

Fraunhofer

TESTED[®] DEVICE

Roxtec International AB LABSEAL C LTX

Report No. RO 2505-1624

Statement of Qualification

Single product
Particle Emission
in Cleanroom
(atmospheric)





Statement of Qualification • Single product

Roxtec International AB Customer

> Rombvägen 2 37165 Lyckeby Sweden

Tested product

Cleanroom Facilities Category:

Wall/Ceiling/Floor/Door Subcategory

LABSEAL C LTX WITH COUNTER FRAME 0-40 Product name:

(manufacturing date: fourth quarter of 2024; color: white; article number:

241407)

Random sampling of particle emissions (airborne) at representative sites in cleanroom under atmospheric conditions

Standards/guidelines:

ISO 14644-1, -14

The norms stated generally refer to the version valid at the time of the tests.

Test equipment:

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 μ m, \geq 0.5 μ m, \geq 1.0 μ m and \geq 5.0 μ m

Test environment parameters:

Airflow pattern:.....vertical laminar flow

Test procedure parameters:

• Deflection of the system (Ø):......s = 0.0389 mm

Test result/Classification

The LABSEAL C LTX WITH COUNTER FRAME 0-40 is suitable for use under the specified test parameters (room temperature: 22 °C ± 0.5 °C; relative humidity: 45 % ± 5 %) in cleanrooms of the following Air Cleanliness Class according to ISO 14644-1:

Test parameter(s)	Air Cleanlines Class
Structure-borne noise = approx. 50 Hz	
Overall result	

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



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

Business unit Testing and Certification

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RO 2505-1624

Stuttgart, May 23, 2025

Place, date of first document issued

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on behalf of RT Bir

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

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