

Technical Report No.: 120516 – 17 – TAC
Test method: ECE R14.07
Manufacturer / Order party: OKB JANKOWSKI GOLIŃSKI SP. J., Poland
Product under test: SAF04

**TECHNICAL REPORT
No. 120516 – 17 – TAC**

Test according to
ECE Regulation No. 14.07
**Uniform provisions concerning the approval of vehicles
with regard to safety-belt anchorages**

Test method: ECE Regulation No. 14.00 of 1970-04-01
including all amendments up to and including: ECE Regulation No. 14.07, supplement 6
of 2016-01-20

Objectives: Document for manufacturer

I. Technical data

- 0.1.1. Order party: OKB JANKOWSKI GOLIŃSKI SP. J.
ul. Rokicińska 108/110 Bukowiec
95-006 Brójce
Poland
- 0.1.2. Manufacturer: OKB JANKOWSKI GOLIŃSKI SP. J.
ul. Rokicińska 108/110 Bukowiec
95-006 Brójce
Poland
- 0.2. Product under test: Frame for installation of seats in camper vans
equipped with safety belt anchorages and
ISOFIX anchorages
- 0.2.1. Make: OKBee
- 0.2.2. Type: SAF04
- 0.2.3. Commercial name: OKBeeSAFE 04
- 0.2.4. Category of vehicle for which is device
intended: M1
- 0.3. Test required: Strength test of safety belts anchorages
according to ECE Regulation No. 14

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II. Test report

1. Test conditions

1.1. Test sample: Frames SAF04 mounted in vehicle body or on rigid test rig.

1.1.1. Table of vehicles types for which are test results valid:

Manufacturer / <i>Producent</i>	Commercial description / <i>Nazwa handlowa</i>	Wheelbase / <i>Rozstaw osi</i>
Daimler	Sprinter (906)	3250, 3665, 4325
	Vito/Viano (639)	3200, 3430
VW	Crafter (2E_)	3250, 3665, 4325
	Crafter (SYN1E)	3640, 4490
	T5 (7H_, 7E_)	3000, 3400
	T6 (7H_, 7E_, 7J_)	3000, 3400
Citroen	Jumper (Y)	3000, 3450, 4035
	Jumpy (X)	3000, 3122
Peugeot	Boxer (Y)	3000, 3450, 4035
	Expert (VF3_)	3000, 3122
Fiat	Ducato (250)	3000, 3450, 4035
	Scudo (270)	3000, 3122
	Talento (FJL, FFL)	3098, 3498
Opel	Movano (MR, MS, MW)	3182, 3682, 4332
	Vivaro (F7)	3098, 3498
Renault	Master (FV)	3182, 3682, 4332
	Trafic (FL, L)	3098, 3498
	Trafic 2014 (L)	3098, 3498
Ford	Transit (FA_, FD_)	2933, 3300, 3750
	Transit (FC_)	3300, 3750, 3954
	Transit Custom (FA_, FC_)	2933, 3300
Iveco	Daily	3000, 3300, 3520, 3950, 4100, 4750
Nissan	NV200	2725
	NV300	3098, 3498
	NV400	3182, 3682, 4332
Toyota	Pro Ace 2016	2925, 3275

1.2. Test procedures used: According to procedure of checking of number, geometry and strength of safety belt anchorages according to ECE 14.07, par. 5,6,7 and Annexes 3-6,9

- 1.3. Measuring and test equipment:
- Digital ballance
 - Electrohydraulic test device and respective fixtures
 - Force measuring chain with load cells
 - Tape rule
- 1.5. Test track or site: Test laboratory OKB,
Bukowiec, Poland and test laboratory PIMOT,
Warszawa, Poland

2. Test results

The below mentioned test results cover all the variants including the maximum mass stated in the enclosed information documents.

Geometrical requirements are fulfilled; all the seat belts are provided on seat frame.

2.1. Safety belt anchorages

2.1.1. Frame SAF04 mounted on rigid test rig OKBeeRAIL01.

Mass of the frame $m_s = 60$ kg.

Additional force applied $F_z = 20 \times m_s \times g$ (N) as relevant to M1.

Seat	Forward facing	
	L	R
Safety belt	Ar	
Upper belt anchorage	Frame structure	
Lower belt anchorages	Frame structure	
Required force shoulder belt portion	13 500 ±200 N	13 500 ±200 N
Required force lab belt portion	19 500 ±200 N	19 500 ±200 N
Force in the shoulder belt	13 500 N	14 000 N
Force in the lap belt	19 500 N	19 500 N
Remark: No ruptures occurred. Additional force is added to lap belt portion.		

