

THE NETHERLANDS

TEST REPORT

Concerning vehicles of categories M and N with regard to their anchorages for safety-belts intended for adult occupants of forward-facing or rearward-facing or side-facing seats in accordance with ECE Regulation number 14.09 Supplement 2.

Test report number : RDW-14R-0119807 Cor.01

0.1. Make : Tripod

0.2. Type : TriflexAir seat (modified)

0.3. Category of vehicle : M1 / M2 / M3 / N1 / N2 / N3

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

General : The safety belt anchorages comply with the requirements laid down in the above-mentioned regulation.
See documentation: "TFA-14R-0015", dated 6 September 2022

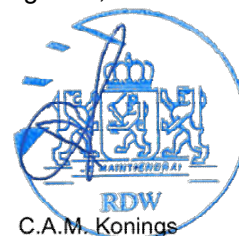
Tests : The tests have been carried out according to the above-mentioned regulation. The tested system/component/separate technical unit is representative in terms of the type to be approved.

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

Tests conducted on : 6 September 2022

By : C.A.M. Konings

Zoetermeer (NL), 6 September 2022
The test engineer,



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Reason for testing

TriflexAir seat with offset plate is tested on a ridged floor to determine the strength of the seat belt anchorage without the influence of the vehicle structure.

Worst case description

N/A

General information of the representative test object

Make and type of the seat : Tripod TriflexAir seat (modified)
Vehicle category : M1 / M2 / M3 / N1 / N2 / N3

General test information

Inspected by : C.A.M. Konings
Place : Tribus, Utrecht (NL)
Date : 6 September 2022

Used test equipment

Item	Required accuracy	Identification
Load transducer 3	± 20 daN	s/n: STS26896
Load transducer 4	± 20 daN	s/n: STS26140
Stringpod	± 0.1 mm	s/n: 2021030158

Remarks

The testresults are only valid in combination with a R14-test of a dummy-seat in a vehicle.



Test results

	Seat
Seat type	TriFlexAir
Mass of seat/bench	21.74 kg
Position of the seat: - longitudinal - vertical	fixed fixed
Number of seat belt anchorage points: - vehicle structure - seat structure	0 3
Belt configuration: - Type - Height adjuster	3-point not applicable
Seatback angle	25°
Vertical distance 'R-point – Upper effective anchorage' before test	735 mm
Angle of tractive force: - lap ⁽¹⁾ - torso ⁽¹³⁾ - seat structure ⁽²⁾	10.0° 9.3° in lap force
Applied force: - lap ⁽³⁾ - torso ⁽⁴⁾ - seat structure ⁽⁵⁾	1828 daN 1346 daN in lap force
Duration of applied force ⁽⁶⁾ : - lap - torso - seat structure	0.2 s 0.2 s 0.2 s
Vertical distance 'R-point – upper effective anchorage' after test ⁽⁷⁾	>450 mm
Distance between lower effective anchorages after test ⁽⁸⁾	>350 mm
Upper effective anchorage displaced forward of plane ⁽⁹⁾	no, 313mm of maximum 357mm -> 44mm left
Displacement and locking devices still operable by hand after test ⁽¹⁰⁾	N/A
Damages to the anchorages and structures supporting load	N/A



⁽¹⁾ Requirement 10 ± 5°

⁽²⁾ Requirement extra force 0 ± 5°

⁽³⁾ A test load of 1350 daN (M1 + N1), 675 daN (except for M3 and N3) and 450 daN (M3 and N3) ± 20 daN shall be applied, in case of a lap belt a test load of 2225 daN (M1 + N1), 1110 daN (except for M3 and N3) and 740 daN (M3 and N3) ± 20 daN shall be applied

⁽⁴⁾ A test load of 1350 daN (M1 + N1), 675 daN (except that for M3 and N3) and 450 daN (M3 and N3) ± 20 daN shall be applied

⁽⁵⁾ A test load of a force equal to 20 times the mass of the relevant parts of the seat assembly shall be applied

⁽⁶⁾ Requirement ≥ 0.2 seconds

⁽⁷⁾ Minimum height: 450 mm above the R-point and in some cases 500 mm, see Regulation

⁽⁸⁾ Minimum 350 mm and 120 mm from median longitudinal plane through the seat

⁽⁹⁾ Only applicable to vehicles of category M₁ with a maximum mass not exceeding 2.5 tonnes; plane passing through the R-point and point C

Applicable to all other vehicles; a transverse plane inclined 10° in forward direction and passing through the R-point

⁽¹⁰⁾ Enabling the occupants of all seats to leave the vehicle

List of diagrams

Diagram 1 Belt anchorage strength test (second row)

