPLER	Iumheng Modtha Netsa Pindela Ramdenek Matama	24/01/2019 24/01/2019 24/01/2019
6	19/03/2019	Added D1 and D2 on Self - Inspection length measurements	APPROVER CHECKER COMPLER	Iumheng Modtha Netsa Pindela Ramdenek Matama	19/03/2019 19/03/2019 19/03/2019
7	20/05/2019	Removed roof width	APPROVER CHECKER REMOVED BY	Iumheng Modtha Netsa Pindela Netsa Pindela	20/05/2019 20/05/2019 20/05/2019
10	22/08/2019	New Baseline 10.2.5	APPROVER CHECKER REMOVED BY	Iumheng Modtha Netsa Pindela Netsa Pindela	22/08/2019 22/08/2019 22/08/2019
15	06/08/2020	New Baseline 10.2.6	APPROVER CHECKER REMOVED BY	Timothy Mamas Benqane Matama Benqane Matama	06/08/2020 06/08/2020 19/04/2021
20	19/04/2021	New Baseline 10.2.6	APPROVER CHECKER REMOVED BY	Timothy Mamas Benqane Matama Benqane Matama	19/04/2021 19/04/2021 19/04/2021
21	17/08/2021	ADDED DIMENSIONS BEFORE WELDING	APPROVER CHECKER REMOVED BY	Mibemati Collins Mubusani Aphile Mubusani Aphile	17/08/2021 17/08/2021 17/08/2021
25	20/02/2022	New Baseline 10.2.6	APPROVER CHECKER REMOVED BY	Mibemati Collins Andani Muthle Andani Muthle	20/02/2022 20/02/2022 20/02/2022
26	14/06/2022	Update minimum temperature requirement for saabin application	APPROVER CHECKER REMOVED BY	Mibemati Collins Andani Muthle Andani Muthle	14/06/2022 14/06/2022 14/06/2022
27	17/10/2022	Addition of traceability for saabin application and welding.	APPROVER CHECKER REMOVED BY	Mibemati Collins Nobaka Zwane Nobaka Zwane	17/10/2022 17/10/2022 17/10/2022
28	14/04/2023	Addet saabin batch number & welding consumables traceability	APPROVER CHECKER REMOVED BY	Vareesa Ntuli Nobaka Zwane Nobaka Zwane	14/04/2023 14/04/2023 14/04/2023
29	28/10/2023	Addition of brocet quantity	APPROVER CHECKER REMOVED BY	Amogeshing Mahiphe Mabapa Katsane Mabapa Katsane	28/10/2023 28/10/2023 28/10/2023
TRAINSET	CAR	OPERATOR NAME & ALPS NUMBER	DATE	SELF INSPECTION NUMBER	PAGES

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Carro TC1, TC2

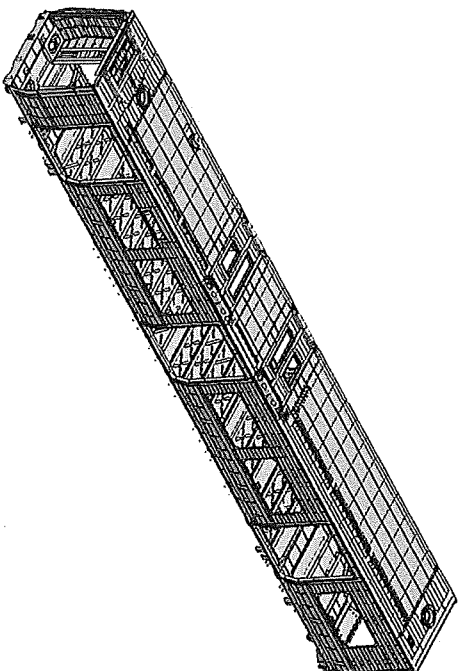
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Work station:

CB1220





Safety Related






I - Documentation and Instruments


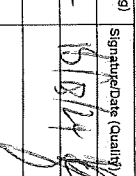
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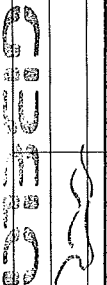
Document	Type of car						Revision	Observation	OK	NOK	Review	Signature/Date (Manufacturing)	Signature/Date (Quality)
	TC1	M1	M2	M3	M4	TC2							
DTR3022331912	✓						29	28-10-2023	X		N/A	 18-03-24	 14/03/24

I.2 - Instruments Control

Monitoring and Measuring Instrument Control - Used for Special Process													
Instruments	Validation	Calibration or Verification Validation Date	OK	NOK	Signature/Date (Manufacturing)	Signature/Date (Quality)							
measuring tape	ETA0231	30/03/2024	X		 18-03-24	 14/03/24							
tubular	328233	15/03/2025	X		 18-03-24								

1.3 Consumables

Welding Consumable Control - Used for Special Process													
Filler Material	Heat Number	Welding Process	OK	NOK	Signature/Date (Manufacturing)	Signature/Date (Quality)							
308	231054	MIG	X		 18-03-24	 15/03/24							



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INDUSTRIAL QUALITY
MAINTENANCE



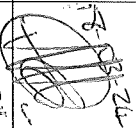

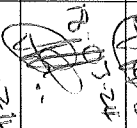
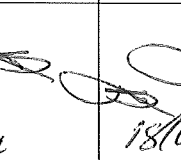
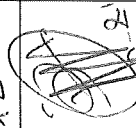
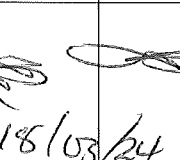
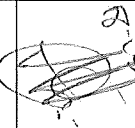
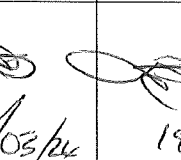
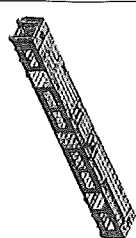
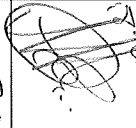
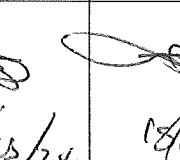
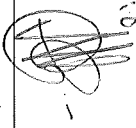
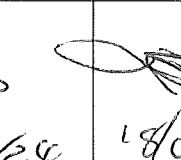
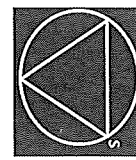

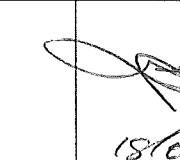

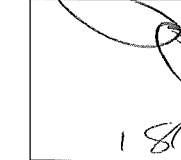
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II - Control Activities of Production


II.1 - Items to check

Item	Picture/Drawing	Description	Acceptance criteria / Record	OK	NO	Not yet	Signature/Date (Manufacturing)	Signature/Date (Quality)
01	N/A	Assembly according to Instruction Engineering n° PBA.CB1220.DTR3022548/72 Verification of filament for all reinforcement brackets.	DTR3022319/2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	 18/03/24	 18/03/24
02	N/A	Carshell free of significant flaws which compromise the appearance or functionality.	DTD0000210675	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	 18/03/24	 18/03/24
03	REFER TO ANNEXURE A	Spot Welding inspected and approved according procedure	IND-SAL-WMS-016 e DTD0000210675	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	 18/03/24	 18/03/24
04	REFER TO ANNEXURE B	Arc Welding inspected and approved according procedure.	IND-SAL-WMS-016 REFER TO 615-11100001-A RC - 0000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	 18/03/24	 18/03/24
05		Cleaning of all Stainless Steel Surface	IND-SAL-WMS-016 2024-03-13 According to DISJWEL - PROC-0002 GIBELCO INDUSTRIAL QUALITY MAINLINE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	 18/03/24	 18/03/24
06	N/A	Functionals 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"/>	<input type="checkbox"/>	<input type="checkbox"/>	 18/03/24	 18/03/24
07		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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	 18/03/24	 18/03/24
08	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 (t) 10°C - 35°C Relative Humidity Min - Max (t) 25% - 80% Actuals Temperature: 22 Humidity: 61	Sealant Batch No 1 V20-03 Exp Date: 10/3/24	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	 18/03/24	 18/03/24

GIBBEL		DTR3022319/2 Carshell Assembly TC		Rev. 29 Date- 28/10/2023		Project: PRASA SI,CB1220.323.V29			
09	NA	Verification of sealant application in certain regions in the drawing.	AADD001241033	✓			18/03/24	18/03/24	
10	NA	Verification of sealant application on the roof and sidewall finishers	Sealant must be: -Applied straight and even (1.5mm) -Free of gaps, cracks, damage and debris (flashes, dirt, dust) Refer to Annexure B	✓			18/03/24	18/03/24	



GIBBEL
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INDUSTRIAL QUALITY
WARRANTY

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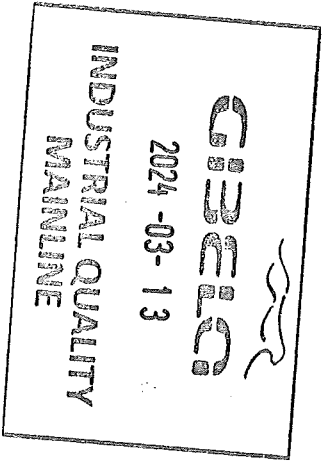
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SEALANT

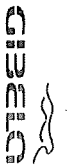
OPERATOR
(Name & sign):

