Type:

15-00056-CP-PRG-01

INTAP ADVANCED TECHNOLOGY Sp. z o.o. Sp. k.,

Poland

TAXI



Test report

No.: 15-00056-CP-PRG-01

Test of seat with regard to Directive / Regulation (EC/EU) / Regulation No. ECE R17 taking into consideration amendment No. 08, Supplement 4

taking into consideration amendme	ent No. 06, Supplement 4
Approval subject: Seats, their anchora	ages and any head restraints
Approval subject. Seats, their anchors	%
	OF CERTIFICA
Approval st	atus
Granting of a type approval	N/A
Extension/correction to type approval no.	N/A



Test report No.:

15-00056-CP-PRG-01

Manufacturer:

INTAP ADVANCED TECHNOLOGY Sp. z o.o. Sp. k.,

Poland TAXI

Type:



0. Reasons of extension

- Change of manufacturer name

- Addition of new Intap seats and legs

- Editorial changes

I. General

Make:

INTAP

Type:

TAXI

Commercial name(s) (ff available):

S1TAX01

S1TAX02

S1TAX03

S1TAX06

S1TAX08

S1TAX09

S1FAX10

S1TAX11

S1TAX12

Category of vehicle:

M1, N1, N2, N

Name and address of manufacturer:

INTAP ADVANCED TECHNOLOGY Sp. z

o.o. Sp. k.

Rokicińska 1110/112

95-006 Bukowiec

Poland

Name and address of representative:

N/A

Reference number of information folder:

TAX/01/2019

Date of issue of information folder:

05.04.2019



15-00056-CP-PRG-01

INTAP ADVANCED TECHNOLOGY Sp. z o.o. Sp. k.,

Poland

Type:

TAXI



II. Test results

Refer to the Annex

III. Enclosures

Information Folder

IV. Statement of conformity

The mentioned information folder and the type described therein are in accordance with the test basis mentioned above. The worst-case was selected in accordance with document "Requirements for Test Reports (AS-PB-T-02)".

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TÜV SÜD Auto Service GmbH is designated as Technical Service by:

Genehmigungsbehörde Approval authority	Land Country	Registriernummer Registration number
Kraftfahrt-Bundesamt (KBA)	Deutschland Germany	KBA-P 00100-10
Vehicle Certification Agency (VCA)	Vereinigtes Königreich United Kingdom	VCA-TS-006
Approval Authority of the Netherlands (RDW)	Niederlande The Netherlands	RDWT-082-xx
National Standards Authority of Ireland (NSAI)	Irland Ireland	Technical Service Number: 49
Société Nationale de Certification et d'Homologation s.à r.l.	Luxemburg Luxembourg	B27180 1

Munich, 06.06.2019

Auto Service

ng. Martin Hron Authorized signatory

15-00056-CP-PRG-01

INTAP ADVANCED TECHNOLOGY Sp. z o.o. Sp. k.,

Poland

Type:

TAXI



Annex

Test report

1. Technical data of the test sample

Seat(s) designated for use only when

the vehicle is stationary:

The Taxi Tip and Fold, Taxi Tip and Fold RT, Taxi Tip and Fold HB, Taxi Flip Up, Taxi Flip Up Adjust, Taxi Flip Up HB. All of seats men-

tioned above in ambulance mode

Dedicated for seat(s):

Taxi (S1TAX01),

Taxi Adjust (S1TAX02), Taxi Tip and Fold (S1TAX03) Taxi Tip and Fold RT (S1TAX06)

Taxi HB (S1TAX08) Taxi Flip Up (S1TAX09)

Taxi Flip Up Adjust (S1TAX10)
Taxi Tip and Fold HB (S1TAX11)
Taxi Flip Up HB (S1TAX12)

Legs and consoles which can be used:

Legs:

Locking systems:

Wheel arches:

N0AZM03, N0AZM06 UNWIN SL/STD P1NKL15 UNWINHAL P1NKL16 NOAZM09, NOAZM34 N0AZM35, N0AZM36 AMF-Bruns Lockable P1NKL17 N0AZM37, N0AZM38 **Qstraint QSF seat fixing** P1NKL18 N0AZM40, N0AZU10 **NMI W-fitting** P1NKL19 N0BLS05, N0BLS09 P2NKL05 NMI V-fitting N0BLS10, N0BLS11 TMI-017 N0BLS17 **TMDS-007**

3LS17 IMDS-00 TMI-012

Mounting bases:

P1SBE01, P1SBE02, P1SBE04, P1PPK01, P1PPK04 Optional components:

P10BR02, P1PSU16, P1ADA10, P1ADA14, P1ADA18 CATION ARRIVERTION



15-00056-CP-PRG-01

INTAP ADVANCED TECHNOLOGY Sp. z o.o. Sp. k.,

Poland

Type:

TAXI



2. Test conditions

2.1. Test sample

Taxi seats family (S1TAX01, S1TAX02, S1TAX03, S1TAX06, S1TAX08, S1TAX09 S1TAX10, S1TAX11, S1TAX12) mounted on different legs (dynamic tests) or on rigid fixture (static and energy dissipation tests).

Tests of seats S1TAX02 and S1TAX03 are covered by tests of seats S1TSF02 and S1TSF03 due to the same construction of seat and seatback frame and meaning of attachment of seat to leg. Seats S1TSF02 and S1TSF03 are worst case for head estraint retention test due to the use of detachable head restraint.

The static tests were not necessary because backrests and headrests are the same on seats S1TSF02 and S1TSF03 as S1TAX01,02 and 03.

2.2. Test procedures used:

According to procedure of check of geometry, static strength and energy dissipation of seats and head restraints, par 5,6 and annexes 4,5 and 8 of ECE 17.08 and dynamic (sled) strength of seats and their anchorages, par 5,6 and annexes 7 of ECE 17.08

2.3. Measuring and test equipment:

- Test device for seat and head restraint performance with controller
- Torso angle: 3D H-point machine with height measurement fixture
- Testing pendulum with accelerometers
- Tape rule
- Deceleration sled test device
- High speed camera

2.4. Test track or site:

TÜV SÜD Czech s.r.o., Mladá Boleslav, Czech Republic, DEKRA laboratory, Klíčany, Czech Republic PIMOT, Warszawa, Poland,

OKB laboratory, Bukowiec, Poland



15-00056-CP-PRG-01

INTAF



Poland TAXI

Type:



3. Test results

3.1. General

3.1.1. H point measuring:

H point positions and actual torso angles conform to the values of manufacturer's documentation

3.1.2. Head restraint/seat back performance

O_{\wedge}			
The state of the s	Paragraph		Measured values
Definition and requirement	Require- ment	Test proce- dure	Rear seats
No side facing seats in vehicles of the class M1, N1	S.1.	N/A	No side facing seats installed. Smartseat Easy Turny is possible used in ambulance mode only when the vehicle is stationary.
Adjusting and displacement automatic locking systems	5.2.1 – 5.2.2.	ON, N/A	No displacement system provided, adjusting systems lock automatically
Energy absorption of the rear parts of the seats, the deceleration of the headform ≤ 80 g continuously for more than 3 ms under the impact	5.2.3	6.8.1.1, Annex 6	According to 5.5.6 the requirements are deemed to be satisfied, because the seats are equipped with pead restraints and requirements of par 5.5.2 are met
Roughness or sharp edges of the rear seat parts - radii 2,5 mm in area 1 - radii 5,0 mm in area 2 - radii 3,2 mm in area 3	5.2.4	6.8.1	A TION AS Pass
No seat ruptures after tests	5.2.5	6.2 and 6.3	No ruptures occured (see also 2.2)
No release of the locking systems during the test	5.2.6.	6.3 and 2.1. of Annex 9	No release occured (see 2.2)
Requirements for vehicles of category N, M ₂ and M ₃	5.3.		Due to the results of tests provided for vehicles M1 category requirements for N and M2 category are deemed to be satisfied.

