

**Standard Test Method for Resistance to Degradation of Small-Size coarse Aggregate by  
Abrasion and Impact in the Los Angeles Machine<sup>1</sup>  
ASTM C131/C131M - 14**

**APPARATUS: / CLAUSE 6.0**

1. Los Angeles Machine / Clause 6.1
  - a. Wall thickness not less than 12.4 mm? ..... \_\_\_\_\_
  - b. Hollow steel cylinder closed at both ends? ..... \_\_\_\_\_
  - c. Inside diameter 711 ± 5mm? ..... \_\_\_\_\_
  - d. Inside length of 508 ± 5mm? ..... \_\_\_\_\_
  - e. Rotation 30 to 33 r/min for 500 revolutions? ..... \_\_\_\_\_

Note 1: Additional details provided in ASTM C131 – 06 / Clause 6.1

2. Charge / Clause 6.4
  - a. Charge shall meet the following requirements? ..... \_\_\_\_\_
    - diameter approximately 46.8mm
    - mass of between 390 and 445 g
  - b. Mass of charge determined by gradation - Reference ASTM C136 – 06  
Table I? ..... \_\_\_\_\_

<b>Grading</b>	<b>No. of Spheres</b>	<b>Mass of Charge, g</b>
<b>A</b>	<b>12</b>	<b>5000 ± 25</b>
<b>B</b>	<b>11</b>	<b>4584 ± 25</b>
<b>C</b>	<b>8</b>	<b>3330 ± 20</b>
<b>D</b>	<b>6</b>	<b>2500 ± 15</b>

3. Sieves, conforming to ASTM E11? ..... \_\_\_\_\_
4. Balance accurate within 0.1 % of test load over the range required for this Test? ... \_\_\_\_\_

**SAMPLING / CLAUSE 7.1**

- a. Field sample provided in accordance with ASTM D75? ..... \_\_\_\_\_
- b. Field sample reduced in accordance with ASTM C702? ..... \_\_\_\_\_

**TEST SAMPLE PREPARATION / CLAUSE 8.1**

- a. Washed and oven dried reduced sample at 110 ± 5°C (230 ± 9°F) to  
constant mass? ..... \_\_\_\_\_
- b. Sieved into individual size fractions and recombined as per Table I? ... \_\_\_\_\_