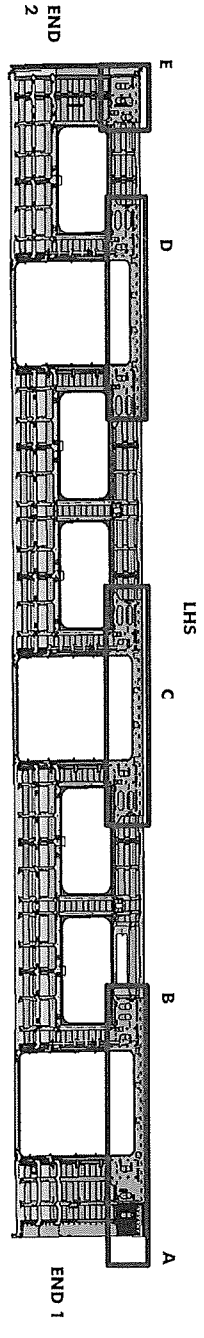
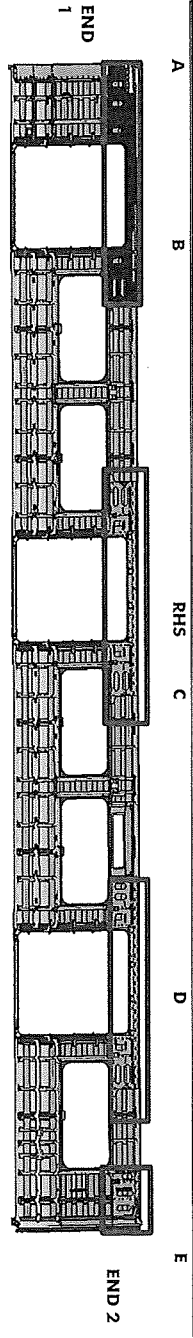
Mtchecze, 

OPERATOR
(Name & sign):

Mtchecze, 




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		Date- 28/10/2023	SI.CB1220.323.V29



REINFORCEMENT WELDING

AREA	LHS	RHS
A	Operator (Name&sign): <i>Nokulungu Dwa</i>	<i>Xulu</i>
B	Operator (Name&sign): <i>Spekburg Dwa</i>	<i>Xulu</i>
C	Operator (Name&sign): <i>Musika</i>	<i>S. Hlatshwayo</i>
D	Operator (Name&sign): <i>Sibisi</i>	<i>Thouani</i>
E	Operator (Name&sign): <i>Sibisi</i>	<i>Thouani</i>



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INDUSTRIAL QUALITY

 MARINE



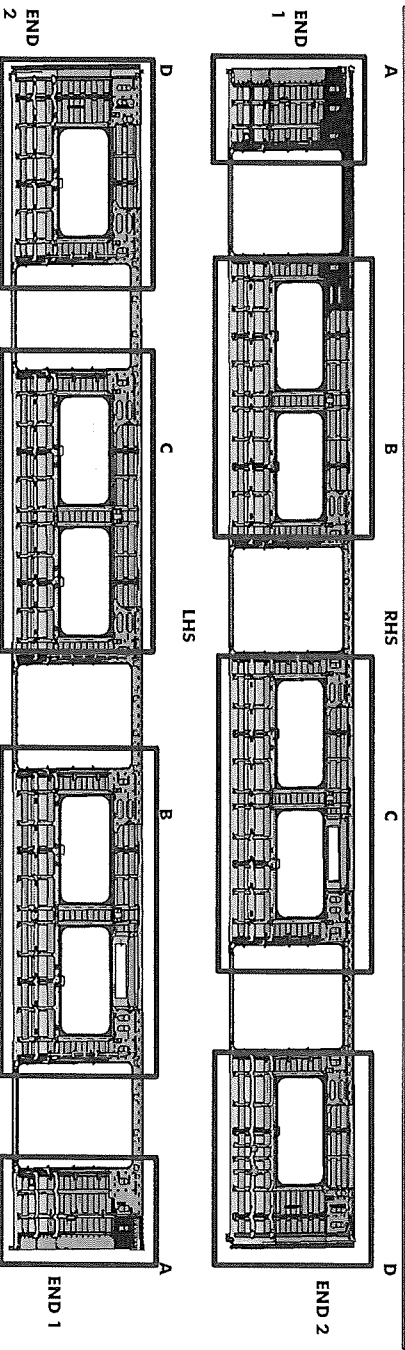
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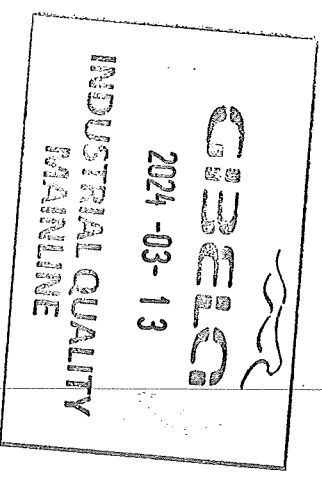
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BRACKETING

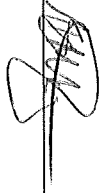
C-RAILS:	Operator:	INSTALLATION	<u>Priscilla</u>
	Operator:		<u>Mthokozisi</u>
DOOR MECHANISMS:	Operator:		<u>Mthoko</u>
	Operator:		<u>Mthoko</u>
TAPPING PADS	Operator:		<u>Mthoko</u>
	Operator:		<u>Mthoko</u>
SEAT & LUGGAGE BRACKETS:	Operator:	INSTALLATION & VERIFICATION	<u>Levi</u>
	Operator:		<u>Levi</u>
SEAT BRACKETS VERIFICATION:	Operator:		<u>Levi</u>
	Operator:		<u>Levi</u>
AREA	LHS	WELDING	
A (Seat brackets)	: Operator (Name&sign):		<u>Mthoko</u>
(C-rails, Luggage and earth bushes)	: Operator (Name&sign):		<u>Mthoko</u>
B (Seat brackets)	: Operator (Name&sign):		<u>Mthoko</u>
(C-rails, Luggage and earth bushes)	: Operator (Name&sign):		<u>Mthoko</u>
C (Seat brackets)	: Operator (Name&sign):		<u>Mthoko</u>
(C-rails, Luggage and earth bushes)	: Operator (Name&sign):		<u>Mthoko</u>
D (Seat brackets)	: Operator (Name&sign):		<u>Mthoko</u>
(C-rails, Luggage and earth bushes)	: Operator (Name&sign):		<u>Mthoko</u>

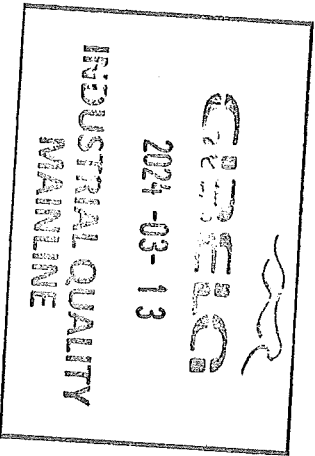


	RHS		
A (Seat brackets)	: Operator (Name&sign):		<u>Mthoko</u>
(C-rails, Luggage and earth bushes)	: Operator (Name&sign):		<u>Mthoko</u>
B (Seat brackets)	: Operator (Name&sign):		<u>Mthoko</u>
(C-rails, Luggage and earth bushes)	: Operator (Name&sign):		<u>Mthoko</u>
C (Seat brackets)	: Operator (Name&sign):		<u>Mthoko</u>
(C-rails, Luggage and earth bushes)	: Operator (Name&sign):		<u>Mthoko</u>
D (Seat brackets)	: Operator (Name&sign):		<u>Mthoko</u>
(C-rails, Luggage and earth bushes)	: Operator (Name&sign):		<u>Mthoko</u>

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ENDS

END 2 TAPPING PADS WELDING: Operator (Name&sign): 



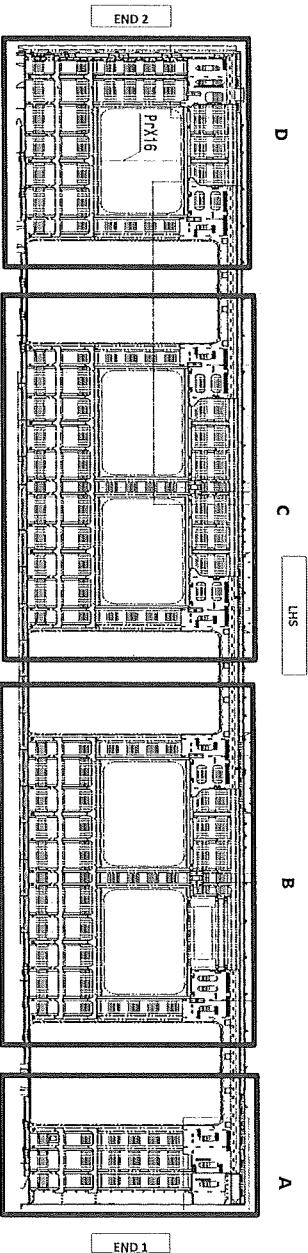
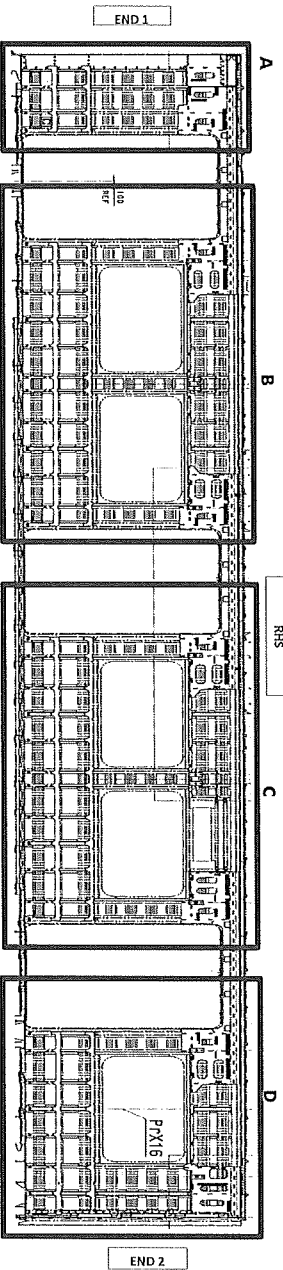


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TC BRACKET INSTALLATION



QUANTITIES (TC)

RHS				
SECTION	QUANTITY	OK	NOK	
C-RAILS	A	4	—	
	B	4	—	
	C	8	—	
	D	12	—	
SEAT BRACKETS	A	0	—	
	B	21	—	
	C	21	—	
	D	4	—	
EARTH BUSH	A	1	—	
	B	4	—	
	C	5	—	
	D	4	—	

ROOF ENDS:

CRAILS 2 OFF END 2
EARTH BUSH 4 OFF END 2

VERIFICATION BY:

Asst. Mkt
[Signature]

