

**TEST REPORT**

concerning the safety-belt anchorages, ISOFIX anchorages systems, ISOFIX top tether anchorages and I-size seating positions in accordance with ECE Regulation 14.07 supplement 7 and as specified by 2007/46/EC Annex XI, Appendix 3.

Test report number : **RDW-14R-0071161**

0.1. Make : Tripod
0.2. Type : PJ2T
02.1. Commercial name (s) : Transit / Tourneo -Connect (Grand) REC,

0.4. Category of vehicle : M1(SH)
0.5. Name and address of the manufacturer : 1st stage:
Ford-Werke GmbH
DE-50725, Köln
Germany

: completed vehicle:
Tripod Mobility B.V.
Collseweg 10
5674TR Nuenen,
The Netherlands

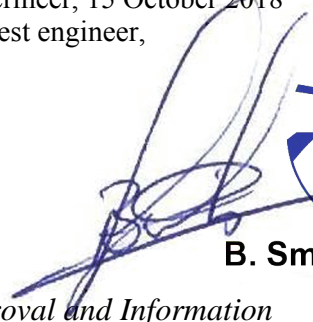

General : The safety-belt anchorages, ISOFIX anchorages systems, ISOFIX top tether anchorages and I-size seating positions comply with the requirements laid down in:
- paragraph 5 of the above-mentioned ECE Regulation.
- as specified by 2007/46/EC Annex XI, Appendix 3
See documentation: PJ2T-14R-16R-17R-0005 dated: 3 July 2018

Tests : The tests have been carried out in accordance with the above-mentioned ECE Regulation and Directive.
See page 2 to 6

Conclusion : The type of vehicle complies with the requirements and there are no objections against approval according to the above-mentioned ECE Regulation and Directive.

Tests conducted on : 4 July 2018
By : B. Smits

Zoetermeer, 15 October 2018
The test engineer,



B. Smits
Vehicle Approval and Information

Test department

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2700 AT Zoetermeer
The Netherlands

Test centre

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8218 NX Lelystad
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List of attached diagrams

Subject	Diagram number
Test of the WTORS anchorages forward with horizontal tractive force, based on a wheelchair mass of 160 kg. placed at the 3 rd seat row.	1239

Reason for testing

Stage 2 modification. Type of bodywork: SH. Wheelchair accessible vehicle. See remarks.

Used test equipment

Item	Identification number (make and type)	Calibration papers available
load cell 1	TRK-06	yes/ not checked
load cell 2	TRK-05	yes/ not checked
load cell 3	TRK 03	yes/ not checked
load cell 4	TRK 04	yes/ not checked

Remarks

This report supplements test report RDW-14R-0059142.

Because of a technical modification in the 1st stage (AdBlue tank) a technical modification is required of the rear beam with the lower rear wheelchair restraints anchorages.

The WTORS restraints forward have been tested again, based on a wheelchair mass of 160 kg.

All other test results remain valid without further testing.

New Unwin WTORS is added to the WVTa.

These WTORS is covered in VCA report: EST393469

Further see information document.

Relevant approval(s) valid for donor vehicle and completed vehicle if applicable:

<u>Make</u>	<u>Type</u>	<u>Approval</u>
Ford	PJ2	E13-14R-079535 ..



General information

Make and type of the vehicle	Ford Tourneo Connect LWB
Vehicle category	M1(SH)(SH)
Test conducted by	B. Smits
Place	Nuenen, the Netherlands
Date	4 July 2018

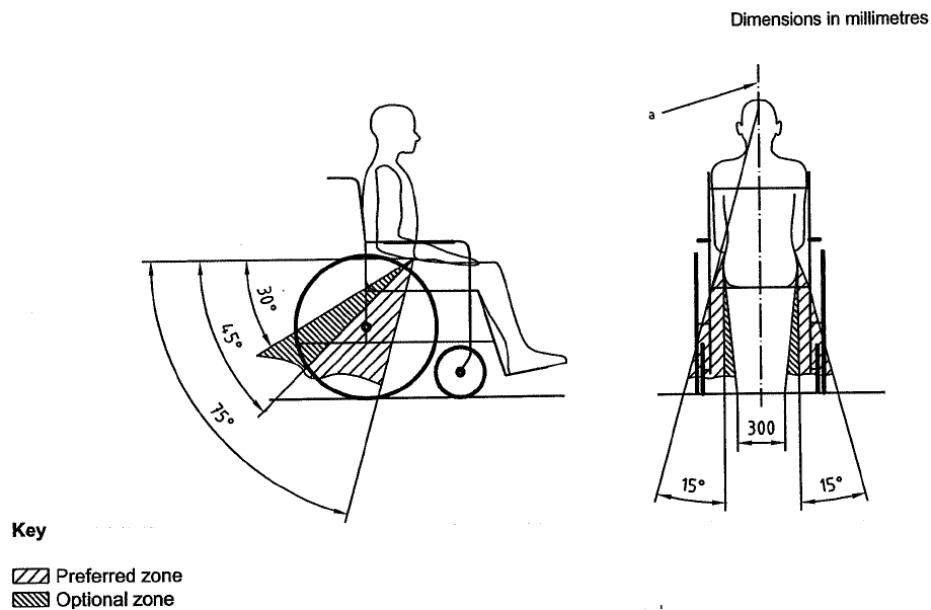
Test of the WTORS anchorages forward with horizontal tractive force, based on a wheelchair mass of 160 kg.

