



Report No.: 375 - 0010 - 18 - ITA  
Manufacturer: RECO s.r.l.  
Chock type: 70023120 – G53

DIN 76051

Page 1/ 5

# TECHNICAL REPORT

## No. 375 - 0010 - 18 - 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: 70023120 – G53
- 1.3 Drawing n.: 70023120
- 1.4 Commercial name: X Block G53
- 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:	G53
2.2.1	Marking of the chock:	<u>Not applicable</u>
2.2.2	Chock according to drawing n.:	70023120
2.3	Main dimensions [mm]:	
	Length front support:	<u>a = 454 ± 5 referring to total lenght</u>
	Length post. support:	<u>b = 454 ± 5 referring to total lenght</u>
	Width of the chock:	<u>c = 220 ± 5 on front area when the wheel chock is in standard operation position</u>
	Height of the chock:	h = 230 ± 5
	Antiskid dull:	<u>Not applicable</u>
	Climb strip:	No
	Turning radius of the area of contact with the tire:	r = 560 ± 5
	Connection radius of the chock height:	<u>Not applicable</u>
	Thickness of the walls:	Not applicable
2.4	Making of antiskid dull:	<u>Because the wheel chock has a NOT standard design as per DIN, there are no antiskill dull considerable</u>
2.5	Making of the handle:	<u>G form</u>
2.6	Making of climb strip:	Not applicable



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Report No.: 375 - 0010 - 18 - ITA  
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DIN 76051

Page 3/ 5

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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: RENAULT

Type: CARGO

3.3 Technic instruments used: MITUTOYO – Digital Protractor  
PRO 360

3.4 Place and date of the test: Missaglia, 27.11.2018

3.5 Ground track: Asphalt

3.6 Tyres, static radius: 509 mm

3.7 Load wheel on the chock:

- Prescribed from DIN 6.500 kg

- Effective load of the test 7.115 kg



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Report No.: 375 - 0010 - 18 - ITA  
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DIN 76051

Page 4/ 5

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#### 4. **TEST RESULTS**

The wheel chock tried has shown enough stability with a wheel load equal to 7.115 kg. The underlined results of this report are not compliant with standard of DIN 76051

#### 5. **APPLICATION FIELD**

On motor vehicles, semitrailers and towings 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.

#### 7. **ATTACHEMENTS**

- 1 - Test photo
- 2 - Drawing n. 70023120
- 3 – Statement, by the manufacturer, of the materials used to produce the wheel chock



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Report No.: 375 - 0010 - 18 - ITA  
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DIN 76051

Page 5/ 5

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## 8. **FINAL CONFIRMATION**

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

### 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.5 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 black ink, appearing to read 'Pietro Vergani', written over a horizontal line.

Recognized expert:  
Ing. Pietro Vergani

pv Sesto S. Giovanni (MI), 28 of November  
2018

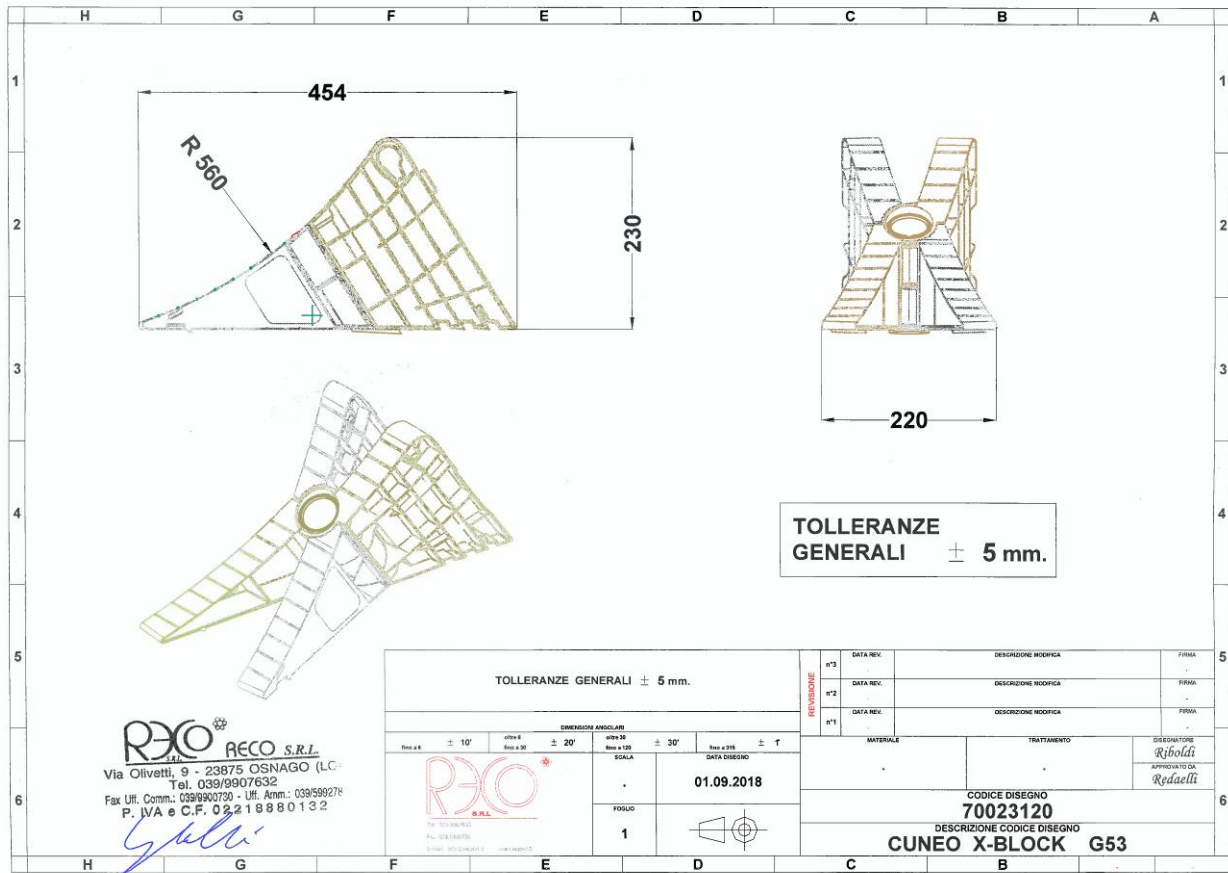
Annex 1

Test photo



Annex 2

Drawing n. 70023120



Annex 3

Statement of Material used on manufacturing of wheel chock tested



Componenti e tecnologie  
per il veicolo industriale



TUV

Ing. Gustato Massimo

OGG: test cuneo fermaruota X-Block secondo DIN76051

Con la presente sono a confermare i materiali utilizzati per la realizzazione del cune denominato X-Block oggetto dell'odierno test:

1. Materiale plastico = HDPE
2. Tubo metallico = ferro zincato EN10305-3

Cordialmente

Ing. Guido Redaelli

Amm. Delegato RECO srl

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**RECO s.r.l.**

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Componenti e Tecnologie  
per il Veicolo Industriale

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