

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

Certificate Number: 5303-02

Page 1 of 2

California Type Evaluation Program
Certificate of Approval
for Weighing Devices

For:

Weighing/Load Receiving Element
Models: SB Series
Capacity: 30 lb (15 kg) to 500 lb (220 kg)
 e_{\min} : 0.005 lb (0.025 kg)
 n_{\max} : See Below
Platform: See Below

Accuracy Class: III

Submitted by:

A & D Engineering, Inc.
1555 McCandless Drive
Milpitas, CA 95035
Tel: (408) 263-5333
Fax: (408) 263-0119
Contact: Jesus Zapien

Standard Features and Options

Stainless steel weighing pan

Base unit material: SB-15K10: Stainless steel

SB-60K11, SB-100K12, SB200K12: Aluminum alloy die casting

Models	Capacity	e_{\min}	n_{\max}	Platform (mm)
SB-15K10	30 lb (15 kg)	0.005 lb (0.0025 kg)	6 000	250 x 250
SB-60K11	150 lb (60 kg)	0.05 lb (0.02 kg)	3 000	330 x 424
SB-100K12	200 lb (100 kg)	0.05 lb (0.025 kg)	4 000	390 x 530
SB-200K12	500 lb (220 kg)	0.1 lb (0.044 kg)	5 000	390 x 530

Load Cells:

A&D Load Cell Models: LC-131-15K, LC-132-60K, LC-133-100K, LC-133-200K

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

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: May 3, 2002

Mike Cleary, Director

A & D Engineering, Inc.
Weighing/Load Receiving Element
Model: SB Series

Application: For use as a general purpose scale weighing/load receiving element when interfaced with an approved and compatible indicating element.

Identification: The required information appears on an adhesive badge located on the side of the base plate near the level indicator.

Sealing: There are no sealable parameters in the weighing element. The complete device can be sealed at the indicator according to the instructions for the approved and compatible indicator used.

Test Conditions: Models SB 15K10 (30 lb capacity) and SB 200K12 (500 lb capacity) load receiving elements were submitted for the evaluation and attached to a Model AD-4328 indicating element (Certificate of Approval Number 4848-99). The emphasis of the evaluation was on device design, operation, marking requirements, and compliance with influence factor requirements. Several increasing/decreasing load and shift tests were performed. The load receiving elements were tested over a temperature range of -10°C to 40°C (14°F to 104°F). A load of approximately one-half scale capacity was applied to each of the load receiving elements over 100 000 times. The scales were tested periodically during this time.

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

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2002 Edition

Tested By: S. Boyd (CA)