TYPE CERTIFICATE DATA SHEET № EP-2012T15

Type Certificate Holder:

Alexander Schleicher GmbH & Co. Segelflugzeugbau Alexander Schleicher str. 1 36163 Poppenhausen (Wasserkuppe) Germany EP-2012T15 Sheet 01

Sheet 01

SCHLEICHER

ASW 28 ASW 28-18

10 October 2012

This data sheet, which is part of Type Certificate No. <u>2012T15</u>, prescribes conditions and limitations under which the product, for which the Type Certificate was issued, meets the airworthiness requirements of the Brazilian Aeronautical Regulations.

I - Model ASW 28 (Utility Category), approved 10 October 2012.

AIRSPEED LIMITS	Never Exceed Speed (V_{NE}): Maneuvering Speed (V_A): Rough Air Speed (V_{RA}) Max. Aerotow Speed (V_T) Max. Winch-Launch Speed (V_W) Max. Landing Gear Operat. Speed (V_{LO})	
DIMENSIONS	Span Length Height Wing Area	15.0 m 6.59 m 1.3 m 10.5 m ²
CG RANGE	222 mm to 345 mm (aft of datum point)	
DATUM	Wing leading edge at root rib.	
LEVELING MEANS	Upper side of fuselage boom placed at slope 1000:49.	
WEIGHT	Max. Mass with Water Ballast: Max. Mass of Non-Lifting Parts:	525 kg 260 kg
MINIMUM CREW	One Pilot	
No OF SEATS	One	
WEAK LINKS (Ultimate Strength)	Max. 660 daN for winch launching Max. 660 daN for aerotow Max. 660 daN for autotow	



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REQUIRED EQUIPMENT	The basic required equipmer airworthiness regulations (se installed in the airplane.		
	 a. Min. equipment 1. Airspeed indicator up to 3 2. Altimeter 3. Four-point harness (symmetric dataset) 		
	For additional equipment refer	•	
LAUNCHING HOOKS	 Sicherheitskupplung Europa Sicherheitskupplung Europa Sicherheitskupplung Europa Bugkupplung E 72 - LBA Da Bugkupplung E 75 - LBA Da Bugkupplung E 85 - LBA Da 	G 72 -LBA Datasheet No G 88 -LBA Datasheet No tasheet No. 60.230/1 tasheet No. 60.230/1	. 60.230/2
OPERATIONAL CAPABILITY	VFR Day. Cloud flying and limited aerc specifications in the Flight Man		ing to the
LIFETIME LIMITATIONS	Refer to Maintenance Manual.		
DEFLECTION OF CONTROL SURFACES	Refer to Maintenance Manual.		
SERIAL NUMBER ELIGIBLE	28001 to 28499, with exception	<u>of 28071</u> .	
IMPORT ELIGIBILITY	A Brazilian Certificate of Airwo of on an EASA Export Certificate on A imported from such country), in "The aircraft covered by thi tested and found to be i approved type design as Certificate no. 2012T15 and	ficate on Airworthiness (irworthiness, in case of us cluding the following state s certificate has been ins n conformity with the f defined by the Brazilia	or a third sed aircraft ement: spected, Brazilian in Type
CERTIFICATION BASIS	Brazilian Type Certificate No. 2 based on the RBAC 21.29, 21. a. JAR-22, Change 5, issued	17(b), amdt. 01, and:	ober 2012
	 b. That defined by LBA letter 2000; 	M 531-423/00, dated 28	December
	 c. Standards for Structural Substantiation of Sailplane and Powered Sailplane Components Consisting of Glass or Carbon Fibre Reinforced Plastics, issued July 1991; 		
	d. Additional Requirements for System in the Vertical Tail to Down Moment Caused by August 1991;	or the Purpose of Balanci	ng a Nose
	e. JAR NPA D-46 Seats and S	Safety Harnesses;	
	f. JAR NPA D-64 Headrests.	Nono	
	Special Conditions:	None	
	Exemptions:	None	nation
	Equivalent Safety Findings:	22.335(f) - V _D Determi	nauon

NOTES:

- **NOTE 1** <u>Weight and balance</u>. Current weight and balance data together with list of equipment included in certificate empty weight, and loading instructions, when necessary, must be provided for each glider at the time of original certification.
- **NOTE 2** <u>Markings and placards</u>. The placards listed in the flight manual must be displayed. A complete listing of placards is in the Section 9 of Maintenance Manual.
- **NOTE 3** <u>Continuing Airworthiness</u>. The inspections, maintenance, repairs and painting shall be performed in accordance with the ASW 28 Maintenance and Repair Manuals instructions.
- **NOTE 4** The differences of the Brazilian airplanes in relation to the basic EASA type design are summarized below:
 - 1. The Brazilian Airplane Flight Manual cover page must be included.
 - 2. Markings and placards related to baggage compartments must be in Portuguese (or English and Portuguese).
 - 3. Only altimeters which present barometric setting units of "mbar" or "hpa" may be installed.
- **NOTE 5** All parts exposed to sun radiation except the areas for markings and registration must have a white color surface.
- **NOTE 6** Major structural repairs must be accomplished at ANAC certificated repair station, in accordance with Alexander Schleicher ASW 28 Repair Manual.

