TYPE-CERTIFICATE

DATA SHEET

NO. **EASA.A.445**

for

Type Certificate Holder
AGROAIR, spol. s.r.o.

Štěpánkova 86
537 01 Chrudim
CZECH REPUBLIC

For models: Z - 37
Z - 37 - 2
Z - 37A
Z - 37A - 2

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SECTION A: Z - 37

A.I. General

1. Type/ Model/ Variant

1.1 Type	Z – 37
1.2 Model	Z – 37
2. Airworthiness Category	Restricted Category (see Note 1)
3. Manufacturer	From S/N 00-01 to S/N 27-19 LET, n.p. 686 04 Kunovice 1177 CZECH REPUBLIC
4. EASA Type Certification Application Date	25-Jul-1966

Note: State of Design Authority certification application date for grandfathered products

5. State of Design Authority	CZECH REPUBLIC
6. State of Design Authority Type Certificate Date	25-Jul-1966
7. EASA Type Certification Date	27-Mar-2007

EASA Type Certificate replaces Czech Type Certificate No. 66-05

A.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements	-
2. Airworthiness Requirements	British Civil Airworthiness Requirements BCAR, Section D, valid to 01.12.1963
3. Special Conditions	None
4. Exemptions	D2-7 5.1 The side component of the wind at which the directional controllability at taxiing complies with regulation is not determined. D2-8 5.4.1 Longitudinal control forces change caused by concurrent increase of engine power and flaps retraction is 16 to 19 daN D2-9 2.1.3 Non-compliance with requirement for control force balancing at aft position of center of gravity, maximum continuous power of the engine and maximum take-off weight at 0.9 v_{NO} D2-9 2.1.6 Non-compliance with requirement for control force balancing at forward position of center of gravity at descent flight with engine idle in the speed range from 1.2 to 1.4 vSO D5-5 3.3 Supplement - not installed emergency heating of suction air for carburetor D5-8 7 Fuel and oil piping in the engine space is not fire-resistant D5-8 2.1. Oil tank, its installation and attachment is not fireproof

	D6-1 4.2.1 e) Not installed flight indicator of oil quantity that is required with regard to the engine oil usage for the setting of propeller blades
	D6-7 8.1 Non-compliant color of position lights
	D6-7 5.2 Non-compliant intensity of position lights
	D6-7 5.3 Non-compliant intensity of position lights
5. (Reserved) Deviations	None
6. Equivalent Safety Findings	None
7. Environmental Protection	None

8. Interpretative Material and Means of Compliance

A.III. Technical Characteristics and Operational Limitations

1. Type Design Definition	Specification Sheet , drawing No. Z37.0000-00/1		
2. Description	Z - 37 aircraft is single-engine, low-wing aircraft of compound design with usage of metal and fabric materials.		
3. Equipment	Flight and navigation instruments:		
	Magnetic compass		LUN 1221
	Altimeter		LUN 1121
	Airspeed indicator with over-pulling indication		LUN 1107
	Vertical speed indicator		LUN 1147
	Turn indicator		LUN 1213
	Stall warning indication light		CHS – 39
	Engine instruments:		
	RPM indicator		LUN 1341
	Blower pressure gauge		LUN 1401
	Quadruplicate indicator of engine parameters		LUN 1527
	Thermometer of cylinder heads		LUN 1380
	Volt-ammeter		LUN 2715
	Warning light of engine fire		SLC - 51
	Inlet air temperature indicator		TUE – 48
	Airframe and systems instruments:		
	Pneumatic system pressure gauge	MA-100 Earlier	MV-80-100
	Chemical pressure gauge	AP-6	
	Chemical weight indicator	AP-6	
	Dual fuel quantity indicator	LUN 1626	
	Warning remaining fuel light	SLC - 51	
4. Dimensions			
	Wing Span:	12.224 m	
	Length:	8.550 m	
	Height:	2.898 m	
	Wing Area:	23.8 sq.m	
5. Engine			
5.1. Model	M 462 R F		
5.2 Type Certificate	EASA approved (CAA CZ TC No. 66-04) (see Note 2)		
5.3 Limitations	Maximum take-off power		
	Power	315 HP	
	Speed	2450 RPM	
	Maximum continuous (nominal) power:		
	Power	280 HP	
	Speed	2200 RPM	
	Maximum cruise power:		

