

ANNEXE 1 - BIJLAGE 1 - ANNEX 1

FORMULAIRE DE REFERENCE - REFERENTIEFORMULIER - DATA SHEET

AUTORISATION DE TYPE - TYPETOELATNG (*)	
No.: 2007/122.1	Issue: 2/22-09-2017



(*) Reserved for the Belgian Civil Aviation Authority

(1) IDENTIFICATION OF THE AIRCRAFT: (**)

MAKE: COMCO IKARUS **MODEL:** C42B-CHAMPION-UL

3-axis / ~~weight shifted~~
1-seater / 2-seater

For weight shifted aircraft: Trike: ~~Make: _____ Model: _____~~
Wing: ~~Make: _____ Model: _____~~

(2) MANUFACTURER: Name: COMCO IKARUS GmbH
Address: Am Flugplatz 11
D-88367 Hohentengen
Germany
Tel.: +49 (0)7572 60080 Fax: +49 (0)7572 3309
E-mail: post@comco-ikarus.de Website: www.comco-ikarus.de

(3) APPLICANT: Name: DKL Light Sport Aircraft Sarl
Address: 6 rue Gaessel
L-4735 Petange
Luxembourg
Tel.: +352 2088 0455 Fax: n/a
E-mail: info@dkl-lsa.eu Website: www.dkl-lsa.eu

(4) DIMENSIONS / WEIGHTS / PERFORMANCES OF BASIC STANDARD AIRCRAFT:

- (a) Wing Area (incl. canard area, excluding winglets): 12.50 m²
 (b) Wing Span: 9.45 m
 (c) Wing Standard Mean Chord: 1360 mm
 (d) Manufacturer's Standard Empty Weight (see note 1 of annex3): 262.2 kg
 For weight shifted aircraft, specify also ~~weight trike:~~
~~weight wing:~~
 (e) Max. Take-off Weight: 450.0 kg
 (f) Wing Loading (Max. Weight / Wing Area): 36 kg/m²
 (g) For 3-axis aircraft:
 - Center of Gravity (CG) Limits: 300 - 560 mm
 - Datum: Leading edge of the wing
 (h) Standard Fuel Capacity: 65 liters
 (i) Performance at MTOW:
 - Best Rate of Climb: 4.8 m/s
 - Take-Off Distance (see note 3 of annex 3): 245m
 - Landing Distance (see note 4 of annex 3): 150m
 - Stall Speed V_{SO} (CAS) (see note 2 of annex 3): 65 km/h
 - Cruise Speed V_C (CAS): 79 - 180 km/h
 - Never-Exceed Speed V_{NE} (CAS): 216 km/h

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(5) POWER PLANT:

(a) Engine:

(see note 5 and 6 of annex 3)

Make:	BRP ROTAX
Model:	912 UL
Reduction Gear (type and ratio):	Wheel Gear at 2.273:1
Intake System:	Carburetor
Exhaust System:	ROTAX Exhaust
Weight:	82.5 kg (incl. exhaust, cooler and pipes)
Max. Power:	59.6 kW at 5800 rpm
Max. Static RPM:	5500 rpm
Max. Continuous Power:	58 kW at 5500 rpm
Power available at max. permissible RPM:	58 kW at 5500 rpm
Max. CHT:	150° C
Fuel Specifications:	min. RON95, Super and Super plus, AVGAS 100LL
Engine Oil Specifications:	API/ SAE 10W40
Gearbox Oil Specifications:	API/ SAE 10W40
Fuel / Oil Mix.:	n/a
Max. Oil Press.:	7 bar
Min. Oil Press.:	2 bar
Max. Oil Temp.:	140° C

(b) Propeller:

Make	Warp Drive	Warp Drove	Sport Prop	GSC Systems	Neuform
Model	Const. Speed	Const. Speed	Sport Prop	GSC	CR2-75
Num. of blades	2	3	3	3	2
Diameter	1.72 m	1.73 m	1.70 m	1.73 m	1.75 m
Pitch	15° at 0.68 m	11.5° at 0.68 m	15° at 0.60 m	14° at 0.865 m	20° at 0.66 m
Weight	3.2 kg	4.7 kg	4.6 kg	5.2 kg	3.7 kg

Make	Neuform	Kievprop	Helix		
Model	CR3-75	BB 263/1700	H50F-R-SI-12-3		
Num. of blades	3	3	3		
Diameter	1.75 m	1.71 m	1.75 m		
Pitch	17° at 0.66 m	15° at 0.75 m	16° at 0.66 m		
Weight	4.8 kg	3.7 kg	3.6 kg		

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(6) CONTROL DEFLECTIONS (3-AXIS SYSTEMS):

Elevator:	Up: $28^{\circ} \pm 2^{\circ}$	Down: $20^{\circ} \pm 2^{\circ}$
Ailerons:	Up: $20^{\circ} \pm 2^{\circ}$	Down: $14^{\circ} \pm 2^{\circ}$
Rudder:	Left: $32^{\circ} \pm 2^{\circ}$	Right: $32^{\circ} \pm 2^{\circ}$
Steering:	Left: $20^{\circ} \pm 2^{\circ}$	Right: $20^{\circ} \pm 2^{\circ}$
Flaps:	Maximum DN: $32^{\circ} \pm 1^{\circ}$	

