Fine Aggregate Angularity Calibration Worksheet

Equipment ID:	Date:					
Manufacturer: Performed By:						
Model #:	Last Calibration:					
Serial #:	— Next Cal	ibration Due:				
Storage Location:		_				
Calibration Item:	Verify critical dimen	sions of the funn	el, stand, cylindric	cal measure	, and spatula	
	Determine the volui	me of the cylindri	cal measure			
Calibration Procedure:	: In-House Procedure for Verifying Fine Aggregate Angularity Device					
Calibration Equipment:	Ruler readable to 1 mm					
	Caliper readable to	0.1 mm	Caliper ID:			
	Straightedge					
	Protractor					
	Glass Plate (60 mm x 60 mm)					
	Grease or Vaseline					
<u>Funnel</u>		<u>Measurement</u>	<u>Tolerance</u>	<u>Pass</u>	<u>/ Fail</u>	
Inside Diameter of Funnel Opening			12.7 ± 0.6 mm	□ Pass	□ Fail	
Slope Angle of Funnel			60 ± 4 °	□ Pass	□ Fail	
Funnel Height			at least 38 mm	□ Pass	□ Fail	
Funnel Stand						
Distance from opening to cylindrical measure			115 ± 2 mm	□ Pass	□ Fail	
Cylinder Dimensions		<u>Measurement</u>	<u>Tolerance</u>	<u>Pass</u>	<u>/ Fail</u>	
Inside Diameter of Cylinder			≈ 39 mm	□ Pass	□ Fail	
Inside Height of Cylinder			≈ 86 mm	□ Pass	□ Fail	
Thickness of Base Plate			at least 6 mm	□ Pass	□ Fail	
<u>Cylinder Volume</u>						
Mass of cylinder, grease, g	lass plate (g)					
Mass of cylinder, grease, glass plate, water (g)			$V = 1000 \frac{M}{D}$			
Temperature of Water			D			
Density of Water at Measur	red Temp (kg/m³)					
Volume of Cylinder (mL)			≈ 100 mL	□ Pass	□ Fail	
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<u>Spatula</u>	<u>Measurement</u>		<u>Tolerance</u>	Tolerance Pass /	
Length of Blade (straight)			≈ 100 mm	□ Pass	□ Fail
Width of Blade			at least 20 mm	□ Pass	□ Fail
Is the end cut at a right angle to blade?	□ Yes	□ No	at right angle	□ Pass	□ Fail

Table 3—Density of Water

Tempe	rature		
$^{\circ}\mathrm{C}$	°F	kg/m^3	$1b/ft^3$
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	62.166

Pass / Fail	
Initial By	

