



Fraunhofer

TESTED[®] DEVICE

Saint-Gobain Ecophon AB
OPTA E T24

Report No. SA 2511-1961

DUPLICATE

Statement of
Qualification

Single product
**Electrical
Resistance**

Customer	Saint-Gobain Ecophon AB Box 500 265 03 Hyllinge Sweden
Tested product	
Category:	Cleanroom Facilities
Subcategory:	Wall/Ceiling/Floor/Door
Product name:	OPTA E T24 (manufacturing date: 9/4/2025; color: white; article number: 37451330; charge number: 101030)

Electrical resistance measurements at representative points (point-to-point resistance (R_{p-p}))

Standards/guidelines:	DIN EN IEC 61340-4-1, -5-1 The norms stated generally refer to the version valid at the time of the tests.
Test equipment:	Data capture:Metriso 3000,Wolfgang Warmbier GmbH & Co. KG
Test environment parameters:	- Room with controlled environmental conditions - Temperature:22 °C ± 0.5 °C - Relative humidity: 45 % ± 5 %
Test procedure parameters:	Measuring probes: - Type:Model 850, ME 2.5 kg, Ø 63.5 mm, IEC 61340-2-3, -4-1Wolfgang Warmbier GmbH & Co. KG Insulating mount: - Type: 2 plane PTFE-Sheets with $R > 10^{14} \Omega$ - Dimensions:..... 1210 mm x 1200 mm (± 5 mm) - Thickness:..... 5 mm (± 1 mm)

Test result / Classification

The ceiling panel OPTA E T24 shows limited compliance with general requirements for ESD control items as per DIN EN IEC 61340-5-1. Electrical resistance values in this range exceed the typical limits for dissipative surfaces defined in DIN EN IEC 61340-5-1. Therefore, the suitability as ESD control item depends on the specific implementation and may require a field control concept.

Measuring point	Operating voltage [V]	Max. mean value R_{p-p} [Ω]	Conformity assessment based on DIN EN IEC 61340-5-1
Point-to-point resistance (R_{p-p})	100	1.9×10^{10}	Limited compliance

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.

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA	SA 2511-1691 Report No. first document	Stuttgart, January 30, 2026 Place, date of first document issued
Business unit Testing and Certification	-- Report No. current document	-- Place, current date
Nobelstrasse 12 70569 Stuttgart Germany	on behalf of Dr.-Ing. Frank Bürger, head of business unit Testing and Certification	