Vehicle Occupant Safety Centre

Seat Belt Anchorage Test Summary

A seat belt anchorage pull test was conducted to category M1 on the seat belt anchorages of the seat specified below, to the requirements of ECE Regulation 14.09 & EC Directive 76/115/EEC as Amended by 2005/41/EC Seat Belt Anchorage. The seat and seat belt anchorages met the load requirements of ECE Regulation 14.09 & EC Directive 76/115/EEC as Amended by 2005/41/EC Seat Belt Anchorage. The test was conducted at Vehicle Occupant Safety Centre's test facility as below.

Customer	**DS Campers.**
Model	**DS Campers Swivel Mechanism Extreme Flat Model fitted to a Ford Transit Custom 1st Generation OEM Double Passenger Seat**
Test	**ECE Regulation 14.09 & Directive 76/115/EEC as Amended by 2005/41/EC Seat Belt Anchorage Test.**
Test Number	**VO00579**
Pull Type	**M1**
Leg Type	**OEM Box Leg.**
Floor Type	**Fixed to a Steel Plate Structure.**
Leg Span	**n/a.**
Seat Mass	**70 kg.**
Seat Belt Type	**3 Point.**

This report relates to the performance of the DS Campers Swivel Mechanism Extreme Flat Model Ford Transit Custom 1st Generation OEM Passenger Double Seat, as tested on a surrogate vehicle floor.
No part of this report may be amended, modified or changed in any way, unless by Vehicle Occupant Safety Centre Limited. Unauthorised amendment will render this report invalid.
Documents without signature and watermark are invalid.
All component details supplied by DS Campers.

Date: 24th March 2025

Russell Edmunds
Engineering & Technical Director

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Vehicle Occupant Safety Centre Limited
The Science Centre, Wolverhampton Science Park, Glaisher Drive, Wolverhampton, WV10 9RU
Company Reg No. 11278111

Vehicle Occupant Safety Centre

Test Report

Customer	DS Campers.
Test	ECE Regulation 14.09 & EC Directive 76/115/EEC as Amended by 2005/41/EC Seat Belt Anchorage Test.
Test Number	VO00579
VOSC Report Number	VOSC0215 Revision 0

Vehicle Occupant Safety Centre

Author: R. Edmunds
Engineering & Technical Director

Date: 24th March 2025

Test Report

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Test Report

Executive Summary

This Report provides details of a seat belt anchorage test conducted to ECE Regulation 14.09 & EC Directive 76/115/EEC as Amended by 2005/41/EC. The test was performed on a steel plate structure (i.e. not in vehicle) The seat tested was the Ford Transit Custom 1st Generation OEM Double Passenger Seat with a DS Campers Swivel Mechanism Extreme Flat Model, fitted to the steel plate. All anchorages supplied by seating Manufacturer and Surrogate B Pillar. The Test was performed to M1 standards at Vosc on 24th March 2025

The Seating System met the requirements of Regulation 14.09. Results of the tests conducted can be found within the main body of the report.

Distribution

Organisation	Recipient	Format	Qty
DS Campers 37 Millbrook Street Hereford HR4 9LF 01432 267007	David Madejski	PDF	1
Vehicle Occupant Safety Centre Ltd The Science Centre, Wolverhampton Science Park, Glaisher Drive, Wolverhampton, West Midlands WV10 9RU	Contract File	PDF	1

Report Revision History

Rev.	Revision Description	Date	Author	Approver	Pages
0	Initial Release	17th April 2025	R. Edmunds	R. Edmunds	All

Test Report

Objectives

1. To Conduct one seatbelt anchorage pull test, to the M1 requirements of ECE Regulation 14.09 & EC Directive 76/115/EEC as Amended by 2005/41/EC. The test was performed on a steel plate structure (i.e. not in vehicle) The seat tested was the Ford Transit Custom 1st Generation OEM Double Passenger Seat with a DS Campers Swivel Mechanism Extreme Flat Model, all anchorages supplied by seating Manufacturer and Surrogate B Pillar.

