

ON – SITE CALIBRATION CERTIFICATE

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 The results relate only to the items calibrated.

Calibrated for: WOW Scales (Pty) Ltd

Certificate No. CM/25/181B

Address: c/o Vlei & John Mitten Street
 Douglas Valley Small Holdings
 Deaglesgift
 Bloemfontein

Calibration Date: 2025-06-25 & 26
 Date of Issue: 2025-07-04
 Date of Expiry: 2026-06-26
 Page 1 of 12

Contact details: Jurien Smits 051 432 9552 (WOW Scales).

<u>Calibration of:</u>	175 x 20 kg Masspieces	2 x 10 kg Masspieces
	12 x 5 kg Masspieces	12 x 2 kg Masspieces
	7 x 1 kg Masspieces	9 x 500 g Masspieces
	2 x 200 g Masspieces	1 x Set Masspieces W1 (2 kg - 1 g)
	1 x Set Masspieces W2 (10 kg - 1 g)	1 x Set Masspieces W3 (10 kg - 1 g)
	1 x Set Masspieces W4 (5 kg - 1 g)	1 x Set Masspieces W5 (10 kg - 1 g)
	1 x Set Masspieces W6 (2 kg - 1 g)	1 x Set Masspieces W7 (10 kg - 1 g)
	1 x Set Masspieces W8 (10 kg - 1 g)	1 x Set Masspieces W9 (10 kg - 1 g)

Procedure: The masspieces were calibrated against standards of known value, traceable to the national and international standard, in accordance with procedures QP/CM/01, 02 & 03.

Traceability: Set No: CM 2

Calibration Cert No. CM/25/CM 2

Dated: February 2025

Set No: CM 1F

Calibration Cert No. CM/25/CM 1F

Due Date: February 2026

Dated: April 2025

Due Date: April 2026

Equipment: 33 kg Vibra Balance
 6,2 kg Vibra Balance
 220 g Vibra Balance

Serial No. CMB 9

Serial No. CMB 2

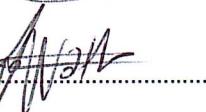
Serial No. CMB 1A

Serial Number	Nominal Value g	Actual Value g		Uncertainty of Measurement ± g
		Before Adjustment	After Adjustment	
WFS 1	20 000	-	20 001,0	0,5
WFS 2	20 000	-	20 000,7	0,5
WFS 3	20 000	-	20 001,2	0,5
WFS 4	20 000	-	20 000,6	0,5
WFS 5	20 000	-	20 001,1	0,5
WFS 6	20 000	-	20 001,0	0,5

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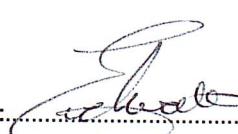
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Checked By: M Van Der Watt

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Serial Number	Nominal Value g	Actual Value g		Uncertainty of Measurement ± g
		Before Adjustment	After Adjustment	
WFS 7	20 000	-	20 000,1	0,5
WFS 8	20 000	-	20 000,3	0,5
WFS 9	20 000	-	20 000,3	0,5
WFS 10	20 000	-	20 001,0	0,5
WFS 11	20 000	-	20 000,0	0,5
WFS 12	20 000	-	20 001,3	0,5
WFS 13	20 000	-	20 000,1	0,5
WFS 14	20 000	-	20 001,1	0,5
WFS 15	20 000	-	20 001,3	0,5
WFS 16	20 000	-	20 001,3	0,5
WFS 17	20 000	-	20 000,0	0,5
WFS 18	20 000	-	20 000,7	0,5
WFS 19	20 000	-	20 000,9	0,5
WFS 20	20 000	-	20 000,6	0,5
WFS 21	20 000	-	20 000,6	0,5
WFS 22	20 000	-	20 001,1	0,5
WFS 23	20 000	-	20 000,6	0,5
WFS 24	20 000	-	20 000,7	0,5
WFS 25	20 000	-	20 000,4	0,5
WFS 26	20 000	-	20 000,8	0,5
WFS 27	20 000	-	20 000,1	0,5
WFS 28	20 000	-	20 001,4	0,5
WFS 29	20 000	-	20 001,3	0,5
WFS 30	20 000	-	20 000,8	0,5
WFS 31	20 000	-	20 001,4	0,5
WFS 32	20 000	-	20 000,5	0,5
WFS 33	20 000	-	20 001,2	0,5
WFS 34	20 000	-	20 000,2	0,5
WFS 35	20 000	-	20 000,6	0,5
WFS 36	20 000	-	19 999,9	0,5
WFS 37	20 000	-	20 001,1	0,5
WFS 38	20 000	-	20 000,4	0,5
WFS 39	20 000	-	20 000,5	0,5
WFS 40	20 000	-	20 001,2	0,5
WFS 41	20 000	-	20 001,5	0,5
WFS 42	20 000	-	20 000,4	0,5
WFS 43	20 000	-	20 000,8	0,5
WFS 44	20 000	-	20 001,3	0,5
WFS 45	20 000	-	20 000,9	0,5

