

**PROCEDURES FOR VERIFICATION OF WEIGHING
DEVICES USED IN THE TESTING OF MATERIALS
AASHTO M 231**

A. PURPOSE

To certify that weighing devices in use meet the specifications in AASHTO M 231 and required by applicable AASHTO test method.

B. APPARATUS REQUIRED

General purpose and analytical certified weights meeting specifications in Tables 3 and 4 of AASHTO M 231.

C. PROCEDURE

The instructions specified in AASHTO M 231, Section 4 will be referenced as standard procedure.

D. TOLERANCE

Weighing devices and certified weights shall meet the requirements specified in M 231.

Note: All annual calibration or repairs of weighing devices will be performed by a certified outside calibration service.

EQUIPMENT VERIFICATION RECORD

Verified By: _____ Date: _____

Equipment: General Balances and Scales Location (Lab): _____

Identification No.: _____ Verification Frequency: 12 months

Previous Verification Date: _____ Next Due Date: _____

Verification Equipment Used: Certified Weights, Serial Number: _____

Verification Procedure: (In-house) OMR-CVP-2 / AASHTO M 231

Make: _____ Serial No.: _____

Used for what test: _____

Must meet for what class: _____ (Depends upon test)

Type of weighing device: _____ Capability: _____

Accuracy: _____ Sensitivity: _____ Readability: _____

Certified Weights	Balance or Scale Reading	Accuracy or Deviation	Sensitivity	Readability
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Remarks: _____

Requirements			
Class	Accuracy	Readability and Sensitivity	Capacity or Principal Sample Weight
C	0.02 g	0.01 g	1,200 g capacity
G2	0.1 g or 0.1%	0.1 g	2 kg or less
G5	1 g or 0.1%	1 g	2 kg through 5 kg
G20	5 g or 0.1%	5 g	Over 5 kg through
G100	20 g or 0.1%	20 g	Over 20 kg

Note: Class C is considered an analytical balance. All others are general purpose balance or scales.