(7) REFERENCE(S) OF THE MAINTENANCE MANUAL(S) & PILOT'S HANDBOOK(S):

Pilot Operating Handbook: POH C42 SERIES ISSUE 1 (B) REV 3 from 12/09/2017 in English
MdV C42 SERIES ISSUE 1 (B) REV 3 from 12/09/2017 in French

Maintenance Manual: IKARUS C42 Series Issue 7 Rev 1 from 18/02/2014 in English

(8) TYPE OF CONSTRUCTION:

Build at the factory Yes / ~~No~~

Construction "Kit" Yes / No

Construction "Drawing" Yes / No

(**) Identification of the Aircraft

Make: COMCO IKARUS

Model: C42B-CHAMPION-UL

LIST OF STANDARD REQUIRED INSTRUMENTS / EQUIPMENTS
INCLUDED IN THE MANUFACTURER'S STANDARD EMPTY WEIGHT

Designation	Identification Make / Model / Type ...
Propeller and hub	Warp Drive Inc., Const. Speed, 2 blade
Spinner and prop acc.	Comco Ikarus
Engine	BRP Rotax, 912UL, 80hp
Carbon Fuselage	Comco Ikarus
Safety harness per seat	Schroth, Sicherheitsgurt Restraint, 4PT
Speed Indicator with markings	Winter Instruments, Speed Indicator
Altimeter	Winter Instruments, 3 pointer Alitmeter
Variometer	Winter Instruments, Vario
Compass	Silva, Northern Hemisphere boule
RPM Gauge with Flight Hours	LX Navigation, RPM GAUGE IKARUS
CHT Temperature Gauge	ROAD, CHT Temp Gauge
Oil Temperature Gauge	ROAD, Oil Temp Gauge
Oil Pressure Gauge	ROAD, Oil Pres. Gauge
Fuel Gauge	ROAD, Fuel Gauge
Charge Indicator	Konrad Electronis, RED LED
Transparent Roof	Comco Ikarus
Sun Visor	Comco Ikarus

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ANNEXE 2 - BIJLAGE 2 - ANNEX 2

Par la présente je certifie que



1. je fournirai avec chaque aéronef les documents de navigabilité qui lui sont associés (par ex. manuel d'utilisation et d'entretien, manuel / plans de construction, ...);
2. j'informerai systématiquement tous les utilisateurs des modifications ou inspections obligatoires;
3. je fournirai à la Direction Générale Transport Aérien toutes les informations nécessaires pour permettre le maintien de l'aéronef dans un état satisfaisant de navigabilité;
4. le niveau de bruit produit par l'aéronef défini ci-dessus (59,7dBa) est dans les limites définies à l'article 22 de l'arrêté royal du 25/05/1999;
5. la vitesse de décrochage Vso enregistrée pour cet aéronef et mesurée suivant les spécifications de l'annexe 3, §2 de la circulaire CIR/AIRW-12 est de 63 km/h (34 knots) CAS;
6. toutes les informations et données contenues dans le dossier technique annexé sont correctes et les exigences de la réglementation belge ont été satisfaites.

I hereby certify that

1. I will furnish each aeroplane with the relative airworthiness documents (i.e. operator's manual, construction manual / drawings, ...);
2. I will inform all users systematically of mandatory modifications or inspections;
3. I will inform the Belgian Civil Aviation Authority of all data necessary to keep the aeroplane in a satisfying state of airworthiness;
4. the noise produced by this aeroplane (59,7dBa) has been found to be within the limitations specified in Article 22 of the Royal Decree of 25/05/1999;
5. the stall speed Vso recorded for this aeroplane has been registered according to the specifications of annex 3, §2 of circular CIR/AIRW-12 and has been found 63 km/h (34 knots) CAS;
6. all information and data contained in the annexed technical file are correct and that the prescriptions of the Belgian regulation have been complied with.

Ik verklaar hierbij dat

1. ik bij ieder luchtvaartuig de luchtwaardigheidsdocumenten zal bijleveren die erop van toepassing zijn (zijnde gebruikers- en onderhoudshandboek, constructiehandboek / plannen, ...);
2. ik alle gebruikers systematisch op de hoogte zal brengen van verplichte modificaties of inspecties;
3. ik het Directoraat-generaal Luchtvaart op de hoogte zal brengen van alle gegevens die noodzakelijk zijn om het luchtvaartuig in een voldoende staat van luchtwaardigheid te houden;
4. het geluid voorgebracht door dit luchtvaartuig (..... dBA) de limieten vastgesteld in artikel 22 van het K.B. van 25/05/1999 niet overschrijdt;
5. de overtreksnelheid Vso geregistreerd voor dit luchtvaartuig opgemeten werd overeenkomstig de voorschriften van bijlage 3, § 2 van de circulaire CIR/AIRW-12 en km/u (..... knots) CAS bedraagt;
6. alle informatie en gegevens die vermeld staan in het bijgevoegd technisch dossier correct zijn en dat aan de vereisten van de Belgische reglementering voldaan is.

Date, nom et signature du postulant	12/01/2017 pour DKL LSA, M CHAN.
Datum, naam en handtekening van de postulant	
Date, name and signature of the applicant	

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