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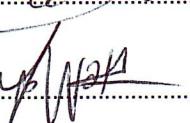
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		Before Adjustment	After Adjustment	
WFS 84	20 000	-	20 001,0	0,5
WFS 85	20 000	-	20 000,4	0,5
WFS 86	20 000	-	20 000,1	0,5
WFS 87	20 000	-	20 000,0	0,5
WFS 88	20 000	-	20 001,0	0,5
WFS 89	20 000	-	20 000,7	0,5
WFS 90	20 000	-	20 000,5	0,5
WFS 91	20 000	-	20 001,0	0,5
WFS 92	20 000	-	20 000,6	0,5
WFS 93	20 000	-	20 001,4	0,5
WFS 94	20 000	-	20 001,4	0,5
WFS 95	20 000	-	20 000,7	0,5
WFS 96	20 000	-	20 001,3	0,5
WFS 97	20 000	-	20 000,7	0,5
WFS 98	20 000	-	20 001,1	0,5
WFS 99	20 000	-	20 000,6	0,5
WFS 100	20 000	-	20 001,2	0,5
WFS 101	20 000	-	20 000,6	0,5
WFS 102	20 000	-	20 001,1	0,5
WFS 103	20 000	-	20 000,3	0,5
WFS 104	20 000	-	20 000,7	0,5
WFS 105	20 000	-	20 000,8	0,5
WFS 106	20 000	-	20 000,3	0,5
WFS 107	20 000	-	20 000,7	0,5
WFS 108	20 000	-	20 000,7	0,5
WFS 109	20 000	-	20 001,3	0,5
WFS 110	20 000	-	19 999,9	0,5
WFS 111	20 000	-	20 000,4	0,5
WFS 112	20 000	-	20 001,2	0,5

