



**FIELD CALIBRATION SHEET  
FOR LATEX MOBILE MIXERS**

County \_\_\_\_\_

S.R. & Sec. \_\_\_\_\_

Contract No. \_\_\_\_\_

Truck Ident. \_\_\_\_\_

Mixer Ser. No. \_\_\_\_\_

RPM \_\_\_\_\_

Date \_\_\_\_\_

<b>CEMENT</b>	<b>Trials</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>Totals</b>
Cement Mass (WGT)								
Meter (yd) Count (Whole no.)								
Seconds (to 0.1 secs.)								
Total Meter (yd) Count	Total Cement Mass (WGT)	Factor (to 4 decimals)		Mass (WGT) / m <sup>3</sup> (Cy)		<b>CEMENT METER (yd) COUNT</b>		
÷	=	X		=				
Total Seconds	Total Cement Mass (WGT)	Factor (to 4 decimals)		Mass (WGT) / m <sup>3</sup> (Cy)		<b>TIME</b>		
÷	=	X		=				

<b>SAND</b>							
Total Design Mass (WGT) (1)	No. m <sup>3</sup> (Cy) of Cement	Mass (WGT) / m <sup>3</sup> (Cy)		Sand Moisture Mass (WGT) (2)		Actual Sand Mass (WGT)	
÷	=	X		=			
Actual Sand Mass (WGT)	Time (from Cement calib.)	Mass (WGT) / Sec.		Calibration time (sec.)		Calibration Mass (WGT)	
÷	=	X		=			
Calibration of Sand Dial	<b>Trial 1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>SAND DIAL SETTING</b>
Sand Mass (WGT)							
Time (constant)							
Sand Dial Setting (3)							

<b>STONE</b>							
Total Design Mass(WGT) (1)	No. m <sup>3</sup> (Cy) of Cement	Mass (WGT) / m <sup>3</sup> (Cy)		Stone Moisture Mass (WGT) (4)		Actual Stone Mass (WGT)	
÷	=	X		=			
Actual Stone Mass (WGT)	Time (from Cement calib.)	Mass (WGT) / Sec.		Calibration time (sec.)		Calibration Mass (WGT)	
÷	=	X		=			
Calibration of Stone Dial	<b>Trial 1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>STONE DIAL SETTING</b>
Stone Mass (WGT)							
Time (constant)							
Stone Dial Setting (3)							

<b>LATEX</b>							
Design Liter (gal) / m <sup>3</sup> (Cy) Cement	Time (from Cement calib.)	G.P.M.				Gauge Setting	
X 60 ÷		=					
Total Design Mass (WGT) (1)	No. m <sup>3</sup> (Cy) of Cem.	Mass (WGT) / m <sup>3</sup> (Cy)	Time (Cem. calib.)	Mass (WGT) / Sec.	Calib. Time (sec.) (5)	calculated Mass (WGT)	
÷	=	X	=	X	=		
Calibration of Latex	<b>Trial 1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>LATEX GAUGE SETTING</b>
Gauge Setting Fan Gauge							
Time (constant)							
Latex Mass (WGT) (6)							

<b>WATER</b>							
Calib. of Gauge or Flow meter	<b>Trial 1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>WATER GAUGE SETTING (8)</b>
Gauge Setting Kg (lb) / Min. (7)							
Time (minutes)							
Theo. Mass (WGT) (Setting X X Time)							
Actual Water Mass (WGT) (6)							Max. Kg (lb) / Min.
							Min. Kg (lb) / Min.
							Des. Kg (lb) / Min.

EXPLANTORY NOTES

- (1) From approved Mix Design (TR-4221-A, Mix Design Worksheet)
- (2) Mass (WGT) / m<sup>3</sup> (CY) X % moisture in sand = sand moisture mass (WGT).
- (3) Adjust dial setting until the masses (WGT) for 3 consecutive trials (min.) are consistent compare to calibration mass (WGT) within the tolerances as stated in the special provisions.
- (4) Mass (WGT) / m<sup>3</sup> (CY) X % moisture in stone = stone moisture mass (WGT).
- (5) Use the TIME from the cement calibration to nearest second.
- (6) Acceptable if within tolerances given is special provisions are compared to calculated mass (WGT) and consistent for 3 trials minimum.
- (7) Selected setting should be between the minimum and maximum flow rates (kg (lb)/ min.) as determined from the modified CS-4220-A, Batch-Mixer slip form.
- (8) Calculated of Max., Min., and Design Water Gauge Setting:

Design Water Based on average of Max. and Min. Water-Cement ratios.

Max.

Des. Water-Cement ratio X mass (WGT) of Cement / m<sup>3</sup> = Total mass of Water

Min.

Total kg (lb) of Water =  
 Kg (lb) latex X % water in latex = - \_\_\_\_\_

Total aggregate moisture = - \_\_\_\_\_ = kg

Max.  
 Des. water to be added  
 Min.

Max.  
 Kg (lb) Des. water to be added x 60  
 Min. \_\_\_\_\_ =  
Kg (lb) of Cem. X Calib. Time for Kg (lb) of Cem.

Kg (lb) p.m. Max. WATER  
 Des. GAUGE  
 Min. SETTING