



valid until: February 6, 2031

Fraunhofer

TESTED[®] DEVICE

Ritterwand GmbH & Co. KG
TK+FK Series 498 UR 600 ges. RR

Report No. RI 2603-1734

DUPLICATE

Statement of
Qualification

Part product series
Hygienic Design

Statement of Qualification · Part product series

Customer

Ritterwand GmbH & Co. KG
Roesseweg 5-7
71154 Nufringen
Germany

Tested product

Category: Cleanroom Facilities
Subcategory: Lighting Systems
Product name: TK+FK Series 498 UR 600 ges. RR
tested components:
Cleanroom recessed luminaire TK/FK M600
(manufacturing date: 4/15/2025; color: white (RAL 9010); dimensions: 600 x 600 mm; article number: 498600520); serial number: 498; revisability: from below (UR))

Assessment of conformity to GMP regulations as well as to EHEDG conception and design recommendations

Standards/guidelines: EU GMP Annex 1; EHEDG Doc. 8; DIN EN 1672-2; ISO 14159
The norms stated generally refer to the version valid at the time of the tests.

Assessment criteria:

- Materials utilized
- Material pairings
- Installed components
- Geometries of components used
- Joining methods
- Detailed constructional solutions
- Manufacturing processes
- Surface coatings/coating systems

The suitability of the operating utility for use in a GMP-conform manufacturing environment is ascertained on the basis of the assessment of these criteria with the aid of expert knowledge. The assessment focuses mainly on the avoidance of contamination as well as on the ability to clean and disinfect the operating utility.

Test result / Classification

The lighting part product series TK+FK Series 498 UR 600 ges. RR is principally suitable for use in hygienic areas up to the following GMP Class according to EU GMP Annex 1:

| |
|-------------------|
| Suitability |
| up to GMP Class C |

However, this recommendation only pertains to the operating utility when in a resting state. An overall assessment can only be made after its installation in the manufacturing environment.

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

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Report No. first document

Stuttgart, February 6, 2026
Place, date of first document issued

Business unit
Testing and Certification

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Report No. current document

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Place, current date

Nobelstrasse 12
70569 Stuttgart
Germany

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