TÜV Italia s.r.l.
TUV SUD Gruppe
Viale Fulvio Testi 280/6
20126 Milano (MI) - Italia

Telefono: ++39 – (0)2 – 24130 – 1
Telefax: ++39 – (0)2 – 24130 - 395

TECHNICAL REPORT

No. 375 - 0013 - 22 ITA rev.1

Concerning the relationship test on wheel chocks according to norm DIN 76051 "Chocks for motor vehicles, semitrailers and towings"
(Version November 1992)

1. GENERAL DATA

1.1	Make:	LOKHEN
1.1	Type:	600500200 E53 (yellow colour) 610500210 E53 (black colour)
1.3	Drawing n.:	600500200 / 610500210
1.4	Commercial name:	ORIGAMY
1.5	Name and address of the manufacturer:	LOKHEN s.r.l Via Appia Antica km 13,100 Zona Ind. Jesce – 75100 MATERA
1.6	Name and address of the test laboratory:	TÜV Italia s.r.l. TÜV SÜD Gruppe Viale Fulvio Testi 280/6 20126 Milano (MI) - Italia

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2. GENERAL INFORMATIONS

2.1	Type of component:	Wheel Chock
2.2	Denomination of the dimension:	E53
2.2.1	Marking of the chock:	LOKHEN-DIN 76051-E53
2.2.2	Chock according to drawing n.:	600500200 / 610500210
2.3	Main dimensions [mm]:	
	Length front support:	a = 319 ± 2,5 when in open configuration
	Length rear support:	b = 153 ± 2,0 when in open configuration
	Width of the chock:	c = 199 ± 2,5 on rear support; 188 ± 2,5 on the front support when in open configuration
	Height of the chock:	h = 230 ± 2,5 when in open configuration
	Antiskid dull:	Does not use
	Climb strip:	Does not use
	Turning radius of the area of contact with the tire:	r = 560 + 4
	Connection radius of the chock height:	20 ± 1
	Thickness of the walls:	Not applicable
2.4	Making of antiskid dull:	Not applicable
2.5	Making of the handle:	E form
2.6	Making of climb strip:	Does not use

2.7	Material / production procedure:	The material used has to multicellular / tubular shape. Physical- chemical characteristic are attributable to PP Copo CAS N°9010-79-1
2.8	Anti-corrosion measures:	Not applicable on plastic material.

3. TEST CONDITIONS SCHEDULE

3.1 Test description:

The wheel chock test has been executed with a vehicle on a track test with a slope of 18%.

3.2 Vehicle used for the test

Mark:	Iveco
Type:	Eurocargo

3.3	Technic instruments used:	FERVI – Digital caliber
3.4	Place and date of the test:	Matera, 18.11.2022
3.5	Ground track:	Asphalt
3.6	Tyres, static radius:	461,5 mm

3.7 Load wheel on the chock:

Prescribed from DIN:	6.500 kg
Effective load of the test:	6.500 kg

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4. TEST RESULTS

The wheel chock tried, manufactured in material PP Copo CAS N°9010-79-1, has shown a sufficient stability with a wheel load equal to 6.500 kg.

5. APPLICATION FIELD

On motor vehicles, semitrailers and towing with a static wheel load of max. 6.500 kg (axle load 13.000 kg) and with a static radius max. 530 mm.

6. CHOCKS QUANTITY

The number of the wheel chocks that must be found on the vehicle depend on the type of vehicle and the efficiency of the wheel chock in a slope of 18%. Moreover, on two axles vehicles, two wheel chocks must be use. If in doubt it is necessary to carry out a new test in slope condition. The test has been passed with two wheel chock on the axle.

7. ATTACHMENTS

1 - Test photo
2 - Drawing n. 600500200 / 610500210
3 - Manufacturer’s declaration about the materials used on production of wheel chock.

8. NOTES

This report has been extended because the manufacturer has changed the design of wheel chock, increasing the quantity of material in certain areas: that’s why it’s not necessary to repeat the physical test. This report has been updated with drawings of the new design of wheel chock.

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9. FINAL CONFIRMATION

The resistance of the wheel chock is sufficient on condition that the wheel chock corresponds to the tried sample, see points 5 and 6, and the use its applies, accurately, to the exact number of wheel chocks.
Through the execution of the tests contained in the norm it has been demonstrated equivalence between steel material and the material described in this technical report.

This report consists of n.9 pages and attachments

The partial reproduction and the publication of this test report it must be authorized from the Test Laboratory.