General Requirements:

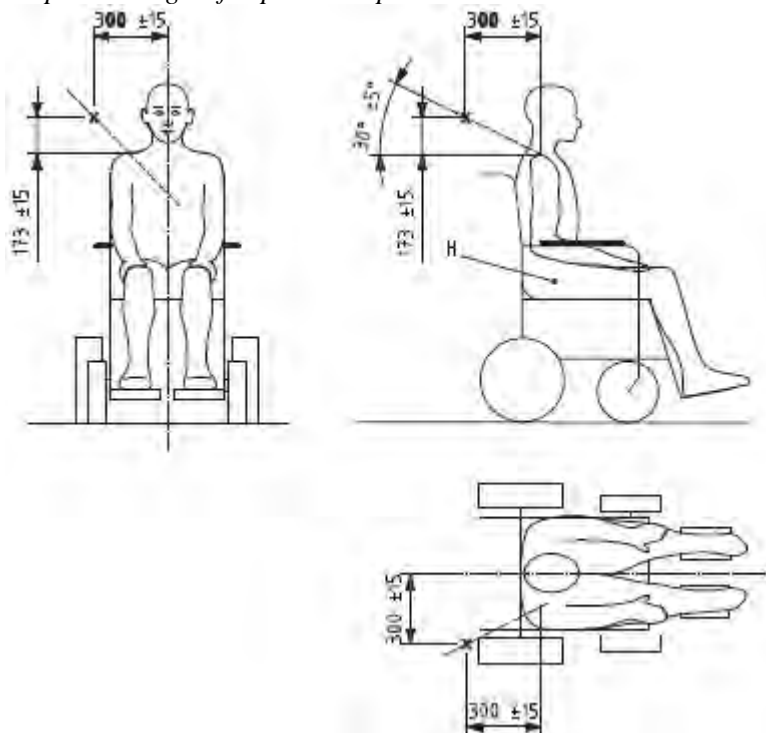
Each wheelchair location shall be fitted with an integrated restraint system which consists of a restraint system for the wheelchair and a restraint system for the wheelchair user.

Anchorage for restraint systems shall resist forces as prescribed in Framework Directive 2007/46/EC Commission Regulation (EU) No 214/2014 Annex XI, ECE Regulation number 14 and Standard ISO 10542-1: 2012.

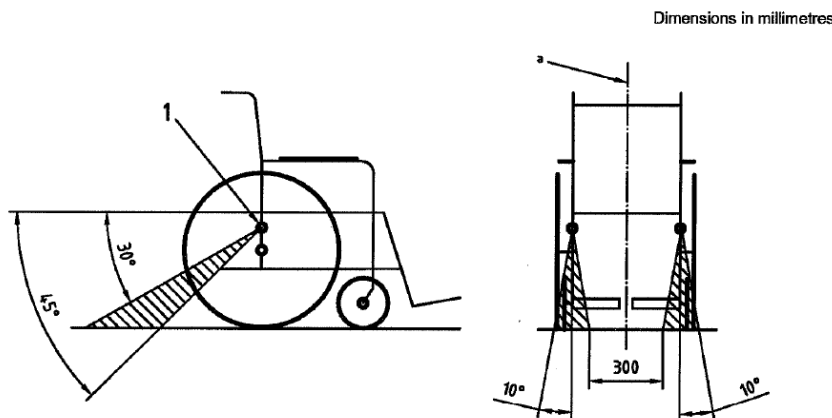
The WTORS (wheelchair tie down and occupant-restraint system) for forward-facing seats, have to fulfil the minimum vehicle-strength recommendations of the WTORS manufacturers.