2.1.2. Frame SAF04 mounted on rigid test rig OKBeeRAIL04.

Mass of the frame $m_s = 60$ kg.Additional force applied $F_z = 20 \times m_s \times g$ (N) as relevant to M1.

Seat	Forward facing	
	L	R
Safety belt	Ar	
Upper belt anchorage	Frame structure	
Lower belt anchorages	Frame structure	
Required force shoulder belt portion	13 500 $\pm$ 200 N	13 500 $\pm$ 200 N
Required force lab belt portion	19 500 $\pm$ 200 N	19 500 $\pm$ 200 N
Force in the shoulder belt	13 800 N	13 800 N
Force in the lap belt	20 000 N	20 000 N
Remark: No ruptures occurred. Additional force is added to lap belt portion.		

2.2. ISOFIX anchorages.

2.2.1. ISOFIX anchorages on frame SAF04 mounted on rigid test rig, forward direction

Seat	Forward facing	
	L	R
ISOFIX anchorage	Frame structure	
Required force	8 000 N	8 000 N
Measured force	8 200 N	8 500 N
Displacement of X point SFAD device		
Required	<125 mm	<125 mm
Measured	40	40
Remark: No ruptures occurred.		

2.2.2. ISOFIX anchorages on frame SAF04 mounted on rigid test rig, oblique direction

Seat	Forward facing	
	L	R
ISOFIX anchorage	Frame structure	
Required force	5 000 N	5 000 N
Measured force	5 400 N	5 400 N
Displacement of X point SFAD device		
Required	<125 mm	<125 mm
Measured	33	35
Remark: No ruptures occurred. Additional force is added to lap belt portion.		

2.3. ISOFIX and Top Tether anchorages

2.3.1. ISOFIX and Top Tether anchorages on frame SAF04 mounted on rigid test rig, forward direction

Seat	Forward facing	
	L	R
ISOFIX anchorage	Frame structure	
Required force	8 000 N	8 000 N
Measured force	8 200 N	8 200 N
Displacement of X point SFAD device		
Required	<125 mm	<125 mm
Measured	45	50
Remark: No ruptures occurred.		

3. Specimen submitted to test on: 2015-05-04

4. Date of test: 2015-05-04 and 2015-06-08



III. Other documentation

Graphs: pages 7 – 9

IV. Attachments

No attachments

Measuring and test equipment and test site meet the requirements of the applicable legislation.
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V. Final assessment

The described sample

complies

with the requirements of ECE Regulation No. 14.07

This technical report consists of pages No. 1 to 9.


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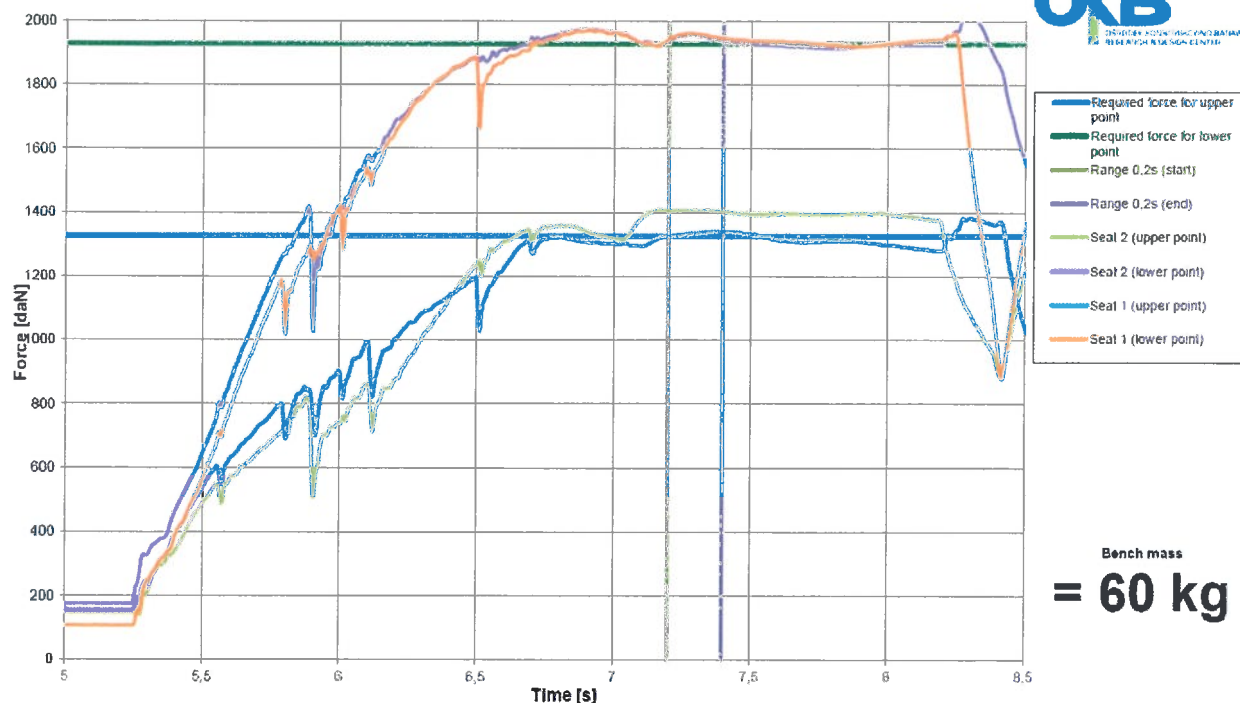
Prague, 2017-04-20

