

EQUIPMENT CALIBRATION, STANDARDIZATION OR CHECK RECORD

Original 12/96, Revised 12/30/99, 3/11, 7/14

PROCEDURE #5

Date: _____ Checked by: _____

Equipment: MOLDS (4" and 6" Proctor) T 99, T 180, SD 104

Previous check date: _____ Next due: _____ Frequency: 12 Months Max

Inspection equipment and serial number:

Feeler gauge 0.005" (0.13 mm) thick #: _____ Glass plate ^{1/4"} thick _____

Caliper readable to 0.0005" (0.01 mm):# _____ Thermometer #: _____

MOLD	INSIDE DIAMETER				HEIGHT			Base (Plane)	
	(New Mold Tolerances)	(Used Mold Tolerances)	(New Mold Tolerances)	(Used Mold Tolerances)	(New Mold Tolerances)	(Used Mold Tolerances)			
4"	3.984 - 4.016"	3.976 - 4.024"	4.579 - 4.589"	4.577 - 4.591"	<0.005				
6"	5.974 - 6.026"	5.961 - 6.039"	4.579 - 4.589"	4.577 - 4.591"	<0.005				

Mold I.D.	✓ Check One Below:		Reading 1	Reading 2	Reading 3	Reading 4	Average	Base <0.005"	Vol. Cu. ft.
	New Mold	Diameter							
	Used Mold	Height							
	New Mold	Diameter							
	Used Mold	Height							
	New Mold	Diameter							
	Used Mold	Height							
	New Mold	Diameter							
	Used Mold	Height							
	New Mold	Diameter							
	Used Mold	Height							

STANDARDIZATION OF MOLD USING WATER AT A KNOWN TEMPERATURE

Mold I.D.	(A) Weight of mold, base, glass plate and sealer	(B) Weight of mold, base, water and glass plate	(C) Weight of water to fill mold	Volume in cu. ft.	(D) Density of water (Table Below)	Temp of water

Equation: $C/D = V$ $I/V = \text{Cu. Ft.}$

Temperature - Density of Water			
°C	°F	kg/m ³	lb/ft ³
15.6	60	999.01	62.366
18.3	65	998.54	62.336
21.1	70	997.97	62.301
(23.0)	(73.4)	(997.54)	(62.274)
23.9	75	997.32	62.261
26.7	80	996.59	62.216
29.4	85	995.83	62.116