LHS				
SECTION	QUANTITY	OK	NOK	
C-RAILS	A	4	—	
	B	8	—	
	C	4	—	
	D	6	—	
SEAT BRACKETS	A	0	—	
	B	21	—	
	C	21	—	
	D	13	—	
EARTH BUSH	A	1	—	
	B	4	—	
	C	4	—	
	D	2	—	

ROOF ENDS:

CRAILS 2 OFF END 2
EARTH BUSH 4 OFF END 2

VERIFICATION BY:

Asst. Mkt
[Signature]

INDUSTRIAL QUALITY
MAINLINE

2024-03-13

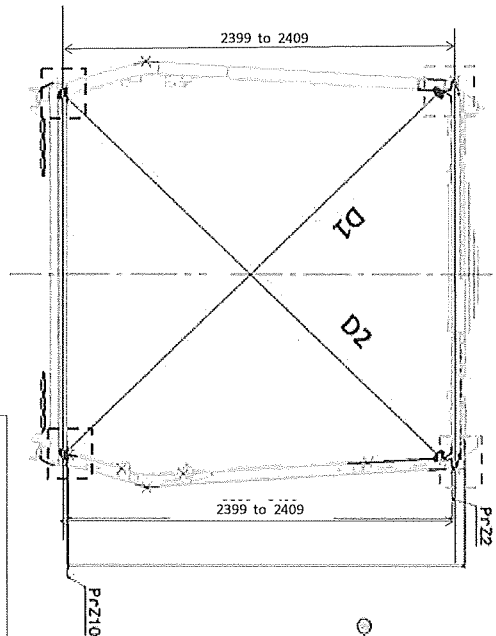




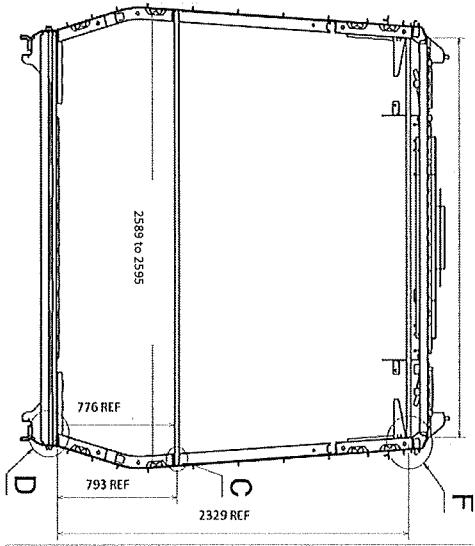
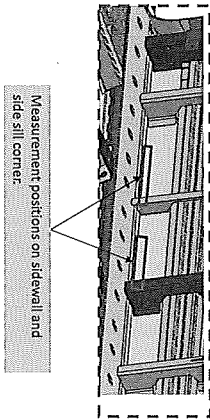
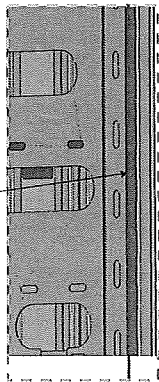
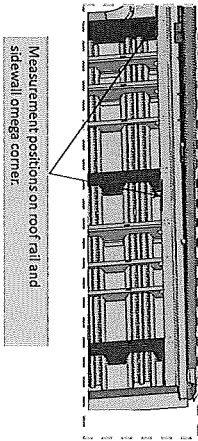
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Take measurement close to radius



Take measurement close to radius



CIBEC
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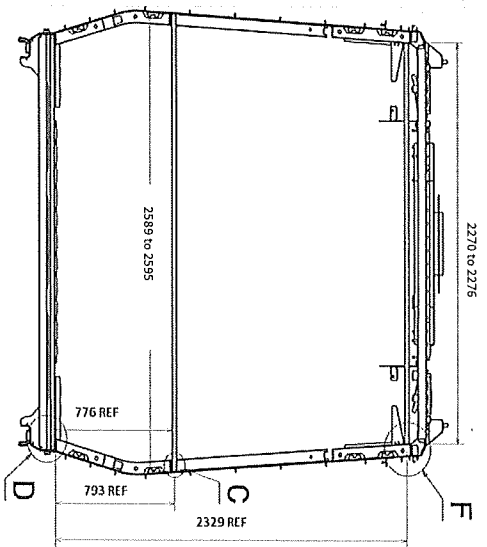
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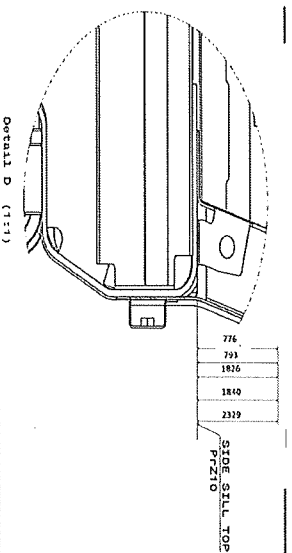
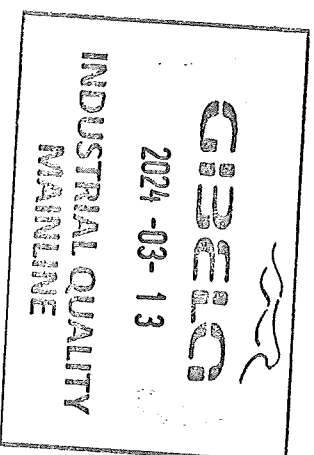
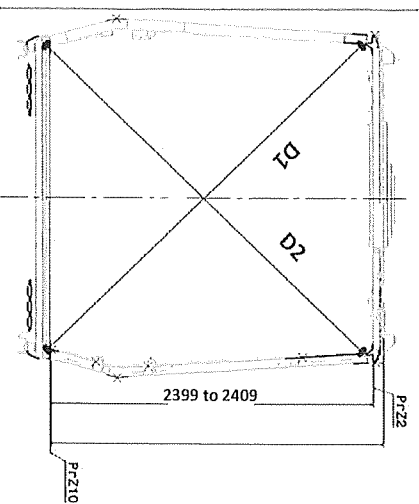
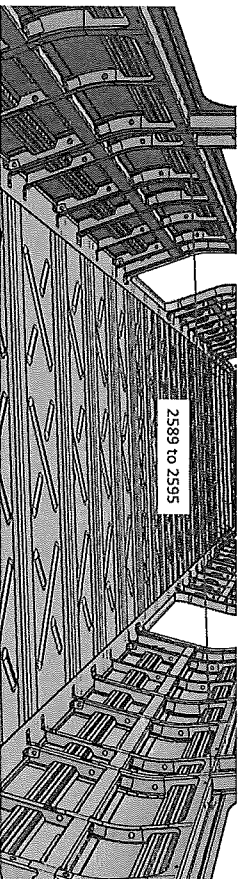
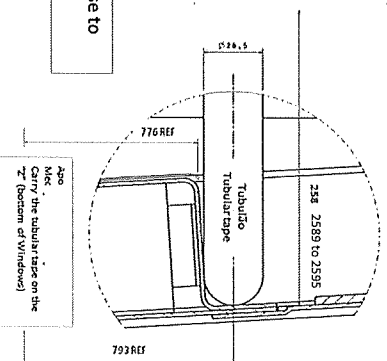
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Take measurement close to
radius

Detail C

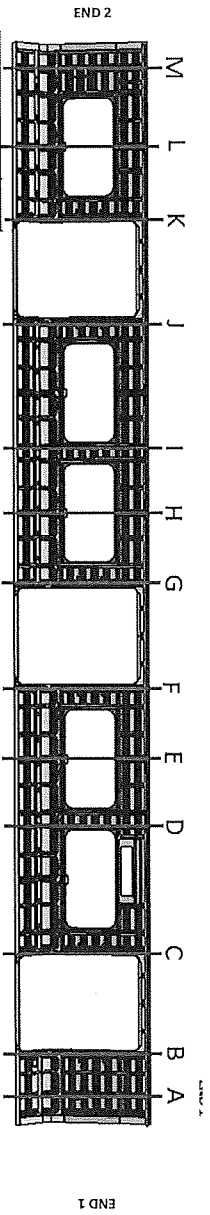




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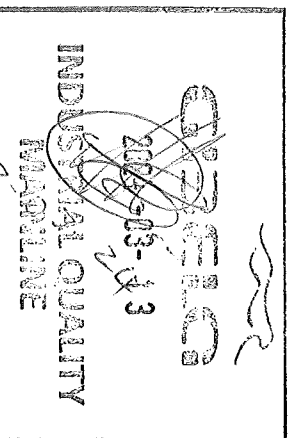
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BEFORE WELDING

Record D1 values	Record D2 values	D1-D2 ≤ 5mm	2589 to 2595
A 3296	3291	5	
B 3298	3291	4	
C 3298	3296	2	
D 3266	3267	1	
E 3268	3265	3	
F 3296	3295	1	
G 3300	3300	0	
H 3266	3265	1	
I 3268	3266	2	
J 3293	3295	2	
K 3296	3297	1	
L 3269	3267	2	
M 3295	3295	0	

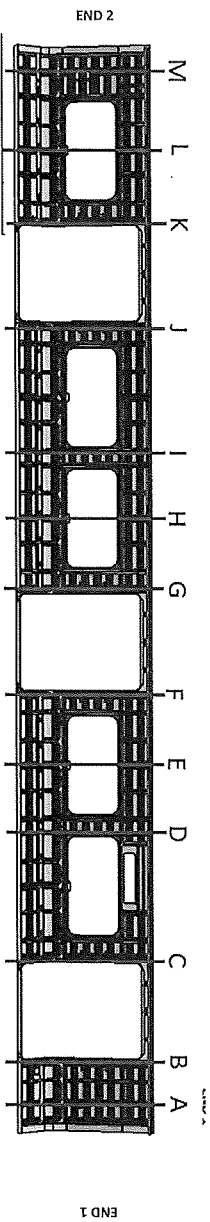




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AFTER WELDING

	Record D1 values	Record D2 values	D1-D2 ≤ 5mm	2589 to 2595
A	3292	3296	4	2591
B	3296	3291	5	2589
C	3298	3291	7	2595
D	3269	3263	6	2589
E	3263	3266	3	2589
F	3292	3296	4	2593
G	3298	3300	2	2595
H	3263	3264	1	2595
I	3267	3267	0	2592
J	3294	3294	0	2591
K	3299	3298	1	2591
L	3267	3266	1	2589
M	3293	3294	1	2594