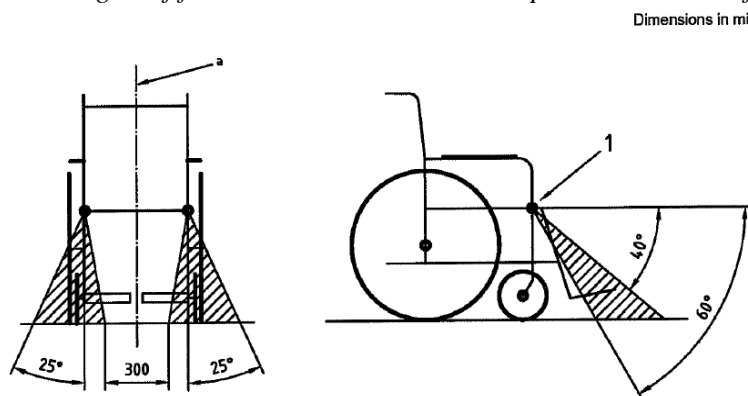
Preferred an optional angles for pelvic / lap restraints



Preferred angles of rear wheelchair-tiedown straps and locations of tiedown anchor points



Preferred angles of front wheelchair-tiedown straps and locations of tiedown anchor points



Test: 3rd row WTORS anchorage forward

Wheelchair type	: ISO 10542 surrogate wheelchair.
Rear wheelchair tie down	: Track anchorages mounted longitudinally
Front wheelchair tie down	: Track anchorages mounted longitudinally
Wheelchair orientation	: Forward facing
Occupant restraint	: Special three point belt for disabled people
Number and location of anchorage points	: 4
Anchorage points located in	: vehicle body, see documentation
Upper belt anchorage	: Strap guide
Position of the belt height adjuster during the test	: fixed
Lap belt device shall be pulled back against the wheelchairs back with the belt strap pulled tight around it	: ok
Torso belt device shall be placed in position with the belt strap pulled tight	: ok
Lapbelt angle of tractive force ($10 \pm 5^\circ$)	: 6°
Torsobelt angle of tractive force ($10 \pm 5^\circ$)	: 6°
Maximum tractive force lap (forward facing)	: Lap belt 1350 ± 20 daN
Maximum tractive force torso (forward facing)	: Torso belt 1350 ± 20 daN
Securing and state of the vehicle	: Fixated with the tensile testing machine.
Side view projected angles of the left lap belt to the horizontal	: see information document



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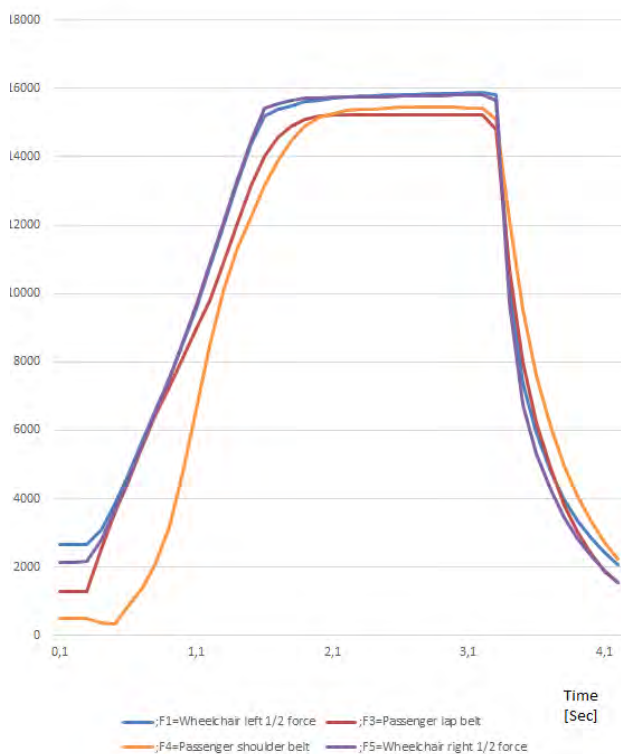
Side view projected angles of the right lap belt to the horizontal : see information document
Rear view projected angles of the left lap belt to the vertical : see information document
Rear view projected angles of the right lap belt to the vertical : see information document
Side view projected angles of the torso belt to the horizontal : see information document
Frontal view projected angles of the torso belt to the horizontal : see information document
Time to reach the required force : 1,1 s
Time to withstand the required force : > 0,2 s
Damage after the test : anchorage points showed no deformation

Test of the wheelchair tie down anchorages:

Anchorage points located in : lowered floor
Wheelchair orientation : forward facing
Rear wheelchair tie down : track anchorages mounted longitudinally
Front wheelchair tie down : track anchorages mounted longitudinally
Wheelchair restraint points : rear and front
Side view, rear tiedown strap angle : see information document
Rear view, rear tiedown strap angle : see information document
Side view, front tiedown strap angle : see information document
Frontal view, front tiedown strap angle : see information document
Maximum tractive force (forward facing) : 3139,2 daN (2x hydraulic cylinders)
Surrogate wheelchair angle of tractive force : 2°
Time to reach the required force : 1,1 s
Time to withstand the required force : > 0,2 s
Diagram numbers : 1239
Damage after the test : anchorage points showed no deformation
lowered floor showed light deformation

Remarks

Force [N] Ford Tourneo Connect (Grand), B_1239_T~0, Wheelchair
3rd row and passenger restraints, 4-7-2018 11:56:59



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Photo's
pre test



Post test

