



NATIONAL TYPE EVALUATION PROGRAM

# Certificate of Conformance

for Weighing and Measuring Devices

**For:**

Weighing Element  
Used with Hopper Scale Load Receiving Element  
Load Cell Electronic  
Models: Listed below  
Capacities: Listed below  
 $n_{max}$ : 4 000  
 $e_{min}$ : 5 lb  
  
Accuracy Class: III L

**\*Submitted By: Contact Info. Updated November 2018**

Scale Designs  
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### Standard Features and Options

**Construction:**

- Stainless Steel
- Four (4) load support design

Models	Capacities
RobyFS 5T	10 000 lb x 5 lb
RobyFS 6T	12 000 lb x 5 lb
RobyFS 8T	16 000 lb x 5 lb
RobyFS 10T	20 000 lb x 5 lb
RobyFS 12T	24 000 lb x 5 lb

**Load Cells:**

(4) Artech single ended shear beam, Model M-SS30310, NTEP CC 92-032 or NTEP certified and metrologically equivalent load cell.


**Hopper Scale tested:**

- Length: 12-ft.
- Width: 7-ft.
- Height: 8.5-ft.

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

This device was evaluated under the National Type Evaluation Program and was found to comply with the applicable technical requirements of "NIST 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.

  
Brett Gurney  
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Issued: February 21, 2006

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## Scale Designs

### Hopper Scale Weighing Element / Roby Series

**Application:** Weighing element designed for use with an existing hopper scale load-receiving element. The primary use of this weighing element is in the fertilizer industry and can be used for general purpose weighing when connected to an NTEP Certified Indicating Element.

**Identification:** The required information is on an affixed a metal badge mounted on the main frame of the weighing element.

**Sealing:** The junction box can be sealed with a wire security seal, through screws with holes.

**Test Conditions:** The emphasis of the evaluation was on design, operation and performance of the weighing element. For this evaluation a RobyFS 10T 20 000 lb hopper scale was interfaced with a GSE Model 350 indicating element (NTEP CC 98-092A3). Several increasing/decreasing tests were performed using 20 000 lb of known test weights to the capacity of the element submitted. The scale was used for the required time, with the minimum use criteria being met, then tested again. The increasing/decreasing load tests were repeated using 20 000 lb of known test weights.

**Evaluated By:** T. L. Davis (KS)

**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)

#### **Example of Device:**

