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2024-02-23

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PRASA PROJECT

## 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.

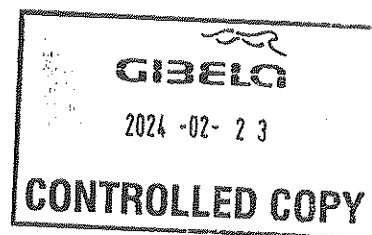
## APPLICATION REFERENCE


MOUNTING	DESCRIPTION	STATION	CAR TYPE						WORK INSTRUCTION	SAFETY ? 
			TC1	M1	M2	M3	M4	TC2		
<input type="checkbox"/>	DTR3-PROCE-14	LEVELLING, WEIGHTING AND BALANCING M CAR	FT1140	1	1	1	✓		PRA.FT1140.04	YES
<input type="checkbox"/>	DTR3-PROCE-14	LEVELLING, WEIGHTING AND BALANCING TC CAR	FT1140	1				1	PRA.FT1140.05	YES
<input type="checkbox"/>	DTR3-PROCE-17	LEVELLING, WEIGHTING AND BALANCING TC CAR	FT1140	1	1	1	1	1	PRA.FT1140.05	YES
<input type="checkbox"/>	DTR3-PROCE-17	LEVELLING, WEIGHTING AND BALANCING TC CAR	FT1140	1	1	1	1	1	PRA.FT1140.05	YES
<input type="checkbox"/>										
<input type="checkbox"/>										
<input type="checkbox"/>										

REV	DATE	MODIFICATION CONTENT	RESPONSIBLE	NAME	DATE
7	2/11/2020	UPDATE OF AIR TIGHTNESS TEST TIME FROM 4 MIN TO 5 MIN. ADD PANTOGRAPH AIR TIGHTNESS.	APPROVER	GIVEN SILOWA	2/11/2020
			CHECKER	SIMON MOKOENA	2/11/2020
			COMPILER	COMFORT MALATJI	2/11/2020
8	9/13/2021	ADDING GAUGE MEASUREMENT CHECK ON THE SI.	APPROVER	MAKOFANE LUCY	9/13/2021
			CHECKER	RATAU EDISON	9/13/2021
			COMPILER	TSAKANI KHOSA	9/13/2021
9	5/31/2022	pressure valve (APV) Isolation	APPROVER	MAKHURUPETJI THABANG	5/31/2022
			CHECKER	HAZEL MGIBA	5/31/2022
			COMPILER	RATAU EDISON	5/31/2021

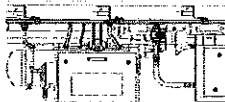
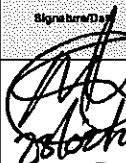













TUE	CAR	OPERATOR NAME	DATE	SELF INSPECTION NUMBER	PAGES
Ts 209	M13	B. Monno	23/02/24	SI.FT1140.52	01/08



	SELF INSPECTION INDUSTRIAL QUALITY		Rev:08	Project: PRASA	SI.FT1140.52					
			Date:							
			5/31/2022							
Car:	NCR:		Work Station: FT1140							
 Safety Related										
I - Document and Instrument Control										
L1 - Documents control										
Document	TS	M1	M2	M3	M4	TC2	Revision	Remarks	Signature/Date	
PRA.FT1140.04										
PRA.FT1140.05				✓					✓ <i>Milbati 23/01/24</i>	
PRA.FT1140.05										
L2 - Instruments Control - Monitoring and Measuring Instrument Control (Used for all Instrument with calibration needed)										
Instruments description	Serial number		Calibration or Verification Validation Date		Signature/Date					
Measuring tape	GIBTA 0276		26/10/23 - 26/10/24 ✓							
Verrier Calliper	GIBUR 0056		06/10/23 - 06/10/24 ✓							
Torque wrench 320N.m	A 7650027		21/12/23 - 21/12/23 ✓							
Torque wrench 150N.m	D 28622009		17/12/23 - 17/12/24 ✓				 23/02/24			
Torque wrench 35N.m	D 2511023		12/12/23 - 12/12/24 ✓							



	<h1>SELF INSPECTION INDUSTRIAL QUALITY</h1>	Rev:09	Project: PRASA	SI.FT1140.52
		Date:		
		5/31/2022		


II - Self Inspection - Items to Check



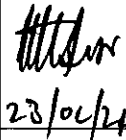

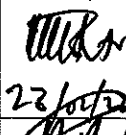
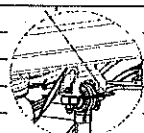








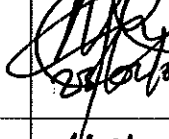





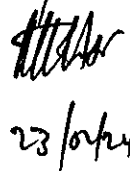
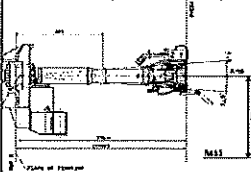
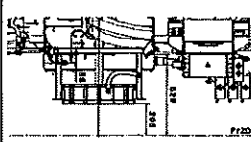
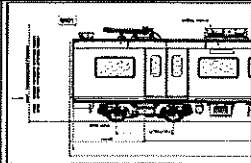
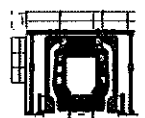
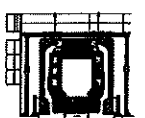
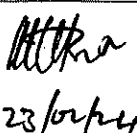
E.1 - Items to Check														
Item	Picture/Detail	Description	Criteria/Record			Signature/Date								
01		Ensure that the average pressure valve (APV) is isolated by capping the two input pipes at the fittings installing the blanking fitting on the pipes highlighted		✓		 23/02/24								
02		Check underframe pipe system Air tightness. Test performance according to WI PRA.FT1130.15.	The test was performed and no leak was observed. Initial pressure (IP): 9.04 bar Final pressure (FP): 9.00 bar FP - IP = 0.04 bar APPROVAL CRITERIA: After 5 minutes the pressure cannot drops more than 0,2 bar	✓		 23/02/24								
03		Movement performed at least 50m to shudder the car. And position on the leveled load cell, with wheels on the center.		✓		 23/02/24								
04		Measurement inspection was done with car on condition AW0 and the rail leveled.  (The load cells system must be leveled and calibrated)	Calibration Validation Date  _ / _ / _	✓		 23/02/24								
05		In case of the equipments not installed, equivalent weight of the item should be added in the same place to simulate the equipment.  (Any simulated weight, add on pending list)	<table><thead><tr><th>EQUIPMENT DESCRIPTION</th><th>WEIGHT (kg)</th></tr></thead><tbody><tr><td>Lanyway</td><td>260</td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table>	EQUIPMENT DESCRIPTION	WEIGHT (kg)	Lanyway	260					✓		 23/02/24
EQUIPMENT DESCRIPTION	WEIGHT (kg)													
Lanyway	260													
06		The pressure difference between air spring on each bogie when raise the pressure was maintained < 0.3 bar.		✓		 23/02/24								
07		Measurement recorded with empty suspension and loaded are on conformity with tolerances of the project		✓		 23/02/24								
08		All leveling measurements are according to the reference.  (Values out of reference must be recorded on "Description of defects")		✓		 23/02/24								

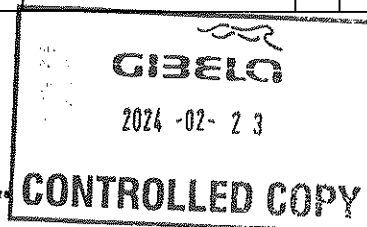



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	<h1>SELF INSPECTION INDUSTRIAL QUALITY</h1>	Rev:09	Projet: PRABA	SI.FT1140.52
		Date: 5/31/2022		