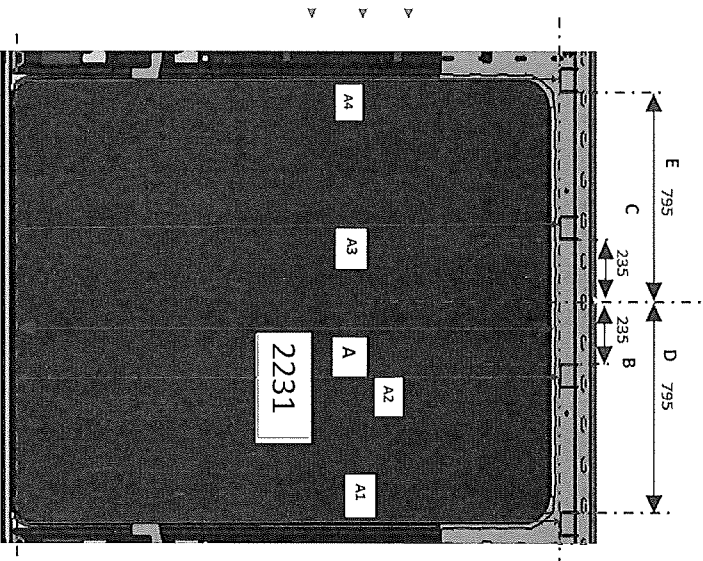
INDUSTRIAL QUALITY
MANLINE

2024-03-13



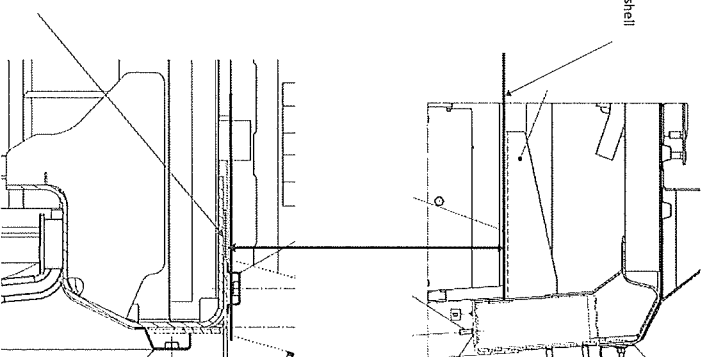
76
03-24
Handwritten signature and date

Specifications of Details for CBS measurement



Brackets Carbodyshell
 U Type Supports

Brackets Carbodyshell
 Channel Assy



DOOR 1 - LHS

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

DOOR 2 - LHS

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

DOOR 3 - LHS

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

DOOR 1 - RHS

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

DOOR 2 - RHS

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

DOOR 3 - RHS

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

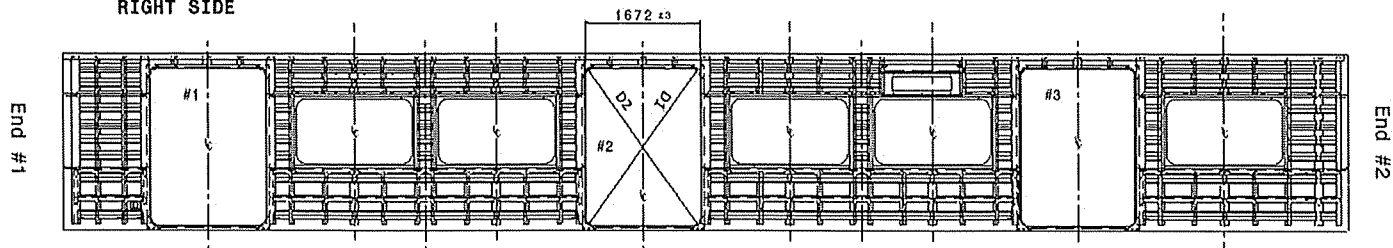
INDUSTRIAL QUALITY
 MATERIAL



 18-03-24

Specifications of Details for CBS measurement

RIGHT SIDE



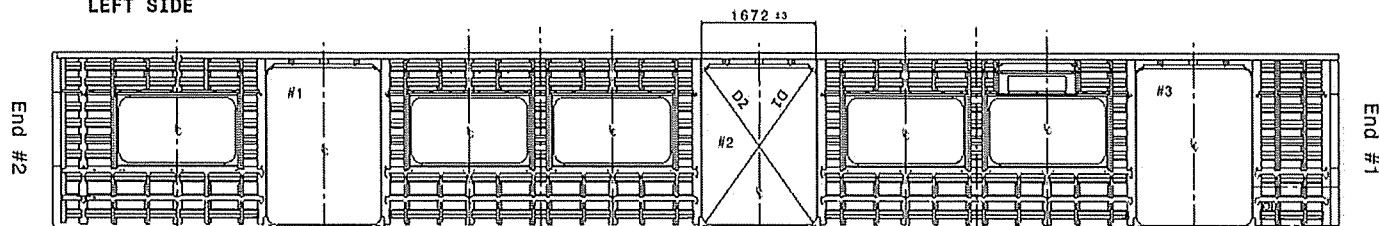
Doors length - 1672 ±3mm

#1	#2	#3	
1672	1674	1673	HIGHER DIMENSION
1671	1673	1671	CENTRAL DIMENSION
1671	1672	1671	LOWER DIMENSION

Doors diagonal D1-D2 maximum difference ≤ 4mm

#1	#2	#3
D1 2746	2748	2746
D2 2747	2746	2744
D1-D2 1	2	2

LEFT SIDE

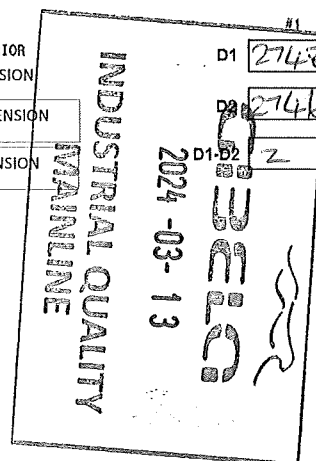


Vão de Portas - 1672 ±3mm
Doors length - 1672 ±3mm

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


Diagonal de portas - diferença D1-D2 < 4mm

#1	#2	#3
D1 2748	2744	2745
D2 2746	2746	2744
D1-D2 2	2	1

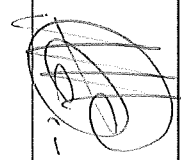
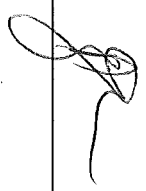


2024-03-13

18-03-24

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		Date- 28/10/2023	

Self Inspection - Final Result

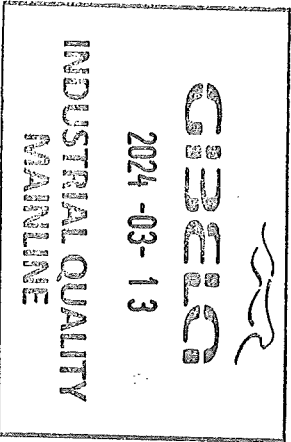
Is the car good to advance to the next workstation/process? (Approval of Operations and Industrial Quality)				DATE	NAME	SIGNATURE
HOLD POINT	GO	If activities are not complete, the missing activities must not impact the next stage!	Every auto inspection performed conforms to specification or in case of discrepancy the same is approved by the competent party.)	18-03-24	ASANDIA Operations	
	NO GO	There are activities pending that impact 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)	18/03/24	Alto bar 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	Action	Responsible	Due date	Status

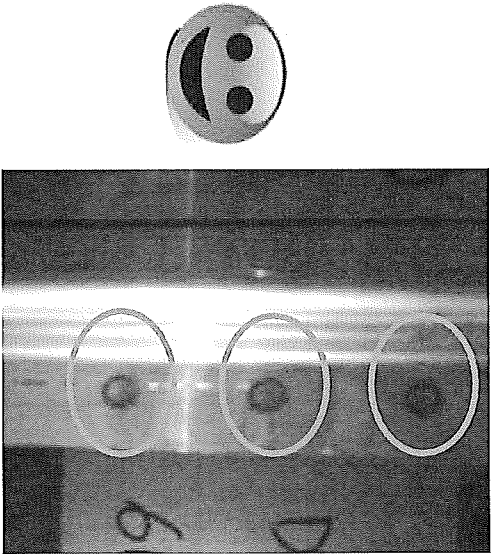
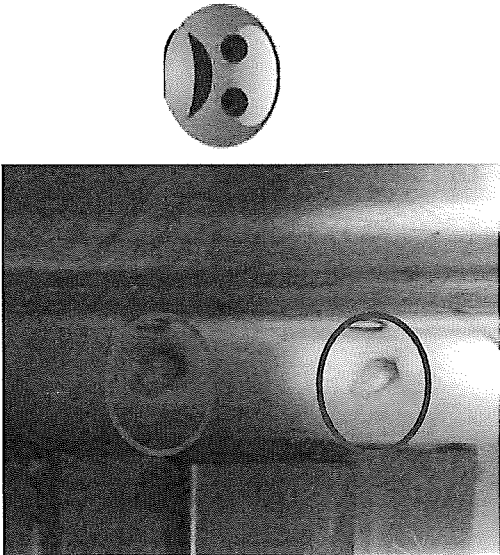
Operations


Quality



	DTR30223319/2 Carshell Assembly TC		Rev. 29	Project: PRASA SI.CB1220.323.V29
			Date- 28/10/2023	


