

**DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION**

G12CE Revision 5 Glasflugel  304CZ 304CZ-17 304C  November 16, 2004
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TYPE CERTIFICATE DATA SHEET NO. G12CE

This data sheet which is a part of type certificate No. G12CE prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder                      HPH s. r.o.  
    Caslavská 126  
    P.O. Box 112  
    284 01 Kutná Hora, Czech Republic

**Model Glasflugel 304CZ, Utility category, approved 31 August, 1999**

Airspeed Limits (I.A.S)

$V_{NE}$  Speed Limit versus Altitude

Flaps at 0, -1, -2		[knots]	[mph]	[km/h]
0 - 13123 ft	(0 – 4000 m)	135	155	250
13123 – 16404 ft	(4000 – 5000 m)	130	149	240
16404 – 19685 ft	(5000 – 6000 m)	122	140	226
19685 - 22966 ft	(6000 – 7000 m)	116	133	214
22966 - 26247 ft	(7000 – 8000 m)	109	126	202
26247 - 29528 ft	(8000 – 9000 m)	103	119	191
29528 - 32808 ft	(9000 – 10000 m)	97	111	179
32808 - 39370 ft	(10000 – 12000 m)	86	99	159

	[knots]	[mph]	[km/h]
$V_A$ (Maneuvering Speed)	108	124	200
$V_{RA}$ (Rough Air Speed)	108	124	200
$V_T$ (Aerotow)	81	93	150
$V_W$ (Winch Launch)	81	93	150
$V_{FE}$ (Flap Extension), flaps at +1, +2	108	124	200

Center of Gravity Range                      Max. forward c/g position aft of datum:    7.87 in. (200 mm)  
    Max. rearward c/g position aft of datum:    12.80 in. (325 mm)

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Datum	Wing leading edge at root rib																		
Levelling means	Fuselage levelling points are noted in the Maintenance Manual.																		
Maximum Weights	992 lb.																		
Number of seats	One																		
Control surface deflections	<table border="0"> <tr> <td>Elevator</td> <td>(Up and Down):</td> <td><math>17^{\circ} \pm 2^{\circ}</math></td> </tr> <tr> <td>Rudder</td> <td>(Left, Right):</td> <td><math>25^{\circ} \pm 2^{\circ}</math></td> </tr> <tr> <td>Aileron</td> <td>(Up):</td> <td><math>23^{\circ} \pm 2^{\circ}</math></td> </tr> <tr> <td></td> <td>(Down):</td> <td><math>10^{\circ} \pm 2^{\circ}</math></td> </tr> <tr> <td>Flaps</td> <td>(Up):</td> <td><math>8^{\circ} \pm 1.5^{\circ}</math></td> </tr> <tr> <td></td> <td>(Down):</td> <td><math>12^{\circ} \pm 1.5^{\circ}</math></td> </tr> </table>	Elevator	(Up and Down):	$17^{\circ} \pm 2^{\circ}$	Rudder	(Left, Right):	$25^{\circ} \pm 2^{\circ}$	Aileron	(Up):	$23^{\circ} \pm 2^{\circ}$		(Down):	$10^{\circ} \pm 2^{\circ}$	Flaps	(Up):	$8^{\circ} \pm 1.5^{\circ}$		(Down):	$12^{\circ} \pm 1.5^{\circ}$
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Flaps	(Up):	$8^{\circ} \pm 1.5^{\circ}$																	
	(Down):	$12^{\circ} \pm 1.5^{\circ}$																	
Weak links	Ultimate strength for both winch launch and aero tow maximum: 1430 lbs.																		
Certification basis:	Airworthiness Requirements for Sailplanes and Powered Sailplanes (LFSM), Issue October 23, 1975. Subpart F and G of Joint Aviation Requirements for Sailplanes and Powered Sailplanes (JAR-22), Change 5, effective 28 October 1995.																		
Serial numbers eligible	Serial number 12 and subsequent. A Czech Republic Certificate of Airworthiness for Export must be submitted for each individual glider for which application for standard airworthiness certification is made.																		
Import Requirements	For gliders Serial Numbers 12 and subsequent, a U.S. Standard Airworthiness Certificate may be issued on the basis of a Certificate of Airworthiness for Export signed by the Czech Republic Civil Aviation Authority, containing the following statement: "The glider covered by this certificate has been examined and found to conform to the type design approved under Type Certificate No. G12CE and is in a condition for safe operation."																		
Minimum equipment:	<p>Airspeed indicator, range to 270 km/h</p> <p>Markings per Sailplane Flight Manual Limitations Section</p> <p>Altimeters</p> <p>Four-piece safety harnesses (symmetrical)</p> <p>Emergency parachutes (required for acrobatic flights only) or back cushions (thickness approximately 2 inches when compressed.)</p>																		
Operating instructions	Sailplane Flight Manual for sailplane model "Glasflugel 304CZ", issued January 1998.																		
NOTE 1.	Current weight and balance report including list of equipment and loading instructions, must be provided for each glider at the time of original airworthiness certification.																		
NOTE 2.	The placards listed in the Maintenance Manual, Section 8.3, must be installed in full view of the pilot.																		
NOTE 3.	Information essential for the proper maintenance, inspection, and repair of the glider is contained in the Maintenance Manual for sailplane model "Glasflugel 304CZ", issued January 1998.																		