Item	Picture/Photo	Description	Critère/Verdict	Signature	Date						
09		Check that the leveling rods are torqued and have torque marker.	✓								
10		The difference of weight between the left and right wheels of each axis, must be ≤ 4%. (Verify on the T&C equipment if all arrows are in green).	✓		23/06/24						
11		Remove the car, move back onto the load cells and repeat the step 09. Confirm if both are in the tolerance of ≤ 4%.	✓		23/06/24						
12		1 - Record shims thickness used on rod. 2 - All screws were torqued and have torque marker.	<table><tr><th>THICKNESS (mm)</th></tr><tr><td>I </td></tr><tr><td>II </td></tr><tr><td>III </td></tr><tr><td>IV </td></tr></table>	THICKNESS (mm)	I 	II 	III 	IV 	✓		23/06/24
THICKNESS (mm)											
I 											
II 											
III 											
IV 											
13		Pivot fixation	1- M20 x 80 screws with application of torque according to PRA.FT1140.04 / 05	✓		23/06/24					
14		FOR TC CARS F = Height of the center of Automatic coupler F = 895mm (+5 / -10mm) (Using leveled rail)	TC CAB #1 = _____ mm		N/A						
15		FOR TC CARS Height of Eurobalise Antenna = 205mm(+/-10mm) (Using leveled rail)	TC CAB #1 = _____ mm		N/A						
16		Check pantograph piping air tightness. Test performance according to WI PRA.FT1140.17.	The test was performed and no leak was observed. -Roof piping connection fittings. -Room piping connection fittings(Roof arch and door trimming)		N/A						
17		Pantograph does not come in contact with the higher height gauge when passing through.	No Contact with Pantograph and Gauge -GO Contact with Pantograph and Gauge - NO GO		N/A						
18		Car does not come into contact with the gauge.	No Contact with Car and Gauge -GO Contact with Car and Gauge - NO GO	✓		23/06/24					





# SELF INSPECTION INDUSTRIAL QUALITY

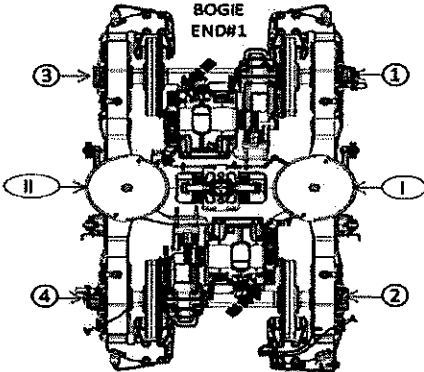
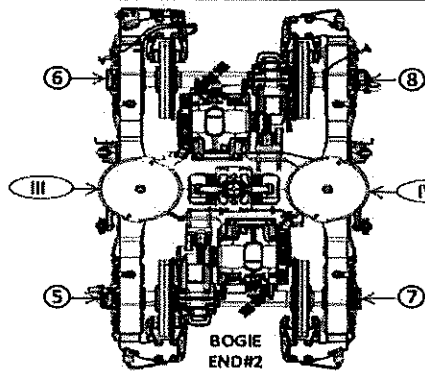
Rev:09

Date:

5/31/2022

Projet:  
PRAGA

SI.FT1140.52

DIFFERENTIAL MEASUREMENTS DURING LEVELLING (ALL UNITS MUST BE IN mm AND 1/16")											
		LEFT SIDE						RIGHT SIDE			
DESCRIPTION		END#1						END#2			
AIR SPRING HEIGHT (EMPTY)	N/A	A'ii									A'i
AIR SPRING HEIGHT (FULL)	min 254 max 263	Aii			258	257	255	249	256	256	Ai
FLOOR COVERING HEIGHT	min 1096 max 1116	Eii			1111	1110	1109	1100	1106	1106	Ei
AIR SPRING PRESSURE	± 0.3 (Di - Qi)	Cii			2,65	2,69	2,75	2,59	2,71	2,71	Ci
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	Ds									Di
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	Da									Da
PIVOT VERTICAL GAP	min 25 max 32	Kii									Ki
PIVOT LATERAL STOP GAPS DIFFERENCE	≤ 4 (Ai - Aj)	Jii									Ji
QTY OF TURNS OF LEVELLING ROD	N/A	Xii					3/4P	1/4P			Xi
SHIMS OF ANTI-ROLL BAR	N/A	Yii									Yi
END#1											
AIR SPRING HEIGHT (EMPTY)	N/A	A'iii									A'iv
AIR SPRING HEIGHT (FULL)	min 254 max 263	Aiii			256	255	253	255	256	257	Aiv
FLOOR COVERING HEIGHT	min 1096 max 1116	Eiii			1109	1108	1105	1108	1109	1110	Eiv
AIR SPRING PRESSURE	± 0.3 (Di - Qi)	Ciii			2,74	2,73	2,62	2,82	2,74	2,71	Civ
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	Ds									Di
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	Da									Da
PIVOT VERTICAL GAP	min 25 max 32	Kiii									Kiv
PIVOT LATERAL STOP GAPS DIFFERENCE	≤ 4 (Ai - Aj)	Jiii									Jiv
QTY OF TURNS OF LEVELLING ROD	N/A	Xiii					1/4P	3/4P			Xiv
SHIMS OF ANTI-ROLL BAR	N/A	Yiii									Yiv
END#2											
BOGIE ORIENTATION											
											
