

THE NETHERLANDS

TEST REPORT

Concerning vehicles equipped with safety-belts, safety-belt reminders, restraint systems, child restraint system, ISOFIX child restraint system and I-size child restraint systems in accordance with ECE Regulation number 16.08 Supplement 3 and as specified by Commission Regulation (EU) 2018/858 Annex II, Part III, Appendix 3.

Test report number : **RDW-16R-0128395**

0.1. **Make** : Peugeot / Citroën / Fiat / Opel / Vauxhall / Toyota

0.2. **Type** : ETP / ETO / ETT / ETN

0.3. **Category of vehicle** : M1

0.4. **Name and address of the manufacturer** : Tripod Mobility B.V.
Collseweg 10
5674 TR Nuenen
The Netherlands

General : The vehicle type as described in the document below has been inspected in accordance with the requirements laid down in the above-mentioned regulation. See documentation: 'ETX-14R-16R-17R-0010', dated 5 May 2023

Tests : The tests have been carried out according to the above-mentioned regulation. The tested system/component/separate technical unit is representative in terms of the type to be approved.

Conclusion : The type of vehicle does/~~does not~~ comply with the stated requirements of the above-mentioned regulation.

Tests conducted on : 19 October 2023

By : S.D. Hulscher

Zoetermeer (NL), 19 October 2023
The test engineer,



S.D. Hulscher



Test Department



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Test report number: RDW-16R-0128395

Reason for testing

Addition of a new lowered floor for electric variant/versions.

Worst case description

Single specification according to the requirement.

General test information

Test conducted by : S.D. Hulscher
Place : Zoetermeer, The Netherlands
Date : 19 October 2023

Used test equipment

Item	Required accuracy	Identification
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Remarks

This report is a supplement of previously issued report RDW-16R-0071705, RDW-16R-0076644 and RDW-16R-0109236

The base vehicle has been modified to a wheelchair accessible vehicle with a lowered floor, additional 3rd row seating positions and wheelchair position. Mountings of 2nd row OEM seats are modified. Alternative of 2nd row are Tripod TR04S single seats, equipped with OEM seatbelts. The single seats are available in fixed mounting or removable mounting for L1 and L2 vehicle body. The wheelchair position is fitted with a restraint system which consists of a restraint system for the wheelchair and a restraint system for the wheelchair occupant. The 1st row of seats is not affected by the changes.

For all not by the modification effected items see approval(s)/ test report(s) listed in stage 1 approval. Relevant data and approval(s) valid for donor vehicle and completed vehicle if applicable:

<u>Make</u>	<u>Type</u>	<u>Approval</u>
Peugeot / Citroën / Fiat	ETP / ETN	E2*16R08/??*18025*??
Opel / Vauxhall	ETO / ETN	E2*16R08/??*18023*??
Toyota	ETT / ETN	E2*16R08/??*19229*??



8. Requirements concerning the installation in the vehicle

8.1. Safety-belt and restraint systems equipment

8.1.1. With the exception of seating intended for use when the vehicle is stationary, all the seats shall be equipped with safety-belts or restraint systems which meet the requirements of this Regulation : pass

Only vehicles belonging to category M2 or M3 may be fitted with restraint systems comprising a flexible shoulder adjustment device for height : N/A

8.1.2. The correct types of safety-belts or restraint systems for each seating position where installation is required shall be those specified below : pass

Minimum requirements for safety-belts and Retractors ⁽¹⁾						
Vehicle category	Forward facing seating positions				Rearward Facing seating positions	Side-facing seating position
	Outboard seating positions		Centre seating position			
	Front	Other than front	Front	Other than front		
M ₁	Ar4m	Ar4m	Ar4m	Ar4m	B, Br3, Br4m	--
M ₂ < 3.5 t	Ar4m, Ar4Nm	Ar4m, Ar4Nm	Ar4m, Ar4Nm	Ar4m, Ar4Nm	Br3, Br4m, Br4Nm	--
M ₂ > 3.5 t	Br3, Br4m, Br4Nm, or Ar4m or Ar4Nm	Br3, Br4m, Br4Nm, or Ar4m or Ar4Nm	Br3, Br4m, Br4Nm or Ar4m or Ar4Nm	Br3, Br4m, Br4Nm or Ar4m or Ar4Nm*	Br3, Br4m, Br4Nm	--
M ₃	Br3, Br4m, Br4Nm, or Ar4m or Ar4Nm	Br3, Br4m, Br4Nm, or Ar4m or Ar4Nm	Br3, Br4m, Br4Nm, or Ar4m or Ar4Nm	Br3, Br4m, Br4Nm, or Ar4m or Ar4Nm	Br3, Br4m, Br4Nm	B, Br3, Br4m, Br4Nm
	See para. 8.1.7. for conditions when a lap belt is permitted	See para 8.1.7. for conditions when a lap belt is permitted	See para. 8.1.7. for conditions when a lap belt is permitted	See para. 8.1.7. for conditions when a lap belt is permitted		
N ₁	Ar4m, Ar4Nm	Ar4m, Ar4Nm, Br4m, Br4Nm Ø	B, Br3, Br4m, Br4Nm or A, Ar4m, Ar4Nm* ¹	B, Br3, Br4m, Br4Nm	B, Br3, Br4m, Br4Nm	--
		Para. 8.1.2.1. lap belt permitted if seat is inboard of a passageway	Para. 8.1.6. lap belt permitted if the windscreen is not in the reference zone			--
N ₂	Br3, Br4m, Br4Nm or Ar4m, Ar4Nm*	B, Br3, Br4m, Br4Nm	B, Br3, Br4m, Br4Nm, or A, Ar4m, Ar4Nm*	B, Br3, Br4m, Br4Nm	B, Br3, Br4m, Br4Nm	--
	Para. 8.1.6. lap belt permitted if the windscreen is outside the reference zone and for the driver's seat		Para. 8.1.6. lap belt permitted if the windscreen is not in the reference zone			
N ₃	Br3, Br4m, Br4Nm or Ar4m, Ar4Nm*	B, Br3, Br4m, Br4Nm	B, Br3, Br4m, Br4Nm, or A, Ar4m, Ar4Nm*	B, Br3, Br4m, Br4Nm	B, Br3, Br4m, Br4Nm	--
	Para. 8.1.6. lap belt permitted if the windscreen is outside the reference zone and for the driver's seat		Para. 8.1.6. lap belt permitted if the windscreen is not in the reference zone			



⁽¹⁾ In all cases all S-type belts may be fitted in place of all possible A or B type belts, provided their anchorages comply with UNECE R14. Where a harness belt has been approved as a S-type belt according to this Regulation, using the lap belt strap, the shoulder belt straps and possibly one or more retractors, one or two additional crotch straps including their attachments for their anchorages may be provided by the manufacturer/applicant. These additional anchorages need not meet the requirements of UNECE R14.

- However, for outboard seating positions, other than front, of vehicles of the category N1 shown above and marked with Ø, the installation of a lap belt of type Br4m or Br4Nm is allowed, where there exists a passage between a seat and the nearest side wall of the vehicle intended to permit access of passengers to other parts of the vehicle : N/A
- 8.1.3. Where no safety-belts are required any type of safety-belt or restraint system conforming to this Regulation may be provided : N/A
- 8.1.4. On three point belts fitted with retractors, one retractor must operate at least on the diagonal strap : pass
- 8.1.5. Except for vehicles of category M1 an emergency locking retractor of type 4N may be permitted instead of a retractor of type 4 where it has been shown to the satisfaction of the services responsible for the tests that the fitting of a type 4 retractor would not be practical : N/A
- 8.1.6. For the front outboard and the front centre seating positions shown in item 8.1.2 and marked with the symbol *, lap belts of the type specified on that annex shall be considered adequate where the windscreen is located outside the reference zone : see 1st stage approval
- 8.1.7. Every seating position in item 8.1.2. above marked with the symbol ●, three-point belts shall be provided unless one of the following conditions is fulfilled, in which case two-point belts may be provided
- 8.1.7.1. - There is a seat or other vehicle parts conforming to paragraph 3.5. of Appendix 1 to Regulation No. 80 directly in front : N/A
- 8.1.7.2. - No part of the vehicle is in or, when the vehicle is in motion, capable of being in the reference zone : N/A
- 8.1.7.3. - Parts of the vehicle within the said reference zone comply with the energy absorbing requirements set out in Appendix 6 of Regulation No. 80 : N/A
- 8.1.7.4. - Items 8.1.7.1. to 8.1.7.3. shall not apply to a driver's seat : N/A
- 8.1.8. The vehicle shall carry information to the effect that it is equipped with frontal protection airbags for seats : see 1st stage approval
- 8.1.9. In the case of seats capable of being turned to or placed in other orientations, designed for use when the vehicle is stationary, the requirements of item 8.1.1. above shall only apply to those orientations designated for normal use when the vehicle is travelling on a road : see 1st stage approval



8.2. General requirements

- 8.2.1. Safety-belts, restraint systems, and ISOFIX child restraint systems as well as i-Size child restraint systems, shall be fixed to anchorages and in case of i-Size child restraint systems, supported by a vehicle floor contact surface, conforming to the specifications of UN Regulation No. 14, such as the design and dimensional characteristics, the number of anchorages, and the strength requirements : pass
- 8.2.2. The safety-belts, restraint systems and child restraint systems recommended by the manufacturer, shall be so installed that they will work satisfactorily and reduce the risk of bodily injury in the event of an accident : pass
- In particular, they shall be so installed that:
- 8.2.2.1. The straps are not liable to assume a dangerous configuration
- Front outboard seat : see 1st stage approval
 - Rear outboard seat : pass
 - Rear centre seat : pass
- 8.2.2.2. That the danger of a correctly positioned belt slipping from the shoulder of a wearer as a result of his/her forward movement is reduced to a minimum
- Front outboard seat : see 1st stage approval
 - Rear outboard seat : pass
 - Rear centre seat : pass
- 8.2.2.3. The risk of the strap deteriorating through contact with sharp parts of the vehicle or seat structure, and child restraint systems, is reduced to a minimum
- Front outboard seat : see 1st stage approval
 - Rear outboard seat : pass
 - Rear centre seat : pass
- 8.2.2.4. The design and installation of every safety-belt provided for each seating position shall be such as to be readily available for use : pass
- Furthermore, where the complete seat or the seat cushion and/or the seat back can be folded to permit access to rear of the vehicle or to goods or luggage compartment, after folding and restoring those seats to the seating position, the safety-belts provided for those seats shall be accessible for use or can be easily recovered from under or behind the seat, by one person, according to instructions in the vehicle users handbook, without the need for that person to have training or practice
- Front outboard seat : see 1st stage approval
 - Rear outboard seat : pass
 - Rear centre seat : pass



8.2.2.5. With the buckle tongue engaged in the buckle:

The possible slack in the belt does not prevent the correct installation of child restraint systems recommended by the manufacturer:

- Front outboard seat : see 1st stage approval
- Rear outboard seat : pass
- Rear centre seat : pass

In the case of three-point belts, a tension of at least 50 N can be established in the lap item of the belt by external application of tension in the diagonal section of the belt, when positioned on a 10-year manikin or gabarit:

- Front outboard seat : see 1st stage approval
- Rear outboard seat : pass
- Rear centre seat : pass



8.3. Special requirements for rigid parts incorporated in safety-belts or restraint systems

8.3.1. Rigid parts, such as the buckles, adjusting devices and attachments, shall not increase the risk of bodily injury to the wearer or to other occupants of the vehicle in the event of an accident

- Front outboard seat : see 1st stage approval
- Rear outboard seat : pass
- Rear centre seat : pass

8.3.2. The device for releasing the buckle shall be clearly visible to the wearer and within his easy reach and shall be so designed that it cannot be opened inadvertently or accidentally. The buckle shall also be located in such a position that it is readily accessible to a rescuer needing to release the wearer in an emergency:

- Front outboard seat : see 1st stage approval
- Rear outboard seat : pass
- Rear centre seat : pass

The buckle shall be so installed that, when not under load and when sustaining the wearer's mass, it is capable of being released by the wearer with a single simple movement of either hand in one direction:

- Front outboard seat : see 1st stage approval
- Rear outboard seat : pass
- Rear centre seat : pass

In the case of a safety-belts or restraint systems for front outboard seating positions, except if these are harness belts, the buckle shall also be capable of being locked in the same manner

: pass

A check shall be made to ensure that, if the buckle is in contact with the wearer, the width of the contact surface is not less than 46 mm:

- Front outboard seat : see 1st stage approval
- Rear outboard seat : pass
- Rear centre seat : pass

A check shall be made to ensure that, if the buckle is in contact with the wearer, the contact surface has the minimum required surface of 20 cm²:

- Front outboard seat : see 1st stage approval
- Rear outboard seat : pass
- Rear centre seat : pass

8.3.3. When the belt is being worn, it shall either adjust automatically to fit the wearer or be so designed that the manual adjusting device is readily accessible to the wearer when seated and is convenient and easy to use

- Front outboard seat : see 1st stage approval
- Rear outboard seat : pass
- Rear centre seat : pass

It shall also be possible for it to be tightened with one hand to suit the build of the wearer and the position of the vehicle seat

- Front outboard seat : see 1st stage approval
- Rear outboard seat : pass
- Rear centre seat : pass



