DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

G13EU
Revision 1
FLUG- & FAHRZEUGWERKE AG
HBV DIAMANT
DIAMANT 16.5

TYPE CERTIFICATE DATA SHEET NO. G13EU

This Data Sheet which is a part of type certificate No. G13EU 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
Flug- und Fahrzeugwerke AG
Altenrhein
9422 S T A A D
Switzerland

I. Model HBV DIAMANT, approved June 7, 1967

Air Speed Limits (IAS)
- Glide or dive: 145 knots
- Airplane tow: 81 knots
- Auto-winich tow: 81 knots
- Spoilers extended: 145 knots

C. G. Range
(+10") to (+15.4")

Datum
Wing leading edge at root rib

Leveling Means
Tangent on wing rib at root

Maximum Weight
660 lbs.

No. of Seats
1

Baggage
None

Control Surface Movements
- Elevator: UP 10° Down 10°
- Rudder: Right 10° Left 10°
- Aileron: UP 10° Down 10°
- Flaps neutral: UP 21° Down 9°
- Flaps up: UP 21° Down 2°
- Flaps down: UP 17° Down 15°
- Flaps: UP 10° Down 15°

II Model DIAMANT 16.5 approved 1 July, 1969

Model Diamant 16.5 same as HBV Diamant except for redesigned wing.

Air Speed Limits (IAS)
- Glide or dive: 130 knots
- Airplane tow: 80 knots
- Auto-winich tow: 80 knots
- Spoilers extended: 130 knots

C.G. Range
(+9.5") to (+16.0")
### II Model DIAMANT 16.5 approved 1 July, 1969 (cont’d)

**Datum**
- Wing leading edge at root rib

**Leveling Means**
- The fuselage reference line BL, which is parallel to a line defined by the following points:
  - Point "A" on the upper fuselage surface centerline at the aft edge of the canopy, and
  - Point "B" 1 3/8 inches above the upper fuselage surface centerline 40 inches aft of point "A".

**Maximum Weight**
- Without water ballast: 860 lbs
- With water ballast in the wings: 900 lbs

**Number of seats**
- 1

**Baggage**
- None

**Control surface movements**

<table>
<thead>
<tr>
<th>Control Surface</th>
<th>UP</th>
<th>Down</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elevator</td>
<td>10°</td>
<td>10°</td>
</tr>
<tr>
<td>Rudder</td>
<td>Right 30°</td>
<td>Left 30°</td>
</tr>
<tr>
<td>Aileron</td>
<td>Flaps neutral: UP 21°, Down 9°</td>
<td></td>
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<tr>
<td></td>
<td>Flaps down: UP 15°, Down 15°</td>
<td></td>
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<tr>
<td></td>
<td>Flaps up: UP 23°, Down 4°</td>
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<td></td>
<td>Flaps: UP 12.5°, Down 15°</td>
<td></td>
</tr>
</tbody>
</table>

**Data Pertinent to all Models**

**Serial Nos. Eligible**
- The Swiss Federal Air Office Certificate of Airworthiness for Export endorsed as noted below under "Import Requirements" must be submitted for each individual glider for which application for certification is made.

**Certification Basis**
- Type Certificate No.G13EU issued June 7, 1967
- Date of Application for Type Certificate: June 6, 1966

**Import Requirements**
- A U.S. Airworthiness Certificate may be issued on the basis of a Certificate of Airworthiness for Export signed by a representative of the Swiss Federal Air Office, containing the following statement: "The glider covered by this certificate has been examined and found to comply with FAR 21.23, FAA Basic Glider Criteria Handbook of 1962 and conforms to Type Certificate No.G13EU."

**Equipment**
- The Basic required equipment as prescribed in the applicable airworthiness regulations (See Certification Basis) must be installed in the glider for certification. In addition, the following is required:
  - For Model DIAMANT 16.5:

**NOTE 1:**
- Current weight and balance report including list of equipment included in certificated empty weight, and loading instructions when necessary, must be provided for each glider at the time of original certification.
NOTE 2: The following placards must be installed in full view of the pilot:

**Model HBV "DIAMANT"**

a) "Cloud flying": Permitted only when the following instruments are installed:
   1. Sensitive Altimeter
   2. Variometer
   3. Compass
   4. Electric Turn and Bank
   5. Clock

b) "No acrobatic maneuvers including spins approved".

c) "When flying in rough air do not exceed 90 knots".

d) "Night flying is prohibited".

**Model DIAMANT 16.5**

a) This sailplane must be operated in compliance with the Approved Sailplane Flight Manual.

Footnote:

All placard required in the Approved Sailplane Flight Manual must be installed in the appropriate locations.

NOTE 3: All external portions of the glider exposed to sunlight must be painted white. Registration and Competition numbers must be painted blue-gray, or in any other light colours.


NOTE 5: Major repairs must be performed in accordance with repair methods approved by the Flug- and Fahrzeugwerke AG, Altenrhein.

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