	Power	195 HP		
	Speed	1900-1950 RPM		
6. Load factors	Aerial works	+ 3.5 g - 1.4 g		
	Cargo	+ 3.8 g - 1.52 g		
7. Propeller				
7.1 Model	V 520 /7/			
7.2 Type Certificate	EASA approved (CAA CZ TC No. 66-01) (see Note 3)			
7.3 Number of blades	2			
7.4 Diameter	2700 mm			
7.5 Sense of Rotation	Anticlockwise in the view of the flight direction			
8. Fluids				
8.1 Fuel	Jet fuel ESSO ICP 80			
	SHELL Avgas 80			
	SHELL Avgas 100 LL			
	BP 100 L			
	BL 78 according to ČSN 65 6510			
8.2 Oil	AEROSHELL Oil W 100, 120			
	ELF Aviation AD 100			
	MOBIL Aero D 100			
	BP Aero Oil 100			
	CASTROL Aero AD 100			
	TOTAL Aero D 100			
8.3 Coolant	None			
9. Fluid capacities				
9.1 Fuel	Total:			
	Main Fuel Tank	127 liters		
	Auxiliary Fuel Tank	127 liters		
	Usable:			
	Main Fuel Tank	126.5 liters		
	Auxiliary Fuel Tank	126.5 liters		
9.2 Oil	17.3 liters			
9.3 Coolant system capacity				
10. Air Speeds	Never exceeding speed		v_{NE}	270 km/h IAS
	Maximum speed for normal manoeuvers		v_{NO}	175 km/h IAS
	Design manoeuvring speed		v_A	170 km/h IAS
	Maximum flaps extended speed		v_{FE}	150 km/h IAS
11. Maximum Operating Altitude	Without agricultural equipment	4000 m		
	With agricultural equipment	3670 m		
12. Approved Operations Capability	VFR-Day operations			
13. Maximum Masses	for aerial works	1850 kg		
	cargo	1725 kg		

14. Centre of Gravity Range	23 - 31 % MAC		
15. Datum	Fuselage System frame No. 1 (firewall)		
16. Mean Aerodynamic Chord (MAC)	2.0 m		
17. Levelling Means	Identical with the basic fuselage level – see the Aircraft Maintenance Manual		
18. Minimum Flight Crew	1		
19. Maximum Passenger Seating Capacity	2 including the pilot seat, category for aerial works only		
20. Baggage/ Cargo Compartments	for aerial works, (in chemical tank, 650 l volume) 600 kg		
	for cargo 490 kg		
21. Wheels and Tyres	Main landing gear wheel K 560.3-00-7 with tyre 556 x 163 mm Model 2		
	Rear landing gear wheel K 290-00-7 with tyre 290 x 110 mm Ant shimmy		
22. Control surface deflections:	Ailerons	up	+26° ±1°
		down	–18,5° ±1°
	Elevator	up	+35°- 0° +2°
		down	–20°- 0°+2°
	Rudder		±26° + 2°–1°
	Inner flaps	retracted	8.5°
		take-off	18.5°
		landing	53.5°
	Outer flaps	retracted	5°
		take-off	15°
		landing	50°

23. (Reserved)

A.IV. Operating and Service Instructions

1. Flight Manual
   - -In Czech language: Letová příručka pro letoun Z – 37 Do-Z37-1010.0
2. Maintenance Manual
   - -In Czech language: Technický popis letounu Z – 37 Do-Z37-1023.0
   - -In Czech language: Příručka pro obsluhu a údržbu letounu Z – 37 Do-Z37-1031.0
   - -In Czech language: Technický popis a návod k obsluze násypného zařízení LN 2-00 Do-Z37-1042.0
   - -In Czech language: Popis a návod k obsluze nádrže mechanického náhonu Do-Z37-1045.0
   - -In Czech language: Popis a návod k obsluze rozmetacího a poprašovacího zařízení Do-Z37-1040.0
   - -In Czech language: Popis a návod k obsluze postřikovacího zařízení, vodní trysky, olejové trysky Do-Z37-1041.0
3. Operational manuals for engine and propeller:
   - -In Czech language: Příručka: Letecký motor M 462 RF - technický popis a návod k obsluze
   - -In Czech language: Technický popis a provozní instrukce vrtule V 520

A.V. Notes

Note 1: No general restrictions applicable. Any restrictions necessary for a single airplane to be listed in the
Certificate of Airworthiness of the affected airplane

Note 2: The EASA type certification standard includes that of CAA Cz TC No. 66-04 based on individual EU member state acceptance or certification of this standard prior to 28 September 2003. Other standards confirming to TC/TCDS standards certificated by individual EU member state prior to 28 September 2003 are also acceptable.

Note 3: The EASA type certification standard includes that of CAA Cz TC No. 66-01 based on individual EU member state acceptance or certification of this standard prior to 28 September 2003. Other standards confirming to TC/TCDS standards certificated by individual EU member state prior to 28 September 2003 are also acceptable.

Note 4: Transfer of the TCDS EASA.A.445 from Aircraft Industries, a.s. (former name: LET, n.p.) to Agroair, spol.s.r.o. on 22-May-2024.