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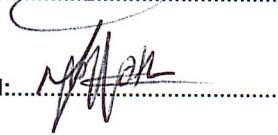
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		Before Adjustment	After Adjustment	
WFS 46	20 000	-	20 000,3	0,5
WFS 47	20 000	-	20 001,0	0,5
WFS 48	20 000	-	20 001,4	0,5
WFS 49	20 000	-	20 001,2	0,5
WFS 50	20 000	-	20 001,5	0,5
WFS 51	20 000	-	20 001,5	0,5
WFS 52	20 000	-	20 000,6	0,5
WFS 53	20 000	-	20 000,1	0,5
WFS 54	20 000	-	20 001,2	0,5
WFS 55	20 000	-	19 999,9	0,5
WFS 56	20 000	-	20 001,5	0,5
WFS 57	20 000	-	20 000,8	0,5
WFS 58	20 000	-	20 001,5	0,5
WFS 59	20 000	-	20 000,2	0,5
WFS 60	20 000	-	20 000,4	0,5
WFS 61	20 000	-	20 000,5	0,5
WFS 62	20 000	-	20 001,0	0,5
WFS 63	20 000	-	20 001,3	0,5
WFS 64	20 000	-	20 000,1	0,5
WFS 65	20 000	-	20 001,0	0,5
WFS 66	20 000	-	20 001,2	0,5
WFS 67	20 000	-	20 000,0	0,5
WFS 68	20 000	-	20 000,3	0,5
WFS 69	20 000	-	20 001,2	0,5
WFS 70	20 000	-	20 000,0	0,5
WFS 71	20 000	-	20 000,8	0,5
WFS 72	20 000	-	20 000,7	0,5
WFS 73	20 000	-	20 000,1	0,5
WFS 74	20 000	-	20 000,8	0,5
WFS 75	20 000	-	20 001,5	0,5
WFS 76	20 000	-	20 000,9	0,5
WFS 77	20 000	-	20 001,0	0,5
WFS 78	20 000	-	20 000,0	0,5
WFS 79	20 000	-	20 001,5	0,5
WFS 80	20 000	-	20 000,8	0,5
WFS 81	20 000	-	20 000,3	0,5
WFS 82	20 000	-	20 000,5	0,5
WFS 83	20 000	-	20 000,0	0,5

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Serial Number	Nominal Value g	Actual Value g		Uncertainty of Measurement ± g
		Before Adjustment	After Adjustment	
WFS 113	20 000	-	20 000,5	0,5
WFS 114	20 000	-	20 001,4	0,5
WFS 115	20 000	-	20 000,3	0,5
WFS 116	20 000	-	20 001,5	0,5
WFS 117	20 000	-	20 000,8	0,5
WFS 118	20 000	-	20 001,0	0,5
WFS 119	20 000	-	20 000,5	0,5
WFS 120	20 000	-	20 000,2	0,5
WFS 121	20 000	-	20 000,8	0,5
WFS 122	20 000	-	20 000,6	0,5
WFS 123	20 000	-	20 000,4	0,5
WFS 124	20 000	-	20 000,2	0,5
WFS 125	20 000	-	20 000,8	0,5
WFS 126	20 000	-	20 000,0	0,5
WFS 127	20 000	-	20 000,8	0,5
WFS 128	20 000	-	20 001,5	0,5
WFS 129	20 000	-	20 000,7	0,5
WFS 130	20 000	-	20 001,0	0,5
WFS 131	20 000	-	20 000,0	0,5
WFS 132	20 000	-	20 000,7	0,5
WFS 133	20 000	-	20 000,8	0,5
WFS 134	20 000	-	20 000,7	0,5
WFS 135	20 000	-	20 001,1	0,5
WFS 136	20 000	-	20 001,4	0,5
WFS 137	20 000	-	20 000,9	0,5
WFS 138	20 000	-	20 001,1	0,5
WFS 139	20 000	-	20 000,3	0,5
WFS 140	20 000	-	20 001,1	0,5
WFS 141	20 000	-	20 001,5	0,5
WFS 142	20 000	-	20 000,0	0,5
WFS 143	20 000	-	20 001,2	0,5
WFS 144	20 000	-	20 000,9	0,5
WFS 145	20 000	-	20 001,1	0,5
WFS 146	20 000	-	20 001,3	0,5
WFS 147	20 000	-	20 001,4	0,5
WFS 148	20 000	-	20 001,0	0,5
WFS 149	20 000	-	20 001,1	0,5
WFS 150	20 000	-	20 001,1	0,5

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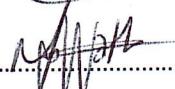
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Serial Number	Nominal Value g	Actual Value g		Uncertainty of Measurement ± g
		Before Adjustment	After Adjustment	
WFS 151	20 000	-	20 000,8	0,5
WFS 152	20 000	-	20 001,5	0,5
WFS 153	20 000	-	20 000,5	0,5
WFS 154	20 000	-	20 001,4	0,5
WFS 155	20 000	-	20 000,8	0,5
WFS 156	20 000	-	20 001,1	0,5
WFS 157	20 000	-	20 000,8	0,5
WFS 158	20 000	-	20 001,3	0,5
WFS 159	20 000	-	20 000,2	0,5
WFS 160	20 000	-	20 000,8	0,5
WFS 186	20 000	-	20 001,5	0,5
WFS 187	20 000	-	20 001,4	0,5
WFS 188	20 000	-	20 001,2	0,5
WFS 189	20 000	-	20 001,5	0,5
WFS 190	20 000	-	20 000,7	0,5
WFS 191	20 000	-	20 001,3	0,5
WFS 192	20 000	-	20 000,6	0,5
WFS 193	20 000	-	20 001,0	0,5
WFS 194	20 000	-	20 000,9	0,5
WFS 195	20 000	-	20 001,0	0,5
WFS 196	20 000	-	20 001,5	0,5
WFS 197	20 000	-	20 001,1	0,5
WFS 198	20 000	-	20 000,6	0,5
WFS 199	20 000	-	20 000,9	0,5
WFS 200	20 000	-	20 000,5	0,5
WOW 1	10 000	-	10 000,4	0,3
WOW 2	10 000	-	10 000,2	0,3
W1.1	5 000	-	5 000,33	0,08
W1.2	5 000	-	5 000,24	0,08
W1.3	5 000	-	5 000,14	0,08
W1.4	5 000	-	5 000,17	0,08
W1.5	5 000	-	5 000,20	0,08
W1.6	5 000	-	5 000,32	0,08
W1.7	5 000	-	5 000,03	0,08

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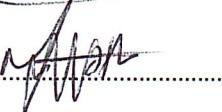
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Serial Number	Nominal Value g	Actual Value g		Uncertainty of Measurement ± g
		Before Adjustment	After Adjustment	
W1.8	5 000	-	5 000,18	0,08
W1.9	5 000	-	5 000,17	0,08
W1.10	5 000	-	5 000,18	0,08
W1.11	5 000	-	5 000,22	0,08
W1.12	5 000	-	5 000,14	0,08
W1.1	2 000	-	2 000,10	0,05
W1.2	2 000	-	2 000,07	0,05
W1.3	2 000	-	2 000,10	0,05
W1.4	2 000	-	2 000,13	0,05
W1.5	2 000	-	2 000,05	0,05
W1.6	2 000	-	2 000,09	0,05
W1.7	2 000	-	2 000,08	0,05
W1.8	2 000	-	2 000,06	0,05
W1.9	2 000	-	2 000,06	0,05
W1.10	2 000	-	2 000,15	0,05
W1.11	2 000	-	2 000,13	0,05
W1.12	2 000	-	2 000,06	0,05
W1.1	1 000	-	1 000,03	0,03
W1.2	1 000	-	1 000,05	0,03
W1.3	1 000	-	1 000,01	0,03
W1.4	1 000	-	1 000,00	0,03
W1.5	1 000	-	1 000,02	0,03
W1.6	1 000	-	999,99	0,03
W1.7	1 000	-	1 000,02	0,03
W1.1	500	-	500,02	0,02
W1.2	500	-	500,02	0,02
W1.3	500	-	500,00	0,02
W1.4	500	-	500,02	0,02
W1.5	500	-	500,03	0,02
W1.6	500	-	500,02	0,02
W1.7	500	-	500,02	0,02
W1.8	500	-	500,01	0,02
W1.9	500	-	500,03	0,02
W1.1	200	-	200,0105	0,0009
W1.2	200	-	200,0170	0,0009

