



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Floor Scale Weighing Element
Load Cell Electronic
Model: HIFS-(AA)AAAA-BB-CC-D
 $n_{\max}$: 5000
 $e_{\min}$: 0.1
Capacity: 1000 lb to 20 000 lb
Platform: 24 in x 24 in to 120 in x 96 in

Accuracy Class: III or III L

***Submitted By: Contact Info. Updated November 2024**

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Standard Features and Options**Model:**

-(AA)AAAA: (LD) = Lift Deck as applicable, (DS) = Drum Scale as Applicable.
Followed by 4 digit Platform length and width in inches

-BB: Capacity Identifier: 01 to 20 = 1,000 to 20,000lb

-CC: Material Identifier: SS = Stainless, PS = Painted

-D: Top Surface Identifier: S = Smooth, T = Tread

Load cells used: (4) Flintec Model SB14 (Certificate of Conformance Number 98-145)

Optional: Ramps, Bump Ramps, Pit Frames, Protective Frame, Locating Plates, Deck Opening, Riser Frame Under Scale, Portability Frame, Racking/Gates, Handrail, Indicator Stand.

Weighing load receiving element may be used with other NTEP certified and compatible Load Cells and/or Indicating elements.

This device was evaluated under the National Type Evaluation Program 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. *Editorial changes, not affecting the type or metrological content, corrected this certificate.

Ivan Hankins
Chair, NCWM, Inc.

Hal Prince
Chair, NTEP Committee
Issued: March 7, 2022

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**Hardy Process Solutions**

Floor Scale Weighing Element / HIFS-(AA)AAAA-BB-CC-D

Application: General purpose weighing as a floor scale

Identification: The required markings are located on a self-adhesive foil label where the word “VOID” is repeated when an attempt is made to remove the label.

Sealing: A wire security seal can be threaded through two screws that secure the access cover of the junction box. The junction box contains individual cell adjustments. The junction box may be located on the side of the weighing element, under an access cover on the top of the scale, or on a wall near the scale.

Test Conditions: This certificate is issued based upon the following tests and upon information provided by the manufacturer. The emphasis of the evaluation was on the device design, marking, and performance.

A 1000 lb x 0.2 lb drum scale was interfaced with a B-Tek T403S indicating element (Certificate of Conformance Number 16-111) and used four Flintec Model SB14-X-Y series, 5000 division load cells (Certificate of Conformance Number 98-145). The scale was tested at class III acceptance tolerance using certified test weights to perform multiple increase/decrease, corner, and quadrant tests. The scale was sealed and used until the 20-day minimum time and use requirements had been met. At the conclusion of permanence testing multiple increase/decrease, corner and quadrant tests were repeated.

A 10 000 x 2 lb weighing element was evaluated at a field installation site. Scales were tested as floor scales using Class III acceptance tolerances. The scales were tested using known test weights to perform increasing / decreasing load and shift tests. The scale was sealed and used until the 20-day minimum time and use requirements had been met. The increasing/decreasing load tests and shift tests were repeated.

A 5000-lb weighing element was evaluated at a field installation site. The scale was tested initially by placing 1250 lb over each main load support and 2500 lb in the center of each quarter of the load receiving element. Several increasing/decreasing load tests were performed using 5000 lb of known test weights. Similar tests were repeated after 30 days of use, with the minimum use criteria required by NTEP being met.

A 20 000-lb weighing element was also evaluated at a field installation site. The scale was tested initially by placing 5000 lb over each main load support and 10 000 lb in the center of each quarter of the load receiving element. Several increasing/decreasing load tests were performed using 20 000 lb of known test weights. Similar increasing/decreasing load and shift tests were repeated after 30 days of use.

The results of these evaluations indicate the device complies with the applicable requirements.

Evaluated By: B. Badenhop (OH); J. Truex (OH); M. Kelley, J. Gibson (OH),

Type Evaluation Criteria Used: *Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2019 Edition. *NCWM Publication 14: Weighing Devices*, 2019 Edition.

Conclusion: The results of the evaluation and information provided by the manufacturer indicate the device complies with applicable requirements.

Information Reviewed By: D. Flocken (NCWM)

Example(s) of Device:

