



Report No.: 375 - 0019 - 20 - ITA
Manufacturer: RECO s.r.l.
Chock type: 70023122 – G46

DIN 76051

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TECHNICAL REPORT

No. 375 - 0019 - 20 - ITA

**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: RECO srl
- 1.1 Type: 70023122 – G46
- 1.3 Drawing n.: 70023122
- 1.4 Commercial name: X Block G46
- 1.5 Name and address of the manufacturer: RECO s.r.l.
Via Olivetti, 9
23875 Osnago (LC)
- 1.6 Name and address of the test laboratory: TÜV Italia s.r.l.
TÜV SÜD Gruppe
Via Carducci, 125 – edificio 23
I-20099 Sesto San Giovanni (MI)

2. GENERAL INFORMATIONS

- 2.1 Type of component: Wheel Chock
- 2.2 Denomination of the dimension: G46
- 2.2.1 Marking of the chock: Not applicable because DIN parameters on measures are not compliant
- 2.2.2 Chock according to drawing n.: 70023122
- 2.3 Main dimensions [mm]:
- Length front support: $a = 400 \pm 5$ referring to total lenght
- Length post. support: $b = 400 \pm 5$ referring to total lenght
- Width of the chock: $c = 187 \pm 5$ on front area when the wheel chock is in standard operation position; 144 ± 5 on front area when the wheel chock is in standard operation position
- Height of the chock: $h = 200 \pm 5$
- Antiskid dull: Not applicable
- Climb strip: No
- Turning radius of the area of contact with the tire: $r = 460 \pm 5$
- Connection radius of the chock height: 19 ± 5
- Thickness of the walls: Not applicable
- 2.4 Making of antiskid dull: Because the wheel chock has a NOT standard design as per DIN, there are no antiskill dull considerable
- 2.5 Making of the handle: G form

- 2.6 Making of climb strip: Not applicable
- 2.7 Material / production procedure: - Plastic material HDPE; iron tube zinc coated EN10305-3
- 2.8 Anti-corrosion measures: Zinc coating of pivot iron tube

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 EURO CARGO 160-250
Type: CARGO
- 3.3 Technic instruments used: FERVI – Digital caliber
- 3.4 Place and date of the test: Missaglia, 08.07.2020
- 3.5 Ground track: Asphalt
- 3.6 Tyres, static radius: 447,5 mm
- 3.7 Load wheel on the chock:
- Prescribed from DIN 5.000 kg
- Effective load of the test 5.465 kg



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4. TEST RESULTS

The wheel chock tried has shown enough stability with a wheel load equal to 5.465 kg. The wheel chock are not compliant with the measure prescribed on DIN 76051 (underlined results of this report), nevertheless it is sufficient stable to pass with positive results the test with static load prescribed on regulation.

5. APPLICATION FIELD

On motor vehicles, semitrailers and towings with a static wheel load of max. 5.000 kg (axle load 10.000 kg) and with a static radius max. 460 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 wheels chocks must be use. If in doubt it is necessary to carry out a new test in slope condition.

7. ATTACHEMENTS

- 1 - Test photo
- 2 - Drawing n. 70023122
- 3 – Statement, by the manufacturer, of the materials used to produce the wheel chock



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8. **FINAL CONFIRMATION**

The resistance of the wheel chocks tested is conform to the requirements of the DIN 76051 standard test. Dimensions and geometry of the wheel chock are not attributable to DIN 76051 standard, then there are not compliant in terms of dimensions.

Annotation:

The number of requirements that the chocks must meet DIN 76051 is tuned to the steel material. Through the execution of the tests in according with the standard was demonstrated the equivalence of the material described in this report.

This report to consist of n.8 pages and attachments

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

A handwritten signature in blue ink, appearing to read 'Massimo Gustato'.

Report compiled by:
Eng. Massimo Gustato

mg Sesto S. Giovanni (MI), 13 July 2020

A handwritten signature in black ink, appearing to read 'Pietro Vergani'.

