

FM 3-C 535 Procedure Checklist Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine

		P	F	N/A
Procedure				
1.	Obtain sample per FM 1-T002 and reduce to test sample size per FM 1-T248.			
2.	Wash and oven dry the test sample to constant mass at $110 \pm 5^{\circ}\text{C}$ ($230 \pm 9^{\circ}\text{F}$).			
3.	Separate into individual size fractions and recombine to the grading in Table 1 most nearly corresponding to the range of sizes in the work.			
4.	Determine mass of recombined sample to nearest 1 g.			
5.	Place recombined test sample and the charge in the LA machine.			
6.	Rotate the machine at 30 to 33 rpm for 1000 revolutions.			
7.	Discharge the material from the machine and separate over a No. 12 sieve.			
8.	Wash +No. 12 material, oven dry to substantially constant mass at $110 \pm 5^{\circ}\text{C}$ ($230 \pm 9^{\circ}\text{F}$), and determine mass to nearest 1 g.			
9.	Calculate the loss (difference between original recombined mass and final mass after drying) as a percentage of original recombined mass.			
10.	Report results to the nearest 1% by mass			

Table 1 Gradings of Test Samples

Sieve Size, inch (Square Openings)		Mass of indicated Sizes, g		
Passing	Retained on	Grading		
		1	2	3
3	$2 \frac{1}{2}$	$2\ 500 \pm 50$
$2 \frac{1}{2}$	2	$2\ 500 \pm 50$
2	$1 \frac{1}{2}$	$5\ 000 \pm 50$	$5\ 000 \pm 50$...
$1 \frac{1}{2}$	1	...	$5\ 000 \pm 25$	$5\ 000 \pm 25$
1	$\frac{3}{4}$	$5\ 000 \pm 25$
Total		$10\ 000 \pm 100$	$10\ 000 \pm 75$	$10\ 000 \pm 50$

Remarks: _____ **Comparison Criteria:** **N/A**

Date: _____ Technician: _____ IA Observer: _____

Technician's E-mail Address: _____

Employer's/ Supervisor's E-mail Address: _____