ANNEXURE A: Spot Welding Quality Acceptance Standard



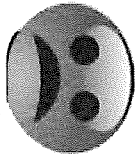
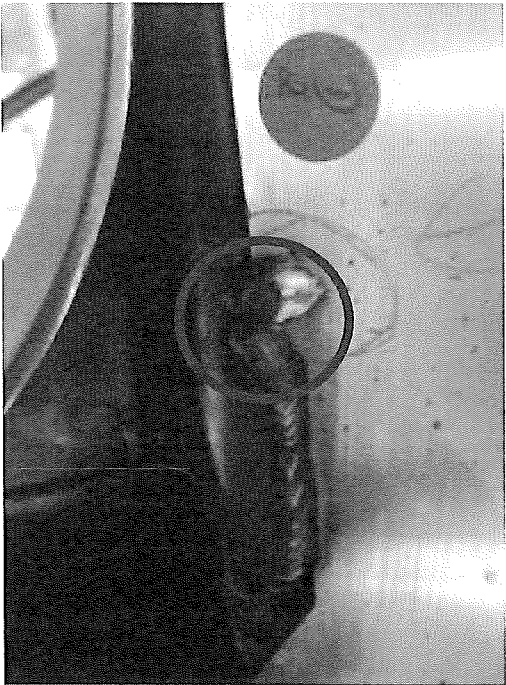



GIBELCO
2024-03-13

**INDUSTRIAL QUALITY
MANLINE**

	Rev. 29 DTR30223319/2 Carshell Assembly TC		Project: PRASA SI.CB1220.323.V29


ANNEXURE B: Arc Welding Quality Acceptance Standard



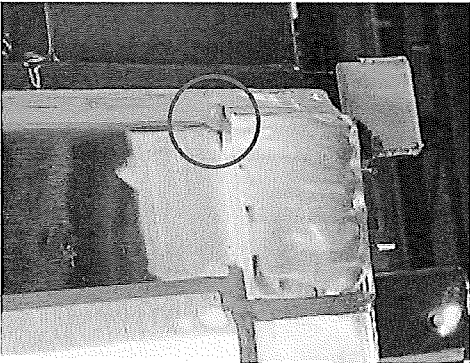
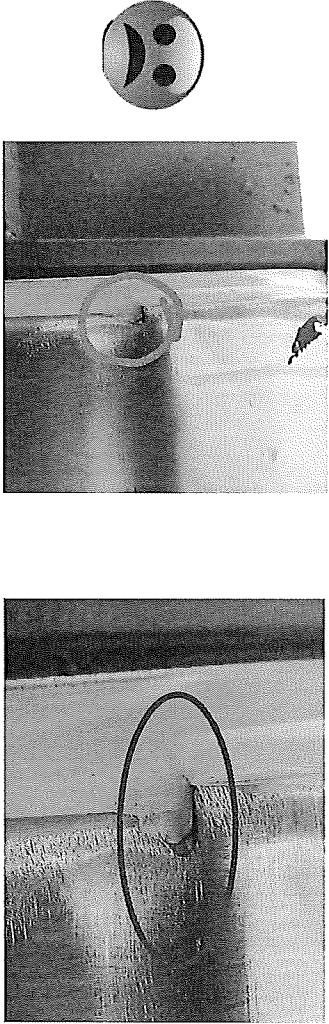


2024-03-13

INDUSTRIAL QUALITY
MANLINE

	DTR302231912 Carshell Assembly TC		Rev. 29	Project: PRASA
	28/10/2023		Date-	SI.CB1220.323.V29

ANNEXURE B: Sealant





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	CARTYPE				WORK INSTRUCTION	SAFETY?		
				TCL	N4	M1	M2				
DT0000023319	AD0000123593	DT0000023319 Cabbed Assembly TC	CB230	X				PRA.CB1230.DT0000012	YES		
								23319.V20			
REV	DATE	MODIFICATION CONTENT		RESPONSIBLE		NAME		DATE			
0	06/04/2018	GIBELI NEW CREATION		APPROVER		Ismeleng Modiba		09/04/2018			
				CHECKER		Nosizo Pindela		09/04/2018			
				COMPILER		Thanyani Muthyeu		06/04/2018			
				APPROVER		Ismeleng Modiba		30/5/2018			
				CHECKER		Nosizo Pindela		30/5/2018			
1	30/5/2018	Team leader and Quality Technician to sign Change final signature from PME Manager to Quality manager		REVISED BY		Nosizo Pindela		30/5/2018			
2	05/07/2018	Certain dimensional checks moved to CB1220		APPROVER		Ismeleng Modiba		05/07/2018			
				CHECKER		Nosizo Pindela		06/07/2018			
				COMPILER		Raphonee Madema		05/07/2018			
5	24/01/2019	As per Baseline 10.2		APPROVER		Ismeleng 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		Ismeleng Modiba		13/03/2019			
				CHECKER		Nosizo Pindela		13/03/2019			
				COMPILER		Nosizo Pindela		13/03/2019			
7	17/09/2019	Added Cab Fire Barrier Flatness Measurements		APPROVER		Ismeleng Modiba		17/09/2019			
				CHECKER		Nosizo Pindela		17/09/2019			
				COMPILER		Nosizo Pindela		17/09/2019			
10	20/09/2019	New Baseline 10.2.5		APPROVER		Nosizo Pindela		20/09/2019			
				CHECKER		Nosizo Pindela		20/09/2019			
				COMPILER		Timothy Maimela		28/01/2021			
15	28/01/2021	New Baseline 10.2.6		CHECKER		Bongane Mafina		28/01/2021			
				COMPILER		Bongane Mafina		28/01/2021			
				APPROVER		Timothy Maimela		30/04/2021			
20	19/04/2021	New Baseline change 10.3		CHECKER		Bongane Mafina		19/04/2021			
				COMPILER		Bongane Mafina		19/04/2021			
				APPROVER		Collins Mkhombhi		20/02/2022			
25	20/04/2022	New Baseline change 10.3.1		CHECKER		Andani Muthyeu		20/02/2022			
				COMPILER		Andani Muthyeu		20/02/2022			
				APPROVER		Collins Mkhombhi		14/06/2022			
26	14/06/2022	Update minimum temperature requirement for seatlant application		CHECKER		Andani Muthyeu		14/06/2022			
				COMPILER		Andani Muthyeu					
				APPROVER		Collins Mkhombhi		26/07/2022			
27	26/07/2022	Threshold measurements addition		CHECKER		Andani Muthyeu		26/07/2022			
				COMPILER		Andani Muthyeu					
				APPROVER		Collins Mkhombhi		17/10/2022			
28	17/10/2022	Addition of traceability for seatlant application		CHECKER		Ntokoza Zwane		17/10/2022			
				COMPILER		Amogelang Mkhamphe					
				APPROVER		Vanessa Ntuli		14/04/2023			
29	14/04/2023	Added seatlant batch number & welding consumables traceability		CHECKER		Ntokoza Zwane		14/04/2023			
				COMPILER		Amogelang Mkhamphe					
				APPROVER		Tyson Ngobeni		06/11/2023			
30	06/11/2023	Added traceability for thresholds for boiler makers and welders		CHECKER		Andani Muthyeu		06/11/2023			
				COMPILER		Ntokoza Zwane					
				APPROVER							
TRAINSET	CAR	OPERATOR NAME & ALPS NUMBER		DATE		SELF INSPECTION NUMBER		PAGES			
2119	TC1	Zanele 482714 19/10/24		SI.CB1230.324.V28		14					



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30
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Carro
Car

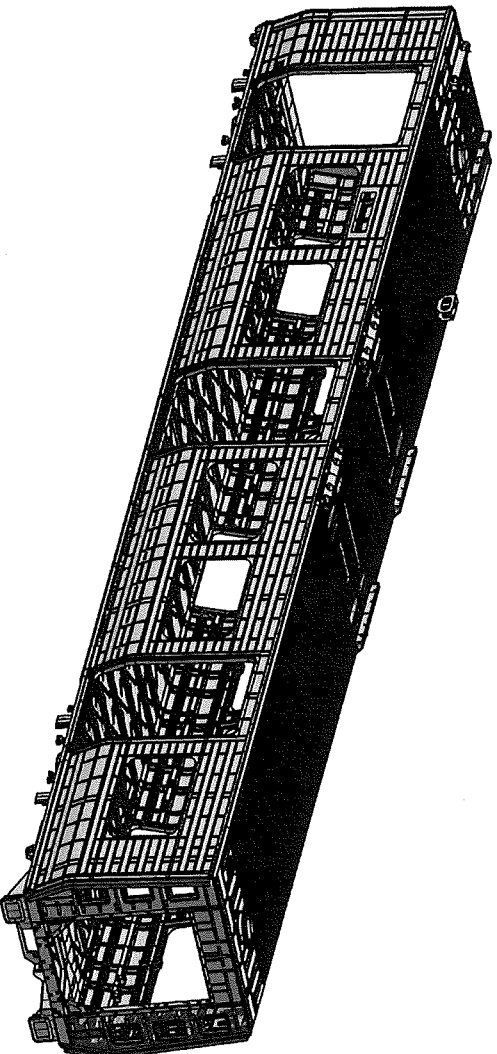
NCR:

Work station:

CB1230



Safety Related



I - Documentation and Instruments

I.1 - Documentation Control

Document	Type of car						Revision	Observation	OK	NOK	Rework	Signature/Date (Operations)	Signature/Date (Quality)
	TC1	M1	M2	M3	M4	TC2							
DT00000223319							30		✓		N/A	<i>[Signature]</i> 11/03/24	<i>[Signature]</i> 14/03/24

I.2 - Instruments Control

Monitoring and Measuring Instrument Control - Used for Special Process

Instruments	Validation	Calibration or Verification Validation Date	OK	NOK	Signature/Date (Operations)	Signature/Date (Quality)
Tubular	22 615	2024/08/02	✓		<i>[Signature]</i> 19/03/24	<i>[Signature]</i> 19/03/24
Combination square	GIBCSQ137	2024/10/04	✓		<i>[Signature]</i> 19/03/24	<i>[Signature]</i> 19/03/24
Tape measurement	GIBTA0394	2024/04/05	✓		<i>[Signature]</i> 19/03/24	<i>[Signature]</i> 21/03/24

1.3 Consumables

Welding Consumable Control - Used for Special Process

Filler Material	Heat Number	Welding Process	OK	NOK	Signature/Date (Manufacturing)	Signature/Date (Quality)
308LSi	8231067	MIG	✓		<i>[Signature]</i> 16/03/24	<i>[Signature]</i> 19/03/24
GR 14361	299687	MIG	✓		<i>[Signature]</i> 14/03/24	<i>[Signature]</i> 14/03/24



