



Type Certificate Data Sheet

Number: G-109
 Issue No.: 2
 Approval Date: Refer Below
 Issue Date: May 12, 2016

This Data Sheet which is part of Type Certificate No. G-109 prescribes the conditions and limitations under which the product(s) for which the Type Certificate was granted meet(s) the standards of airworthiness required by the Canadian Aviation Regulations.

Type Approval Holder:

Allstar PZL Glider Sp. z o.o.
 ul. Cieszyńska 325
 43-300 Bielsko-Biala
 Poland

Models

SZD-50-3

1. MODEL SZD-50-3 Puchacz (Glider) Approved June 15, 1983

Airspeed Limits (IAS)

Knots km/h

V_{NE} (Never exceed) -still air	116	215
V_D -rough air	86	160
V_A (Maneuvering)	81	150
V_{ABE} (Airbrakes Extended)	116	215
V_T (Airplane tow)	81	150
$V_{AT} V_{WT}$ (Auto/Winch tow)	59	110

Maximum Weight (mass) 550 kg (1213 lb)

C.G. Limits 133 mm (5.2 inches) to 333 mm (13.1 inches) aft of datum

Datum Wing leading edge at root rib.

Levelling Means Horizontal attitude of the wing chord.

Minimum Crew One (pilot)

Maximum Occupants Two

Weak Link for Towing Auto/Winch/ Air Tow 6900 N (1550 lb)



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Flight Load Factors	a)	at airspeed V_A	+5.3 g	-2.65 g
	b)	at airspeed V_D	+4.0 g	-1.50 g

Control Surface Movements			<u>UP</u>	<u>DOWN</u>
	Aileron		34°	17°
	Elevator		32°	24°
	Rudder	Left 41°	Right 41°	
	Trim-tab		20°	44°

For measuring points and tolerances, see Maintenance Manual.

Type Approval Basis Design requirements in accordance with the OSTIV Requirements for Sailplanes, September 1976

Approved Publications CACA Approved Flight Manual, Canadian Version, for the SZD-50-3 Puchacz.

Placards The following placards must be installed in full view of the pilot.

a)	Permissible Airspeeds:	<u>Knots</u>	<u>Km/h</u>
	V_{NE} Smooth Air	116	215
	V_B Gust conditions	86	160
	V_A Maneuvering	81	150
	V_T Aeroplane tow	81	150
	V_W Winch launching	59	110
	Airbrakes extended	116	215
b)	Loading Plan	<u>kg</u>	<u>lb</u>
	Maximum weight (mass)	550	1213
	Max. loading - front cockpit	100	220

For the loading mass in cockpit below 70 kg 155 lb the application of balancing weights is obligatory.

For the loading mass in cockpits above 100 kg 220 lb; the application of balancing weights is prohibited.

Hand luggage stored only in the cockpit pockets.
Solo flight - front cockpit only.



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Placards (Cont'd)	c) Restrictions Glider not approved for night-flying. Winch take-off allowed on bottom tow-hook only. Flying under icing conditions not approved.
Serial Numbers Eligible	All serial numbers for which a Polish Certificate of Airworthiness for Export to Canada has been received as specified in Import Requirements including serial numbers B-1083 and B-1084.
Import Requirements	The import documentation must include a Polish Certificate of Airworthiness for Export to Canada signed by a representative of the CACA and containing the following statement: "The glider identified by this certificate has been examined and found to comply with Canadian Department of Transport Type Approval.
Required Equipment	The basic required equipment as prescribed in applicable airworthiness requirements (See Type Approval Basis) must be installed in the aircraft. In addition a Flight Manual as listed in Approved Publications is required.
NOTE 1	Current weight and balance report, including list of equipment in the approved empty weight and loading instructions, must be in each glider at the time of original certification.
NOTE 2	Type Certificate Holder Record: <ul style="list-style-type: none">• Before March 22, 2007 - Przedsiębiorstwo Doswiadczalno-Produkcyjne Szybownictwa

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for Minister of Transport