SECTION B: Z - 37 - 2

B.I. General

1. Type/ Model/ Variant

1.1 Type	Z – 37
1.2 Model	Z - 37 - 2
2. Airworthiness Category	Restricted Category (see Note 1)
3. Manufacturer	From S/N 00-10 LET, n.p. 686 04 Kunovice 1177 CZECH REPUBLIC
4. EASA Type Certification Application Date	07-May-1967

Note: State of Design Authority certification application date for grandfathered products

5. State of Design Authority	CZECH REPUBLIC
6. State of Design Authority Type Certificate Date	07-May-1967
7. EASA Type Certification Date	27-Mar-2007

EASA Type Certificate replaces Czech Type Certificate No. 66-05

B.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements	-
2. Airworthiness Requirements	British Civil Airworthiness Requirements BCAR, Section D, valid to 01.12.1963
3. Special Conditions	None
4. Exemptions	D2-7 5.1 The side component of the wind at which the directional controllability at taxiing complies with regulation is not determined. D2-8 5.4.1 Longitudinal control forces change caused by concurrent increase of engine power and flaps retraction is 16 to 19 daN D2-9 2.1.3 Non-compliance with requirement for control force balancing at aft position of center of gravity, maximum continuous power of the engine and maximum take-off weight at 0.9 v_{NO} D2-9 2.1.6 Non-compliance with requirement for control force balancing at forward position of center of gravity at descent flight with engine idle in the speed range from 1.2 to 1.4 vSO D5-5 3.3 Supplement - not installed emergency heating of suction air for carburetor D5-8 7 Fuel and oil piping in the engine space is not fire-resistant D5-8 2.1. Oil tank, its installation and attachment is not fireproof

	D6-1 4.2.1 e) Not installed flight indicator of oil quantity that is required with regard to the engine oil usage for the setting of propeller blades
	D6-7 8.1 Non-compliant color of position lights
	D6-7 5.2 Non-compliant intensity of position lights
	D6-7 5.3 Non-compliant intensity of position lights
5. (Reserved) Deviations	None
6. Equivalent Safety Findings	None
7. Environmental Protection	None

8. Interpretative Material and Means of Compliance

B.III. Technical Characteristics and Operational Limitations

1. Type Design Definition	Specification Sheet , drawing No. Z37.0000-00/1		
2. Description	Z - 37 aircraft is single-engine, low-wing aircraft of compound design with usage of metal and fabric materials.		
3. Equipment	Flight and navigation instruments:		
	Magnetic compass		LUN 1221
	Altimeter		LUN 1121
	Airspeed indicator with over-pulling indication		LUN 1107
	Vertical speed indicator		LUN 1147
	Turn indicator		LUN 1213
	Stall warning indication light		CHS – 39
	Engine instruments:		
	RPM indicator		LUN 1312
	Blower pressure gauge		LUN 1401
	Quadruplicate indicator of engine parameters		LUN 1527
	Cylinder heads thermometer		LUN 1380
	Volt-ammeter	LUN 2715	from 3-rd series
	or	VA 240	to 2-nd series
	Warning light of engine fire		SLC - 51
	Inlet air temperature indicator		TUE - 48
	Dynamo warning light		SLC – 51
	Airframe and systems instruments:		
	Pneumatic system thermometer		MV-80
	Fuel indicator		LUN 1626
	Remaining fuel warning light		SLC – 51
	Standard equipment of the rear cockpit:		
	Flight and navigation instruments:		
	Altimeter		LUN 1121
	Airspeed indicator		LUN 1106
	Vertical speed indicator		LUN 1147
	Turn indicator		LUN 1213
	Engine instruments:		
	RPM indicator		LUN 1312
	Blower pressure gauge		LUN 1401
	Quadruple indicator of engine parameters		LUN 1527
	Warning light of engine fire		SLC - 51
	Inlet air temperature indicator		TUE - 48
	Dynamo warning light		SLC - 51
	Push-button for over-switching of indicators		A 09-9430-64

Airframe and systems instruments:

Fuel cock position warning light	SLC - 51
Mechanical indicator of the elevator trim tab position	Z37.4411-00
Mechanical indicator of the oil cooler flap position	Z237.8230-00
Mechanical indicator of the sun-blind position	Z237.7360-00

4. Dimensions

Wing Span:	12.224 m
Length:	8.550 m
Height:	2.898 m
Wing Area:	23.8 sq.m

5. Engine

5.1. Model	M 462 R F
5.2 Type Certificate	EASA approved (CAA CZ TC No. 66-04) (see Note 2)
5.3 Limitations	Maximum take-off power
	Power 315 HP
	Speed 2450 RPM
	Maximum continuous (nominal) power:
	Power 280 HP
	Speed 2200 RPM
	Maximum cruise power:
	Power 195 HP
	Speed 1900-1950 RPM