- 8.3.4. Safety-belts or restraint systems incorporating retractors shall be so installed that the retractors are able to operate correctly and stow the strap efficiently : pass
- In case of both a belt adjusting device and a flexible shoulder adjustment device for height, in at least their highest and their lowest position, checks shall be made that the retractor automatically adjusts the strap to the shoulder of the concerned wearer after buckling, as well as that the tongue-plate rolls up in case of an unbuckling : see 1st stage approval
- 8.3.5. In order to inform vehicle user(s) of the provisions made for the transport of children, vehicles of Categories M1, M2, M3 and N1 shall meet the information requirements of Annex 17 : see below
- Any vehicle of Category M1 shall be equipped with ISOFIX positions, in accordance with the relevant prescriptions of UN Regulation No. 14 or UN Regulation No. 145 : pass
- The first ISOFIX position shall allow at least the installation of one out of the three forward-facing fixtures : see 1st stage approval
- The second ISOFIX position shall allow at least the installation of one rear-facing fixture : see 1st stage approval
- For this second ISOFIX position, in case where the installation of the rear-facing fixture is not possible on the second row of seats of the vehicle due to its design, the installation of one fixture is allowed in any position of the vehicle : see 1st stage approval
- 8.3.6. Any i-Size seating position shall allow the installation of the ISOFIX child restraint fixture "ISO/F2X", "ISO/R2", and the support leg installation assessment volume, as well as the booster seat fixture "ISO/B2", without the ISOFIX attachments (see detail B) : see attachment 1
- It shall be possible to occupy all adjacent i-Size seating positions simultaneously. This is deemed to be demonstrated when the vertical median planes of individual adjacent positions are at least 440 mm apart : pass
- 8.4. **Safety-belt reminder equipment** : see 1st stage approval



Annex 17 Requirements for the installation of safety belts and restraints systems for the installation of ISOFIX and I-size Child Restraint System

1. Compatibility with child restraint systems
- 1.1. The vehicle manufacturer shall include in the vehicle handbook, simple advice to the vehicle user on the suitability of each passenger seating position for the fitting of child restraint systems : pass
- This information shall be given by pictograms or in the national language, or at least one of the national languages, of the country in which the vehicle is offered for sale : pass
- For each forward-facing passenger seating position, and for each specified ISOFIX position, the vehicle manufacturer shall indicate:
- (a) If the seating position is suitable for child restraints of the "universal" category ⁽²⁾; and/or : pass
- (b) If the seating position is suitable for i-size child restraint systems ⁽³⁾; and/or : pass
- (c) If the seating position is suitable for child restraint systems other than those specified above ⁽⁴⁾; : pass
- If a seating position is only suitable for use with forward-facing child restraint systems, this shall also be indicated in the vehicle handbook : pass
- In addition to the above information for the vehicle user, the vehicle manufacturers shall make available the information as defined by Appendix 3 of this Annex to this Regulation
- For example:
- This information can be included in separate Annexes of the vehicle handbook
 - In technical descriptions of the vehicle
 - On a dedicated webpage
- The location to access this information shall be provided in the vehicle handbook : pass



⁽²⁾ A child restraint system of the universal category means a child restraint approved to the "universal" category of UNECE R44.03 Suppl. 5 (or subsequent amendments). Positions, which are indicated by the vehicle manufacturer as being suitable for the installation of child restraints systems of the universal category shall comply with the provisions of Appendix 1 and Appendix 5 to this annex.

⁽³⁾ An i-Size child restraint means a child restraint approved to the i-Size category of UNECE R129. Seating positions, which are indicated by the vehicle manufacturer as being suitable for the installation of i-Size child restraints systems shall comply with the provisions of Appendix 2 and Appendix 5 to this annex.

⁽⁴⁾ An ISOFIX child restraint means a child restraint approved UNECE R44.03 Suppl. 5 or to UNECE R129 (or subsequent amendments). Positions, which are indicated by the vehicle manufacturer as being suitable for the installation of ISOFIX child restraints systems shall comply with the provisions of Appendix 2 to this annex.

Attachment 1 Tested seating positions and suitability

Seating position suitable ⁽⁵⁾⁽⁶⁾⁽⁷⁾:

Seat position number	Seating position								
	1	2	3	4	5	6	7	8	9
	OEM								
Seating position suitable for universal belted	see 1 st stage approval								
i-Size seating position									
Seating position suitable for lateral fixture									
Largest suitable rearward facing fixture									
Largest suitable forward facing fixture									
Seating position suitable for universal belted									

Seat position number	Seating position (if fitted)								
	1	2	3	4	5	6	7	8	9
	-			TR04S seat			TriflexAIR seat		
Seating position suitable for universal belted	-			yes	-	yes	yes	-	yes
i-Size seating position				no	-	no	no	-	no
Seating position suitable for lateral fixture				-	-	-	-	-	-
Largest suitable rearward facing fixture				-	-	-	-	-	-
Largest suitable forward facing fixture				-	-	-	F3/F2X	-	F3/F2X
Seating position suitable for universal belted				-	-	-	-	-	-

Seating position number:

Seat number	Position in the vehicle
1	Front left
2	Front centre
3	Front right
4	2 nd row left
5	2 nd row centre
6	2 nd row right
7	3 rd row left
8	3 rd row centre
9	3 rd row right



⁽⁵⁾ Add information for each non i-size seating position compatible with a support leg, as described in this regulation.
⁽⁶⁾ Add information for each seating position equipped with lower ISOFIX anchorages but without Top Tether, according to this regulation.
⁽⁷⁾ Add information if the adult safety belt buckles are located laterally in between both ISOFIX lower anchorages.