





## Fraunhofer TESTED® DEVICE SOLIANI EMC RA.45.600.600.LP Report No. SO 2403-1505

Statement of Qualification

Single product
Particle Emission

## **Statement of Qualification** • Single product

Customer	SOLIANI EMC S.r.I. Via varesina 122 22100 Como Italy	Test result/Classification	When operated under the specified test conditions, the Absorber RA.45.600.600.LP is suitable for use in cleanrooms fulfilling the specifications of the following Air Cleanliness Class according to ISO 14644-1:	
			Test parameter(s)	Air Cleanlines Class
Component tested			Structure-borne noise = approx. 50 Hz <b>Overall result</b>	1
Category:	Cleanroom Facilities			
Subcategory:	Wall/Ceiling/Floor/Door		It should be noted that cleanrooms of class 1 to 5 according to ISO 14644-1 have a higher filter occupancy, which may restrict the use of absorbers. Cleanrooms with a horizontal displacement flow form an exception to this.	
Product name:	Absorber RA.45.600.600.LP			
	(manufacturing date: 1/2024; color: blue; article number: 95.00052-00)		Surfaces and edges may not become damaged of	5 ,

## Random sampling of particle emissions (airborne) at representative sites

Standards/Guidelines:	ISO 14644-1, -14 The norms stated generally refer to the version valid at the time of the tests.
Test devices:	Optical particle counter: LasAir II 110 and LasAir III 110 with measuring ranges $\geq 0.1 \mu\text{m}$ , $\geq 0.2 \mu\text{m}$ , $\geq 0.3 \mu\text{m}$ , $\geq 0.5 \mu\text{m}$ , $\geq 1.0 \mu\text{m}$ and $\geq 5.0 \mu\text{m}$
Test environment parameters:	<ul> <li>Cleanroom Air Cleanliness Class (according to ISO 14644-1):ISO 1</li> <li>Airflow velocity:0.45 m/s</li> <li>Airflow pattern:vertical laminar flow</li> <li>Temperature:</li></ul>
Test procedure parameters:	<ul> <li>Installation position:</li></ul>

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.

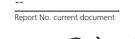
Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

SO 2403-1505 Report No. first document

Department of Ultraclean Technology and Micromanufacturing

Nobelstrasse 12 70569 Stuttgart Germany



on behalf of RTR Dr.-Ing. Frank Bürger, Project Manager Fraunhofer IPA



would also have a negative influence on the particle emission behavior of the absorber elements when in later use.

Due to the porous surface and type of material utilized, which is only partially resistant to common cleaning agents, the absorber elements can only be cleaned to a limited extent in a cleanroom-suitable manner.

Please note: Transport damages, incorrect installation, aging behavior etc. can influence the test result.

Place, date of first document issued

Place,	current	date

This document only applies to the named product in its original state and is valid for a period of 5 years from the date the first document was issued. The document can be verified under www.tested-device.com.