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II - Control Activities of Production

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° DT00000223319	DT00000223319	X			19/03/24	19/03/24
02	N/A	Carshell free of significant flaws which compromise the appearance or functionality.	DTD0000210675	X			19/03/24	19/03/24
03	REFER TO ANNEXURE A	Arc Welding inspected and approved according procedure.	IND-SAL-WMS-016 DTD00000210675	X			19/03/24	19/03/24
04	N/A	Functional dimensions approved according drawing or complementary document approved by Alstom engineering and registered in this document.	Approved according specified on pages below.	X			19/03/24	19/03/24
05	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 DTD00000210658.	As the welding procedure IND-SAL-WMS-018 and DTD00000210658	X			19/03/24	19/03/24
06	N/A	Before application of sealant record the expiry date and make sure that the room temperature and humidity are within specified values as per Works Instructions Specified: Temperature Min - Max (1) Min-Max 10°C - 35°C Relative humidity Min - Max (1) 25% - 80% Max (1)	Actuals Sealant Batch No: 15R 70-03 Exp Date: 10/25 Temperature: 27,1°C Humidity: 35%	X			19/03/24	19/03/24
07	N/A	Verification of sealant application in regions of roof and sideframe finishers.	Sealant must be: -Applied straight and even (1.5mm) -Free of gaps, cracks, damage and debris (flashes, dirt, dust) Refer to Annexure B	X			19/03/24	19/03/24

2024-02-15

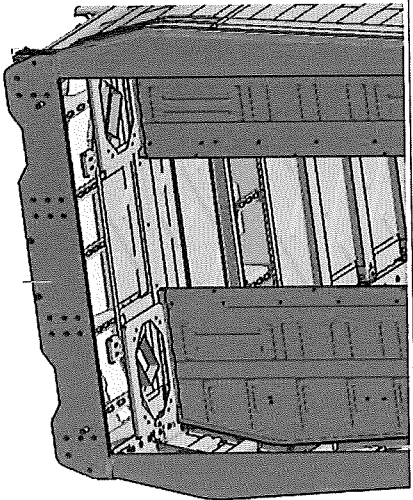


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06/11/2023

Project: PRASA
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VIEW A



**END 1
SEALANT**

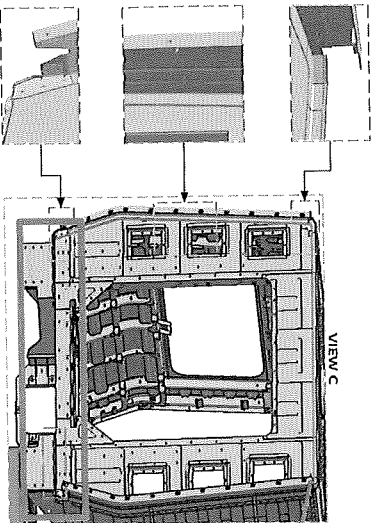
OPERATOR
(Name & sign):

Lento
Lento

OPERATOR
(Name & sign):

Lento
Lento

VIEW C



OPERATOR
(Name&sign):

Kicoy *#*

OPERATOR
(Name&sign):

OPERATOR
(Name&sign):

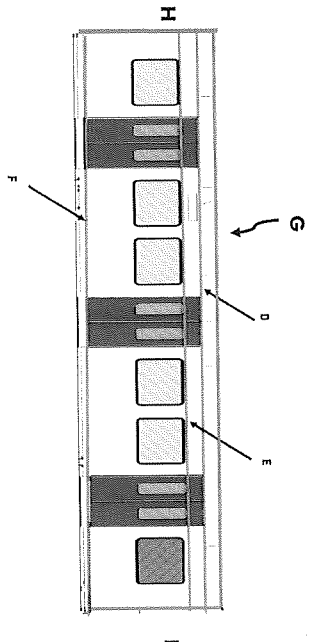
GIBELD TRANSPORT COURSES
ATTENDING QUALITY
2024-05-15
Signature



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Area D,E,F,G,H,I	LHS	RHS
Operator (Name & sign) :	<u>F,G,D</u>	<u>F,G,D</u>
Operator (Name & sign) :	<u>khosy</u>	<u>khosy</u>
Operator (Name & sign) :	<u>E,I,H,E</u>	<u>E,I,H,E</u>
Operator (Name & sign) :	<u>ISHORU</u>	<u>ISHORU</u>
Operator (Name & sign) :	_____	_____
Operator (Name & sign) :	_____	_____

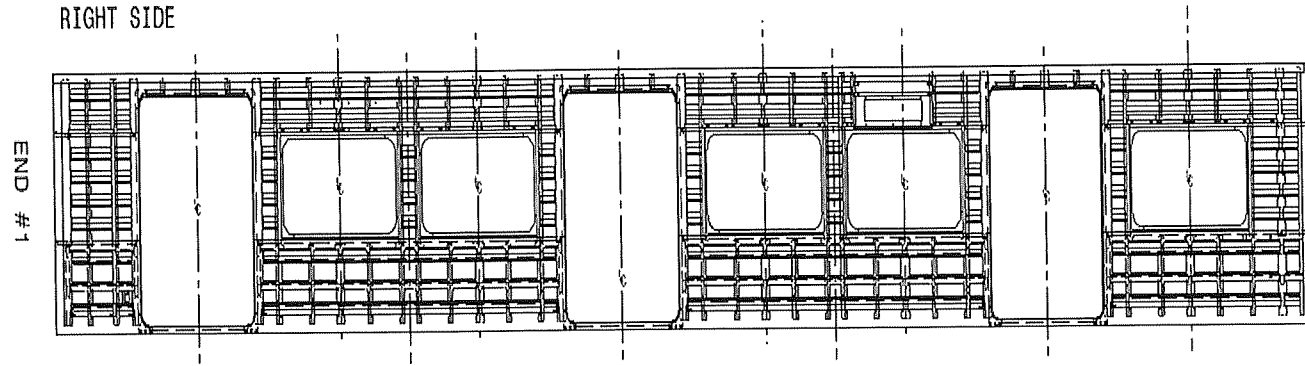
PRASA
CARSHLL ASSEMBLY
2024-02-15

END #2

END #1

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

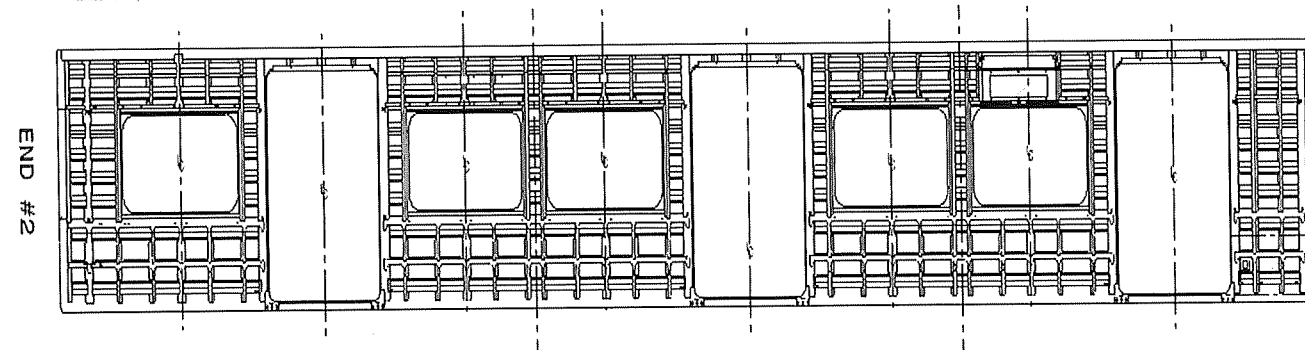
RIGHT SIDE



MAXIMUM 1

MINIMUM 0.3

LEFT SIDE



MAXIMUM 0.5

MINIMUM 1

Signature: [illegible]
Date: 06/11/2023
[illegible]
[illegible]
[illegible]



