UNITED KINGDOM
CIVIL AVIATION AUTHORITY

BAS 6
Issue 2
April 2004
LINDSTRAND HS 110

TYPE CERTIFICATE DATA SHEET No. BAS 6

This data sheet which is part of CAA Type Certificate No. BAS6 prescribes conditions and limitations under which the product, for which the type certificate was issued, meets the airworthiness requirements of the Civil Aviation Authority.

TYPE CERTIFICATE HOLDER:

Lindstrand Hot Air Balloons Ltd
Maesbury Road
Oswestry
Shropshire
SY10 8ZZ
England

MANUFACTURER:

Lindstrand Hot Air Balloons Ltd
Maesbury Road
Oswestry
Shropshire
SY10 8ZZ
England

AIRCRAFT TYPE/ MODEL NUMBER(S):

HS110 Hot Air Airship

TYPE DESIGN DEFINITION:

Drawing No. HS-110-A-001
Envelope Drawing No. HE-110-A-010
Gondola Drawing No. HG-001-A-001

CERTIFICATION BASIS:

BCAR Draft Paper 696 (second draft) Issue 1, dated 27 January 1978 and the relevant parts of BCAR 31 at Issue 1 and Appendix 1 to CAA letter ref: 9/30/1PA. In addition as the envelope is pressurised other than by ram or slipstream air, BCAR Section Q 3-3 3.1(a) gust case has been applied and the tear resistance properties of the envelope was required to be substantiated by full scale tear tests.

CAA Airworthiness Notice No. 33 Unprotected Starter Circuits,
CAA Airworthiness Notice No. 88 Bus bar Low Voltage Warning

CERTIFICATION CATEGORY: Aerial Work

OPERATIONAL CATEGORY: Day/VMC and night/VMC when Modification No. L33 is embodied

FLIGHT MANUAL: LBL HAA FM Document. Amendment 1 must be included for flight by night.

ENGINE:

Propulsion: Rotax 582 UL (2 cylinder 2 cycle)

Inflation: Honda 5.5 hp single cylinder four cycle with ten bladed fan.

PROPELLER: Arplast DAS 152

MAXIMUM WEIGHTS:

	Kg	Lb
Maximum take-off weight	900	409
Maximum landing weight	900	409

DIMENSIONS:

Envelope			
Volume	cu.m (cu. ft)	3398	110,000
Length	m (ft)	36.5	118.1
Diameter	m (ft)	13.02	42.7
Fineness ratio		2.8	

MINIMUM CREW: One (1) pilot

MAXIMUM OCCUPANTS: Two (2)

OPERATING LIMITATIONS: Contained in Flight Manual

MANDATORY MAINTENANCE INSTRUCTIONS: Maintenance Schedule Document LBL HAAMS.

NOISE: Not applicable.

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