



ANSI / ESD S4.1 - 2006 Test Data

5300 Series Mats

General Test Procedure-Resistance to Groundable Point

1. Attach the resistance meter sensing lead to groundable point A and the voltage lead to a five pound electrode.
2. Place the electrode at position 1. Set the meter output to 10 volts and initiate a resistance measurement. If the resistance is less than 1×10^6 ohms record the value. If the resistance is greater than 1×10^6 ohms set the meter output to 100 volts and repeat the measurement. Record the resistance once the reading stabilizes. (See Figure 1)
3. Repeat the resistance to groundable point A for electrode positions 2 and 3.
4. Repeat steps 2 and 3 with the sensing lead attached to groundable point A.
5. Repeat for the remaining 2 samples.

General Test Procedure-Resistance Point to Point

1. Attach the sensing lead to one five pound electrode and the voltage lead to a second five pound electrode.
2. Place the electrodes on the mat per Figure 2A.
3. Set the meter output to 10 volts and initiate a resistance measurement. If the resistance is less than 1×10^6 ohms record the value. If the resistance is greater than 1×10^6 ohms set the meter output to 100 volts and repeat the measurement. Record the resistance once the reading stabilizes.
4. Re-position the electrodes per Figure 2B and repeat step 3.
5. Repeat steps 2 through 4 for the remaining samples.
6. Place three untested samples of each mat to be tested in an environmental chamber preset to $23 \pm 1^\circ\text{C}$ and $50\% \pm 5\%$ relative humidity for a minimum of 48 hours.



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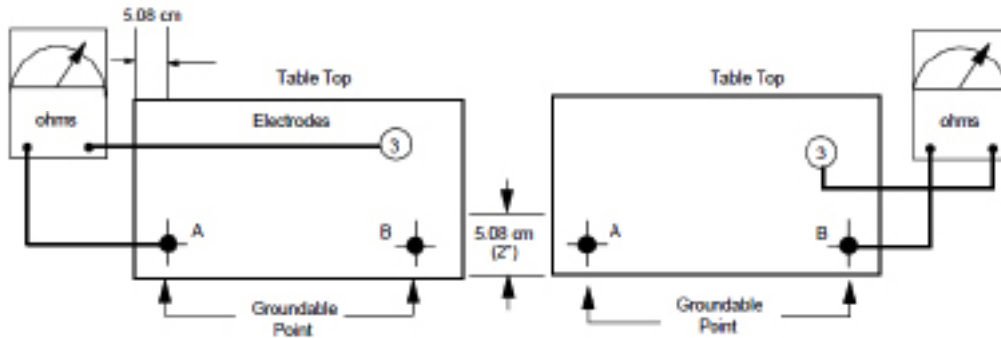


Figure 1 - Resistance to Groundable Point Testing

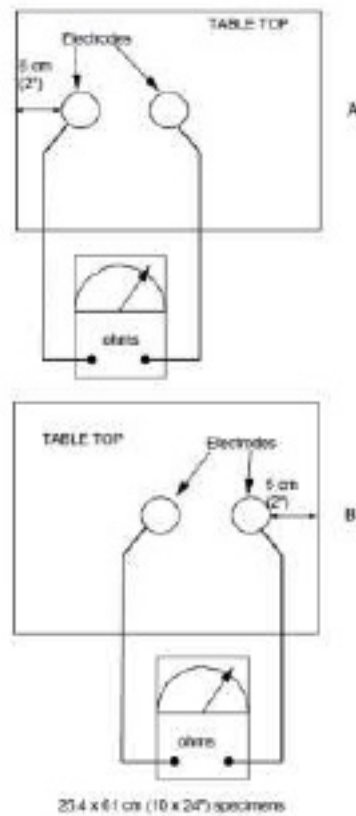


Figure 2 - Point to Point Resistance Testing



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Mat Tested	RGpA			RGpB			Pt-Pt (Left to CTR)	Pt-Pt (CTR to Right)
	5300	1	2	3	1	2	3	
Sample 1	1.50E + 07	1.80E + 07	1.70E +07	1.60E +07	1.80E +07	1.70E +07	3.70E +07	3.90E +07
Sample 2	1.40E + 07	1.60E +07	1.60E +07	1.40E +07	1.60E +07	1.60E +07	3.50E +07	3.80E +07
Sample 3	1.30E + 07	1.30E +07	1.30E +07	1.20E +07	1.30E +07	1.30E +07	3.00E +07	3.10E +07

Minimum: 1.20E+07 Maximum: 3.90E +07 Median: 1.60E +07 Average: 2.00E +07

Moderate Relative Humidity Data

Mat Tested	RGpA			RGpB			Pt-Pt (Left to CTR)	Pt-Pt (CTR to Right)
	5300	1	2	3	1	2	3	
Sample 1	1.10E + 07	1.20E + 07	1.00E +07	1.00E +07	1.20E +07	1.10E +07	2.00E +07	2.10E +07
Sample 2	1.00E + 07	1.20E +07	1.00E +07	1.10E +07	1.20E +07	1.10E +07	2.10E +07	2.50E +07
Sample 3	7.30E + 07	8.50E +07	8.50E +07	7.30E +07	9.80E +07	9.50E +07	1.50E +07	1.60E +07

Minimum: 1.00E +07 Maximum: 9.80E +07 Median: 1.10E +07 Average: 1.26E +07