



Contract No.: 5401900477

R. No.:

APPROVAL DOCUMENTATION No. SD 031/18A

For approval of technical worthiness of vehicle equipment - exterior plastic and rubber vehicle accessories

Applicant: ALLOYGATOR Limited
61 Heming Road, Washford Industrial Estate
Reddich Worcestershire, B98 0EA, England

Sort: Exterior plastic and rubber vehicle accessories

Manufacturer: ALLOYGATOR Limited
61 Heming Road, Washford Industrial Estate
Reddich Worcestershire, B98 0EA, England

Make (Trade name of manufacturer): ALLOYGATOR

Type (type series): AG24

Commercial mark:

Intended for: Vehicles of categories M1 and N1

Issue No.: 1

Total number of pages (include annexes): 38

Number of pages of annexes: 30



TECHNICAL REPORT No. P 031/18A

Applicant:	ALLOYGATOR Limited 61 Heming Road, Washford Industrial Estate Reddich Worcestershire, B98 0EA, England
Tested product	
Sort:	Exterior plastic and rubber vehicle accessories
Manufacturer:	ALLOYGATOR Limited 61 Heming Road, Washford Industrial Estate Reddich Worcestershire, B98 0EA, England
Make (Trade name of manufacturer):	ALLOYGATOR
Type (type series):	AG24
Commercial mark:	
Intended for:	Vehicles of categories M1 and N1
Test type:	For approval of technical worthiness of vehicle equipment
Tested and evaluated according to:	Act No. 56/2001 Coll., Decree of Czech Ministry of Transport No. 341/2014 Coll., ECE Regulations
Test base:	Order dated on 2018-09-13
Number of samples:	1
Samples submitted to test on:	2018-10-09

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1. Introduction

Tests of vehicle equipment (exterior plastic and rubber vehicle accessories, protection of cast wheel discs against damage) were carry out in Technical Service TÜV SÜD Czech s.r.o., Praha based on the requirement of company ALLOYGATOR Limited, England. Manufacturer of vehicle accessories is ALLOYGATOR Limited, 61 Heming Road, Washford Industrial Estate Reddich Worcestershire, B98 0EA, England, make (Trade name of manufacturer) ALLOYGATOR, type AG24.

2. Brief description of the product

Vehicle equipment: exterior plastic and rubber vehicle accessories - protection of cast wheel discs (protection of discs) of make (Trade name of manufacturer) ALLOYGATOR, type AG24

The above type is made of nylon high pressure technology by injection of the material into the casting mould. The type is intended for protection of AL alloy wheel discs against damage to curbs or unevenness on the road. The mass of the set for the protection of the one wheel disc is approximately 190 g. It depends on the wheel size. The product is intended for vehicles of categories M1 and N1.

Detail description of the product is a part of Technical documentation – see Annex No. 4.

3. Tests, assessment and evaluation

3.1 External projections

3.1.1 External projections were verified according to ECE Regulation No. 26.

3.1.2 Test results – after installation of the wheel protection the outer surface of the wheel does not have sharp projections. Their shape, size or hardness do not have increase the risk of

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injury to persons.

3.1.3 Evaluation – the results comply with Decree of Czech Ministry of Transport No. 341/2014 Coll.

3.2 Checking of installation and driving tests

3.2.1 Verified according to Decree of Czech Ministry of Transport No. 341/2014 Coll.

3.2.2 Test results - After the vehicle has been submitted to the tests, the applicant has carried out the assembly of the wheel protection type AG24 on the wheel disc (Al alloy) according to the assembly instructions. Installing the wheel protection on the wheel disc is easy to implement according to the instruction. The wheel protection is fastened to the wheel disc so that its clamping part is inserted between the rim and the tire. Compressive force between the rim and the tire (after inflating the tire) ensures the position of the wheel protection on the wheel disc. The wheel protector material is tightly attached to the wheel disc foot and secures a complete seal between the tire and the rim. To find the attachment force of the wheel protection on the wheel disc, these driving tests were performed - driving the vehicle at the maximum design speed (polygon conditions allow a maximum vehicle speed of 200 km.h⁻¹), attachment force at maximum deceleration (braking), single lane change manoeuvre, riding on different kinds of roadway (paving stones, unevenness, etc.) on the ŠKODA polygon. The test was completed by the passage of the water-covered road way. Attachment of the wheel protection on the wheel disc was checked after each partial test. The wheel protection did not change the position of the wheel disc. The tire pressure was checked during the driving test and no change was detected. The manufacturer further gives the evidence the test results of wheel disc tests with the wheel protection according to ECE Regulation No. 124 (Test report No. 1029427 # 2 issued by MIRA Ltd, Warwickshire, England) see Annex 1.

3.2.3 Evaluation – the results comply with Decree of Czech Ministry of Transport No. 341/2014 Coll.

4. Assessment of the delivered documentation and production conformity

The equipment type AG24, made according to the drawing documentation, does not change the technical parameters of the approved vehicle (dimensions, external projections, etc.) in case of observing the installation procedure and positioning of the wheel disc.

Technical Service carried out the assessment of provided documentation and notes that no additional tests are necessary based on the manufacturer documentation.

5. Conclusion

Tested vehicle equipment: exterior plastic and rubber vehicle accessories - protection of cast wheel discs (protection of discs) of make (Trade name of manufacturer) ALLOYGATOR, type AG24. Manufacturer of vehicle accessories is ALLOYGATOR Limited, 61 Heming Road, Washford Industrial Estate Reddich Worcestershire, B98 0EA, England, make (Trade name of manufacturer) ALLOYGATOR, type AG24. Based on the assessment and the performed tests the Technical Service pronounces that the product according to the Brief description of the product

complies with the requirements of Act No. 56/2001 Coll. and Decree of Czech Ministry of Transport No. 341/2014 Coll. as subsequently amended and added with:

- When installing, it is necessary to respect the vehicle manufacturer's instructions for use of vehicle equipment in individual types of vehicle.
- The manufacturer is obliged to provide the products with the prescribed marking according to the model of mandatory marking.
- The manufacturer will supply to the customer the product with complete commercial documentation including assembly instructions

Documentation: All data for the performed tests and assessments are stored in the archive of the TÜV SÜD Czech s.r.o. Prague under the business centre number 5401623.

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7. Distribution list
Výtisk č. 1 Czech Ministry of Transport
Výtisk č. 2 Applicant (ordering party)
Výtisk č. 3 TÜV SÜD Czech s.r.o., Praha

8. Photos



F1 Wheel disc with protection ring AG24
Position of protection ring before test



F2 Wheel disc with protection ring AG24
Position of protection ring after driving test



F3 Wheel disc with protection ring AG24
Position of protection ring before tire pressure measurement

End of report