

**California Type Evaluation Program**  
**Certificate of Approval**  
**for Weighing Devices**

**For:**

Hopper Scale Retro-Fit Kit  
Load Cell Electronic  
Model: ASCO Series  
 $n_{max}$ : 1000  
 $e_{min}$ : 10 lb  
Capacity: 10 000 lb to 40 000 lb

Accuracy Class: III L

**Submitted by:**

Accurate Scale Company Inc.  
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**Standard Features and Options**

<u>Model Number</u>	<u>Capacity</u>	<u>Load Cell Capacity</u>
ASCO10K10	10 000 lb x 10 lb	3000 lb
ASCO40K40	40 000 lb x 40 lb	15 000 lb

The manufacturer's model numbers for the weighing elements are designated with a suffix of XXXYY, where XX is the scale capacity and YY is the division size.

Load cell type: (4) Artech, Model 20210 Series, Certificate of Approval Number 3198(b)-90.

Additional Capacities: 20 000 lb x 20 lb  
30 000 lb x 30 lb

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: March 16, 1999

  
Barbara J. Bloch, Director

**Accurate Scale Company Inc.  
Hopper Scale Retro-Fit Kit  
Model: ASCO Series**

**Application:** Construction material hopper scales for use with certified and compatible indicating elements.

**Identification:** A metal identification plate is attached to the bottom right side of the hopper scale.

**Sealing:** The load cell junction box may be sealed with a wire security seal. Additionally, the overall calibration can be sealed at the indicating element.

**Operation:** The retro-fit kit consists of mounting hardware and electronic load cells that replace previously approved mechanical levers on a hopper scale. The mounting hardware will suspend the scale in a level position, with four electronic load cells which should be interfaced to a compatible certified digital weight indicator.

**Test Conditions:** The Models ASCO10K10 (10 000 lb capacity) and ASCO40K40 (40 000 lb capacity) scales were submitted for evaluation. The emphasis of the evaluations was on the hopper scale's performance including motion detection, discrimination, and zone of uncertainty requirements. Increasing/decreasing load tests were conducted using 20 000 lb of known tests weights (10 000 lb for the Model ASCO10K10) and 20 000 lb of material for the Model ASCO40K40. The scales were in use for approximately 45 days and retested.

The results of the evaluations indicate the devices comply with the applicable requirements.

**Type Evaluation Criteria Used:** Title 4, California Code of Regulations, 1999 Edition

**Tested By:** Norman Ingram (CA), Samuel Chan (CA) and G. Castro (CA)