Messen | Prüfen | Bewerten

*Form: IB-EBL-GS Rev. 1.3 - 01.02.2014*

**Preceding report**
Issue 0

This report replaces the issue 0
from 25.07.2014
Issue 1
*english version*

# Inspection report

*Paraglider*

| | |
|---|---|
| Documentation number | **EAPR-GS-0248/14** |
| Subcontract | / |
| Customer | **SOL SPORTS Indústria e Comércio Ltda**<br>Caixa Postal 370<br>1180 Rio Molha<br>Brasil |
| Order from | 15.05.2014 |
| Order entrance | 15.05.2014 |
| Contents of order | Determining the classification and sufficient strength of a paraglider |
| Kind of order | comprehensive reference none |
| Place of Inspection | 87730 Bad Grönenbach, Sitz der Inspektionsstelle |
| Inspection item | **Lotus One M** |
| Serial number | 16584 Condition new |
| Inspection basis | **LTF 91/09, Pkt. 3., Pkt. 10., Anhang I, - EN 926-2:2005**<br>**IA 014 Rev. 1.7, EN 926-1:2006** |
| Testing period | 15.05.2014 to 30.06.2014 |
| Inspection date | **30.06.2014** |

This inspection report includes 7 pages including cover page and annex

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Die EAPR GmbH ist als
Inspektionsstelle nach ISO/IEC
17020 akrreditiert

**Cause**

This inspection is required due to the legal necessity for manufacturers of air sports equipment according to the LuftGerPV to have their product type inspected by an accredited inspection body in accordance with the applicable airworthiness requirements.

Pattern to be inspected: **Lotus One M**

| | | | |
|---|---|---|---|
| 1 | minimum take-off weight | kg | **85** |
| 2 | maximum take-off weight | kg | **100** |
| 3 | determined classification | EN/LTF | **LTF / EN C** |
| 4 | Proven max. strength | daN | **1214** |
| 5 | Weight | kg | **6,30** |
| 6 | Operations Manual, version | | **Vers. 06/2014** |
| 7 | Specifications, version | | **11.09.2014** |

Nothing was omitted from the original scope of inspection

The testflights were conducted by two EAPR-testpilots
With the exception of the shock and stress test all parts of the inspection work were performed by the EAPR

**Summary**

**The tested sample is in accordance with the legal requirements (Lufttüchtigkeitsforderungen) regarding the standards, procedures and subchapters listed in -Inspection basis-**

i.A.
Guido Reusch
Inspector and Head of Inspectionbody

Bad Grönenbach, 11.09.2014

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Messen | Prüfen | Bewerten

**Declaration of Design and Performance (DDP)**
11.09.2014

EBL-GS-DB - Stand 19.12.2012 - V5

# Paraglider

| | |
|---|---|
| Type testing | **EAPR-GS-0248/14** |
| Test sample | **Lotus One M** |
| Type testing owner | **SOL SPORTS Indústria e Comércio Ltda**<br>**Caixa Postal 370**<br>**1180 Rio Molha**<br>**Brasil** |

| | |
|---|---|
| Date of type testing declaration | **30.06.2014** |
| Manner of type of testing | **comprehensive** |
| Reference | **none** |

| | |
|---|---|
| Certified standards and procedures | **LTF 91/09, Pkt. 3., Pkt. 10., Anhang I, - EN 926-2:2005**<br>**IA 014 Rev. 1.7, EN 926-1:2006** |

| | |
|---|---|
| System weight without bag - kg | **6,3 kg** |
| Allowable min. payload | **85 kg** |
| Allowable max. payload | **100 kg** |
| Number of seats | **1** |
| Classification | **LTF / EN C** |
| Foot accelerater | **yes** |
| Trim device (hand operated) | **no** |
| suitable for training | **no** |

| | |
|---|---|
| Tested with foldinglines | **none** |

| Riser lenght mm | A | A2 | B | C | D | E |
|---|---|---|---|---|---|---|
| open-normal | **560** | **560** | **560** | **560** | | |
| Accelerated | **450** | **465** | **480** | **560** | | |
| closed | | | | | | |

| | | | |
|---|---|---|---|
| trailing edge | half | | **6350 mm** |
| Cell depth on lower surface form air intake to the trailing edge | Center cell or center rippe + | **1** | **2383 mm** |
| | | **9** | **2274 mm** |
| | | **18** | **1885 mm** |

| Center rippe + | R1 | R4 | R8 |
|---|---|---|---|
| 0 → A | **175 mm** | **165 mm** | **140 mm** |
| A → B | **560 mm** | **550 mm** | **460 mm** |
| B → C | **770 mm** | **750 mm** | **625 mm** |
| C → D | **370 mm** | **355 mm** | **300 mm** |

The measured values at the lower surface of the trailing edge, cell depth and spacing of the articulation points were determined under tensile load of 50 N.

line length: mm

| | A | B | C | D | E | Br |
|---|---|---|---|---|---|---|
| 1 | **7945** | **7885** | **7950** | **8055** | | **8230** |
| 2 | **7870** | **7805** | **7875** | **7985** | | **7975** |
| 3 | **7845** | **7780** | **7850** | **7960** | | **7795** |
| 4 | **7875** | **7815** | **7880** | **7985** | | **7740** |
| 5 | **7810** | **7755** | **7825** | **7925** | | **7605** |
| 6 | **7740** | **7690** | **7760** | **7855** | | **7535** |
| 7 | **7715** | **7665** | **7735** | **7825** | | **7495** |
| 8 | **7725** | **7685** | **7745** | **7820** | | **7490** |
| 9 | **7595** | **7570** | **7625** | | | **7470** |
| 10 | **7500** | **7475** | **7525** | | | **7415** |
| 11 | **7410** | **7395** | **7440** | | | **7365** |
| 12 | **7340** | **7330** | **7365** | | | **7325** |
| 13 | **7135** | **7110** | **7135** | | | **7315** |
| 14 | **7040** | **7060** | **7100** | | | **7300** |
| 15 | | | | | | **7285** |
| 16 | | | | | | **7290** |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

| | |
|---|---|
| Kind of measuring | **Lines with riser and links up to lower surface undertension load 50N** |

| | |
|---|---|
| Comments | **none** |

| | |
|---|---|
| Manual version dated | **Vers. 06/2014** |

| | |
|---|---|
| Periodical checks | **12 monath / 100 h** |

Bad Grönenbach, 30.06.2014

This explanation was provided electronically and is valid without signature