II - Model ASW 28-18 (Utility Category), approved 10 October 2012.

AIRSPEED LIMITS	Never Exceed Speed (V_{NE}): Maneuvering Speed (V_A): Rough Air Speed (V_{RA}) Max. Aerotow Speed (V_T) Max. Winch-Launch Speed (V_W) Max. Landing Gear Operat. Speed (V_{LO})	270 km/h 200 km/h 200 km/h 170 km/h 140 km/h 200 km/h	
DIMENSIONS	Span Length Height Wing Area	15.0 m 6.59 m 1.3 m 10.5 m ²	18.0 m 6.59 m 1.3 m 11.88 m ²
CG RANGE	For 15m span version 227 mm to 406 mm (aft of datum point). For 18m span version 233 mm to 406 mm (aft of datum point).		
DATUM	Wing leading edge at root rib.		
LEVELING MEANS	Upper side of fuselage boom placed at slope 1000:49.		
WEIGHT	Max. Mass with Water Ballast: Max. Mass of Non-Lifting Parts: Max. Mass for Aerobatic/Cloud Flying:	Span 15m 525 kg 285 kg 405 kg	Span 18m 575 kg 285 kg 419 kg

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MINIMUM CREW No OF SEATS	One Pilot One
WEAK LINKS (Ultimate Strength)	Max. 825 daN for winch launching Max. 825 daN for aerotow Max. 825 daN for autotow
REQUIRED EQUIPMENT	The basic required equipment, as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the airplane. a. Min. equipment 1. Airspeed indicator up to 300 km/h 2. Altimeter 3. Four-point harness (symmetrical) For additional equipment refer to Maintenance Manual.
LAUNCHING HOOKS	 Sicherheitskupplung Europa G 73 -LBA Datasheet No. 60.230/2 Sicherheitskupplung Europa G 72 -LBA Datasheet No. 60.230/2 Sicherheitskupplung Europa G 88 -LBA Datasheet No. 60.230/2 Bugkupplung E 72 - LBA Datasheet No. 60.230/1 Bugkupplung E 75 - LBA Datasheet No. 60.230/1 Bugkupplung E 85 - LBA Datasheet No. 60.230/1
OPERATIONAL CAPABILITY	VFR Day. Cloud flying and limited aerobatic maneuvers according to the specifications in the Flight Manual with restricted maximum mass.
LIFETIME LIMITATIONS	Refer to Maintenance Manual.
DEFLECTION OF CONTROL SURFACES	Refer to Maintenance Manual.
SERIAL NUMBER ELIGIBLE	28501 to 28999
IMPORT ELIGIBILITY	A Brazilian Certificate of Airworthiness may be issued on the basis of on an EASA Export Certificate on Airworthiness (or a third country Export Certificate on Airworthiness, in case of used aircraft imported from such country), including the following statement: "The aircraft covered by this certificate has been inspected, tested and found to be in conformity with the Brazilian approved type design as defined by the Brazilian Type Certificate no. 2012T15 and in condition of safe operation".
CERTIFICATION BASIS	 Brazilian Type Certificate No. 2012T15 issued on 10 October 2012 based on the RBAC 21.29, 21.17(b), amdt. 01, and: a. JAR-22, Change 5, issued 28-Oct-1995; b. That defined by LBA letter M 531-423/00, dated 28 December 2000; c. Standards for Structural Substantiation of Sailplane and Powered Sailplane Components Consisting of Glass or Carbon Fibre Reinforced Plastics, issued July 1991; d. Additional Requirements for the Installation of a Water Ballast System in the Vertical Tail for the Purpose of Balancing a Nose

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Down Moment Caused by Water Ballast in the Wing, issued August 1991;

e. JAR NPA D-46 Seats and Safety Harnesses;

f. JAR NPA D-64 Headrests.

Equivalent Safety Findings:

Special Conditions: None Exemptions: None

22.335(f) - V_D Determination

NOTES:

- NOTE 1 <u>Weight and balance</u>. Current weight and balance data together with list of equipment included in certificate empty weight, and loading instructions, when necessary, must be provided for each glider at the time of original certification.
- NOTE 2 <u>Markings and placards</u>. The placards listed in the flight manual must be displayed. A complete listing of placards is in the Section 9 of Maintenance Manual.
- NOTE 3 <u>Continuing Airworthiness</u>. The inspections, maintenance, repairs and painting shall be performed in accordance with the ASW 28-18 Maintenance and Repair Manuals instructions.
- NOTE 4 The differences of the Brazilian airplanes in relation to the basic EASA type design are summarized below:
 - 1. The Brazilian Airplane Flight Manual cover page must be included.
 - Markings and placards related to baggage compartments must be in Portuguese (or English and Portuguese).
 - 3. Only altimeters which present barometric setting units of "mbar" or "hpa" may be installed.
- NOTE 5 All parts exposed to sun radiation except the areas for markings and registration must have a white color surface.
- **NOTE 6** Major structural repairs must be accomplished at ANAC certificated repair station, in accordance with Alexander Schleicher ASW 28-18 Repair Manual.

HELIO TARQUINIÓ JÚNIOR Gerente Geral de Certificação de Produto Aeronáutico (General Manager, Aeronautical Product Certification)