Ball Impact Resistance Test

1. Test Method

1.1. Test Standard: NEMA LD3 2000 3.8 (Ball Impact Resistance)

1.2. Test Condition

1) Condition prior to Test: 48 hours at 23℃ ± 2℃ (73.4℉ ± 3℉), 50% ± 5% relative humidity

2) Specimen: Shall be 300 x 300mm (12 x 12 inches)

3) Stainless Steel Ball: Φ 38.1mm(1.5″), 224 ± 3g

1.3. Test Procedure

1) Clamp the test specimen in the jig

2) Position the electromagnet at any arbitrary height above the test specimen

3) Place the ball on the electromagnet and drop the ball. Catch the ball on the first rebound so that multiple impacts do not occur. Impact positions shall be at least 25mm(1 inch) apart and 50mm (2 inches) from the edge of the specimen

4) Use the marking pen to ink over impact points caused by the ball.
   Wipe each impact point. Fractures may appear as hairline cracks, concentric circles, or chips.

5) Examine the impact spot for cracks and determine the result.

6) Raise or lower the electromagnet height as necessary and repeat step 3) through 5) until the maximum height at which no cracking occurs is determined.

2. Test Result

Specimen	Impact Resistance
1	> 96 in
2	> 96 in
3	> 96 in