Graphs:

Test of anchorages points on frame SAF04 (OKBeeRAIL01)

Date:
04.05.2015

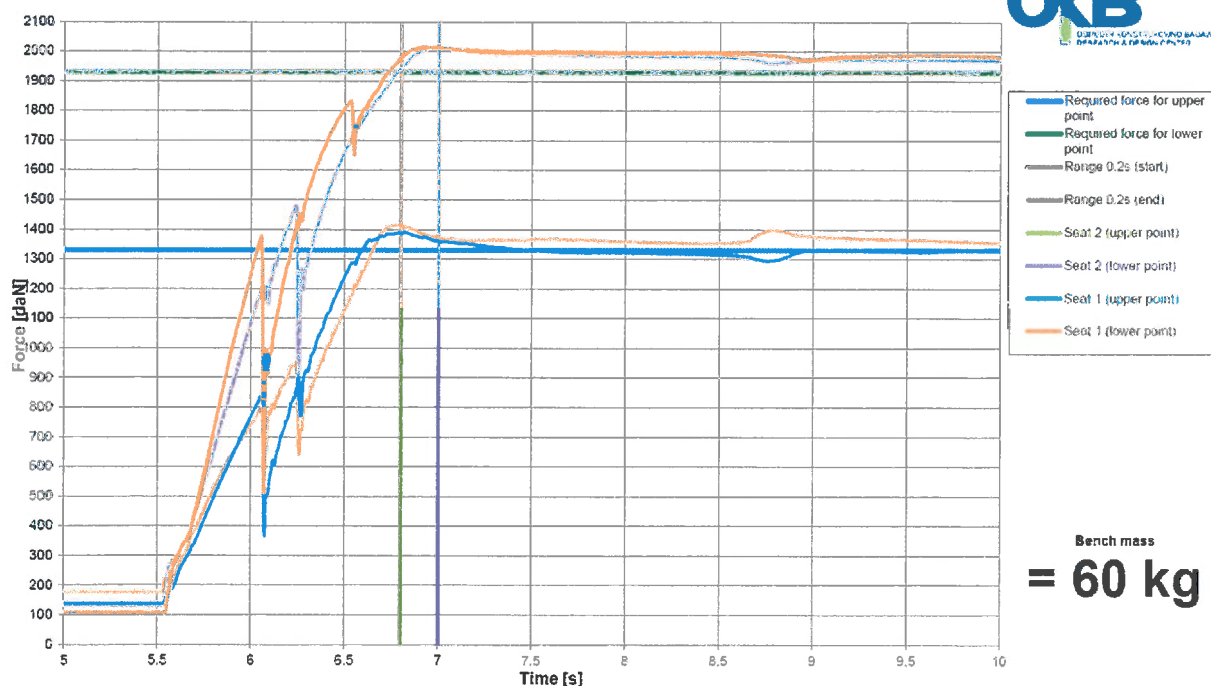
OKBeeSafe 04 with OKBeeRAIL 01



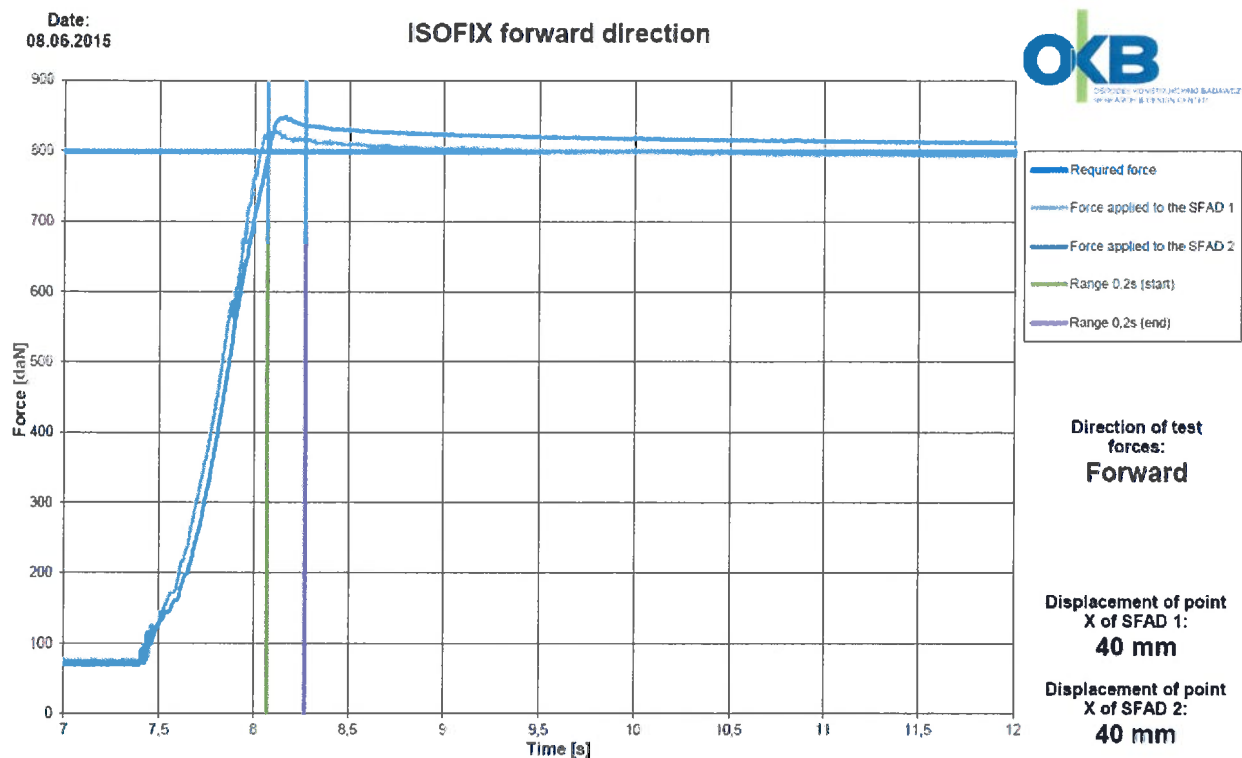
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Date:
04.05.2015