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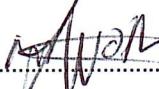
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Serial Number	Nominal Value g	Actual Value g		Uncertainty of Measurement ± g
		Before Adjustment	After Adjustment	
Set No: W 1	2 000	1 999,98	2 000,04	0,05
	2 000 •	1 999,97	2 000,01	0,05
	1 000	1 000,03	-	0,03
	500	500,02	-	0,02
	200	200,0003	-	0,0009
	200 •	200,0013	-	0,0009
	100	99,9998	-	0,0007
	50	49,9987	-	0,0005
	20	20,0000	-	0,0005
	20 •	20,0003	-	0,0005
	10	10,0000	-	0,0005
	5	5,0003	-	0,0005
	2	2,0001	-	0,0004
	1	1,0002	-	0,0004
Set No. W 2	10 000	9 999,7	10 000,0	0,3
	5 000	5 000,03	-	0,08
	2 000	2 000,04	-	0,05
	2 000 •	2 000,07	-	0,05
	1 000	1 000,00	-	0,03
	500	500,00	-	0,02
	200	199,9930	-	0,0009
	200 •	200,0066	-	0,0009
	100	100,0047	-	0,0007
	50	50,0001	-	0,0005
	20	20,0002	-	0,0005
	20 •	20,0005	-	0,0005
	10	10,0002	-	0,0005
	5	5,0000	-	0,0005
	2	2,0000	-	0,0004
	2 •	1,9999	-	0,0004
	1	1,0000	-	0,0004

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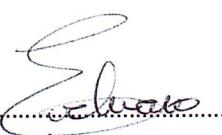
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Checked By: M Van Der Watt

Signed:..... 

Serial Number	Nominal Value g	Actual Value g		Uncertainty of Measurement ± g
		Before Adjustment	After Adjustment	
Set No. W 3	10 000	9 999,7	10 000,2	0,3
	5 000	5 000,09	-	0,08
	2 000	2 000,05	-	0,05
	2 000 •	2 000,03	-	0,05
	1 000	999,98	1 000,03	0,03
	500	500,00	-	0,02
	200	200,0011	-	0,0009
	200 •	199,9981	-	0,0009
	100	100,0003	-	0,0007
	50	50,0005	-	0,0005
	20 •	20,0006	-	0,0005
	20 • •	20,0006	-	0,0005
	10	10,0002	-	0,0005
	5	5,0001	-	0,0005
	2	2,0003	-	0,0004
	2 •	2,0002	-	0,0004
	1	1,0002	-	0,0004
Set No. W 4	5 000	4 999,88	5 000,36	0,08
	2 000	1 999,86	2 000,06	0,05
	2 000 •	1 999,98	2 000,07	0,05
	1 000	1 000,01	-	0,03
	500	500,00	-	0,02
	200	199,9913	-	0,0009
	200 •	199,9958	-	0,0009
	100	99,9971	-	0,0007
	50	50,0004	-	0,0005
	20	20,0003	-	0,0005
	20 •	20,0005	-	0,0005
	10	10,0004	-	0,0005
	5	4,9996	-	0,0005
	2	2,0001	-	0,0004
	2 •	2,0004	-	0,0004
	1	1,0003	-	0,0004

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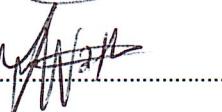
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Serial Number	Nominal Value g	Actual Value g		Uncertainty of Measurement ± g
		Before Adjustment	After Adjustment	
Set No. W 5	10 000	10 000,0	-	0,3
	5 000	4 999,99	5 000,01	0,08
	2 000	1 999,99	-	0,05
	2 000 •	1 999,99	-	0,05
	1 000	999,99	-	0,03
	500	500,01	-	0,02
	200	200,0014	-	0,0009
	200 •	200,0023	-	0,0009
	100	99,9997	-	0,0007
	50	49,9975	50,0000	0,0005
	20	20,0008	-	0,0005
	20 •	20,0005	-	0,0005
	10	9,9999	-	0,0005
	5	5,0001	-	0,0005
	2	2,0000	-	0,0004
	2 •	2,0001	-	0,0004
	1	0,9997	-	0,0004
Set No. W 6	2 000	1 999,95	2 000,03	0,05
	2 000 •	1 999,98	2 000,03	0,05
	1 000	1 000,01	-	0,03
	500	500,00	-	0,02
	200	200,0010	-	0,0009
	200 •	200,0007	-	0,0009
	100	100,0002	-	0,0007
	50	50,0007	-	0,0005
	20	20,0002	-	0,0005
	20 •	20,0002	-	0,0005
	10	9,9999	-	0,0005
	5	5,0005	-	0,0005
	2	2,0001	-	0,0004
	2 •	2,0001	-	0,0004
	1	1,0002	-	0,0004

