

DeLaval GmbH

# Rubber Mat RM 32

Slip resistance



**DELAVAL  
RUBBER MAT RM 32**

✓ Slip Resistance

DLG Certificate 7094

## Overview

A test mark “DLG APPROVED for individual criteria” is awarded for agricultural products which have successfully fulfilled a scope-reduced usability testing conducted by DLG according to independent and recognised evaluation criteria. The test is intended to highlight particular innovations and key criteria of the test object. The test may contain criteria from the DLG test scope for overall tests, or focus on other value-determining characteristics and properties of the test subject. The minimum requirements, test conditions and procedures as well as the evaluation bases of the test results will be specified in consultation with an expert group of DLG. They correspond to the recognised rules of technology, as well as scientific and agricultural knowledge and requirements. The successful testing is concluded with the publication of a test report, as well as the awarding of the test mark which is valid for five years from the date of awarding.



The DLG APPROVED Test “Slip resistance” includes technical measurements on test stands of the DLG Test Center. The test basis was the DLG test framework for elastic stable floor coverings in the lying areas of cattle and dairy cows, as of December 2018, and DIN 3763:2022-08 (Elastic stable floor coverings in the walking and lying areas of cattle and dairy cows – requirements and testing).

Other criteria were not investigated.

## Assessment in brief

The DeLaval rubber mat RM 32 tested here, an elastic floor covering for the resting area in cubicle houses, was investigated on test stands in the DLG APPROVED Test. The deformability and elasticity, the abrasion resistance, the slip resistance, were measured and a permanent tread load was applied.

Table 1:  
Overview of results

DLG QUALITY PROFIL	Evaluation*
Slip resistance – good slip resistance on dry and wet mat surface, $\mu > 0.45$	✓

\* Evaluation range:  
requirement fulfilled (✓) / requirement not fulfilled (✗)

## The Product

### Applicant

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Product:  
DeLaval rubber mat RM 32

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### Description and Technical Data

The DeLaval rubber mat RM 32 tested here, is an elastic floor covering for the resting area in cubicle houses.

Black, profiled rubber mat

- ca. 33 mm tick
- Surface with a triangle structure
- Underside with small and great conical knops (ca. 11.5 mm and 19 mm high, diameter at the bottom ca. 19 mm)
- Single mat installation
- Shore A: ca. 75

## The Method

### Slip resistance

The measurements were carried out with the ComfortControl test rig of the DLG test centre. A loaded (10 kg) round plastic foot (105 mm diameter, with a contact area of 75 cm<sup>2</sup>, 3 mm wide ring at the periphery of the ground) was pulled with a velocity of 20 mm/s across the mat.

## Detailed account of the test results

### Slip Resistance

The slide pulling tests showed a good slip resistance on the dry or wet rubber mat surface in new condition. The measured friction coefficients ( $\mu$ ) all surpassed the minimal value of  $\mu = 0.40$  (DIN 3763) and  $\mu = 0.45$  (DLG test program) which speaks for a good foothold.

Evaluation:  
Good slip resistance on dry and wet rubber mat surface requirements fulfilled.

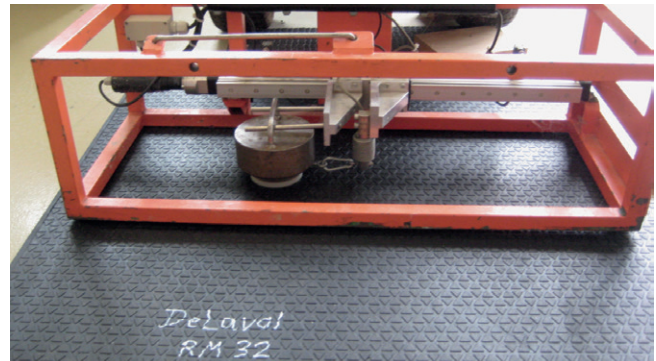


Figure 2: Slip resistance measurement

## Summary

Based on test-stand investigations, the criteria tested in this DLG APPROVED Test evaluate slip resistance of the DeLaval rubber mat RM 32 for use in the resting area of high cubicles in cubicle houses. The tested rubber mat RM 32 met the requirements of the Testing Framework and DIN 3763 with respect to the investigated criteria.

## Further information

### Testing agency

DLG TestService GmbH,  
Gross-Umstadt location, Germany  
The tests are conducted on behalf of DLG e.V.

### DLG test framework

DLG test framework for elastic stable floor coverings in the lying areas of cattle and dairy cows, as of December 2018,

DIN 3763:2022-08 (Elastic stable floor coverings in the walking and lying areas of cattle and dairy cows—Requirements and testing)

### Department

Indoor operations

### Division head

Dr. Michael Eise

### Test engineer(s)

Alena Scholz\*

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\* Author

## DLG. An open network and professional voice.

Founded in 1885 by the German engineer Max Eyth, DLG (Deutsche Landwirtschafts-Gesellschaft – German Agricultural Society) is an expert organisation in the fields of agriculture, agribusiness and the food sector. Its mission is to promote progress through the transfer of knowledge, quality standards and technology. As such, DLG is an open network and acts as the professional voice of the agricultural, agribusiness and food sectors.

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This test report replaces the version dated December 2024, DLG test number 2010-0056.

The product continues to be manufactured and marketed unchanged.

Internal test code DLG: 2601-0034

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