

Roppe Holding Company

ESD S7.1 Tests

" Flooring Resistance " - Ohms

Conductive (SP)

12/1/2008

(4' x 4') 12% RH

Resistance:	(100 Volts)		Point to Point (100 Volts)	
	Point A	Point B		
1	2.12E+05	2.38E+05	1	2.89E+05
2	2.14E+05	1.97E+05	2	2.58E+05
3	2.26E+05	2.19E+05	3	2.35E+05
4	2.22E+05	2.03E+05	4	2.44E+05
5	2.33E+05	1.61E+05	5	2.64E+05
6	1.77E+05	2.03E+05		
Average	2.14E+05	1.97E+05	Average	2.58E+05
Maximum	2.33E+05	2.19E+05	Maximum	2.89E+05
Minimum	1.77E+05	1.61E+05	Minimum	2.35E+05
Std. Dev.	2.20E+04	2.15E+04	Std. Dev.	2.07E+04



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The data and conclusions of this report are based upon the information and samples supplied to Fowler Associates for the tests described herein. Product users should make his or her own tests to determine the suitability of the information and conclusions herein stated or implied for their intended use, and shall assume all risk and liability in connection therein.

Roppe Holding Company

ESD STM97.1 Tests

"Resistance - with person/shoe" - Ohms

Conductive (SP)

12/1/2008

(4' x 4') 12% RH

Feet on Floor Resistance/Conductive Shoes

100 Volts

Cofra S82 ESD Shoes

	Both Feet	Left Only	Right Only
1	1.02E+07	1.25E+07	1.29E+07
2	1.33E+07	1.42E+07	1.45E+07
3	1.15E+07	1.20E+07	1.42E+07
4	1.10E+07	1.12E+07	1.27E+07
5	1.03E+07	1.10E+07	1.24E+07
Average	1.13E+07	1.22E+07	1.33E+07
Maximum	1.33E+07	1.42E+07	1.45E+07
Minimum	1.03E+07	1.10E+07	1.24E+07
Std. Dev.	1.26E+06	1.28E+06	9.45E+05



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ESD STM97.2 Tests

"Voltage with Person"

Conductive (SP)

12/1/2008

(4' x 4') 12% RH

Charge Generation Voltage (Peak Voltage)

Cofra S82 ESD Shoes Shoes

Floor	Grounded	Ungrounded
1	53	61
2	73	65
3	45	84
4	28	65
5	48	54
6	24	69
7	47	77
8	24	54
9	38	64
Average	42	66
Maximum	73	84
Minimum	24	54
Std. Dev.	16	10



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ESD STM97.2 Tests

"Voltage with Person"

Conductive (SP)

1/6/2009

(4' x 4') 12% RH

Charge Generation Voltage (Peak Voltage)

Iron Age Chip Tech ESD Shoes

Floor	Grounded	Ungrounded
1	6	9
2	8	7
3	5	8
4	9	10
5	6	9
6	9	11
7	10	9
8	12	12
9	8	10
Average	8	9
Maximum	12	12
Minimum	5	7
Std. Dev.	2	2



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