2. To provide a photographic record of the tests.

Test Facility and Date

The test, numbers VO00579 was performed on 24th March 2025 in the test facility at Vehicle Occupant Safety Centre Limited.

Address: Vehicle Occupant Safety Centre Limited
The Science Centre,
Wolverhampton Science Park,
Glaisher Drive,
Wolverhampton,
West Midlands
WV10 9RU

Contact: R Edmunds – Engineering & Technical Director
Tel: 01902 287030
Email: engineering@voscentre.com

VCA Appraisal: Registration Number, FAUK062 VXW529695

Test Report

Summary of Results

SEAT TYPE Ford Transit Custom **1st** Generation Double Passenger with Swivel 70kg	VO00579	LOAD CELL No.	RAM Angle	LOAD CELL CAL DUE DATE	REQUIRED LOAD (KN)	PEAK LOAD (KN)	TIME TO LOAD (sec)	HOLD TIME (sec)	UPPER DISPLACEMENT (mm)
OEM Double Passenger Swivel 35kg	LH Torso Load	5	9.3	17/07/2025	13.5	13.75	4.365	0.307	n/a
	LH Lap Load	4	10.3	17/07/2025	13.5	14.01	4.138	0.546	
	LH COG	2	12.1	09/03/2026	6.1	7.2	4.123	0.631	
	RH Torso Load	1	9.8	09/03/2026	13.5	13.97	4.295	0.453	259
	RH Lap Load	8	10	17/07/2025	13.5	13.94	4.225	0.483	
	RH COG	10	9.5	17/07/2025	6.1	7.53	4.168	0.859	

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Conclusions

1. One seatbelt anchorages pull tests to the M1 Requirements of ECE Regulation 14.09. & EC Directive 76/115/EEC as Amended by 2005/41/EC. Were conducted on a steel plate structure (i.e. not in vehicle) on the seatbelts, the seats and seatbelt anchorages met the 100% load requirements of ECE Regulation 14.09.

2. Photographic stills can be found on pages.

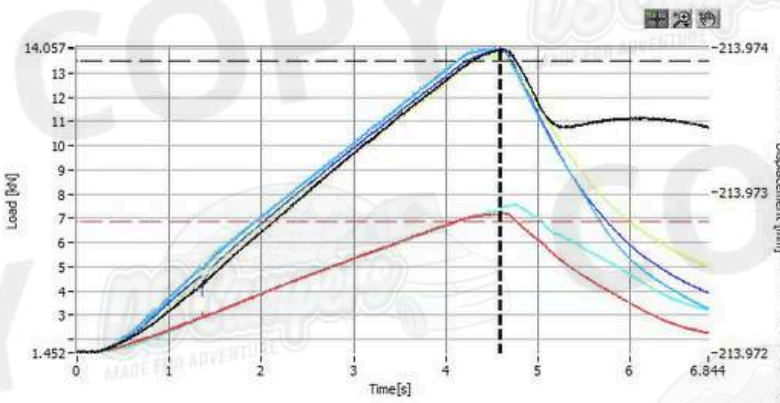
3. Test Graph – Page 8

4. Pre Test – page 9 - 11

5. Post Test – Page 12 - 14

Test Report

Test Title VO00579
Description M1 Ford Transit Custom 1st Gen OEM Dbl Pass DS Campers Swivel Mechanism
Date 24/03/2025 10:17:51



			Target
Cursor Time (s)		4.585	
Overlay Target Loads			
Load 1		13.94	13.50
Load 2		7.17	6.87
Load 3		0.22	0.00
Load 4		13.98	13.50
Load 5		13.74	13.50
Load 6		0.04	0.00
Load 7		0.26	0.00
Load 8		13.94	13.50
Load 9		0.62	0.00
Load 10		7.34	6.87
Pot 1 (200813234350)		195.78	0.00
Pot 2 (200813234351)		29.08	0.00
Pot 3 (200813234349)		27.97	0.00
Pot 4 (200813234354)		27.68	0.00
		28.07	0.00
		27.43	0.00

