

State of California
Department of Food and Agriculture
Division of Measurement Standards

Certificate Number: 5570(a)-08
Page 1 of 2

California Type Evaluation Program
Certificate of Approval
For Measuring and Weighing Devices

For:
Hopper Scale Weighing/Load Receiving Element
Load Cell Electronic
Models: A, B
 n_{max} : See tables below
 e_{min} : See tables below

Accuracy Class: III L

Submitted by:
Pioneer Scale Co., Inc.
P.O. Box 1373
Chico, CA 95927
Tel: (530) 892-1835
Fax: (530) 892-1835
Contact: Ron Johnston

Standard Features and Options

Primary weight indications and motion detection are provided by an approved and compatible weight indicator.

Hopper construction: Mild steel

Model	n_{max}	E_{min}	Capacity (lb)	Dimensions (inches)	Load Cells	Shape
A	2050	20 lb	41 000	108 x 96 at top 112 high at front 132 high at rear	Four (4) COTI Model CISB NTEP CC 03-041	Rectangular top down to tapering beveled bottom
B	1640	5 lb	8 200	74 x 85 at top 60 high 14 diam. at bottom	Four (4) COTI Model CISB NTEP CC 03-041	Rectangular top tapering down to round bottom

This device was evaluated under the California Type Evaluation Program (CTEP) and was found to comply with the applicable requirements of California Code of Regulations for "Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.



Effective Date: December 17, 2008

Edmund E. Williams, Director

Pioneer Scale Co., Inc.
Hopper Scale Weighing/Load Receiving Element
Models: A, B

Application: Construction material hopper scale weighing elements when used with approved and compatible indicating elements. The particular application for each model is:

- A – Aggregate
- B – Cement

Identification: An identification plate containing all required information is riveted to each individual hopper.

Sealing: The junction box for each weighing element may be sealed with a wire security seal threaded through two drilled head screws which secure the cover. Sealing for the calibration and configuration parameters is provided by the certified and compatible indicating element.

Test Conditions: This Certificate is being issued without further testing to correct contact, load cell, and test condition information.

Certificate of Approval Number 5570-08: The Pioneer Models A and B weighing elements were submitted for evaluation and were each interfaced with a Cardinal model 205 indicator (Certificate of Approval Number 5258-01). The 41 000 lb capacity Model A was tested to capacity using 10 000 lb of known test weights and substitution of material. The 8 200 lb capacity Model B was tested to capacity with 8 200 lb of known test weights. The emphasis of the evaluation was on device design, marking requirements, and performance of the weighing element. Several increasing / decreasing load, discrimination, and return to zero tests were initially performed and then repeated after approximately 30 days and a minimum of 300 normal use weighments.

Results of the evaluation indicate the devices comply with applicable requirements.

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2008 Edition.

Tested By: Ken Jones (CA)

Model A Aggregate Hopper



Model B Cement Hopper