6. Load factors — Limit load factor + 3.8 g - 1.4 g

7. Propeller

7.1 Model	V 520 /7/
7.2 Type Certificate	EASA approved (CAA CZ TC No. 66-01) (see Note 3)
7.3 Number of blades	2
7.4 Diameter	2700 mm
7.5 Sense of Rotation	Anticlockwise in the view of the flight direction

8. Fluids

8.1 Fuel	Jet fuel ESSO ICP 80
	SHELL Avgas 80
	SHELL Avgas 100 LL
	BP 100 L
	BL 78 according to ČSN 65 6510
8.2 Oil	AEROSHELL Oil W 100, 120
	ELF Aviation AD 100
	MOBIL Aero D 100
	BP Aero Oil 100

	CASTROL Aero AD 100			
	TOTAL Aero D 100			
8.3 Coolant	None			
9. Fluid capacities				
9.1 Fuel	Total:			
	Main Fuel Tank	127 liters		
	Auxiliary Fuel Tank	127 liters		
	Usable:			
	Main Fuel Tank	126.5 liters		
	Auxiliary Fuel Tank	126.5 liters		
9.2 Oil	17.3 liters			
9.3 Coolant system capacity				
10. Air Speeds	Never exceeding speed		v_{NE}	270 km/h IAS
	Maximum speed for normal manoeuvers		v_{NO}	175 km/h IAS
	Design manoeuvring speed		v_A	170 km/h IAS
	Maximum flaps extended speed		v_{FE}	150 km/h IAS
11. Maximum Operating Altitude	3785 m (only without agricultural equipment)			
12. Approved Operations Capability	VFR-Day operations			
13. Maximum Masses	Maximum take-off weight	1600 kg		
14. Centre of Gravity Range		23 - 31 % MAC		
15. Datum	Fuselage System frame No. 1 (firewall)			
16. Mean Aerodynamic Chord (MAC)		2.0 m		
17. Levelling Means	Identical with the basic fuselage level – see the Aircraft Maintenance Manual			
18. Minimum Flight Crew	1			
19. Maximum Passenger Seating Capacity	2 including the pilot seat			
20. Baggage/ Cargo Compartments	38 kg			
21. Wheels and Tyres	Main landing gear wheel K 560.3-00-7 with tyre 556 x 163 mm Model 2			
	Rear landing gear wheel K 290-00-7 with tyre 290 x 110 mm Ant shimmy			
22. Control surface deflections:	Ailerons	up	+26° ±1°	
		down	–18,5° ±1°	
	Elevator	up	+35°- 0° +2°	
		down	–20°- 0°+2°	
	Rudder		±26° + 2°–1°	
	Inner flaps	retracted	8.5°	
		take-off	18.5°	
		landing	53.5°	
	Outer flaps	retracted	5°	
		take-off	15°	
		landing	50°	

23. (Reserved)

B.IV. Operating and Service Instructions

1. Flight Manual

- In Czech language: Letová příručka pro letoun Z – 37 Do-Z37-1010.0
  -In Czech language: Doplněk k letové příručce pro letoun Z - 37 – 2 Do-Z37-3022.0

2. Maintenance Manual

  -In Czech language: Technický popis letounu Z – 37 Do-Z37-1023.0
  -In Czech language: Doplněk k technickému popisu pro letoun Z-37-2 Do-Z37-3022.0
  -In Czech language: Příručka pro obsluhu a údržbu letounu Z – 37 Do-Z37-1031.0
  -In Czech language: Doplněk k příručce pro obsluhu a údržbu letounu Z - 37 – 2 Do-Z37-3022.0
  -In Czech language: Palubní a elektrické přístroje použité na letounu Z – 37 Do-Z37-3311.0

3. Operational manuals for engine and propeller:

  -In Czech language: Příručka: Letecký motor M 462 RF - technický popis a návod k obsluze
  -In Czech language: Technický popis a provozní instrukce vrtule V 520

B.V. Notes

Note 1: No general restrictions applicable. Any restrictions necessary for a single airplane to be listed in the
Certificate of Airworthiness of the affected airplane

Note 2: The EASA type certification standard includes that of CAA Cz TC No. 66-04 based on individual EU member state acceptance or certification of this standard prior to 28 September 2003. Other standards confirming to TC/TCDS standards certificated by individual EU member state prior to 28 September 2003 are also acceptable.

Note 3: The EASA type certification standard includes that of CAA Cz TC No. 66-01 based on individual EU member state acceptance or certification of this standard prior to 28 September 2003. Other standards confirming to TC/TCDS standards certificated by individual EU member state prior to 28 September 2003 are also acceptable.

Note 4: Transfer of the TCDS EASA.A.445 from Aircraft Industries, a.s. (former name: LET, n.p.) to Agroair, spol.s.r.o. on 22-May-2024.

