CIVIL AVIATION AUTHORITY
SAFETY REGULATION GROUP

MICROLIGHT TYPE ACCEPTANCE DATA SHEET (TADS)

NO: BMO-13 ISSUE: 2

TYPE

Typhoon/Hornet

(1) MANUFACTURER:

Wing: Solar Wings (UK)
Trike: Hornet Microlights (UK)

(2) UK IMPORTER:

N/A

(3) CERTIFICATION BASIS:

Reduced BCAR Section S, as per CAA letter of 17 January 1986, Ref: 9/30/UL18.

(4) DEFINITION OF BASIC STANDARD:

Not available (but see BMAA documents WS.003 and TS.003)

(5) DIMENSIONS/WEIGHTS FOR COMPLIANCE WITH MICROLIGHT DEFINITION

(a) Wing area (inc canard area, excluding winglets): 15.4 to 16.6 m²
(b) Span: 10 to 10.6 m
(c) Standard Mean Chord: 1.54 to 1.57 m
(d) Dry Empty Weight: 95 kg
(e) Max Take-Off Weight: 220 kg
(f) Wing Loading (Weight Empty/Wing Area): 5.7 to 6.2 kg/m²
(g) Wing Loading (Max Take-Off Weight/Wing Area): 13.3 to 14.3 kg/m²
(h) Fuel Capacity: 9 litres

(6) POWER PLANTS

Designation Typhoon/Hornet

Engine Type Fuji Robin

EC34PM Inv

Reduction Gear 2.34:1

Exhaust System Rotaflow

Intake System N/A

Propeller Type Farr Wood

Square Tip

Propeller Dia x Pitch 54" x 32"

Noise Type Cert No. 96M Issue 1

Noise requirement

<table>
<thead>
<tr>
<th></th>
<th>1 Seat</th>
<th>2 Seat</th>
<th>BCAR Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registered Pre 1/4/86</td>
<td>80 dBA</td>
<td>84 dBA</td>
<td>N3-6, 3 Iss 4</td>
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<tr>
<td>Registered Post 1/4/86</td>
<td>76 dBA</td>
<td>80 dBA</td>
<td>N3-6, 4 Iss 4</td>
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</table>
MANDATORY LIMITATIONS: * To be placarded

*(a) Max Take-off Weight: 220 kg
*(b) C G Limits: N/A
*(c) C G Datum:
*(d) Cockpit Loadings: Front Rear Total
   Pilot or Ballast (min) 55 kg 55 kg
   Pilot or Ballast (max) 90 kg 90 kg
*(e) Permanent Ballast, Weight and Position: None
*(f) Empty C G: N/A
*(g) Never Exceed Speed: 47 knots (55 mph)
*(h) Manoeuvring Speed:
*(i) Manoeuvre Limitations: Non Aerobatic
*(j) Fuel Contents (Max Usable): 2 gallons (9 litres)

(k) Power Plant: See Table

<table>
<thead>
<tr>
<th>Engine</th>
<th>Fuji Robin EC34PM Inv</th>
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<tbody>
<tr>
<td>Max RPM</td>
<td>7500</td>
</tr>
<tr>
<td>Max CHT</td>
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<tr>
<td>Max EGT</td>
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</tr>
<tr>
<td>Fuel Spec</td>
<td>2 Star Petrol/Oil</td>
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<tr>
<td>Engine Oil Spec</td>
<td>Self Mix 2 Stroke</td>
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<tr>
<td>Gearbox Oil Spec</td>
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</tr>
<tr>
<td>Fuel/Oil Mix</td>
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<tr>
<td>Oil Press</td>
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</tr>
<tr>
<td>Oil Temp</td>
<td></td>
</tr>
<tr>
<td>Coolant Temp</td>
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</table>
(8) INSTRUMENTS REQUIRED FOR TYPE APPROVAL:

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Required</th>
<th>0-55 mph</th>
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<tr>
<td>ASI</td>
<td>Required</td>
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</tr>
<tr>
<td>Altimeter</td>
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</tr>
<tr>
<td>RPM</td>
<td>Wrist Type</td>
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</tr>
<tr>
<td>Chth</td>
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<tr>
<td>Compass</td>
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<tr>
<td>EGT</td>
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<tr>
<td>Coolant Temp</td>
<td>Acceptable</td>
<td></td>
</tr>
</tbody>
</table>

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

- Pitch Control: Up: - Down: -
- Tailplane Trim: Up: - Down: -
- Ailerons: Up: - Down: -
- Rudder: Left: - Right: -
- Steering: Left: - Right: -
- Spoilers

(10) PILOT'S NOTES, MAINTENANCE MANUALS REFERENCES:

Not Available

(11) MANDATORY MODIFICATIONS/SERVICE BULLETINS/AIRWORTHINESS DIRECTIVES ETC:

BMAA Inspectors Manual. BMAA documents WS.003 and TS.003. See Appendix 1 of this document.

(12) MINIMUM PERFORMANCE AT MAX T/O WT

- Rate of Climb: 522 ft/min (Using Fuji Robin EC34PM Engine).
- Climb Speed:  
- Stall or Minimum Flying Speed: 28 mph
Notes:

1. G A Drawings and/or colour photographs illustrating the principal features of the aircraft submitted for type approval shall be attached to, and form part of, this Data Sheet.

<table>
<thead>
<tr>
<th>Issue</th>
<th>Date</th>
<th>CAA Approval</th>
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<tbody>
<tr>
<td>2</td>
<td>18 Dec. 1989</td>
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Amendments

Issue 2  S967 b) added to appendix 1
The Typhoon/Hornet must satisfy the modification and inspection provisions set out in BMAA documents WS.003 and TS.003 (latest issue). The areas affected are as follows:

a) Modifications

- S605 Front cable to be replaced by strut.
- S785 d) Pilot restraint and lap straps.
- S786 Safety helmet placard.
- S901 Powerplant installation.
- S967 b) Fuel tank (if installed above engine)
- S993 d) Fuel lines.
- S995 Fuel cock.
- S1141 Ignition switch wiring.
- S1303 1) Airspeed indicator
- S1303 2) Altimeter placard (where applicable).
- S1541 Placards.

b) Inspection

- S607 Wing batten retainers. Self locking nut on nosewheel steering bolt.
- S609 Keel and sail fabric. Fuel tank (possible distortion after rigging/derigging).
- S623 Negative load bracing wires on wing.
- S626 Cable swages and rigging cables.
- S627 Oversleeving of control frame uprights and cross bar. Wing nose catch.
- S775 Windshield (where fitted).
- S785 Safety harness/seat belt and attachments.
- S901 b) Powerplant installation.
- S925 Clearance between propeller and aircraft structure.
- S951 Fuel system - vapour locks.
- S959 Unusable fuel.
- S967 Fuel tank installation.
- S975 c) Fuel tank vents.
- S1301 1) Installed equipment.

In addition, Inspectors must pay attention to the relevant 'Spotlight' and Defect Warning Reports in the BMAA Inspectors Manual.
TYPHOON wing with typical trike.