

## 22 CEMENT & CONCRETE

### 400 ML MEASURE

The **C1152** is a calibrated 400 ml measure used to determine air content of hydraulic cement mortar. Cylindrical with 3" I.D., approximately 3-15/32" depth.



MODELS	DESCRIPTION	STANDARDS
<b>C1152</b>	400 ML MEASURE	ASTM C-185, C-780 / AASHTO T-137

ACCESSORIES	DESCRIPTION
<b>C1155</b>	6" RUBBER TAMPER
<b>C1157</b>	6" MAPLE TAPPING STICK
<b>L3652</b>	12" STEEL STRAIGHT EDGE, ONE EDGE BEVELED

### MORTAR BAR CONTAINER

The **C1251** mortar bar container is used for testing the potential reactivity of cement mortar. The container I.D. dimensions are 9" x 11" x 15-1/2" and is constructed from stainless steel. The tight-fitting cover prevents moisture loss from mortar bars. The container supports up to 36 vertically placed bars.



MODELS	DESCRIPTION	STANDARDS
<b>C1251</b>	MORTAR BAR CONTAINER	ASTM C-227

### AUTOCLAVE

The **C1301** Autoclave uses accelerated means of estimating delayed expansion of Portland cement caused by hydration of CaO and MgO. The test bars are exposed to controlled steam pressure and corresponding constant temperature. The Autoclave produces 60-350 psi range of pressures and consists of steam vessel, pressure regulator, pressure gauge, air vent valve and safety valve. The chamber overall dimensions are 17" x 48" x 28" (431mm x 1219mm x 711mm) and the I.D. is 6-1/8" x 16". The maximum power demand is 1700W. The unit is also furnished with a thermometer, wrench and 100 gaskets.



MODELS	DESCRIPTION	STANDARDS
<b>C1301</b>	AUTOCLAVE	ASTM C-151 / AASHTO T-107

ACCESSORIES	DESCRIPTION
<b>C1303</b>	SPECIMEN HOLDER, FOR 8 SPECIMENS
<b>C1304</b>	HEATING ELEMENT
<b>C1305</b>	EXTRA GASKETS, PER 100
<b>C1322</b>	MOLD 1" X 1" X 10", DOUBLE

## BLAINE FINENESS DEVICE



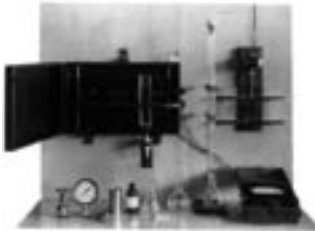
The **C2301** Blaine Fineness Device determines fineness of Portland cement in terms of specific surface expressed as total area in square centimeters per gram of cement. The device consists of a calibrated U-tube manometer, ground glass joint, stainless steel test cell and plunger, rubber aspirator bulb and perforated disc. Includes 8 oz. bottle of red manometer fluid, filter paper, wood block for holding test cell during filling and funnel.

MODELS	DESCRIPTION	STANDARDS
<b>C2301</b>	BLAINE FINENESS DEVICE	ASTM C-204 / AASHTO T-153

ACCESSORIES	DESCRIPTION
<b>C2302</b>	CELL AND PLUNGER
<b>C2304</b>	EXTRA FILTERS, 500/PK
<b>C2305</b>	STANDARD SAMPLE, 20 VIALS
<b>C2309</b>	EXTRA MANOMETER TUBE

## WAGNER TURBIDIMETER

For determining the fineness of Portland Cement by the turbidimeter. The turbidimeter is an apparatus used for measuring the light that passes through a suspension of pulverized material dispersed in a suitable medium. A Microammeter measures current generated in the cell; indicated reading is measure of turbidity of the suspension. Includes photoelectric cell and light source in metal cabinet, timing burette and stand, wet sieving assembly including gauge and spray nozzle, microammeter, 3 calibrated flasks, 4 test tubes, stirring device and instruction book. Available in 110V/50-60 Hz (**C2401**) or 220V/50Hz (**C2402**). Please specify type needed.



MODELS	DESCRIPTION	STANDARDS
<b>C2401</b>	WAGNER TURBIDIMETER, 110V / 60 Hz	ASTM C-115 / AASHTO T-98
<b>C2402</b>	WAGNER TURBIDIMETER, 220V / 50 Hz	

## FLOW TABLES

These flow tables have many different applications which include compression strength and air content tests of cement mortar; flow tests of hydraulic cement mortars; consistency test of magnesium oxychloride cements; flexural strength test for bond strength of mortar to masonry units. The flow table is available in manual (**C2601**), motorized (**C2611** & **C2612**), and motorized with counter (**C2615** & **C2616**). All models have a table top which is cast bronze and 10" in diameter. The tables have a cam and shaft set for a 1/2" drop. Manual type has a hand wheel while the motorized types are available in 110V/60Hz or 220V/50Hz (please specify model needed) has a speed of about 100 rpm. The motorized flow tables with automatic counter stops the motor after a preset number of drops. The table is furnished with a cast bronze flow mold, but does not include the flow caliper.



**C2601**

**C2615**

MODELS	DESCRIPTION	STANDARDS
<b>C2601</b>	FLOW TABLE, MANUAL	ASTM C-87, C-109, C-110, C-185, C-230, C-243, C-348, C-598 / AASHTO T-71, T-106, T-137, M-152
<b>C2611</b>	FLOW TABLE, 110V / 60 Hz	
<b>C2612</b>	FLOW TABLE, 220V / 50 Hz	
<b>C2615</b>	FLOW TABLE W/ COUNTER, 110V / 60 Hz	
<b>C2616</b>	FLOW TABLE W/ COUNTER, 220V / 50 Hz	

ACCESSORIES	DESCRIPTION
<b>C2618</b>	EXTRA CONE MOLD
<b>C2621</b>	CALIPER FOR PERCENT FLOW