SECTION C: Z - 37A

C.I. General

1. Type/ Model/ Variant

1.1 Type	Z – 37
1.2 Model	Z – 37A
2. Airworthiness Category	Restricted Category (see Note 1)
3. Manufacturer	From S/N 01-05 to S/N 25-38 LET, n.p. 686 04 Kunovice 1177 CZECH REPUBLIC
4. EASA Type Certification Application Date	03-Jan-1971

Note: State of Design Authority certification application date for grandfathered products

5. State of Design Authority	CZECH REPUBLIC
6. State of Design Authority Type Certificate Date	03-Jan-1971
7. EASA Type Certification Date	27-Mar-2007

EASA Type Certificate replaces Czech Type Certificate No. 66-05

C.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements	-
2. Airworthiness Requirements	British Civil Airworthiness Requirements BCAR, Section D, valid to 01.12.1963
3. Special Conditions	None
4. Exemptions	D2-7 5.1 The side component of the wind at which the directional controllability at taxiing complies with regulation is not determined. D2-8 5.4.1 Longitudinal control forces change caused by concurrent increase of engine power and flaps retraction is 16 to 19 daN D2-9 2.1.3 Non-compliance with requirement for control force balancing at aft position of center of gravity, maximum continuous power of the engine and maximum take-off weight at 0.9 v_{NO} D2-9 2.1.6 Non-compliance with requirement for control force balancing at forward position of center of gravity at descent flight with engine idle in the speed range from 1.2 to 1.4 vSO D5-5 3.3 Supplement - not installed emergency heating of suction air for carburetor D5-8 7 Fuel and oil piping in the engine space is not fire-resistant D5-8 2.1. Oil tank, its installation and attachment is not fireproof

	D6-1 4.2.1 e) Not installed flight indicator of oil quantity that is required with regard to the engine oil usage for the setting of propeller blades
	D6-7 8.1 Non-compliant color of position lights
	D6-7 5.2 Non-compliant intensity of position lights
	D6-7 5.3 Non-compliant intensity of position lights
5. (Reserved) Deviations	None
6. Equivalent Safety Findings	None
7. Environmental Protection	None

8. Interpretative Material and Means of Compliance

C.III. Technical Characteristics and Operational Limitations

1. Type Design Definition	Specification Sheet , drawing No. Z37.0000-00/1	
2. Description	Z - 37 aircraft is single-engine, low-wing aircraft of compound design with usage of metal and fabric materials.	
3. Equipment	Aircraft up to S/N 01-05	
	Flight and navigation instruments:	
	Magnetic compass	LUN 1221-8
	Altimeter	LUN 1121.02-8
	Airspeed indicator with over-pulling indication	LUN 1107-8
	Vertical speed indicator	LUN 1147.10-8
	Turn indicator	LUN 1213-8
	Stall warning indication light	CHS – 39
	Engine instruments:	
	RPM indicator	LUN 1341-48
	Blower pressure gauge	LUN 1401-8
	Quadruplicate indicator of engine parameters	LUN 1527-8
	Heads temperature thermometer	LUN 1380-8
	Volt-ammeter	LUN 2715-8
	Warning light of engine fire	SLC - 51
	Inlet air temperature indicator	TUE – 48
	Dynamo warning light	SLC – 51
	Airframe and systems instruments:	
	Pneumatic system thermometer	MA-100
	Chemical pressure gauge	AP-6
	Chemical weight indicator	LUN-1472-8
	Fuelmeter	LUN 1626-8
	Warning light of remaining fuel	SLC – 51
4. Dimensions		
	Wing Span:	12.224 m
	Length:	8.550 m
	Height:	2.898 m
	Wing Area:	23.8 sq.m
5. Engine		
5.1. Model	M 462 R F	
5.2 Type Certificate	EASA approved (CAA CZ TC No. 66-04) (see Note 2)	
5.3 Limitations	Maximum take-off power	
	Power	315 HP
	Speed	2450 RPM
	Maximum continuous (nominal) power:	
	Power	280 HP

