

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

Certificate Number: 5441-05

Page 1 of 2

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

For:

Hopper Scale Weighing/Load Receiving Elements
Load Cell Electronic
Model: ZD-515
 n_{\max} : 3 000
 e_{\min} : 1.0 lb
Capacity: 3 000 lb

Accuracy Class: III/III L

Submitted by:

AR Readymix/NOR-CAL
5301 Byron Hot Spring Road
Byron, CA 94514
Tel: (925) 766-5301
Fax: (925) 706-0561
Contact: Bob McMillan
e-mail: bobm@arreadymix.com

Standard Features and Options

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

Hopper dimensions: 2' length x 2' width x 6' height

Material: 1/4" mild steel, welded construction

Load cell: (2) Sencortronics Inc. Model: 60001A-XX, 25 lb to 20 000 lb Capacity, "S" type (Certificate of Conformance Number 86-043A1)

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: August 12, 2005



Mike Cleary, Director

**AR Readymix/NOR-CAL
Hopper Scale Weighing/Load Receiving Elements
Model: ZD-515**

Application: General purpose weighing of construction material used to make concrete when interfaced with an approved and compatible weight indicating element.

Identification: A metal identification plate is permanently attached to the support beam of the hopper.

Sealing: The load cell junction box may be sealed by placing a wire security seal through two drilled head screws securing the cover. Additionally, the overall calibration can be sealed at the approved and compatible weight indicating element.

Test Conditions: The Model ZD-515 was interfaced to a Cardinal Detecto Model 748A digital weight indicator (Certificate of Approval Number 4021-94) for the evaluation. The emphasis of the evaluation was on device design, marking requirements, and performance of the load/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 device complies with applicable requirements.

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2005 Edition

Tested By: S. Boyd (CA)