											

GOOD LOWER HIGHER		
✓	↓	↑
WEIGHT COMPARISON		
EQUIPMENT		
WEIGHT		
EQUIPMENT		
WEIGHT		
AUTOMATIC COUPLER HEIGHT		
ANTENNA HEIGHT		

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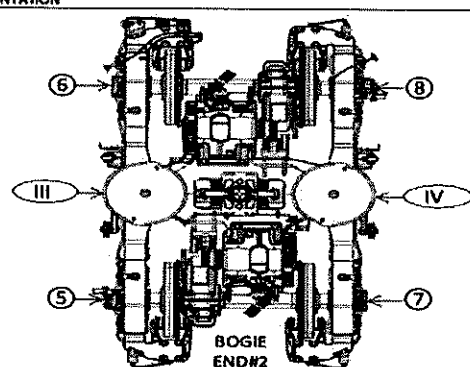
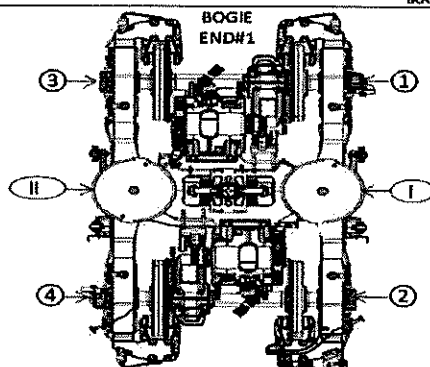
Projet:  
PRASA

SI.FT1140.52

## DRAFT MEASUREMENTS DURING LEVELLING (ALL UNITS MUST BE IN mm/mm/kg)

DESCRIPTION	TOLERANCE	END#1												END#2											
		LEFT SIDE						RIGHT SIDE						LEFT SIDE						RIGHT SIDE					
AIR SPRING HEIGHT (EMPTY)	N/A	A'II												A'III											A'IV
AIR SPRING HEIGHT (FULL)	min 254 max 263	AII												AIII											AIV
FLOOR COVERING HEIGHT	min 1096 max 1116	EII												EIII											EIV
AIR SPRING PRESSURE	± 0.3 (Ov - C)	CII												CIII											CIV
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D3												D5											D7
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D4												D6											D8
PIVOT VERTICAL GAP	min 25 max 32	KII												KIII											KIV
PIVOT LATERAL STOP GAPS DIFFERENCE	± 4 (31 - 3)	JII												JIII											JIV
QTY OF TURNS OF LEVELLING ROD	N/A	XII												XIII											XIV
SPRINGS OF ANTI-ROLL BAR	N/A	YII												YIII											YIV
AIR SPRING HEIGHT (EMPTY)	N/A	A'III												A'IV											A'V
AIR SPRING HEIGHT (FULL)	min 254 max 263	AIII												AIV											AV
FLOOR COVERING HEIGHT	min 1096 max 1116	EIII												EIV											EV
AIR SPRING PRESSURE	± 0.3 (Ov - C)	CIII												CIV											CV
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D5												D7											D9
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D6												D8											D10
PIVOT VERTICAL GAP	min 25 max 32	KIII												KIV											KV
PIVOT LATERAL STOP GAPS DIFFERENCE	± 4 (2V - 3)	JIII												JIV											JV
QTY OF TURNS OF LEVELLING ROD	N/A	XIII												XIV											XV
SPRINGS OF ANTI-ROLL BAR	N/A	YIII												YIV											YV

