



DESCO INDUSTRIES INC

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QUALIFICATION REPORT – ANSI/ESD S20.20

SCS PREMIUM 3-LAYER VINYL WORKSURFACE MAT

ANSI/ESD S20.20	SCS Test Results	Test Methods
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Resistance (ohms) @ 12% RH, 23°C, 48-72 hours conditioning, N=3 specimens, 100V

Resistance-to-Groundable point	$< 1.0 \times 10^9$	See Table 1	ANSI/ESD STM4.1
Resistance Point-to-Point	$< 1.0 \times 10^9$	See Table 2	ANSI/ESD STM4.1

Resistance (ohms) @ 50% RH, 23°C, 48-72 hours conditioning, N=3 specimens, 100V

Resistance-to-Groundable point	$< 1.0 \times 10^9$	See Table 1	ANSI/ESD STM4.1
Resistance Point-to-Point	$< 1.0 \times 10^9$	See Table 2	ANSI/ESD STM4.1

Testing Equipment (Calibration records and test results are located at our corporate lab (Canton, MA)):

- Environment Chamber with ETS Automatic Humidity Controller (Model 514)
- Desco Electrodes for Surface Resistance (Model 50003)
- Desco Surface Resistance Meter (Model 19291)

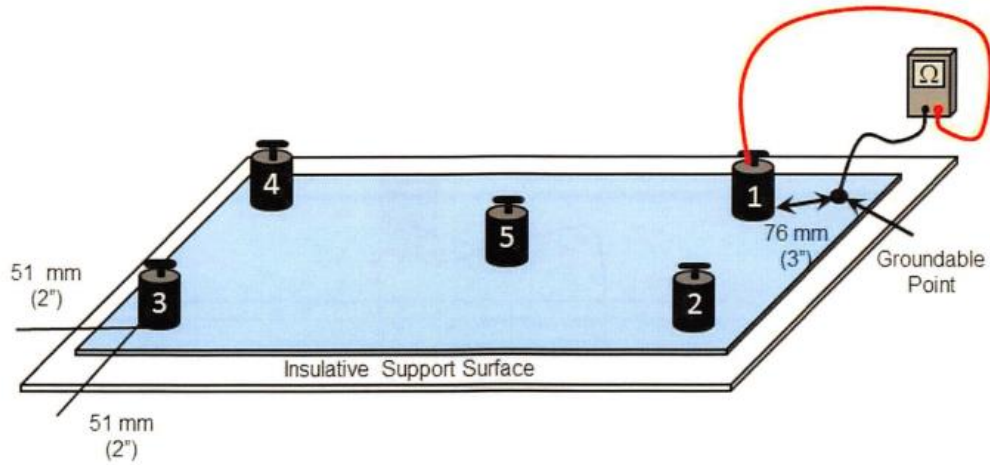
Test Data:**Table 1 - Resistance-to-Groundable point**

S4.1 Test Position	RTG (ohms), at 12%RH, 23°C			RTG (ohms), at 50%RH, 23°C		
	Sample #1	Sample #2	Sample #3	Sample #1	Sample #2	Sample #3
Figure 1 – Position 1	1.74×10^7	1.70×10^7	2.00×10^7	1.09×10^7	1.15×10^7	1.08×10^7
Figure 1 – Position 2	2.08×10^7	1.83×10^7	2.38×10^7	1.19×10^7	1.17×10^7	1.12×10^7
Figure 1 – Position 3	1.94×10^7	1.79×10^7	2.19×10^7	1.31×10^7	1.45×10^7	1.16×10^7
Figure 1 – Position 4	2.15×10^7	1.98×10^7	2.43×10^7	2.06×10^7	1.36×10^7	2.27×10^7
Figure 1 – Position 5	1.84×10^7	1.70×10^7	1.90×10^7	1.11×10^7	1.23×10^7	1.13×10^7
Min. =	1.74×10^7	1.70×10^7	1.90×10^7	1.09×10^7	1.15×10^7	1.08×10^7
Mean =	1.94×10^7	1.82×10^7	2.21×10^7	1.35×10^7	1.30×10^7	1.35×10^7
Max. =	2.15×10^7	1.98×10^7	2.43×10^7	2.06×10^7	1.45×10^7	2.27×10^7