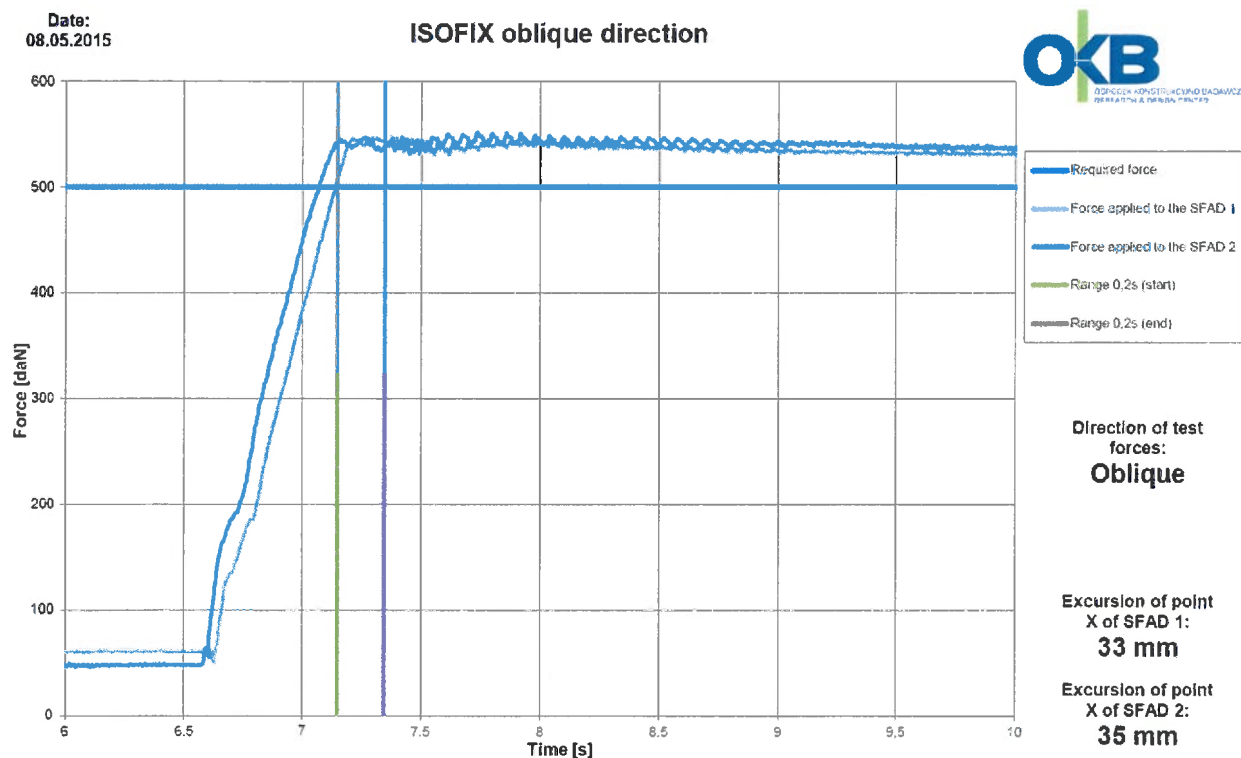
OKBeeSafe 04 with OKBeeRAIL 04



Tests of ISOFIX anchorages on frame SAF04, front



Test of ISOFIX anchorages on frame SAF04, oblique



Technical Report No.:

Test method:

Manufacturer / Order party:

Product under test:

TÜV SÜD Czech s.r.o.