COMPARE EACH TENDRIVE WITH THE TOLERANCE AND IDENTIFY EACH MEASUREMENT BELOW		
GOOD	LOWER	HIGHER
✓	↓	↑
WEIGHT COMPENSATION		
EQUIPMENT		
WEIGHT		
EQUIPMENT		
WEIGHT		
SECONDARY MEASUREMENTS (ONLY TO CARRY)		
AUTOMATIC COUPLER HEIGHT		
ANTENNA HEIGHT		



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# SELF INSPECTION INDUSTRIAL QUALITY

Rev:09  
Date:  
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PRAGA

SI.FT1140.52

Table 1 - Reference Values and Measurement Tolerances for the Car Levelling.

ITEM	TOLERANCE VALUES											
	TOL. CAR			M4 D41			M42 D42			M43 D43		
	TR-01	TR-02	TR-03	M41	M42	M43	M42	M43	M43	M43	M43	TR-04
Pick lateral stop gap difference (mm)	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4
Air Spring height (mm)	255 <sup>+1</sup> <sub>-1</sub>	255 <sup>+1</sup> <sub>-1</sub>	255 <sup>+1</sup> <sub>-1</sub>	255 <sup>+1</sup> <sub>-1</sub>	255 <sup>+1</sup> <sub>-1</sub>	255 <sup>+1</sup> <sub>-1</sub>	255 <sup>+1</sup> <sub>-1</sub>	255 <sup>+1</sup> <sub>-1</sub>	255 <sup>+1</sup> <sub>-1</sub>	255 <sup>+1</sup> <sub>-1</sub>	255 <sup>+1</sup> <sub>-1</sub>	255 <sup>+1</sup> <sub>-1</sub>
Air spring pressure at AVO (Bar)	Fig. 4	Fig. 5	Fig. 5	Fig. 5	Fig. 5	Fig. 5	Fig. 5	Fig. 5	Fig. 5	Fig. 5	Fig. 5	Fig. 5
	3,76	2,82	2,83	2,83	2,91	3,02	3,07	2,85	2,83	2,87	2,83	3,76
	0,3 Max.	0,3 Max.	0,3 Max.	0,3 Max.	0,3 Max.	0,3 Max.	0,3 Max.	0,3 Max.	0,3 Max.	0,3 Max.	0,3 Max.	0,3 Max.
Primary Suspension gap (mm)	Fig. 6	Fig. 6	Fig. 6	Fig. 6	Fig. 6	Fig. 6	Fig. 6	Fig. 6	Fig. 6	Fig. 6	Fig. 6	Fig. 6
	35 <sup>+1</sup> <sub>-1</sub>	35 <sup>+1</sup> <sub>-1</sub>	35 <sup>+1</sup> <sub>-1</sub>	35 <sup>+1</sup> <sub>-1</sub>	35 <sup>+1</sup> <sub>-1</sub>	35 <sup>+1</sup> <sub>-1</sub>	35 <sup>+1</sup> <sub>-1</sub>	35 <sup>+1</sup> <sub>-1</sub>	35 <sup>+1</sup> <sub>-1</sub>	35 <sup>+1</sup> <sub>-1</sub>	35 <sup>+1</sup> <sub>-1</sub>	35 <sup>+1</sup> <sub>-1</sub>
	D <sub>1</sub> : D <sub>1</sub>	D <sub>2</sub> : D <sub>2</sub>	D <sub>3</sub> : D <sub>3</sub>	D <sub>4</sub> : D <sub>4</sub>	D <sub>5</sub> : D <sub>5</sub>	D <sub>6</sub> : D <sub>6</sub>	D <sub>7</sub> : D <sub>7</sub>	D <sub>8</sub> : D <sub>8</sub>	D <sub>9</sub> : D <sub>9</sub>	D <sub>10</sub> : D <sub>10</sub>	D <sub>11</sub> : D <sub>11</sub>	D <sub>12</sub> : D <sub>12</sub>
