

DiamaPro ESD Floor System

Post Installation Test Value Submission Form

Allow the **DiamaPro[®] ESD Floor System** to cure for a minimum of 24 hours before testing the system for conductivity.

All reading must be taken using **Static Solutions, Inc. OHM-STAT[®] RT-1000**.

All values taken for this report must to be performed during the same time frame. Relative Humidity and Temperature readings must be recorded at the first reading and the last reading.

A minimum of 10 test locations must be provided on areas less than 5,000 square feet. Areas between 5,000-25,000 square feet must have a minimum of 20 test locations. Over 25,000 square feet one test location every 5,000 square feet with a minimum of 20 used.

At every test location the floor and test apparatus must be clean and dust free. Follow the cleaning procedures supplied with your test equipment.

There will be 3 test procedures performed at each test location.

POINT TO POINT (PTP) or SURFACE RESISTANCE MEASUREMENTS (RTT)

This procedure which complies with EOS/ESD-S4.1 will measure resistance between two points independent of a ground able point.

- A. Connect the monaural plug ends of the test leads into the 3.5 mm jacks of the meter. Connect the banana plug ends of the test coil cords into the 5-pound, 2.5-inch diameter probes.
- B. Position the weights 24" to 36" apart
- C. Select the correct test- 100V position. If the device tells you to set it at 10V, do so.
- D. Press and hold the test button until power is applied to the meter and a resistance, humidity, temperature value is displayed on the LCD screen. This may take 20-30 seconds. When the button is released the displayed value will remain on the screen automatically for 20-30 seconds with no battery drain. At high resistance values and to minimize line current interference the use of the enclosed shield ground cord is recommended.

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RESISTANCE TO GROUND (RTG)

This procedure measures the surface resistance between a ground point on the material surface and specific positions on the material being tested. This procedure complies with the EOS/ESD S4.1 test standard.

- A. Meter setup. Select the correct test- 100V position. If the device tells you to set it at 10V, do so.
- B. With both test leads connected to the meter attach the alligator clip to one banana plug and the other end to the 2.5-inch, 5-pound weight probe.
- C. Attach the alligator clip to a known electrical ground such as the electrical ground of the building. OR use the made-up "ground adapter", insert that into plugged in extension cord and the alligator clip on the exposed ground end.
- D. Press the test button until the resistivity, humidity, and temperature test values are displayed on the LCD screen. These readings will conform to: EIA, EOS/ESD, ANSI, IEC-93, CECC, and ASTM test procedures. When performing tests be sure the test lead wires do not touch each other or overlap and that your hands are not in contact with the probes or wires during the actual touching of the materials. This will ensure accurate readings.

RESISTANCE PER 97.1

- A. Select the correct test- 100V position. If the device tells you to set it at 10V, do so.
- B. Put on a set of heel straps or remove your shoes and take the readings in your socks.
- C. The 97.1 readings can be taken at the same time as the RTG readings to speed-up the process.
- D. Pick up the testing weight and cradle the black rubber portion (bottom) in the palm of your hand (so the charge goes through your hand).
- E. Press and Hold the "Test Button" with the opposite hand until a reading appears.

FORM SUBMITTAL

After the test values have been obtained, mail or email the completed form to:

DiamaPro[®] Systems

Scott Thome

1803 Associates Lane

Charlotte, NC 28217

Scott.Thome@DiamaProSystems.com



DiamaPro[®]
SYSTEMS

Protection at the Speed of Light

DiamaPro ESD Floor System

Installer: _____

Client: _____

Address: _____

Phone Number: _____

Selected Voltage: _____

Name: _____

Date: _____

Area Name/Room Number: _____

Beginning Temperature: _____

Ending Temperature: _____

Beginning Relative Humidity: _____

Ending Relative Humidity: _____

Approximate Locations/Dimensions

DiamaPro ESD Floor System

LOCATION	PTP	RTG	97.1
1			
2			
3			
4			
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