



Report No.: 375 - 0013 - 08 ITA
Manufacturer: **TAKLER s.r.l.**
Chock type: TK 2025-E 53

DIN 76051

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TECHNICAL REPORT

No. 375 -0013 – 08 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: | TAKLER srl |
| 1.1 | Type: | TK2025 E53 |
| 1.3 | Drawing n.: | TK2025 |
| 1.4 | Commercial name: | Not applicable |
| 1.5 | Name and address of the manufacturer: | TAKLER 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
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:	E53
2.2.1	Marking of the chock:	TK2025 E53
2.2.2	Chock according to drawing n.:	TK 2025
2.3	Main dimensions [mm]:	
	Length front support:	$a = 319 \pm 0,5$
	Length post. support:	$b = 151 \pm 0,5$
	Width of the chock:	$c = 201 \pm 0,5$
	Height of the chock:	$h = 230 \pm 0,5$
	Antiskid dull:	All on the chock's length with antiskid support made by steel
	Climb strip:	Not Applicable
	Turning radius of the area of contact with the tire:	$r = 560 \pm 0,8$
	Connection radius of the chock height:	$25 \pm 0,5$
	Thickness of the walls:	Not applicable
2.4	Making of antiskid dull:	All on the chock's width
2.5	Making of the handle:	E form
2.6	Making of climb strip:	Not Applicable



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2.7 Material / production procedure: - Polypropylene. (Moplen RP 440 N)

As alternative:

- Polypropylene (Sabic PP PHC27)
- Polypropylene (Carmel TR 50)
- Polypropylene (Bormod BE961MO)
- Polypropylene (Triplpen TPO2077)

*all materials have executed to multicellular / tubular shape.

**The manufacturer declares that all materials as alternative have the same physical-chemical characteristics (see attachment 3)

2.8 Anti-corrosion measures: Not applicable

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: SCANIA

Type: R 580

3.3 Technic instruments used: MITUTOYO – Digital Protractor
PRO 360

3.4 Place and date of the test: Matera, 02.07.2008

3.5 Ground track: Asphalt

3.6 Tyres, static radius: 535 mm



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3.7 Load wheel on the chock:

Prescribed from DIN: 6.500 kg

Effective load of the test: 7.270 kg

4. **TEST RESULTS**

The wheel chock tried has shown a sufficient stability with a wheel load equal to 7.270 kg

Its antiskid dulls are sufficiently resistant.

Annotation:

The number of requirements that wheel chocks must satisfy according to DIN 76051 refer to steel material. 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.

The results of the tests are much satisfactory.

The same test has been repeated with the alternative polypropylenes material and has given the same results.

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.

7. **ATTACHEMENTS**

1 – Test photo

2 - Drawing n. TK2025

3 – Manufacturer's declaration about the equivalence of that all materials as alternative have the same physical-chemical caratteristics .



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8. **FINAL CONFIRMATION**

The resistance of the wheel chocks 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.

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.

Report compiled by::

Ing. Paolo Guerra

A handwritten signature in blue ink that reads 'Paolo Guerra'.



Report controlled by::

Ing. Pietro Vergani

A handwritten signature in black ink that reads 'Pietro Vergani'.

pg Sesto S. Giovanni (MI), 03 Jul 2008.