	1106 <sup>+10</sup> <sub>-10</sub>	1106 <sup>+10</sup> <sub>-10</sub>	1106 <sup>+10</sup> <sub>-10</sub>	1106 <sup>+10</sup> <sub>-10</sub>	1106 <sup>+10</sup> <sub>-10</sub>	1106 <sup>+10</sup> <sub>-10</sub>	1106 <sup>+10</sup> <sub>-10</sub>	1106 <sup>+10</sup> <sub>-10</sub>	1106 <sup>+10</sup> <sub>-10</sub>	1106 <sup>+10</sup> <sub>-10</sub>	1106 <sup>+10</sup> <sub>-10</sub>	1106 <sup>+10</sup> <sub>-10</sub>
Carbody floor height (mm)	Fig. 7	Fig. 7	Fig. 7	Fig. 7	Fig. 7	Fig. 7	Fig. 7	Fig. 7	Fig. 7	Fig. 7	Fig. 7	Fig. 7
Barrier height (mm)	850 <sup>+5</sup> <sub>-5</sub>	850 <sup>+5</sup> <sub>-5</sub>	850 <sup>+5</sup> <sub>-5</sub>	850 <sup>+5</sup> <sub>-5</sub>	850 <sup>+5</sup> <sub>-5</sub>	850 <sup>+5</sup> <sub>-5</sub>	850 <sup>+5</sup> <sub>-5</sub>	850 <sup>+5</sup> <sub>-5</sub>	850 <sup>+5</sup> <sub>-5</sub>	850 <sup>+5</sup> <sub>-5</sub>	850 <sup>+5</sup> <sub>-5</sub>	850 <sup>+5</sup> <sub>-5</sub>
Coupling End height (mm)	Fig. 8	Fig. 9	Fig. 9	Fig. 9	Fig. 9	Fig. 9	Fig. 9	Fig. 9	Fig. 9	Fig. 9	Fig. 9	Fig. 9
	895 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	895 (Ref.)
Pivot Vertical gap (mm)	Fig. 10	Fig. 10	Fig. 10	Fig. 10	Fig. 10	Fig. 10	Fig. 10	Fig. 10	Fig. 10	Fig. 10	Fig. 10	Fig. 10
	30 <sup>+10</sup> <sub>-10</sub>	30 <sup>+10</sup> <sub>-10</sub>	30 <sup>+10</sup> <sub>-10</sub>	30 <sup>+10</sup> <sub>-10</sub>	30 <sup>+10</sup> <sub>-10</sub>	30 <sup>+10</sup> <sub>-10</sub>	30 <sup>+10</sup> <sub>-10</sub>	30 <sup>+10</sup> <sub>-10</sub>	30 <sup>+10</sup> <sub>-10</sub>	30 <sup>+10</sup> <sub>-10</sub>	30 <sup>+10</sup> <sub>-10</sub>	30 <sup>+10</sup> <sub>-10</sub>

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# SELF INSPECTION INDUSTRIAL QUALITY

Rev:09

Date:

5/31/2022

Projeto:  
PRASA

SI.FT1140.52

Leveling report from Production (Final measurements after Leveling and Weighing line)

References for secondary suspension empty  
A'n Air spring height empty

References for secondary suspension full

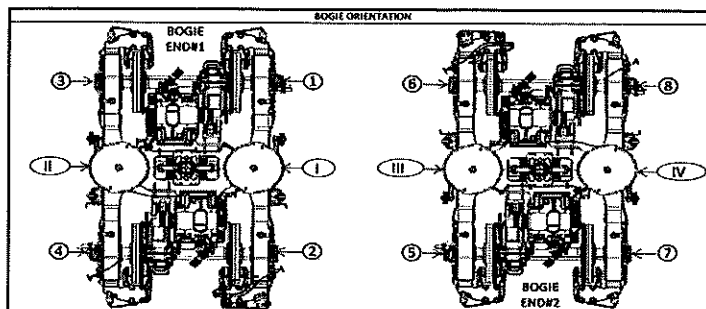
An Air spring height  
Bn Difference between measurement A'n and An  
En Floor covering height  
Cn Air spring pressure  
Dn Primary suspension  
Kn Pivot Vertical gap  
Jn Pivot Lateral stop gaps difference