Serial Nos. eligible	<p>Serial number 12 and subsequent. A Czech Republic Certificate of Airworthiness for Export must be submitted for each individual glider for which application for standard airworthiness certification is made.</p> <p>The Model 304CZ can be modified to a Model 304CZ-17 by incorporating the changes specified in HpH Service Letter G304CZ17-01b. An additional identification plate is required when accomplishing this new model designation.</p>
Import Requirements	<p>For gliders Serial Numbers 12 and subsequent, a U.S. Standard Airworthiness Certificate may be issued on the basis of a Certificate of Airworthiness for Export signed by the Czech Republic Civil Aviation Authority, containing the following statement: "The glider covered by this certificate has been examined and found to conform to the type design approved under Type Certificate No. G12CE and is in a condition for safe operation.</p>
Minimum equipment:	<p>Airspeed indicator, range to 270 km/h Markings per Sailplane Flight Manual Limitations Section Altimeter Four-piece safety harnesses (symmetrical) Emergency parachutes (required for acrobatic flights only) or back cushions (thickness approximately 2 inches when compressed.)</p>
Operating instructions	<p>Sailplane Flight Manual for sailplane model "Glasflugel 304CZ-17", issued March 2000.</p> <p>Night flying is prohibited.</p>

**Notes**

- NOTE 1. Current weight and balance report including list of equipment and loading instructions, must be provided for each glider at the time of original airworthiness certification.
- NOTE 2. The placards listed in the Maintenance Manual, Section 8.3, must be installed in full view of the pilot.
- NOTE 3. Information essential for the proper maintenance, inspection, and repair of the glider is contained in the Maintenance Manual for sailplane model "Glasflugel 304CZ-17", issued March 2000.
- NOTE 4. All exposed portions of the sailplane must be painted white, except areas for registration and anti-collision markings.

**Model Glasflugel 304 C, Utility category, approved March 22, 2002**

## Airspeed Limits (I.A.S)

$V_{NE}$ Speed Limit versus Altitude		[knots]	[mph]	[km/h]
0 - 13123 ft	(0 – 4000 m)	135	155	250
13123 – 16404 ft	(4000 – 5000 m)	130	149	240
16404 – 19685 ft	(5000 – 6000) m)	122	140	226
19685 - 22966 ft	(6000 – 7000) m)	116	133	214
22966 - 26247 ft	(7000 – 8000) m)	109	126	202
26247 - 29528 ft	(8000 – 9000) m)	103	119	191
29528 - 32808 ft	(9000 – 10000) m)	97	111	179
32808 - 39370 ft	(10000 – 12000) m)	86	99	159

	[knots]	[mph]	[km/h]
$V_A$ (Maneuvering Speed)	108	124	200
$V_{RA}$ (Rough Air Speed)	108	124	200
$V_T$ (Aerotow)	81	93	150
$V_W$ (Winch Launch)	81	93	150

## Center of Gravity Range

Max. forward c/g position aft of datum: 7.87 in. (200 mm)  
 Max. rearward c/g position aft of datum: 12.80 in. (325 mm)

## Datum

Wing leading edge at root rib

## Levelling means

Fuselage levelling points are noted in the Maintenance Manual.

## Maximum Weight

992 lb.

## Number of seats:

One

## Control surface deflections

Elevator: Up and Down  $17^\circ \pm 2^\circ$   
 Rudder: Left, Right  $25^\circ \pm 2^\circ$   
 Aileron: Up  $23^\circ \pm 2^\circ$   
 Down  $10^\circ \pm 2^\circ$

## Weak links

Ultimate strength for both winch launch and aero tow maximum: 1430 lbs.

## Certification basis:

Airworthiness Requirements for Sailplanes and Powered Sailplanes (LFSM), Issue October 23, 1975. Subpart F and G of Joint Aviation Requirements for Sailplanes and Powered Sailplanes (JAR-22), Change 5, effective 28 October 1995. JAR 22.375 (change 5)

## Serial Nos. eligible

Serial number 12 and subsequent. A Czech Republic Certificate of Airworthiness for Export must be submitted for each individual glider for which application for standard airworthiness certification is made.

Import Requirements	For gliders Serial Numbers 12 and subsequent, a U.S. Standard Airworthiness Certificate may be issued on the basis of a Certificate of Airworthiness for Export signed by the Czech Republic Civil Aviation Authority, containing the following statement: "The glider covered by this certificate has been examined and found to conform to the type design approved under Type Certificate No. G12CE and is in a condition for safe operation.
Minimum equipment:	Airspeed indicator, range to 270 km/h Markings per Sailplane Flight Manual Limitations Section Altimeter Four-piece safety harnesses (symmetrical) Emergency parachutes (required for acrobatic flights only) or back cushions (thickness approximately 4 inches (10 cm) when compressed.)
Operating instructions	Sailplane Flight Manual for sailplane model "Glasflugel 304 C", issued May 2001.  Night flying is prohibited.
<b>NOTE 1.</b>	Current weight and balance report including list of equipment and loading instructions, must be provided for each glider at the time of original airworthiness certification.
<b>NOTE 2.</b>	The placards listed in the Maintenance Manual, Section 8.3, must be installed in full view of the pilot.
<b>NOTE 3.</b>	Information essential for the proper maintenance, inspection, and repair of the glider is contained in the Maintenance Manual for sailplane model "Glasflugel 304 C", issued May 2001.
<b>NOTE 4.</b>	All exposed portions of the sailplane must be painted white, except areas for registration and anti-collision markings.

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