Lab 8 Data for Homework

ASTM C-192

Weight of cement needed to make 1 ft³ of concrete = 25.8 lb
Weight of OD concrete sand needed to make 1 ft³ of concrete = 43.8 lb
Weight of OD crushed stone needed to make 1 ft³ of concrete = 64.7 lb
Weight of water needed to make 1 ft³ of concrete = 12.7 lb
Weight of water withheld from mixer = 1.0 lb
Actual weight of water used to make 1 ft³ of concrete = 11.7 lb

ASTM C-143

Concrete slump (measured to the nearest ¼") = 2.5 in

ASTM C-138

Weight of Press-R-Meter® base (empty) = 7.69 lb
Weight of Press-R-Meter® base filled with concrete = 44.30 lb
Weight of ¼ ft³ concrete in Press-R-Meter® base = 36.30 lb
Volume of Press-R-Meter® base = 0.25 ft³
Unit weight of fresh concrete = 146.4 lb/ft³

ASTM C-231

Measured air content of fresh concrete = 1.7 %