

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

Certificate Number: 5423-05

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

For:

Hopper Scale Weighing/Load Receiving Elements
Load Cell Electronic
Model: See Table Below
 n_{\max} : 2 000
 e_{\min} : See Table Below

Accuracy Class: III L

Submitted by:

San Benito Supply
32340 Silliman Road
Soledad, CA 93960
Tel: (831) 724-6262
Fax: (831) 637-6125
Contact: Ben Schipper

Standard Features and Options

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

Hopper construction material: Mild steel

Model	Capacity (lb)	e_{\min} (lb)	Load Cell Capacity	Dimensions as Tested	Distance Between Load Cells
Aggregate Scale	40,000	20	20K	Rectangular 16' x 9'	8.5'
Cement Scale	10,000	5	5K	Cylinder 8' diameter x 7.6'	7'
Water Scale	4,000	2	1.5K	Square 4' x 4'	2'

Load Cells: Rice Lake Model RL20000A (Certificate of Conformance Number 90-158)

This device was evaluated under the California Type Evaluation Program (CTEP) and was found to comply with the applicable technical 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: January 26, 2005

Mike Cleary, Director

**San Benito Supply
Hopper Scale Weighing/Load Receiving Elements
Load Cell Electronic**

Application: For use as construction material hopper scale weighing element when used with approved and compatible indicating elements.

Identification: The information is attached to the frame of each weighing element.

Sealing: The load cell junction box may be sealed with a wire security seal. Additionally, sealing of metrological components are accomplished through the associated indicating element or batch controller.

Test Conditions: Three hopper load-receiving elements (water, cement and aggregate) were submitted for evaluation. The hoppers were interfaced with a Command Alkon batching controller, Model Spectrum VI Ez Cal (Certificate of Conformance Number 97-124A1). The emphasis of the evaluation was on device design, performance of the weighing elements, and marking requirements. Two hoppers (aggregate and cement) were tested with up to 10 000 lb of known test weights and 4 000 lb of known test weights for the water hopper and substitution test weights where necessary. 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, 2004 Edition

Tested By: S. Boyd (CA) and G. Castro (CA)