Dynamic displacement (mm)
Show dynamic displacement for
Pot 1
Pot 1

Angular displacement (degrees)
Show angular displacement between
Pot 1 and Pot 1
and between
Pot 1 and Pot 1
Point separation (mm) 250

Displacement offsets (mm)

0
0
0
0
0
0

Shunt cal data

Load cell	Error %	Tolerance %	Pass/Fail

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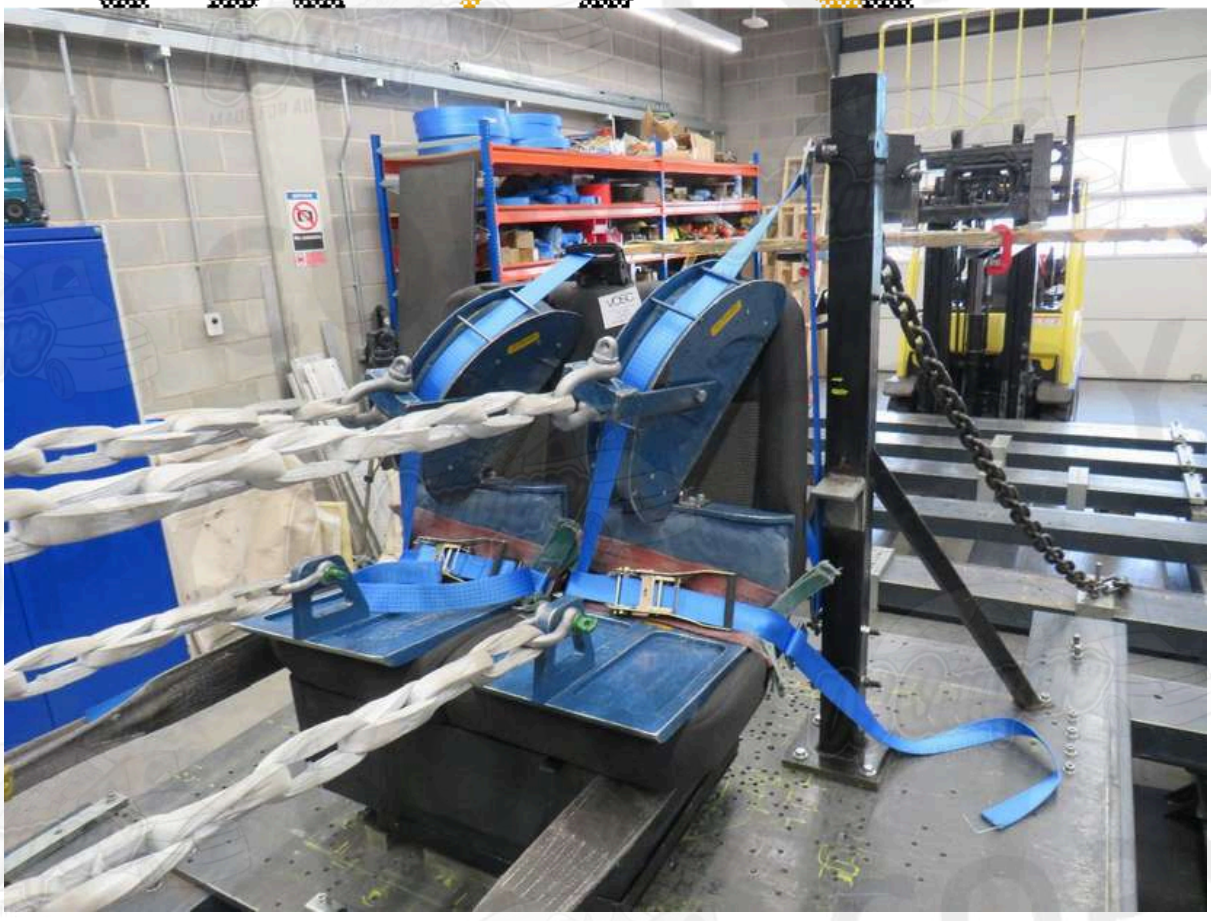
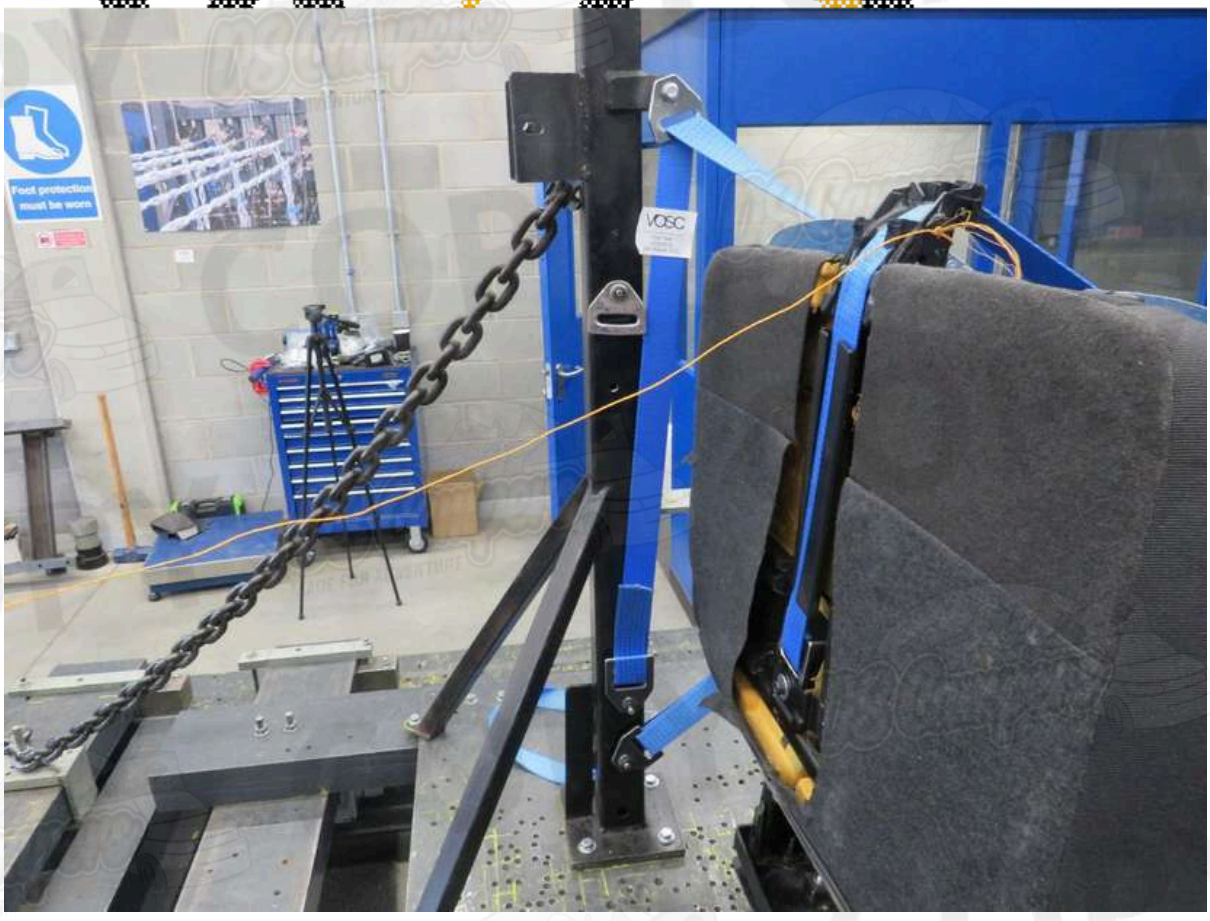



VOSC


VOSC


VOSC


Foot protection must be worn
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VOSC
Post Test
VO00579
24th March 2025


VOSC
Post Test
VO00579
24th March 2025