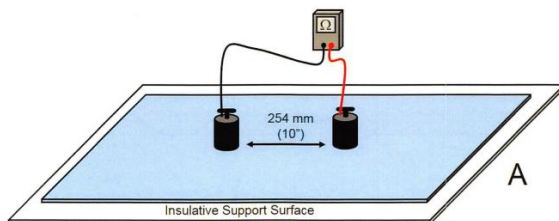
Table 2 - Resistance Point-to-Point

S4.1 Test Position	RTT (ohms), at 12%RH, 23°C			RTT (ohms), at 50%RH, 23°C		
	Sample #1	Sample #2	Sample #3	Sample #1	Sample #2	Sample #3
Figure 2 – Set up A	1.67×10^7	1.54×10^7	2.64×10^7	9.87×10^6	1.04×10^7	1.46×10^7
Figure 2 – Set up B	1.67×10^7	1.60×10^7	5.48×10^7	1.04×10^7	1.00×10^7	1.36×10^7
Figure 2 – Set up C	1.78×10^7	1.51×10^7	3.07×10^7	9.09×10^6	1.03×10^7	1.39×10^7
Figure 2 – Set up D	1.48×10^7	1.60×10^7	4.09×10^7	9.53×10^6	1.01×10^7	1.47×10^7
Min. =	1.48×10^7	1.51×10^7	2.64×10^7	9.09×10^6	1.00×10^7	1.36×10^7
Mean =	1.65×10^7	1.56×10^7	3.67×10^7	9.71×10^6	1.02×10^7	1.42×10^7
Max. =	1.78×10^7	1.60×10^7	5.48×10^7	1.04×10^7	1.04×10^7	1.47×10^7

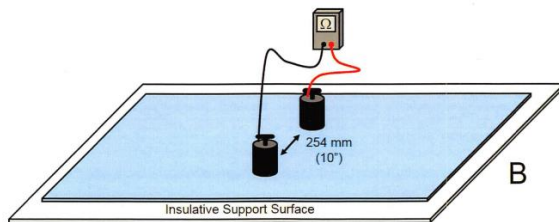
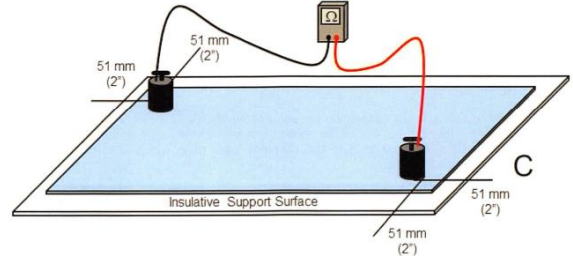
References:



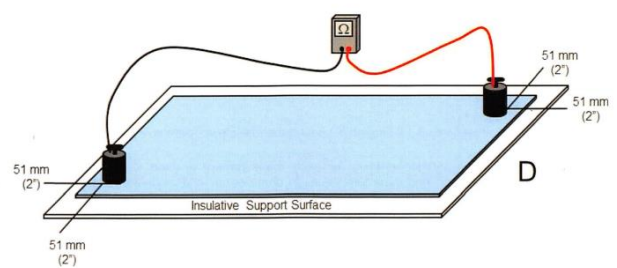
ANSI/ESD STM4.1– Figure 1: Work-surface – Resistance-to-Groundable Point



NOTE: Locate the geometric center of the sample first.



NOTE: Locate the geometric center of the sample first.



ANSI/ESD STM4.1 – Figure 2: Work-surface – Resistance Point-to-Point

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