Calibrated By: E Van Der Watt
Technical Signatory

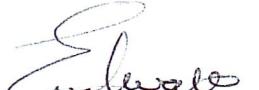
Signed: 

Checked By: M Van Der Watt

Signed: 

Serial Number	Nominal Value g	Actual Value g		Uncertainty of Measurement ± g
		Before Adjustment	After Adjustment	
Set No. W 7	10 000	10 000,0	-	0,3
	5 000	5 000,01	-	0,08
	2 000	1 999,98	2 000,02	0,05
	2 000 •	1 999,99	-	0,05
	1 000	999,99	-	0,03
	500	500,00	-	0,02
	200	200,0022	-	0,0009
	200 •	200,0022	-	0,0009
	100	99,9996	-	0,0007
	50	50,0005	-	0,0005
	20	20,0001	-	0,0005
	20 •	20,0002	-	0,0005
	10	9,9997	-	0,0005
	5	4,9998	-	0,0005
	2	2,0001	-	0,0004
	2 •	1,9998	-	0,0004
	1	1,0001	-	0,0004
Set No. W 8	10 000	10 000,0	-	0,3
	5 000	5 000,00	-	0,08
	2 000	1 999,97	2 000,00	0,05
	2 000 •	1 999,99	-	0,05
	1 000	999,99	-	0,03
	500	500,00	-	0,02
	200	200,0028	-	0,0009
	200 •	199,9996	-	0,0009
	100	100,0016	-	0,0007
	50	50,0004	-	0,0005
	20	20,0007	-	0,0005
	20 •	20,0002	-	0,0005
	10	9,9998	-	0,0005
	5	5,0003	-	0,0005
	2	2,0004	-	0,0004
	2 •	2,0010	-	0,0004
	1	1,0002	-	0,0004

Calibrated By: E Van Der Watt
Technical Signatory

Signed: 

Checked By: M Van Der Watt

Signed: 

Serial Number	Nominal Value g	Actual Value g		Uncertainty of Measurement ± g
		Before Adjustment	After Adjustment	
Set No. W 9	10 000	10 000,0	-	0,3
	5 000	5 000,04	-	0,08
	2 000	2 000,00	-	0,05
	2 000 •	2 000,00	-	0,05
	1 000	1 000,00	-	0,03
	500	499,99	500,00	0,02
	200	199,9981	-	0,0009
	200 •	200,0012	-	0,0009
	100	100,0014	-	0,0007
	50	50,0004	-	0,0005
	20 • •	20,0005	-	0,0005
	20 •	20,0008	-	0,0005
	10	9,9997	-	0,0005
	5	4,9997	-	0,0005
	2	2,0002	-	0,0004
	2 •	2,0001	-	0,0004
	1	1,0005	-	0,0004

- Note: All masspieces without before readings recorded were cleaned and painted before calibration.

Conditions: Average Ambient Temperature 14,5 °C – CMT 4 – Cert No. 16053 November 2022.

Compliance Statement: All masspieces comply with clause 3.2.1 Table 1 of SANS 1697:2007.

Uncertainty: "The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with the principles defined in the GUM, Guide to Uncertainty of Measurement, ISO, Geneva".

Validity: The values in this certificate are correct at the time of calibration. Subsequently the accuracy will depend on such factors as the care exercised in the handling and use of the instrument as well as the frequency of use. Re-calibration should be performed after the period, which has been chosen to ensure that the instruments remain within the desired limits.

Calibrated By: E Van Der Watt
Technical Signatory

Signed: 

Checked By: M Van Der Watt

Signed: 

End of Certificate