



Fraunhofer

TESTED[®]
DEVICE

ERGOKOMFORT GmbH
ESD Floor tile FL-I-XL-9
Report No. ER 2607-1794

DUPLICATE

Statement of
Qualification

Single product
Electrical
Resistance

Customer	ERGOKOMFORT GmbH Südstrasse 43 21698 Harsefeld Germany
Tested product	
Category:	Cleanroom Facilities
Subcategory:	Wall / Ceiling / Floor
Product name:	ESD Floor tile FL-I-XL-9 (manufacturing date: 2/27/2026; color: graphite gray; article number: eFL-I-XL-9)

Electrical resistance measurements at representative points (resistance to groundable point (R_{gp})) and Body voltage

Standards/guidelines:	DIN EN IEC 61340-4-5, -5-1 The norms stated generally refer to the version valid at the time of the tests.
Test equipment:	Data acquisition: Metriso 3000 and Electrometer WT5000 Wolfgang Warmbier GmbH & Co. KG
Test environment parameters:	• Cleanroom Air Cleanliness Class (according to ISO 14644-1):..... ISO 1 • Airflow velocity:.....0.45 m/s • Airflow pattern:..... vertical laminar flow • Temperature:22 °C ± 0.5 °C • Relative humidity: 45 % ± 5 %
Test procedure parameters:	• Measuring probes: – Type: hand-held electrode (stainless steel) Wolfgang Warmbier GmbH & Co. KG • Insulating base: – Type: flat PTFE-Plate with R > 10¹⁴ Ω – Size: 1,210 mm x 1,200 mm (± 5 mm) – Thickness: 5 mm (± 1 mm) • Footwear: – Brand: ABEBA – Article number: ABEBA-5310-40 – Size: 40 – Electrical property..... ESD conform according to DIN EN IEC 61340-5-1

Test result / Classification

The ESD Floor tile FL-I-XL-9 has been tested for its resistance to ground and body voltage according to DIN EN IEC 61340-4-5 and qualified according to DIN EN IEC 61340-5-1. The obtained data on resistance to ground and body voltage are within the limits specified in DIN EN IEC 61340-5-1.

	Operating voltage [V]	Max. value [Ω]	Compliance with limit value as per DIN EN IEC 61340-5-1
Resistance to groundable point (R _{gp})	100	6.7 x 10 ⁷	fulfilled
Body voltage positive	--	43.03	fulfilled
Body voltage negative	--	- 8.26	fulfilled

The measuring devices used for the qualification tests are calibrated at regular intervals; their results can be traced back to national and international standards. In cases where no national standards exist, the test procedure implemented complies with the technical regulations and norms applicable at the time of the test. The relevant documentation can be viewed on request at any time.

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Business unit Testing and Certification		
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	on behalf of 	
	Dr.-Ing. Frank Bürger, head of business unit Testing and Certification	