

Commercial-in-Confidence

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Report Title: Testing of Rubber Mat to BS 921:1976

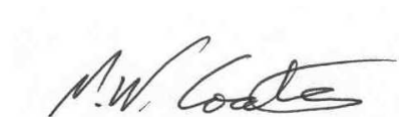
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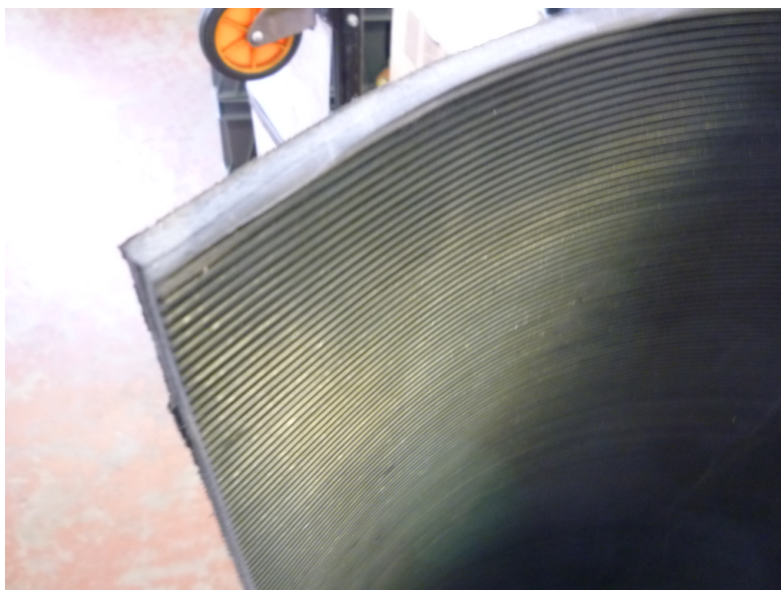
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## 1. Test parameters

Test Method:	Generally to: - BS 921:1976
Equipment Used:	ERA 100 kV test rig no.76-023, calibrated 22/09/09
Electrodes:	305mm x 305mm square Brass electrode plates
Rate of Rise of Voltage:	~2 kV/sec.
Material:	Ribbed rubber mat sample supplied by customer as shown in fig 1.
Specimen Dimensions:	1m x 2.9m x 9.8mm thick to the top of the ribs.
Preconditioning:	24 Hours at $23 \pm 2^{\circ}\text{C}$
Date of Test:	24 <sup>th</sup> March 2010



**Figure 1. Ribbed rubber mat test sample.**

## 2. Results

A 0.837m<sup>2</sup> area of rubber mat was tested in sections, with each section measuring the size of the test electrodes. This is shown schematically in figure 2 with the results in milliamps.

2.7mA	2.7mA	3mA
2.6mA	2.6mA	3mA
2.8mA	2.4mA	2.9mA

**Figure 2. Test area on mat**

Total current measured: 24.7mA

Total test area: 0.837m<sup>2</sup>

Leakage current for mat test area = 29.50 mA/m<sup>2</sup>

### **3. Conclusion**

Clause 7.1 of BS 921:1976 stipulates that the leakage current shall not exceed 160mA/m<sup>2</sup>. The mat tested in this report, with a measured leakage current of 29mA/m<sup>2</sup>, meets requirement.