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DEVICE

Rockwool B.V., Rockfon
Medicare Block (prototype)
Report No. RO 1212-627

DUPLICATE

Statement of
Qualification

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Statement of Qualification

Customer:

Rockwool B.V., Rockfon
Industrieweg 15
6045 JG Roemond
The Netherlands

Component tested:

Category: Cleanroom Facilities

Subcategory: Wall / Ceiling / Floor

Type: Ceiling system Medicare Block (prototype)

Random check measurements of particle emission (airborne) at representative points

Test procedure: According to VDI 2083-9.1; ISO 14644-1
Each standard states refers to the version valid at the time of testing.

Measuring instruments: Optical Particle Counter:
Model LasAir II 110 manufactured by PMS with measuring channels of 0.1 µm, ≥ 0.2 µm, ≥ 0.3 µm, ≥ 0.5 µm, ≥ 1.0 µm and ≥ 5.0 µm

Test parameters of the test environment:

- Cleanroom Air Cleanliness Class (according to ISO 14644-1):..... ISO 1
- Air flow velocity:.....0.45 m/s
- Air flow guidance:.....vertical unidirectional air flow
- Temperature:.....22 °C ± 0.5 °C (71.6 °F ± 0.9 °F)
- Relative humidity:..... 45 % ± 5 %

Test parameters of the test execution:

The ceiling system was tested in the following grid system:

- T-grid system:..... Chicago Metallic Continental
- Serial number:.....1267081369
- Width: ..... 24 mm
- Height:..... 38 mm

The ceiling system was stressed as follows:

- Impact sound:.....5 Hz to 50 Hz
- Average oscillation velocity:..... v = 0.1495 mm/s
- Average oscillation acceleration:.....a = 0.083 m/s²
- Average oscillation of the system: .....s = 0.00047 mm

Test results / Classification:
(according to ISO 14644-1)

The Medicare Block (prototype) ceiling system is suitable for use in cleanrooms fulfilling the Air Cleanliness Class 2.

It must be pointed out, that according to ISO 14644-1 cleanrooms classes 1 to 5 have a high number of filters, which makes the use of ceiling elements partly impossible. Cleanrooms with horizontal laminar flow are an exception.

The measuring equipment used for the qualification is regularly calibrated and is based on national and international standards. In the case where no national standards exist, the measuring procedure used corresponds with technical regulations and norms valid at the time of the measurement. The documents drawn up for this procedure are available for viewing.

The validity of this certificate applies only to the mentioned product in this particular condition for a duration of 5 years.
Further information: **www.tested-device.com**.

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Stuttgart, March 8, 2013
Place, Date

i. A.
Project manager

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