



Fraunhofer

TESTED[®] DEVICE

Knauf Ceiling Solutions
Ecomin Alpha 15 mm
Report No. KN 2411-1576

Single product
**Particle Emission
in Cleanroom
(atmospheric)**

Qualification Certificate

This is to certify that the product mentioned above, provided by

Knauf Ceiling Solutions
Grafenau, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE
bearing the report number KN 2411-1576.

The ceiling system Ecomin Alpha 15 mm (color: white) was
assessed in compliance with ISO 14644-14. When operated under
the specified test conditions (room temperature: $22^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$;
relative humidity: $45\% \pm 5\%$), it is suitable for use in cleanrooms
fulfilling the specifications of the following Air Cleanliness Class
according to ISO 14644-1:

Test parameter(s)	Air Cleanliness Class
Structure-borne noise = approx. 50Hz	1
Overall result	

It must be pointed out, that according to ISO 14644-1 clean-
rooms classes 1 to 5 have a high filter occupancy, with the result
that large-surface ceiling systems cannot be used in some cases.
Cleanrooms with a horizontal displacement flow form an excep-
tion to this. The test result may be affected by the surrounding
ceiling system.

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

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Report No. first document

Stuttgart, February 7, 2025
Place, date of first document issued

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Report No. current document

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Place, current date

on behalf of 
Dr.-Ing. Frank Burger, Project Manager Fraunhofer IPA

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.

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