

Fraunhofer

TESTED®

DYNACO EUROPE NV Dynaco D-313 CR LF

Report No. DY 2508-1659

Statement of Qualification

Single product Particle Emission in Cleanroom (atmospheric)





Statement of Qualification • Single product

Customer DYNACO EUROPE NV

Waverstraat 21 9310 Moorsel Belgium

Tested product

Category: Cleanroom Facilities

Subcategory: Wall/Ceiling/Floor/Door

Product name: Dynaco Europe D-313 Cleanroom LF

(manufacturing date: 7/2025; color curtain: white; dimensions: 2000 mm x 2300 mm; article number: D-313 Cleanroom LF; serial number: BBA2503298

(DY311))

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

Standards/guidelines:

Test equipment:

Test environment parameters:

Test procedure parameters:

ISO 14644-1, -14

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

Optical particle counter:

LasAir II 110 and LasAir III 110 with measuring ranges \geq 0.1 μ m, \geq 0.2 μ m, \geq 0.3 μ m, \geq 0.5 μ m, \geq 1.0 μ m and \geq 5.0 μ m

•	Cleanroom	Air Cleanliness	Class (according.	to ISO 146	44-1)·	ISO 1

Airflow velocity:	$5 \mathrm{m}$	/s
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[•] Airflow pattern: vertical laminar flow

Test result/Classification

The door Dynaco Europe D-313 Cleanroom LF is suitable for use under the specified test parameters (room temperature: $22 \,^{\circ}\text{C} \pm 0.5 \,^{\circ}\text{C}$; relative humidity: $45 \,^{\circ}\text{M} \pm 5 \,^{\circ}\text{M}$) in cleanrooms of the following Air Cleanliness Classes according to ISO 14644-1:

Test parameter(s)	Air Cleanlines Class
Side of driving mechanism	5
Opposite side of driving mechanism	4
Overall result	5

Please note: Transport damages, incorrect installation, oil leakage, 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

Nobelstrasse 12 70569 Stuttgart Germany DY 2508-1659

Stuttgart, October 2, 2025

Place, date of first document issued

Report No. current document Place, current date

Place, current date

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

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.