	Speed	2200 RPM		
	Maximum cruise power:			
	Power	195 HP		
	Speed	1900-1950 RPM		
6. Load factors	For aerial works	+ 3.5 g - 1.4 g		
	Cargo	+ 3.8 g - 1.52 7. Propeller		
7.1 Model	V 520 /7/			
7.2 Type Certificate	EASA approved (CAA CZ TC No. 66-01) (see Note 3)			
7.3 Number of blades	2			
7.4 Diameter	2700 mm			
7.5 Sense of Rotation	Anticlockwise in the view of the flight direction			
8. Fluids				
8.1 Fuel	Jet fuel ESSO ICP 80			
	SHELL Avgas 80			
	SHELL Avgas 100 LL			
	BP 100 L			
	BL 78 according to ČSN 65 6510			
8.2 Oil	AEROSHELL Oil W 100, 120			
	ELF Aviation AD 100			
	MOBIL Aero D 100			
	BP Aero Oil 100			
	CASTROL Aero AD 100			
	TOTAL Aero D 100			
8.3 Coolant	None			
9. Fluid capacities				
9.1 Fuel	Total:			
	Main Fuel Tank	127 liters		
	Auxiliary Fuel Tank	127 liters		
	Usable:			
	Main Fuel Tank	126.5 liters		
	Auxiliary Fuel Tank	126.5 liters		
9.2 Oil	17.3 liters			
9.3 Coolant system capacity				
10. Air Speeds	Never exceeding speed		v_{NE}	270 km/h IAS
	Maximum speed for normal manoeuvers		v_{NO}	175 km/h IAS
	Design manoeuvring speed		v_A	170 km/h IAS
	Maximum flaps extended speed		v_{FE}	150 km/h IAS
11. Maximum Operating Altitude	Without agricultural equipment		4000 m	
	With agricultural equipment		3670 m	
12. Approved Operations Capability	VFR-Day operations			

13. Maximum Masses	Maximum take-off weight:		
	- for aerial works		1850 kg
	- cargo		1725 kg
14. Centre of Gravity Range	23 - 31 % MAC		
15. Datum	Fuselage System frame No. 1 (firewall)		
16. Mean Aerodynamic Chord (MAC)			2.0 m
17. Levelling Means	Identical with the basic fuselage level – see the Aircraft Maintenance Manual		
18. Minimum Flight Crew	1		
19. Maximum Passenger Seating Capacity	2 including the pilot seat		
20. Baggage/ Cargo Compartments	for aerial works, (in chemical tank, 650 l volume) 600 kg		
	for cargo		490 kg
21. Wheels and Tyres	Main landing gear wheel K 560.3-00-7 with tyre 556 x 163 mm Model 2		
	Rear landing gear wheel K 290-00-7 with tyre 290 x 110 mm Ant shimmy		
22. Control surface deflections:	Ailerons	up	+26° ±1°
		down	–18,5° ±1°
	Elevator	up	+35°- 0° +2°
		down	–20°- 0°+2°
	Rudder		±26° + 2°–1°
	Inner flaps	retracted	8.5°
		take-off	18.5°
		landing	53.5°
	Outer flaps	retracted	5°
		take-off	15°
		landing	50°

23. (Reserved)

C.IV. Operating and Service Instructions

1. Flight Manual

- In Czech language: Letová příručka pro letoun Z - 37A Do-Z37-1011.1

2. Maintenance Manual

-In Czech language: Technický popis letounu Z - 37A Do-Z37-1021.1

-In Czech language: Příručka pro obsluhu a údržbu letounu Z - 37A Do-Z37-1031.0

-In Czech language: Technický popis a návod k obsluze násypného zařízení LN 2-00 Do-Z37-1042.0

-In Czech language: Popis a návod k obsluze nádrže mechanického náhonu Do-Z37-1045.0

-In Czech language: Popis a návod k obsluze rozmetacího a poprašovacího zařízení Do-Z37-1040.0

-In Czech language: Popis a návod k obsluze postřikovacího zařízení, vodní trysky, olejové trysky Do-Z37-1041.0

3.Operational manuals for engine and propeller:

-In Czech language: Příručka: Letecký motor M 462 RF - technický popis a návod k obsluze

-In Czech language: Technický popis a provozní instrukce vrtule V 520

C.V. Notes

Note 1: No general restrictions applicable. Any restrictions necessary for a single airplane to be listed in the
Certificate of Airworthiness of the affected airplane

Note 2: The EASA type certification standard includes that of CAA Cz TC No. 66-04 based on individual EU member state acceptance or certification of this standard prior to 28 September 2003. Other standards confirming to TC/TCDS standards certificated by individual EU member state prior to 28 September 2003 are also acceptable.

Note 3: The EASA type certification standard includes that of CAA Cz TC No. 66-01 based on individual EU member state acceptance or certification of this standard prior to 28 September 2003. Other standards confirming to TC/TCDS standards certificated by individual EU member state prior to 28 September 2003 are also acceptable.

Note 4: Transfer of the TCDS EASA.A.445 from Aircraft Industries, a.s. (former name: LET, n.p.) to Agroair, spol.s.r.o. on 22-May-2024.