Report compiled by:
Eng. Massimo Gustato

Report verified by:
Eng. Pietro Vergani

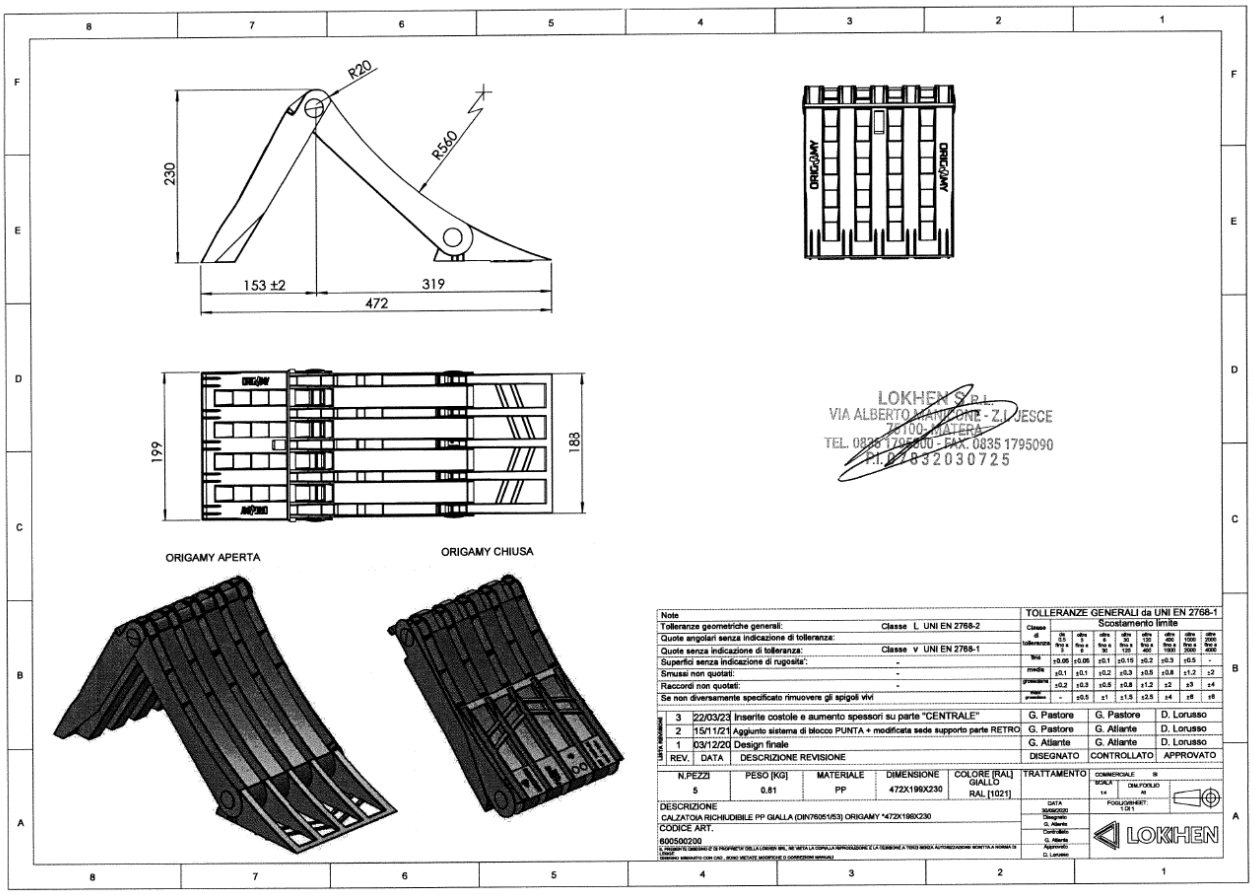
mg Milano, 17 May 2023

ATTACHMENT 1

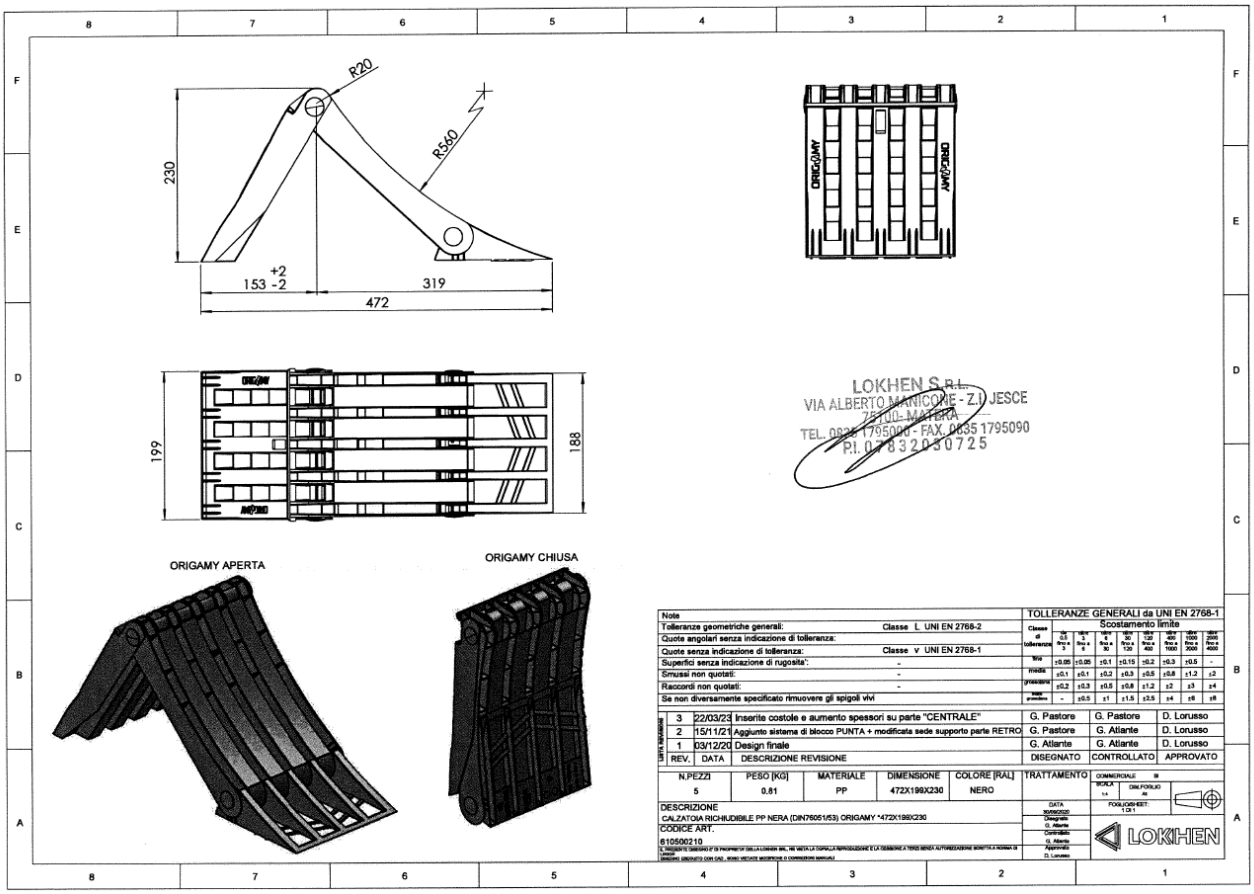
Test photo

ATTACHMENT 2

Drawing n. 600500200



Drawing n. 610500210



ATTACHMENT 3

Manufacturer's Declaration for Materials used to produce the wheel chock

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ITALIA

RELAZIONE MATERIALI

Con la presente la LOKHEN S.r.l. dichiara che il materiale utilizzato per la realizzazione della calzatoia è:

- POLIPROPILENE COPOLIMERO – PP COPO – CAS N°9010-79-1

Matera, 11 MAGGIO 2023

rappresentante legale LOKHEN SRL
DOMENICO LORUSSO

LOKHEN S.R.L.
VIA ALBERTO MANZONE - Z.I. JESCE
75100 - MATERA
TEL. 0835 1795000 - FAX. 0835 1795090
P.I. 07832030725

LOKHEN SRL
ITALY

Legal Headquarters
Via Selva, 101
70022 Altamura (Ba)
Italy

P.Iva 07832030725
Rea Bari 584842
Share Cap € 1.000.000,00 i.v.

Operational Headquarters and Address
Via Appia Antica, Km 13,100
Z.I. Jesce Matera (Mt)
Italy

T +39 0835 1795000
F +39 0835 1795090
M info@lokhen.com

LOKHEN SRL
FILIALE DEUTSCHLAND

Sitz und Postanschrift
Im Altseiterstal, 7
66538 Neunkirchen
DE 30484741

T +49 (0) 6821 9722655
F +49 (0) 6821 9722658
M info@lokhen.com