Item	Reference [mm]	END#1		END#2	
		Right Side	Left Side	Left Side	Right Side
A'n	N/A	A'i 240	A'l 242	A'ii 239	A'iv 239
An	254 to 261	Ai 256	Al 258	Aii 256	Aiv 257
Bn = An - A'n	N/A	Bi 16	Bl 16	Bii 17	Biv 18
En	1108 ±10 mm	Ei 1107	El 1111	Eii 1109	Eiv 1110
Item	Reference [bar]	END#1		END#2	
		Right Side	Left Side	Left Side	Right Side
Cn	Table 02 (*)	Ci 2.71	Cl 2.65	Cii 2.74	Civ 2.71
Cn - Cn	Difference ≤ 0,3	Ci - Cl 0,06		Cii - Civ 0,03	
Gauge serial number	N/A	81B05871		81B05871	
Item	Reference [mm]	END#1		END#2	
		Right Side	Left Side	Left Side	Right Side
Dn	Table 01 (*)	Di 46.83	Dl 46.98	Dii 46.75	Div 46.87
		D2 46.43	D4 46.53	Ds 45.97	D7 46.95
Kn	25 to 45	Ki 36.21		Ks 35.45	
Jn = J1-J2+1	Difference ≤ 4	Ji 23.78	Jl 26.71	Js 24.91	Jv 25.18

(\*) Reference, only include values, isn't approval criteria.

Table 01 D Theoretical Values	TC1		M4		M1		M2		M3		TC2	
	Tdex	TBin	Mb1	Mb1	Mb1	Mb2	Mb1	Mb1	Mb1	Mb1	Tbin	Tdex
D=	35 <sup>+12</sup> <sub>-5</sub>	35 <sup>+12</sup> <sub>-5</sub>	35 <sup>+12</sup> <sub>-5</sub>	35 <sup>+12</sup> <sub>-5</sub>	35 <sup>+12</sup> <sub>-5</sub>	35 <sup>+12</sup> <sub>-5</sub>	35 <sup>+12</sup> <sub>-5</sub>	35 <sup>+12</sup> <sub>-5</sub>	35 <sup>+12</sup> <sub>-5</sub>	35 <sup>+12</sup> <sub>-5</sub>	35 <sup>+12</sup> <sub>-5</sub>	35 <sup>+12</sup> <sub>-5</sub>

Table 02 C Theoretical Values	TC1		M4		M1		M2		M3		TC2	
	Tdex	TBin	Mb1	Mb1	Mb1	Mb2	Mb1	Mb1	Mb1	Mb1	Tbin	Tdex
C=	3.78	2.82	2.87	2.83	3.02	2.91	3.07	2.85	2.83	2.87	2.83	3.78



Weighing report from Test and Commissioning (Final measurements after Leveling and Weighing line)

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Gibela Rail Transport Consortium RF (Pty)  
Ltd  
2 Shosholozu Avenue  
Dunmottar XT  
Ekurhuleni, 1590, South Africa  
Reception: +27 (0)10 600 0651

TRAIN SET 209	REF: GIB0000001672 JO PRASA WEIGHT BALANCE EN
	PC09 WEIGHING REPORT

M3	Balance across front and rear bogies	Front Bogie [Tons]	Rear Bogie [Tons]	Longitudinal Imbalance [%]	Criteria Longitudinal Imbalance ≤ 3%
		17.89	17.90	0.03%	PASS
	Weight Measured vs Predicted	Weight Measured [Tons]	Weight Predicted [Tons]	Weight Difference [%]	Tolerance [%]
		35.79	35.90	0.31%	1.35% Criteria (mins Diff) Max PASS

Test Participants			
Name	Company	Department	Date
FL1118	GIBELA	EOC	23/02/2024