15-00056-CP-PRG-01

INTAP ADVANCED TECHNOLOGY Sp. z o.o. Sp. k.,

Poland

Type:

TAXI



Installation of the head restraints (min. front outboard seats)	5.4.	N/A	All seats a	are equipped wit head restrain	h integrated
			S1TAX01	S1TAX02 (S1TSF02)	S1TAX03 (S1TSF03)
No additional cause of danger to			Rear	head restraint s	urface:
occupants of the vehicle by the head restraint; energy absorption -	5.5.	6.8.1.1.3 , Annex	ma	x. 40,9 g at 24,1	km/h
the deceleration of the headform ≤ 80 g continuously for more than 3	0.0.	6	Front	head restraint s	surface:
ms under the impact*			ma	x. 42,6 g at 24,1	km/h
Highest distance of the head restraint top from R point! H ≥ 750 mm for rear seats	5.6.3.1	6.5	762 mm	762 mm	804 mm
Min. height in any position for use H ≥ 750 mm for rear outboard H ≥ 700 mm for rear middle seats	5.6.3.2 (5.6.5.)	6.5	762 mm	762 mm	804 mm
Height of the head restraint effective area h ≥ 100 mm	5.7.1	6.5	> 100 mm	> 100 mm	> 100 mm
Gap between head restraint and seat-back m ≤ 25 mm	5.8	6.7	N/A	N/A	N/A
Integral head restraints	5.9	6. 0 , 6.4.3.3.2	N/A (not installed)	N/A (not installed)	N/A (not installed)
Head restraints with gaps	5.10	6.7	N/A (no gaps)	N/A (no gaps)	N/A (no gaps)
Width of head restraint 65 mm below its top L ≥ 170 mm	5.11	6.6	190 mm	190 mm	190 mm
Head rearward displacement X < 102 mm when loaded to moment 373 Nm around R point	5.12	6.4	68 mm	64 mm	35 mm
Loading force for head restraint F ≥ 890 N	5.13	6.4.3.6.	890 N without rupture	890 N without rupture	890 N without rupture
Raise the head restraint beyond the operational height	5.14	N/A	Not possible	Not possible	Not possible
Strength of the seat back under the load of 530 Nm per seating position	5.2.7, 5.15	6.2	Passed without ruptures	Passed without ruptures	Passed without ruptures
Luggage displacement retention requirements	5.16	Annex 9		N/A	

*For energy dissipation tests was used seat (S1TAX01) as a worst case representative.

15-00056-CP-PRG-01

INTAP ADVANCED TECHNOLOGY Sp. z o.o. Sp. k.,

Poland

Type:

TAXI



3.2. Dynamic test

Details of the test according to 6.3

3.2.1. Frontal impact

Requirement acc. to 5.2.5., 5.2.6.

Test A – seats S1TAX02 and S1TAX03 (S1TSF02, S1TSF03)		Test B – seat S1TAX01 (valid for rear impact too)	
Initial speed	Side 1	Initial speed	Side 1
Torso angle	19°	Torso angle	19°
Longitudinal adjustment	N/A ONLY	Longitudinal adjustment	N/A
Vertical adj.	N/A	Vertical adj.	N/A

3.2.1.1. Test speed and achieved deceleration

	Test A		Test B	
	Requirement Measured		Requirement	Measured
Impact speed v ₀	50 ⁺⁰ ₋₂ km/h	Achieved	50 ⁺⁰ ₋₂ km/h	Achieved
Deceleration	20g for 30ms	Achieved	20g for 30ms	Achieved

3.2.1.2. Results

Paragraph of the regulation ECE 17.08 marked in *italics*

5.2.5	There was no failure of the seat frame or seat anchorage, adjustment and displacement systems or their locking devices during the test.			
5.2.6.	There was no release of the locking systems during the tests.			