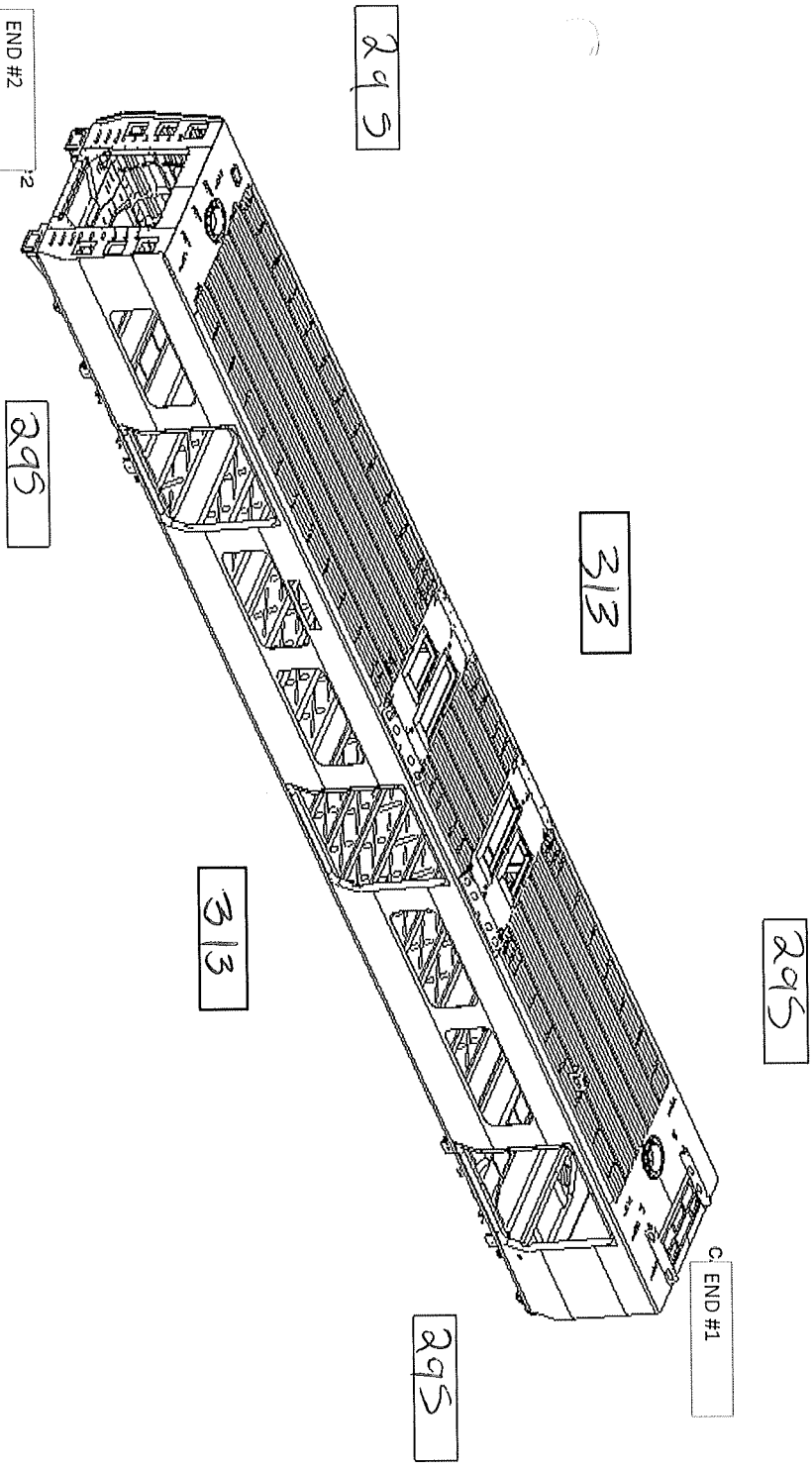
DT00000223319 Carshell Assembly TC

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Project: PRASA
SI.CB1230.324.V29

Specifications of Details for CB5 measurement CB1230

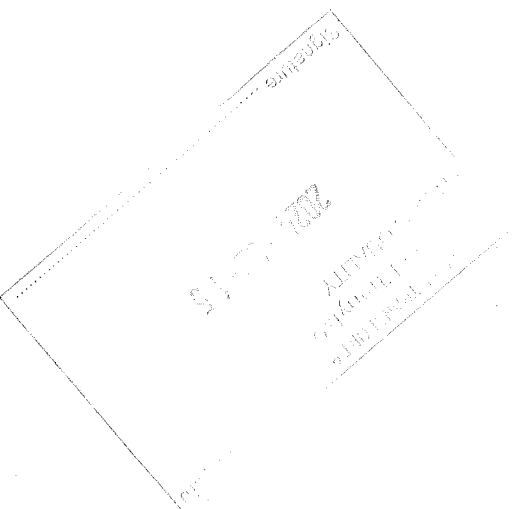
Specified Camber for car out of jig is 16mm (-0mm + 2mm)



MEASURED CAMBER VALUES

RIGHT	18
LEFT	18

D1





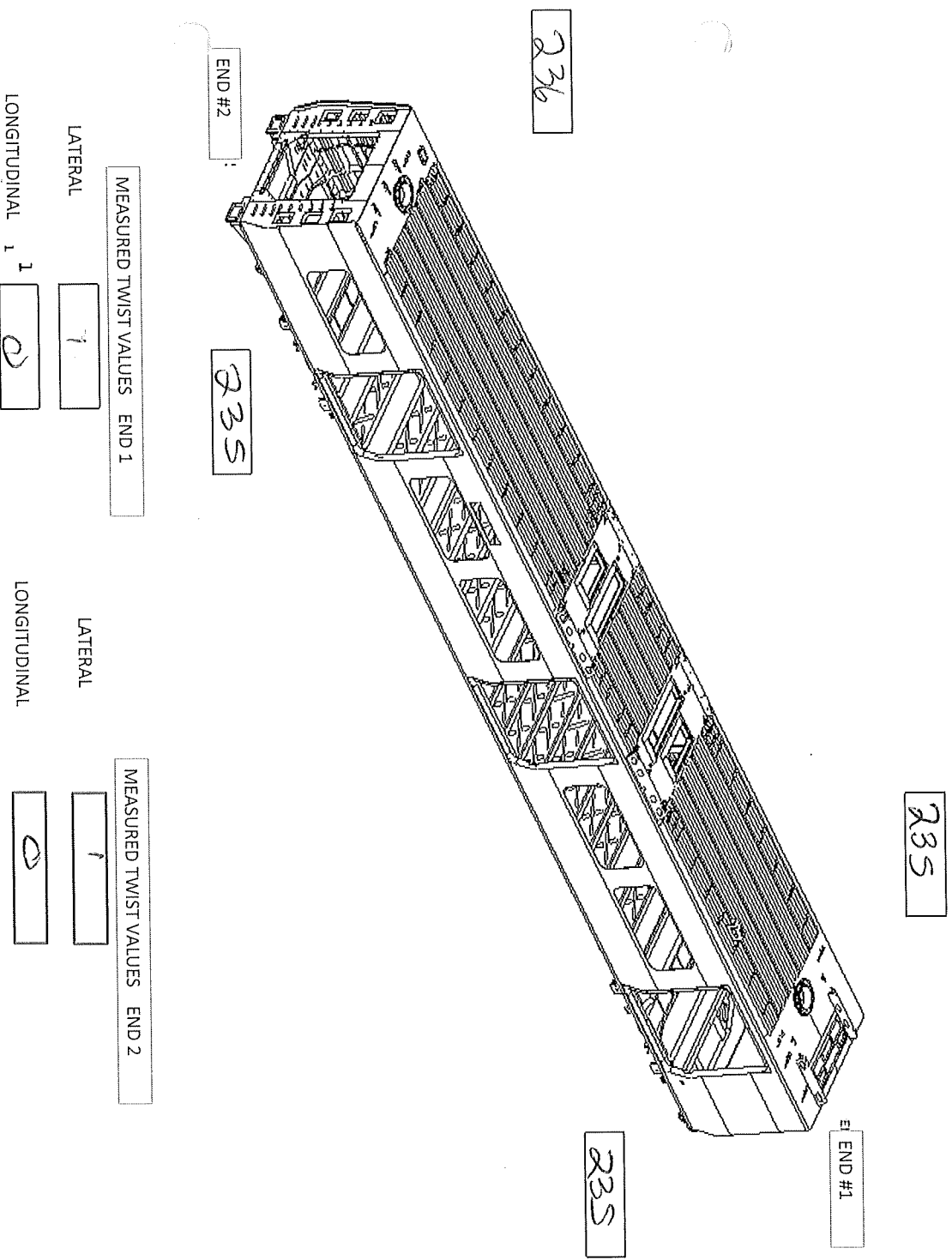
DT00000223319 Carshell Assembly TC

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Project: PRASA
SI.CB1230.324.V29

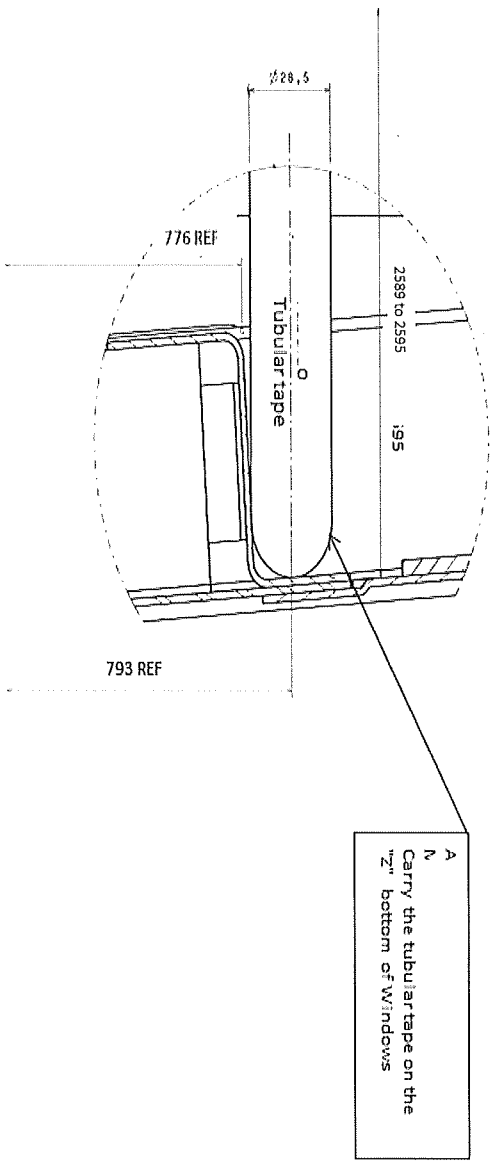
Specifications of Details for CBS measurement CB1230