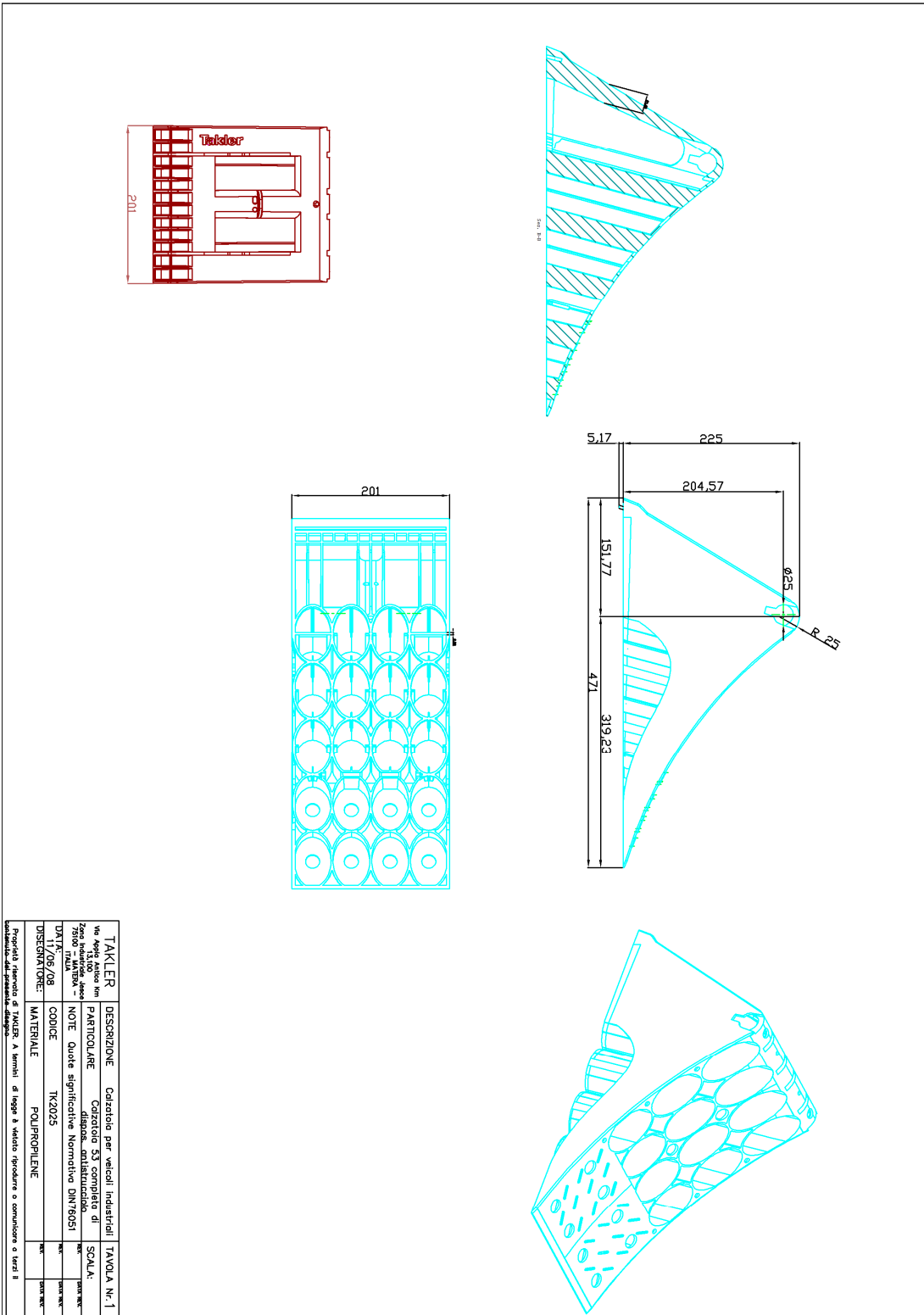
ATTACHMENT 1

Test photo



ATTACHMENT 2

drawing n. TK2025



TAKLER	DESCRIZIONE	Carotatore per veicoli industriali	TAVOLA N. 1
Ve. Agric. Motori Km	PARTICOLARE	Carotatore S3 completo di	SCALE
Zona Industriale Mecc	NOTE	dispositivo antistaticabile	
5910	NOTE	Quote significative Normativa DIN78051	
DATI	DISSEGNAZIONE		
PRODOTTORE	MATERIALE	POLIPROPILENE	
PRODOTTORE			

Proprietà riservata di TAKLER. A termini di legge è vietato riprodurre o comunicare a terzi il contenuto del presente disegno.

ATTACHMENT 3

Manufacturer's Declaration for Materials Equivalence



RELAZIONE MATERIALI

Con la presente la TAKLER srl dichiara che i seguenti materiali:

1. Moplen RP440N;
2. Sabic PP PHC27;
3. Capilene TR 50;
4. Borealis BE961MO;
5. TATREN TPO 20 77;

Sono tra di loro equivalenti in termini di caratteristiche meccaniche e chimiche.
Fanno di fatti parte dei cosiddetti copolimeri ad alto impatto.
Anche dall'analisi delle schede tecniche risulta che le caratteristiche di resistenza, densità sono tra loro simili.

Pertanto le calzatoie prodotte con tali materiali hanno un comportamento simile.

Data: 15/07/2008

Cordiali Saluti

TAKLER s.r.l.
Ufficio Tecnico
Antonio Pellegrino