SECTION D: Z - 37A - 2

D.I. General

1. Type/ Model/ Variant

1.1 Type	Z – 37
1.2 Model	Z – 37A - 2
2. Airworthiness Category	Restricted Category (see Note 1)
3. Manufacturer	From S/N 05-17 LET, n.p. 686 04 Kunovice 1177 CZECH REPUBLIC
4. EASA Type Certification Application Date	03-Jan-1971

Note: State of Design Authority certification application date for grandfathered products

5. State of Design Authority	CZECH REPUBLIC
6. State of Design Authority Type Certificate Date	03-Jan-1971
7. EASA Type Certification Date	27-Mar-2007

EASA Type Certificate replaces Czech Type Certificate No. 66-05

D.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements	-
2. Airworthiness Requirements	British Civil Airworthiness Requirements BCAR, Section D, valid to 01.12.1963
3. Special Conditions	None
4. Exemptions	D2-7 5.1 The side component of the wind at which the directional controllability at taxiing complies with regulation is not determined. D2-8 5.4.1 Longitudinal control forces change caused by concurrent increase of engine power and flaps retraction is 16 to 19 daN D2-9 2.1.3 Non-compliance with requirement for control force balancing at aft position of center of gravity, maximum continuous power of the engine and maximum take-off weight at 0.9 v_{NO} D2-9 2.1.6 Non-compliance with requirement for control force balancing at forward position of center of gravity at descent flight with engine idle in the speed range from 1.2 to 1.4 vSO D5-5 3.3 Supplement - not installed emergency heating of suction air for carburetor D5-8 7 Fuel and oil piping in the engine space is not fire-resistant D5-8 2.1. Oil tank, its installation and attachment is not fireproof

	D6-1 4.2.1 e) Not installed flight indicator of oil quantity that is required with regard to the engine oil usage for the setting of propeller blades
	D6-7 8.1 Non-compliant color of position lights
	D6-7 5.2 Non-compliant intensity of position lights
	D6-7 5.3 Non-compliant intensity of position lights
5. (Reserved) Deviations	None
6. Equivalent Safety Findings	None
7. Environmental Protection	None

8. Interpretative Material and Means of Compliance

D.III. Technical Characteristics and Operational Limitations

1. Type Design Definition	Specification Sheet , drawing No. Z37.0000-00/1	
2. Description	Z - 37 aircraft is single-engine, low-wing aircraft of compound design with usage of metal and fabric materials.	
3. Equipment	Aircraft up to S/N 01-05	
	Flight and navigation instruments:	
	Magnetic compass	LUN 1221
	Altimeter	LUN 1121
	Airspeed indicator with over-pulling indication	LUN 1107
	Vertical speed indicator	LUN 1147
	Turn indicator	LUN 1213
	Stall warning indication light	CHS - 39
	Engine instruments:	
	RPM indicator	LUN 1312
	Blower pressure gauge	LUN 1401
	Quadruplicate indicator of engine parameters	LUN 1527
	Cylinder heads thermometer	LUN 1380
	Volt-ammeter	LUN 2715 from 3-rd series or VA 240 to 2-nd series
	Warning light of engine fire	SLC - 51
	Inlet air temperature indicator	TUE - 48
	Dynamo warning light	SLC – 51
	Airframe and systems instruments:	
	Pneumatic system thermometer	MV-80
	Fuel indicator	LUN 1626
	Remaining fuel warning light	SLC – 51
	Standard equipment of the rear cockpit:	
	Flight and navigation instruments:	
	Altimeter	LUN 1121
	Airspeed indicator	LUN 1106
	Vertical speed indicator	LUN 1147
	Turn indicator	LUN 1213
	Engine instruments:	
	RPM indicator	LUN 1312
	Fan pressure gauge	LUN 1401
	Quadruple indicator of engine parameters	LUN 1527
	Warning light of engine fire	SLC - 51
	Inlet air temperature indicator	TUE - 48

	Dynamo warning light	SLC - 51
	Push-button for over-switching of indicators	A 09-9430-64
Airframe and systems instruments:		
	Fuel cock position warning light	SLC - 51
	Mechanical indicator of the elevator trim tab position	Z37.4411-00
	Mechanical indicator of the oil cooler flap position	Z237.8230-00
	Mechanical indicator of the sun-blind position	Z237.7360-00

4. Dimensions

Wing Span:	12.224 m
Length:	8.550 m
Height:	2.898 m
Wing Area:	23.8 sq.m

5. Engine

5.1. Model	M 462 R F
5.2 Type Certificate	EASA approved (CAA CZ TC No. 66-04) (see Note 2)
5.3 Limitations	Maximum take-off power
	Power 315 HP
	Speed 2450 RPM
	Maximum continuous (nominal) power:
	Power 280 HP
	Speed 2200 RPM
	Maximum cruise power:
	Power 195 HP
	Speed 1900-1950 RPM
6. Load factors	+ 3.8 g - 1.4 g
7.1 Model	V 520 /7/
7.2 Type Certificate	EASA approved (CAA CZ TC No. 66-01) (see Note 3)
7.3 Number of blades	2
7.4 Diameter	2700 mm
7.5 Sense of Rotation	Anticlockwise in the view of the flight direction

