FLIGHT TEST REPORT

Applicant:	Alas LLC 500 Barnes Boulevard 32955 Rockledge FL USA	Type of aircraft:	ATEC 212 SOLO LSA
		Registration number:	N 188JH
		Serial number:	S101016A
		Place of flight tests:	LKNY

Empty weight:	518 lb	Maximum take off weight:	827 lb
Minimum weight of pilot in solo:	187 lb	Maximum weight of crew:	250 lb

Centre of gravity range: **28-36,0 % MAC according to weight test results**

Type of propeller:	FITI	Number of blades:	2	Diameter:	63"	Angle:	22°

Type of engine:	Gearbox:	Max. continuous power:	Max. power:
Rotax 912 ULS	1:2,43	69 kW/5500 rpm	73,5kW/5800 rpm

The aircraft is airworthy according to technical inspection and is able to be tested in flight.

Date:	4.10.2016	Inspector:	Petr Volejník	signature:	
Date:	4.10.2016	Test pilot:	Petr Volejník	Weight:	195 lb
		Co-pilot:		Weight:	

Air speed calibration:

IAS (kt)	35	40	50	60	70	80	90	100	110	120	130	140
EAS (kt)	38	42	51	60	69	78	87	95	104	113	121	130

A. Flight characteristics	Obliged	Not obliged
Aileron, elevator, rudder, flaps control	x	
Engine performance	x	
Taxiing	x	
Take off, maximum cross wind 12 kt	x	
Aileron, elevator, rudder, flaps at all flight conditions	x	
Yaw and directional control, transition +/-30° turn in 5 sec.	x	
Control forces, dependence on air speed	x	
Ability to trim	x	
Pitch static stability	x	
Pitch dynamic stability	x	
Yaw and directional stability	x	
Stall - direct flight, max. continuous power, loss of height 100 ft	x	
Stall - direct flight, run idle, loss of height 100 ft	x	
Stall - 30° turn, loss of height 130 ft	x	
Stall warning	x	
Flaps deflected-flight, start position 15°, landing position 30°	x	
Vibrations, flutter at all tested modes	x	
Engine stopped flight	x	
Powered landings	x	
Engine stopped landings, flaps position 35°	x	

B. Flight performances (IAS)		in solo flight	
Take off distance at MTOW, obstacle 50 ft		700 ft	
Rate of climb at 60 kt		1800 ft/min	
Stalling speed, flaps retracted, engine idle or stopped		44 kt	
Stalling speed, flaps deflected 35°, engine idle or stopped	IAS	33 kt	
	EAS	37 kt	
Optimum cruising speed RPM 4800		110 kt	
Descend at 55 kt flight mode, engine idle		415 ft/min	
Descend at 100 km/h flight mode, engine stopped		470 ft/min	
Maximum level speed, RPM 5800		135 kt (IAS)	
Maximum level continue speed, RPM 5500		127 kt (IAS)	
Proved never exceed speed V_{NE} = 151 kt (EAS)		140 kt (IAS)	
Proved maximum allowed speed with flaps 35°		63 kt (IAS)	
Optimum powered approach speed		55 kt (IAS)	
Optimum approach speed, engine stopped, descend 850 ft/min, flaps 35°		55 kt (IAS)	
Landing distance, obstacle 50ft		1100 ft	
Declaration of aircraft owner before the test flight:		not requested	
Flight test result:		passed	

Test pilot´s declaration:

This ATEC 212 SOLO aircraft s/n S101016A has been flight tested by the test pilot of ATEC v.o.s. factory, authorized by LAA Czech republic under reg. no. 50. This aircraft meets the parameters of the current Pilot´s Operation Handbook (POH) for all published speeds and manoeuvres. No control faults were found.

Note:

The aircraft is considered as airworthy and safe for flight operations.

Released for flight by: **Petr Volejník**

test pilot reg. no. 50 authorized by LAA Czech Republic

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Date: **4.10.2016** **Test pilot´s signature:** **Petr Volejník**

ZKUŠEBNÍ PILOT LAA ČR č. 50 -UA-