

***National Type Evaluation Program  
Certificate of Conformance  
for Weighing and Measuring Devices***

**For:**

Weighing/Load Receiving Element; Bulk Weighing  
Model: CWC Series  
Capacity: 500 lb to 30 000 lb  
 $n_{\max}$ : See Table on Page 2  
 $e_{\min}$ : See Table on Page 2

Accuracy Class III

**Submitted by:**

CompuWeigh Corporation  
150 Commerce Court  
Cheshire, CT 06410  
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Contact: Hal Ecke

**Standard Features and Options**

Temperature Range: -10 °C to 40 °C (14 °F to 104 °F)

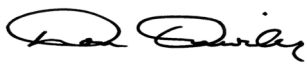
Primary weight indications, motion detection and bulk weighing requirements are provided by the compatible and certified controller.

**Controller:** CompuWeigh Corporation, Model DWC-300 (Certificate of Conformance Number 00-007)  
CompuWeigh Corporation, Model CD-4000 (Certificate of Conformance Number 01-041)

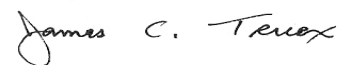
**Weighing Element/Hopper Scale:** Mild steel construction three load cell design. Capacity and dimension (see page 2)

**Load Cells:** Flintec, Inc., Model SLB (Certificate of Conformance Number 97-061A1);  
Artech Industries, Model 202 (Certificate of Conformance Number 78-057A3);  
Or other NTEP Certified and compatible load cells.

This device was evaluated under the National Type Evaluation Program (NTEP) and was found to comply with the applicable technical requirements of Handbook 44, "Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.



Don Onwiler  
Chairman, NCWM, Inc.



James C. Truex  
Chairman, National Type Evaluation Program Committee  
Issued Date: February 8, 2006

Note: The National Conference on Weights and Measures does not "approve", "recommend", or "endorse" any proprietary product or material, either as a single item or as a class or group. Results shall not be used in advertising or sales promotion to indicate explicit or implicit endorsement of the product or material by the NCWM.

**CompuWeigh Corporation**  
**Bulk Weighing System/Weighing Element**  
**Model: CWC Series**

**Application:** General purpose weighing element that may be used for bulk weighing applications when interfaced with a compatible and NTEP certified controller.

**Identification:** The required information is on a plate riveted to the side of the device.

**Sealing:** The junction box has no provisions for sealing. The parameters are adjusted and sealed at the indicator.

Model	Capacity (lb)	e <sub>min</sub>	n <sub>max</sub>	Working Volume (cu ft)	Width (inches) “S”	Diameter (inches) “R”	Cross Section (sq ft)	Height (inches)	Max Dist between Load Cells (inches)
CWC-10	500	0.2	2 500	10.4	30	34	6.3	30	33
CWC-15	750	0.2	3 750	15.6	36	41	9	26	40
CWC-20	1 000	0.2	5 000	20.8	36	41	9	38	40
CWC-30*	1 200	0.2	6 000	25.0	60	60	22.3	35	59
CWC-40	1 500	0.5	3 000	31.3	60	60	22.3	39	59
CWC-046	2 000	1	2 000	42	56	64	22	40	65
CWC-056	3 000	1	3 000	63	56	64	22	50	65
CWC-076	4 000	1	4 000	83	56	64	22	61	65
CWC-108*	5 000	1	5 000	104	80	90	45	49	92
CWC-158	6 000	2	3 000	125	80	90	45	53	92
CWC-208	10 000	5	2 000	210	80	90	45	77	92
CWC-310	15 000	5	3 000	315	104	117	75	79	110
CWC-410	20 000	5	4 000	420	104	117	75	93	110
CWC-510	25 000	5	5 000	520	104	117	75	108	110
CWC-512*	25 000	5	5 000	520	128	144	114	88	134
CWC-612	30 000	10	3 000	625	128	144	114	97	134

\* Models tested

“S” Designates square construction and “R” designates a round construction hopper scale design.

**CompuWeigh Corporation**  
**Bulk Weighing System/Weighing Element**  
**Model: CWC Series**

**Test Condition:** This certificate supersedes NTEP Certificate of Conformance 02-059A1 and is issued to include additional capacities. The Model CWC-108S was submitted and was interfaced with a CompuWeigh Corporation controller, Model DWC-400. The emphasis of the evaluation was on the design and performance of the receiving/weighing element. The CompuWeigh Corporation controller, Model DWC-400 (NTEP CC 02-090A1) allowed it to function as a bulk weighing system. Several increasing/decreasing load, discrimination, and return to zero tests were conducted using 1 500 lbs of known test weights. A build up test was conducted by raising and lowering test weights. The weigh hopper can be filled and emptied by opening and closing the upper garner and weigh hopper gates. Weight values can be printed any time during a test. The device was used until the minimum number of load requirements were met. A permanence test was conducted consisting of several increasing/decreasing load, discrimination, and return to zero tests. Previous test conditions are below for reference.

**Certificate of Conformance 02-059A1:** This certificate supersedes NTEP Certificate of Conformance 02-059 and is issued to include additional capacities. The Model CWC-30S was submitted for evaluation. The emphasis of the evaluation was on device design, marking, and the hopper scale performance and operation including interaction with a bulk weighing system controller. The hopper scale was tested interfaced to a CompuWeigh Corporation, Model DWC-300 controller (Certificate of Conformance Number 00-007) and a GSE-460 indicating element (Certificate of Conformance Number 01-031). Several increasing/decreasing load tests were conducted using 1 200 lbs of certified weights. Additionally, discrimination and “return to no-load” tests were conducted. The device was retested in the same manner 30 days later after more than 300 weighments. Previous test conditions are below for reference.

**Certificate of Conformance 02-059:** The Model CWC-512R was interfaced with a CompuWeigh Corporation controller, Model CD-4000. The emphasis of the evaluation was on the design and performance of the receiving/weighing element. The GSE indicator (Certificate of Conformance Number 01-031) and the CompuWeigh Corporation controller, Model CD-4000 (Certificate of Conformance Number 01-041) allowed it to function as a bulk weighing system. Several increasing/decreasing load, discrimination, and return to zero tests were conducted using 6 600 lbs of known test weights. A build up test was conducted by raising and lowering test weights. The weigh hopper can be filled and emptied by opening and closing the upper garner and weigh hopper gates. Weight values can be printed any time during a test. A permanence test was conducted consisting of several increasing/decreasing load, discrimination, and return to zero tests. The results of all tests were within acceptance tolerances.

**Evaluated By:** Charles Stutsman (KS) 02-059; S. Boyd (CA), 02-059A1; Terry Davis (KS) 02-059A2

**Type Evaluation Criteria Used:** NIST Handbook 44, 2005 Edition, NCWM Publication 14, 2005 Edition

**Conclusion:** The results of the evaluations and information provided by the manufacturer indicate the devices comply with applicable requirements.

**Information Reviewed By:** S. Patoray (NCWM), L. Bernetich (NCWM) 02-059, 02-059A1, 02-059A2