

North West Rubber **Propel**

Deformability/Elasticity,
Permanent Tread Load
Abrasion, Slip resistance,
Acid resistance,
Cleaning-distance



NORTH WEST RUBBER PROPEL

- ✓ Deformability/Elasticity
- ✓ Permanent Tread Load
- ✓ Abrasion
- ✓ Slip resistance
- ✓ Acid resistance
- ✓ Cleaning-distance

DLG Certificate 7615

Overview

A test mark “DLG-APPROVED for individual criteria“ is awarded for agricultural products which have successfully fulfilled a scopereduced 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.



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Test criteria: Permanent tread load, deformability and elasticity before and after permanent tread load test, abrasion, slip resistance, acid resistance, cleaning distance

Test basis: DLG Testing Framework for elastic stable flooring for cows 2018-12 and DIN 3763:2022-08

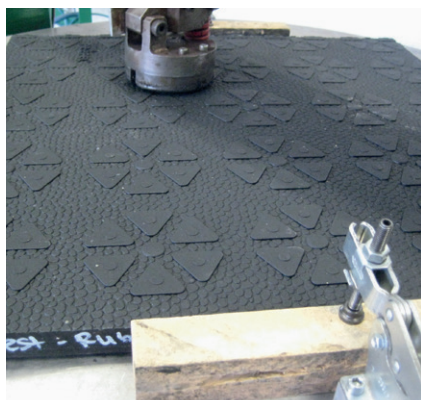


Figure 2:
Permanent tread load

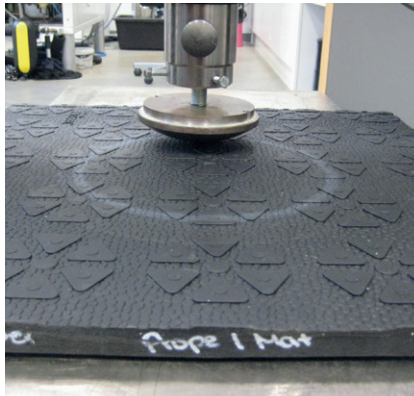


Figure 3:
Deformability after permanent
tread load

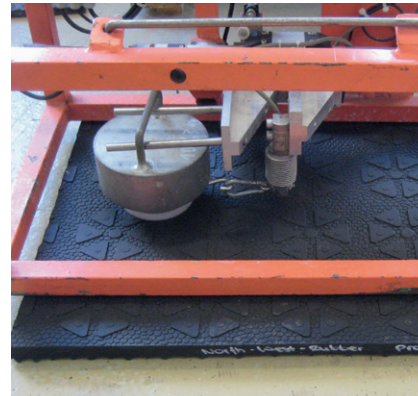


Figure 4:
Slip resistant measurement

The produkt

Manufacturer

North West Rubber, 2315 Bristol Circle, suite 205,
Oakvill, Ontario, Kanada L6H 6P8

Product:
Propel

Contact:
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www.northwestrubber.com

Description and technical data

- black rubber mat with star-shaped nubs.
- total thickness: 29 mm
- shore A hardness: 71
- interlocking mat, 4 x 6 feet

Assessment in brief

The Propel tested here, an elastic stable flooring in the movement, rest and lying area for cows, was investigated with regard to durability and comfort properties on test stands in the DLG APPROVED Test. The deformability and elasticity of the mat, the abrasion resistance, the slip resistance, the acid resistance and the cleaning distance were measured and a permanent tread load was applied.

The requirements of the DLG test framework and DIN 3763 have been met.

Table 1:
Overview of results

DLG QUALITY PROFILE			Evaluation
Deformability and elasticity	in new condition	4.0 mm with cow foot, 6.3 mm with calotte	no rating
	following endurance test	4.3 mm with cow foot, 6.5 mm with calotte	no rating
Lasting deformation	following endurance test		■ ■ ■ ■ ■ *
Wear/damage	following endurance test		■ ■ ■ ■ ■ *
Abrasion		6.0 g	■ ■ ■ ■ □ *
Cleaning distance			
– with a flat jet nozzle	(up to 15 cm no damages)		■ ■ ■ ■ □ *
– with a coarse dirt remover	(up to 40 cm no damages)		■ ■ ■ □ □ *
Slip resistance			■ ■ **
Acid resistance			
– feed acid mixture	resistant		■ ■ ■ ***
– uric acid	limited resistance		■ ■ □ ***
– ammonia	resistant		■ ■ ■ ***
– sulfurous acid	resistant		■ ■ ■ ***
– barn disinfectants	resistant		■ ■ ■ ***
– peracetic acid	resistant		■ ■ ■ ***

DLG Evaluation range:

* ■ ■ ■ or better = meets, exceeds or significantly exceeds the established DLG standards,
 ■ ■ = meets the legal requirements for marketability, ■ = failed

** Single criteria slip resistance: ■ ■ = passed, ■ = failed

*** Single criteria acid resistance: ■ ■ ■ = resistant, ■ ■ = limited resistant, ■ = failed

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 Testing Framework for elastic stable floor coverings in the movement, resting, and lying areas of Cows, as of December 2018

DIN 3763:2022-08 (Elastic floorings in the movement, rest, and lying areas for cows – Requirements and testing)

Department

Agriculture

Head of Department

Dr. Michael Eise

Test engineer(s)

Alena Scholz*

* 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.

As one of the leading organisations in the agricultural and food market, DLG organises international trade fairs and events in the specialist areas of crop production, animal husbandry, machinery and equipment for farming and forestry work as well as energy supply and food technology. DLG's quality tests for food, agricultural equipment and farm inputs are highly acclaimed around the world.

For more than 130 years, our mission has also been to promote dialogue between academia, farmers and

the general public across disciplines and national borders. As an open and independent organisation, our network of experts collaborate with farmers, academics, consultants, policymakers and specialists in administration in the development of future-proof solutions for the challenges facing the agriculture and the food industry.

Leaders in the testing of agricultural equipment and input products

The DLG Test Center Technology and Farm Inputs and its test methods, test profiles and quality seals hold a leading position in testing and certifying equipment and inputs for the agricultural industry. Our test methods and test profiles are developed by an independent and impartial commission to simulate in-field applications of the products. All tests are carried out using state-of-the-art measuring and test methods applying also international standards.

Internal test code DLG: 2608-0020

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