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

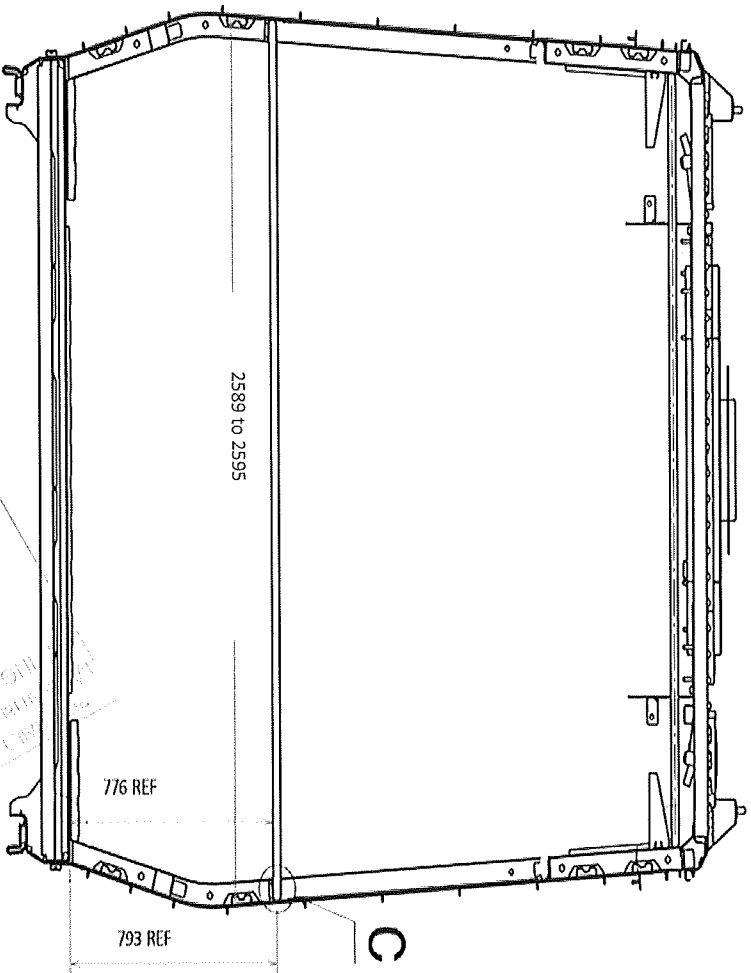


Signature: [Signature]
Date: 2023-06-11
Project: PRASA
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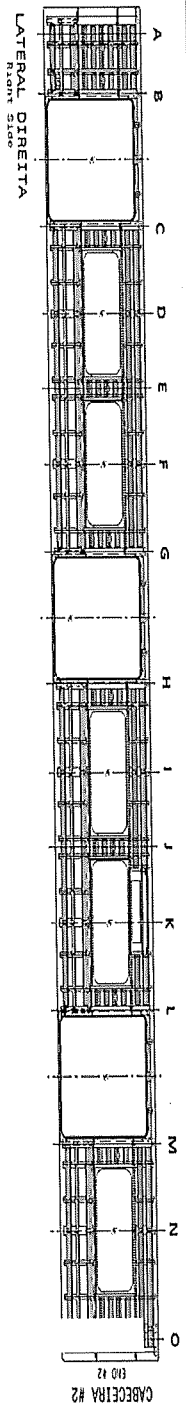
Details for measuring on the CB1230 stage, after completion of activities



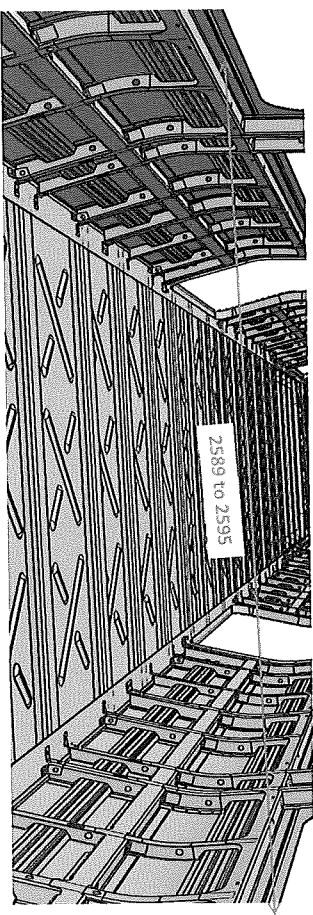
Detail C



Specifications of Details for CBS measurement



2589 to 2595mm
A 25 610
B 25 94
C 25 023
D 25 912
E 25 910
F 25 91
G 25 912
H 25 910
I 25 913
J 25 912
K 25 915
L 25 914
M 25 914
N 25 910
O 25 919



Threshold verification

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

BOILER MAKER:

Machopob Mica,

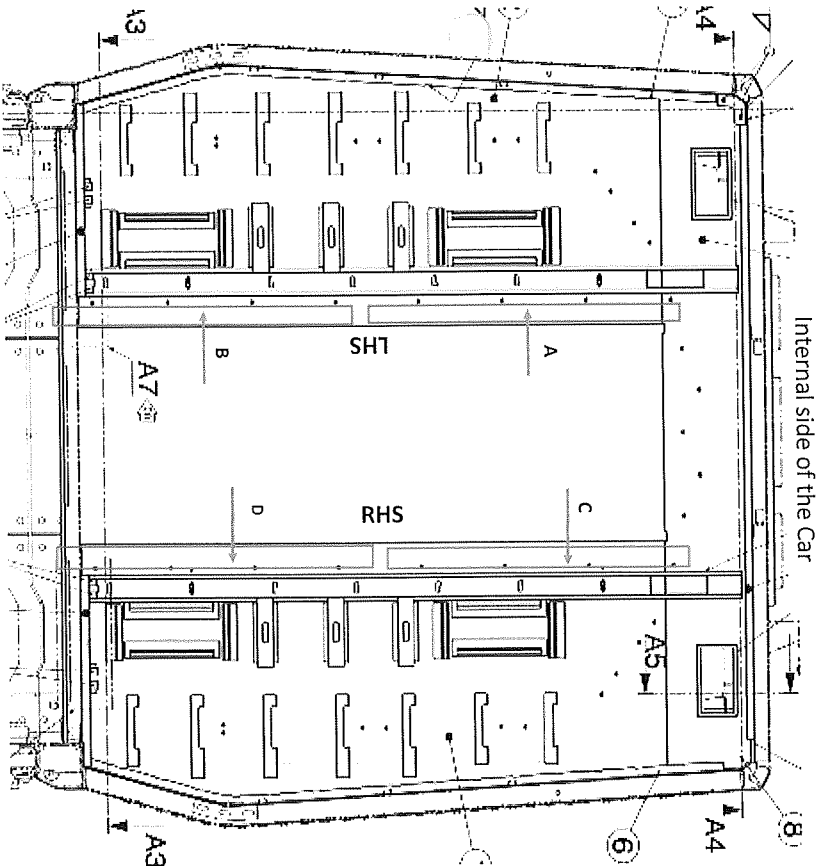
WELDER:

Zaneke R.

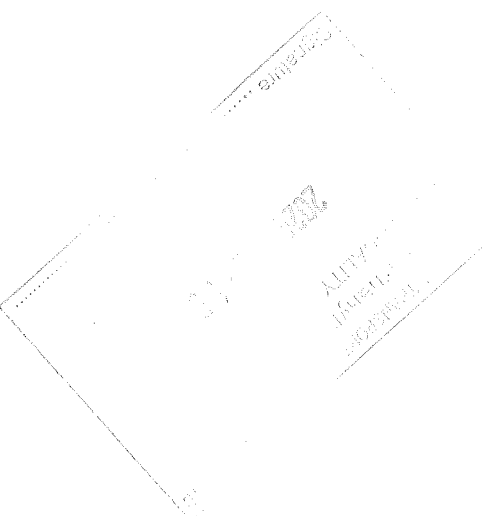
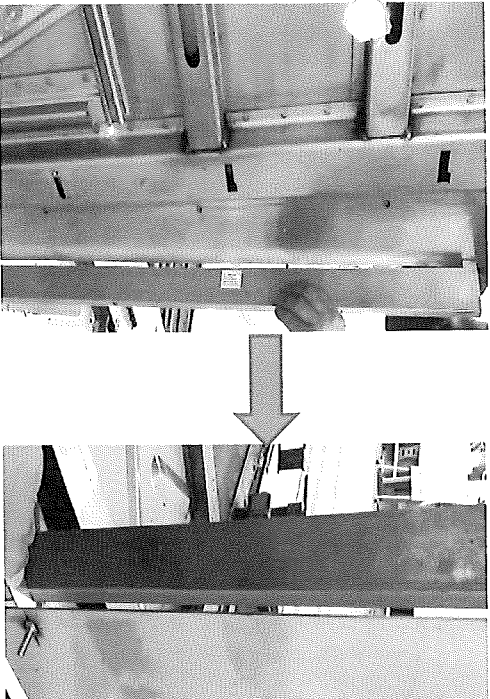
Specifications of Details for CBS measurement

Measure the flatness on the Cab Fire Barrier after installation and welding. Measure positions A, B,C and D using 1000mm flatness ruler and taper gauge.

Specified Maximum Flatness deviation on Cab Fire Barrier = 2mm



Measured Values			
	Minimum	Maximum	Deviation
A	9.1	9.7	0.7
B	9.2	9.8	0.6
C	10.1	10.9	0.8
D	10.1	10.6	0.7





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Self Inspection - Final Result

Is the car good to advance to the next workstation/process?
(Approval of Operations and Industrial Quality)

DATE

NAME

SIGNATURE

If activities are not complete, the missing activities must not impact the next stage!

10/03/24

Zanele
Operations

Zanele

Every auto inspection performed conforms to specification or in case of discrepancy the same is approved by the competent party.)

25/03/24

Andoni
Industrial Quality

Andoni

There are activities pending that impact/stop the activities of the next process Obs: (To describe problems below)

19/03/24

Andoni
Industrial Quality

Andoni

HOLD POINT

GO

NO GO

In case of "NO GO", describe blocking problems

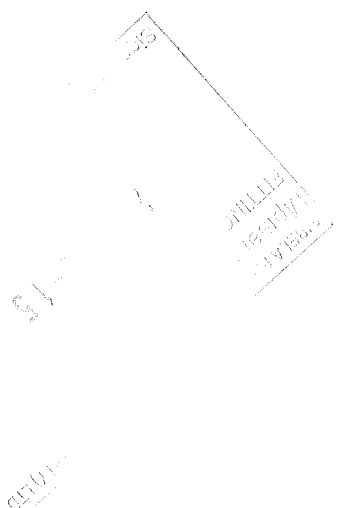
Date 10/03/24 not cleared: closed


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

Item	Description	Action	Responsible	Due date	Status

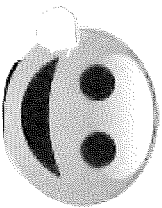
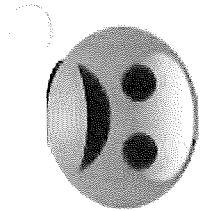
Operations


Quality



 GIBELCO	DT00000223319 Carshell Assembly TC			Rev.	Project: PRASA
				30	
				Date-	SI.CB1230.324.V29
06/11/2023					

ANNEXURE A: Arc Welding Quality Acceptance Standard



	DT00000223319 Carshell Assembly TC		Rev. 30	Project: PRASA
	06/11/2023		Date-	SI.CB1230.324.V29

ANNEXURE B: SEALANT