120516 – 17 – TAC

ECE R14.07

OKB JANKOWSKI GOLIŃSKI SP. J., Poland

SAF04



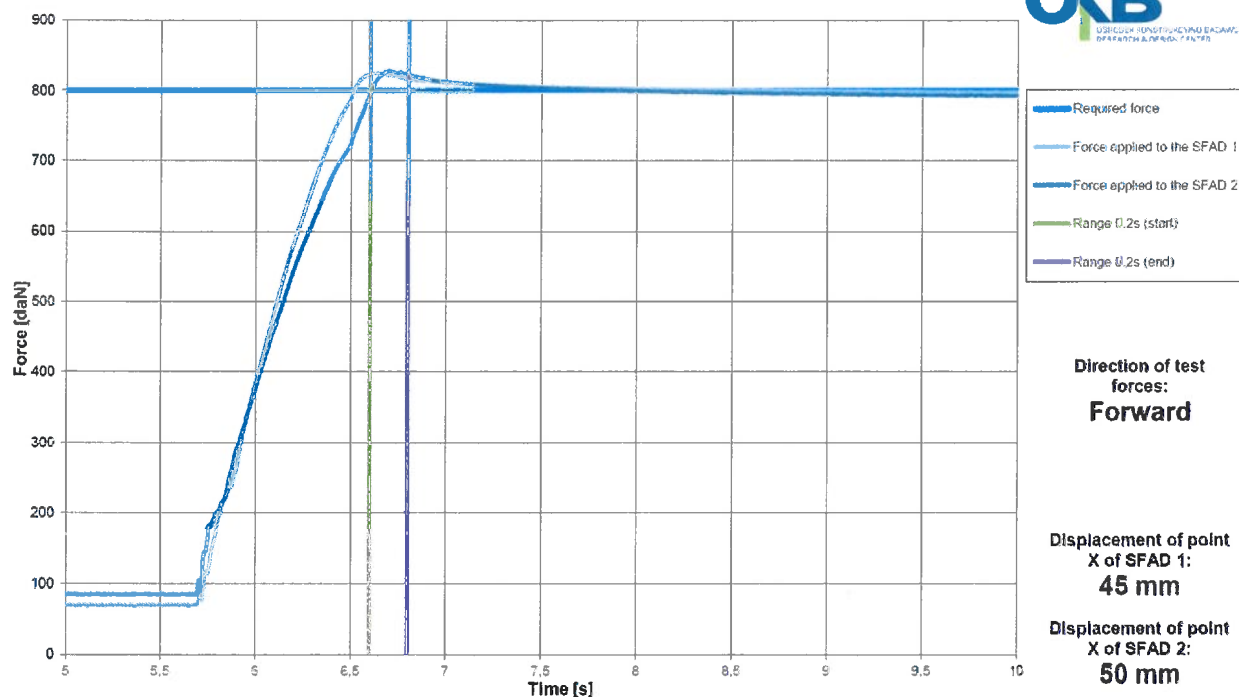
Czech

9/9

Test of ISOFIX and Top Tether anchorages on frame SAF04, front

Date:
08.06.2015

ISOFIX with top tether forward



End of the technical report