15-00056-CP-PRG-01

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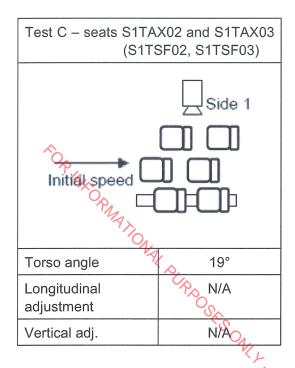
Poland TAXI

Type:



3.2.2. Rear impact

Requirement acc. to 5.2.5, 5.2.6. tests according to paragraph 6.3



3.2.2.1. Test speed and achieved deceleration

	Requirement	Measured
Impact speed v ₀	50 ⁺⁰ ₋₂ km/h	C Achieved
Deceleration	20g for 30ms	Achieved

3.2.2.2. Results

Paragraph of the regulation ECE 17.08 marked in *italics*

5.2.5	There was no failure of the seat frame or seat anchorage, adjustment and displacement systems or their locking devices during the test.
5.2.6,	There was no release of the locking systems during the tests.



15-00056-CP-PRG-01

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Poland

Type:

TAXI

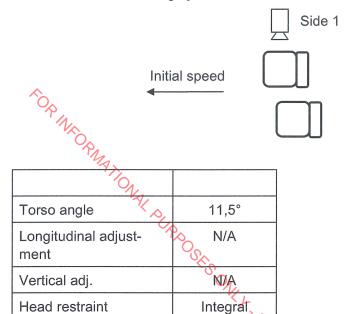


3.2.3. Frontal impact

Requirement acc. to 5.2.5, 5.2.6. tests according to paragraph 6.3.

Test D:

- Taxi seat with revolving system mounted on interleg with V-fittings
- Taxi seat with revolving system on slide base



3.2.3.1. Test speed and achieved deceleration

	Requirement	Measured
Impact speed v ₀	50 ⁺⁰ -2 km/h	48,9 km/h
Deceleration	20g for 30ms	Achieved

3.2.3.2. Results

Paragraph of the regulation ECE 17.08 marked in italics

		There was no failure of the seat frame or seat anchorage, adjustment and displacement systems or their locking devices during the test.
5.2.6. There was no release of the locking systems during		There was no release of the locking systems during the tests.



15-00056-CP-PRG-01

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Poland

Type:

TAXI

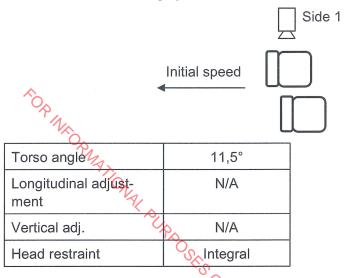


3.2.4. Rear impact

Requirement acc. to 5.2.5, 5.2.6. tests according to paragraph 6.3.

Test E:

- Taxi seat with revolving system mounted on interleg with V-fittings
- -Taxi seat with revolving system on slide base



3.2.4.1. Test speed and achieved deceleration

	//	
	Requirement	Measured
Impact speed v ₀	50 ⁺⁰ ₋₂ km/h	48,8 km/h
Deceleration	20g for 30ms 🔾	Achieved

The seats S1TAX11 and S1TAX12 have the same construction of backrest and seat cushion as seat S1TSF06 and the test results of S1TSF06 can be used as representative to S1TAX11 and S1TAX12.

3.2.4.1. Results

Paragraph of the regulation ECE 17.08 marked in italics

	There was no failure of the seat frame or seat anchorage, adjustment and displacement systems or their locking devices during the test.
5.2.6.	There was no release of the locking systems during the tests.

4. Place and date of testing

As before and 03.01.2019

TÜV SÜD Czech s.r.o., Mladá Boleslav, Czech Republic, DEKRA laboratory, Klíčany, Czech Republic PIMOT, Warszawa, Poland, OKB laboratory, Bukowiec, Poland



15-00056-CP-PRG-01

INTAP ADVANCED TECHNOLOGY Sp. z o.o. Sp. k.,

Poland

Type:

TAXI



Photos:

Dynamic test

Forward direction Test D









Test report No.:

15-00056-CP-PRG-01

Manufacturer:

INTAP ADVANCED TECHNOLOGY Sp. z o.o. Sp. k.,

Poland

Type:

TAXI



Rearward direction Test E

Before test



After test



15-00056-CP-PRG-01

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Poland

Type:

TAXI



Graphs:
Dynamic tests
Test D, E - taxi seat
Forward and rearward direction