Report verified by:
Eng. Pietro Vergani

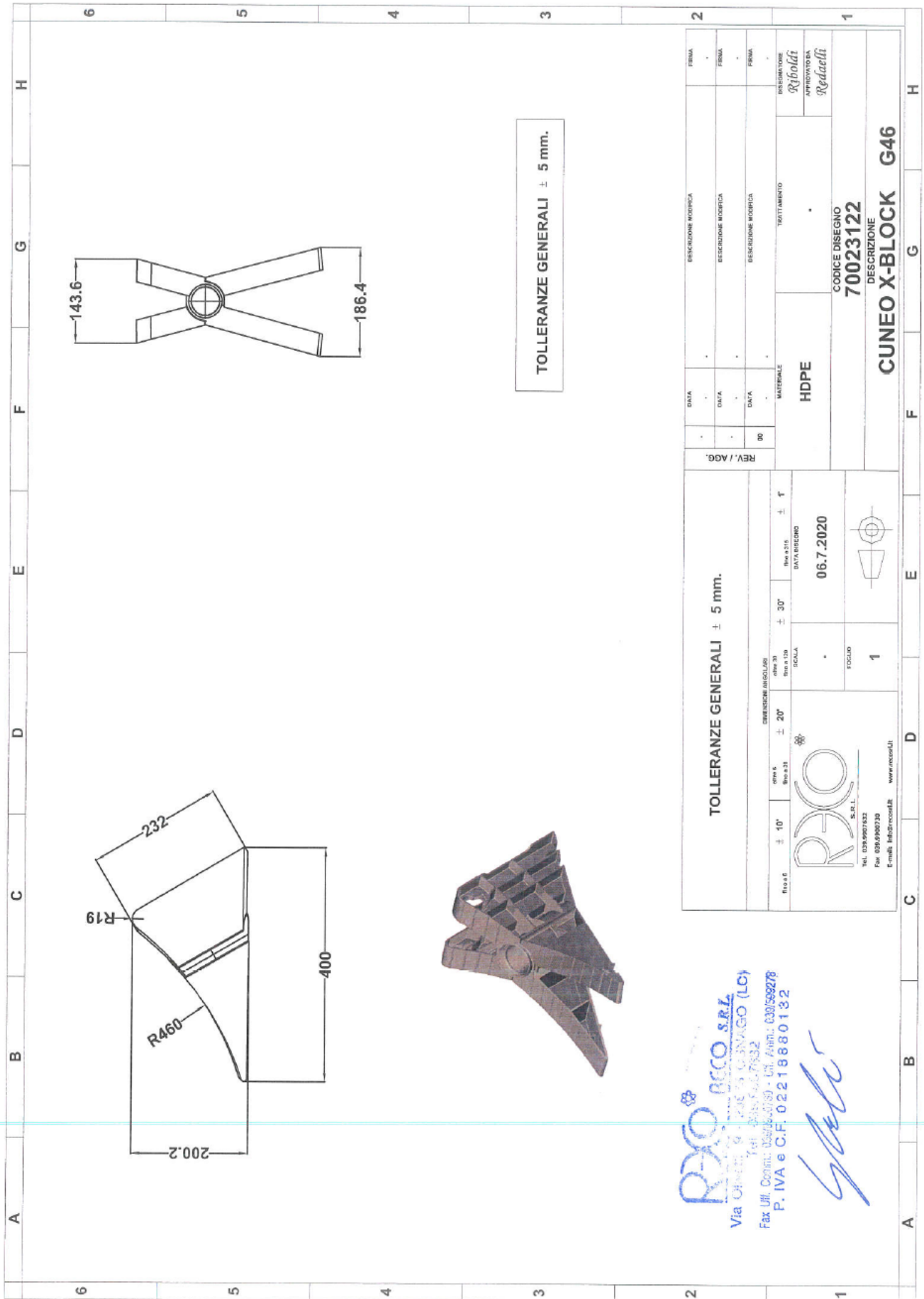
Annex 1

Test photo



Annex 2

Drawing n. 70023122



RACO
 Via Omegna, 10 - 13045 CASALE MONF. (CN)
 Tel. 039/9807832
 Fax 039/980730
 P. IVA e C.F. 02218880132

Handwritten signature

TOLLERANZE GENERALI ± 5 mm.		TOLLERANZE GENERALI ± 5 mm.	
DIMENSIONI ANGOLARI fino a 5° fino a 31° ± 10° fino a 10° fino a 150° ± 30° fino a 215° ± 1°	SCALA 1	DATA DESEGNO 06.7.2020	DATA 00
RACO S.R.L. Tel. 039/9807832 Fax 039/980730 E-mail: info@racosrl.it www.racosrl.it	CODICE DESEGNO 70023122	DESCRIZIONE CUNEO X-BLOCK G46	DESCRIZIONE NUMERICA DESCRIZIONE NUMERICA DESCRIZIONE NUMERICA
MATERIALI HDPE	TRATTAMENTO .	DESCRIZIONE Riformati APPROVATA Redaelli	DATA DATA DATA

Annex 3

Statement of Material used on manufacturing of wheel chock tested



Componenti e tecnologie
per il veicolo industriale



Osnago 8/7/2020

TUV

ING. Gustato Massimo

OGG: test cuneo fermaruota XBlock G46 norma DIN76051

Con riferimento a quanto in oggetto si dichiarano i materiali impiegati per la realizzazione dei cunei XBlock nelle 2 versioni:

Versione 70023122:

Materiale Plastico : HDPE

Tubo metallico : ferro zincato EN10305-3

Versione 70023123:

Materiale Plastico : PA6

Tubo metallico : ferro zincato EN10305-3

Cordialmente

RECO srl

Amministratore Delegato

Ing. Guido Redaelli

A handwritten signature in blue ink, appearing to read 'G. Redaelli'.

RECO s.r.l.

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Componenti e Tecnologie
per il veicolo industriale

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