8. Fluids

8.1 Fuel	Jet fuel ESSO ICP 80
	SHELL Avgas 80
	SHELL Avgas 100 LL
	BP 100 L
	BL 78 according to ČSN 65 6510
8.2 Oil	AEROSHELL Oil W 100, 120
	ELF Aviation AD 100
	MOBIL Aero D 100
	BP Aero Oil 100

	CASTROL Aero AD 100			
	TOTAL Aero D 100			
8.3 Coolant	None			
9. Fluid capacities				
9.1 Fuel	Total:			
	Main Fuel Tank	127 liters		
	Auxiliary Fuel Tank	127 liters		
	Usable:			
	Main Fuel Tank	126.5 liters		
	Auxiliary Fuel Tank	126.5 liters		
9.2 Oil	17.3 liters			
9.3 Coolant system capacity				
10. Air Speeds	Never exceeding speed		v_{NE}	270 km/h IAS
	Maximum speed for normal manoeuvers		v_{NO}	175 km/h IAS
	Design manoeuvring speed		v_A	170 km/h IAS
	Maximum flaps extended speed		v_{FE}	150 km/h IAS
11. Maximum Operating Altitude	Without agricultural equipment	3785 m		
12. Approved Operations Capability	VFR-Day operations			
13. Maximum Masses	Maximum take-off weight:	1600 kg		
14. Centre of Gravity Range	23 - 31 % MAC			
15. Datum	Fuselage System frame No. 1 (firewall)			
16. Mean Aerodynamic Chord (MAC)		2.0 m		
17. Levelling Means	Identical with the basic fuselage level – see the Aircraft Maintenance Manual			
18. Minimum Flight Crew	1			
19. Maximum Passenger Seating Capacity	2 including the pilot seat			
20. Baggage/ Cargo Compartments	38 kg			
21. Wheels and Tyres	Main landing gear wheel K 560.3-00-7 with tyre 556 x 163 mm Model 2			
	Rear landing gear wheel K 290-00-7 with tyre 290 x 110 mm Ant shimmy			
22. Control surface deflections:	Ailerons	up	+26° ±1°	
		down	–18,5° ±1°	
	Elevator	up	+35°- 0° +2°	
		down	–20°- 0°+2°	
	Rudder		±26° + 2°–1°	
	Inner flaps	retracted	8.5°	
		take-off	18.5°	
		landing	53.5°	
	Outer flaps	retracted	5°	
		take-off	15°	
		landing	50°	

23. (Reserved)

D.IV. Operating and Service Instructions

1. Flight Manual

-In Czech language:	Letová příručka pro letoun Z – 37A	Do-Z37-1011.1
-In Czech language:	Letová příručka pro letoun Z-37A-Čmelák modifikace C2,C3	Do-Z37-1012.1

2. Maintenance Manual

-In Czech language:	Technický popis letounu Z – 37A	Do-Z37-1021.1
-In Czech language:	Doplněk k technickému popisu pro letoun Z-37A-2	Do-Z37-3022.0
-In Czech language:	Příručka pro obsluhu a údržbu letounu Z – 37A	Do-Z37-1031.0
-In Czech language:	Doplněk k příručce pro obsluhu a údržbu letounu Z – 37A – 2	Do-Z37-3022.0
-In Czech language:	Palubní a elektrické přístroje použité na letounu Z – 37A	Do-Z37-3311.0

3.Operational manuals for engine and propeller:

-In Czech language: Příručka: Letecký motor M 462 RF - technický popis a návod k obsluze

-In Czech language: Technický popis a provozní instrukce vrtule V 520

D.V. Notes

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SECTION ADMINISTRATIVE

I. Acronyms & Abbreviations

[insert list or table]

II. Type Certificate Holder Record

TC Holder	Period
Aircraft Industries, a.s. Na Záhonech 1177 68604 Kunovice CZECH REPUBLIC EASA.21J.119	27 March 2007 – 21 May 2024
Agroair s.r.o. Štěpánkova 86 537 01 Chrudim CZECH REPUBLIC	Since 22 May 2024
Contracted DOA Holder based on 21.A.2: Aircraft Industries, a.s. Na Záhonech 1177 68604 Kunovice CZECH REPUBLIC EASA.21J.119	Since 22 May 2024

III. Change Record

Issue	Date	Changes	TC Issue No. & Date
Issue 1	27-Mar-2007	Transfer of Z-37 Type Design to EASA	Initial Issue, 27-Mar-2007
Issue 2	22-May-2024	Transfer of Certificate from Aircraft Industries, a.s. to Agroair,spol. s.r.o.	Issue 1, 22-May-2024
Issue 3	07-April 2025	Implementation of Section Administrative and new TCDS tempate	Issue 1, 22-May-2024

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