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# TYPE-CERTIFICATE DATA SHEET

No. EASA.A.626  
for  
**S2**

**Type Certificate Holder**  
Sonaca Aircraft S.A.

Rue du Capitaine Aviateur Jacquet 48  
5020 Namur  
Belgium

For models: S200



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## **SECTION A: S200**

### **A.I. General**

1. Type/ Model/ Variant	
1.1 Type	S2
1.2 Model	S200
1.3 Variant	---
2. Airworthiness Category	CS-VLA Normal category
3. Manufacturer	Sonaca Aircraft S.A. Rue du Capitaine Aviateur Jacquet 48 5020 Namur Belgium
4. EASA Type Certification Application Date	05 August 2015
5. State of Design Authority	EASA
6. EASA Type Certification Date	12 June 2018

### **A.II. EASA Certification Basis**

1. Reference Date for determining the applicable requirements	05 August 2015
2. Airworthiness Requirements	EASA CS-VLA amdt.1
3. Special Conditions	SC-OVLA.div-03 Issue 2 (Night VFR Operation with VLA) SC-VLA.3 (Intentional Spinning with VLA)
4. Exemptions	None
5. (Reserved) Deviations	None
6. Equivalent Safety Findings	ELOS-EVLA.0991 Electrical Fuel Pumps
7. Environmental Protection	ICAO Annex 16, Volume 1. For details, see TCDSN EASA.A.626



### A.III. Technical Characteristics and Operational Limitations

1. Type Design Definition	Sonaca Aircraft report SONAIR-S2-C-CDD-021 - S200 Type Design Definition Rev. A or later revision	
2. Description	Single-engine, fixed pitch propeller, two seats, low wing all aluminium aeroplane equipped with fixed tricycle landing gear	
3. Equipment	Minimum equipment list according to flight manual (SONAIR-S2-D-MAN-001)	
4. Dimensions		
	Span	9,24 m
	Length	6,74 m
	Height	2, 56 m
	Wing Area	11,85 m <sup>2</sup>
5. Engine		
5.1. Model	BRP-Rotax GmbH & Co KG 914 F2	
5.2 Type Certificate	EASA Type Certificate No. EASA.E.122	
5.3 Limitations	Refer to EASA TCDS No.: E.122	
6. Load factors	Flaps retracted	Flaps down
	Positive +4,4g	+2,2g
	Negative -1,76g	0g
7. Propeller		
7.1 Model	DUC Hélices FLASH-R	
7.2 Type Certificate	EASA Type Certificate No. EASA.P.038	
7.3 Number of blades	3	
7.4 Diameter	1750 mm	
7.5 Sense of Rotation	Clockwise (pilot's view)	
8. Fluids		
8.1 Fuel	- MOGAS: Min RON 95 EN 228 Super / Super Plus ASTM D4814 - AVGAS : LEADED : 100 LL ASTM D910 UNLEADED : UL91 ASTM D7547 See Rotax SI-914-019 for more information	
8.2 Oil	See Rotax SI-914-019	
8.3 Coolant	See Rotax SI-914-019	



## 9. Fluid capacities

9.1 Fuel	2 Tanks :	73 L each
	Total :	146 L
	Usable :	140,6 L
9.2 Oil	Total :	3,0 L
	Minimum :	2,5 L
9.3 Coolant system	Total :	1,5 L

## 10. Air Speeds (IAS)

Never exceed speed	135 Kts
Maximum structural cruising speed	120 Kts
Manoeuvring speed	105 Kts
Maximum Flaps 10° speed	105 Kts
Maximum Flaps 20° speed	95 Kts
Maximum Flaps 30° speed	85 Kts
Flaps 30° stall speed	45 Kts

## 11. Flight Envelope

Maximum Operating Altitude	13.000 ft
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## 12. Approved Operations Capability

Day- and Night-VFR is allowed  
 Flight into expected or actual icing conditions is prohibited

## 13. Maximum Masses

Max Take-Off:	750 kg
Max Landing:	750 kg

## 14. Centre of Gravity Range

	Metric	Imperial	% of MAC
Forward limit at 650 kg and below	0.876 m*	2.873 ft*	20%
Forward limit at 750 kg	0.915 m*	3 ft*	23%
Rear limit at 650 kg and below	1.021m*	3.349ft*	31%
Rear limit at 750 kg	1.034 m*	3.392 ft*	32%

## 15. Datum

Centreline of firewall front face bottom edge

## 16. Control surface deflections

Ailerons:	24° ±2° up and 24° ±2° down
Elevator:	28° ±2° up and 22° ±2° down
Trim tab:	13° ±5° up and 23° ±5° down
Rudder:	25° ±2° left and right
Flaps:	0° ±1° Retracted 10° ±1° Take Off 20° ±1.5° Approach 30° ±2° Landing



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|---|--|
| 17. Levelling Means                       | Transverse : Main spar beam (under seats)<br>Longitudinal : Center fuselage side sills (canopy rails)                        |
| 18. Minimum Flight Crew                   | One (1) pilot  |
| 19. Maximum Passenger<br>Seating Capacity | One (1) passenger  |
| 20. Baggage/ Cargo Compartments           | Maximum total baggage weight : 35 kg<br>Maximum baggage weight in Area 1 : 35 kg<br>Maximum baggage weight in Area 2 : 25 kg |
| 21. Wheels and Tyres                      | Nose gear Wheel tyre size : 5.00-5/10/120<br>Main gear Wheel tyre size : 380X150/15X6.00-5/6/120                             |

**A.IV. Operating and Service Instructions**

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|--------------------------------|---|
| 1. Flight Manual               | SONAIR-S2-D-MAN-001 Rev. A or later approved revision |
| 2. Maintenance Manual          | SONAIR-S2-D-MAN-002 Rev. A or later approved revision |
| 3. Structural Repair Manual    | N/A   |
| 4. Weight and Balance Manual   | SONAIR-S2-D-MAN-001 Rev. A or later approved revision |
| 5. Illustrated Parts Catalogue | N/A   |

**A.V. Notes**



## **ADMINISTRATIVE SECTION**

### **I. Acronyms & Abbreviations**

AFM	Airplane Flight Manual
Amdt.	Amendment
AMM	Airplane Maintenance Manual
CAS	Calibrated Airspeed
CG	Centre of Gravity
CS-VLA	Certification specification for Very Light Aeroplanes
DWN	down
EASA	European Aviation Safety Agency
IAS	Indicated Airspeed
ICAO	International Civil Aviation Organization
kg	kilograms
Kts	knots
MAC	Mean Aerodynamic Chord
N.A.	Not applicable
SC	Special Condition
TCDSN	Type Certificate Datasheet Noise
VFR	Visual Flight Rules

### **II. Type Certificate Holder Record**

Sonaca Aircraft S.A.  
Rue du Capitaine Aviateur Jacquet 48  
5020 Namur  
Belgium

### **III. Change Record**

<b>Issue</b>	<b>Date</b>	<b>Changes</b>
Issue 01	12 June 2018	Initial Issue
Issue 02	18 July 2018	Introduction of type definition document, SCs and ELOS reference instead of CRI numbers. Correction of Air Speeds section (IAS instead of CAS) Correction of typo on trim deflections

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