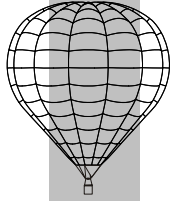


FLIGHT MANUAL SUPPLEMENT 42

Special Shape F-34 "Metten"



**S
4
2
S
P
E
C
I
A
L
S
H
A
P
E
F
-
3
4
M
E
T
T
E
N**

42.1 General Information

In this supplement are introduced the particular characteristics and limitations of the hot air balloon special Shape F-34 "Metten".

It will be kept the same numbering of the different sections with the §42.X to know at which sections correspond of the Main Manual, accepting they are substituted or appended by the indicated in this supplement.

42.2 Limitations of use

F-34 Special Shape will have the vertical speeds of ascent and descent and the Maximum Wind speed at Take Off limited in the following manner:

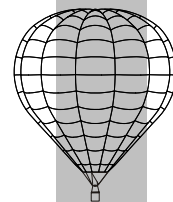
Model	Vmax Ascent	Vmax Descent	Max Wind Speed
F-34	3 m/s	3 m/s	10 Knots

42.3 Emergency procedures

No change.

42.4 Standard procedures

No change.



42.5 Loading

42.5.2 Table of Empty Weight and Maximum Lift

For the calculations in the Load Chart of chapter 5 of the Flight Manual will be used the following characteristics:

Model	V	Basket	Pv	Lmax
F-34	3400	C-1	278	1173
		C-3	298	1173
		C-4	317	1173
		C-10	307	1173

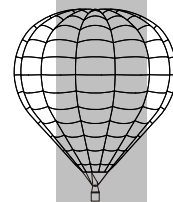
V = Effective volume [m³]

Pv = Empty weight (without any cylinder) [Kg]

Lmax = Maximum authorised Lift [Kg]

42.5.4 Table of Compatibility

SIZE	F-34
BURNERS	
BMK-008 Double	*
MK-21 Double	X
BASKETS	
C-1	X
C-3	X
C-4	*
C-10	X
ROT. VENTS	*
FDS	*
MIN.CYL.	2



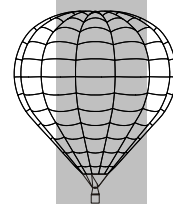
42.6 Balloon and Systems Description

See following table corresponding to mass and dimensions:

SERIES F	
Type	F-34
Vol. (m ³)	3892
Effective vol. (m ³)	3400
Number of gores	24
FAI class	AX-9
Total height (m)	23.6
Standard basket	C-4
Weight in Standard configuration (Kg)	374*
Envelope	
Height (m)	19.9
Max Diameter (m)	26.4
Diameter at the Mouth (m)	3.8
Weight (Kg)	198
Parachute	
Diameter (m)	6.5

* incl. 2 M-30D cylinders at 10%, C-4 basket, MK-21 double burner/frame, envelope and minimum equipment

**S
4
2
S
P
E
C
I
A
L
S
H
A
P
E
F
-
3
4
M
E
T
T
E
N**



42.7 Balloon Maintenance, Handling and Care

Annual Inspection or every 100 hours (Type B)

All revisions will be type C.

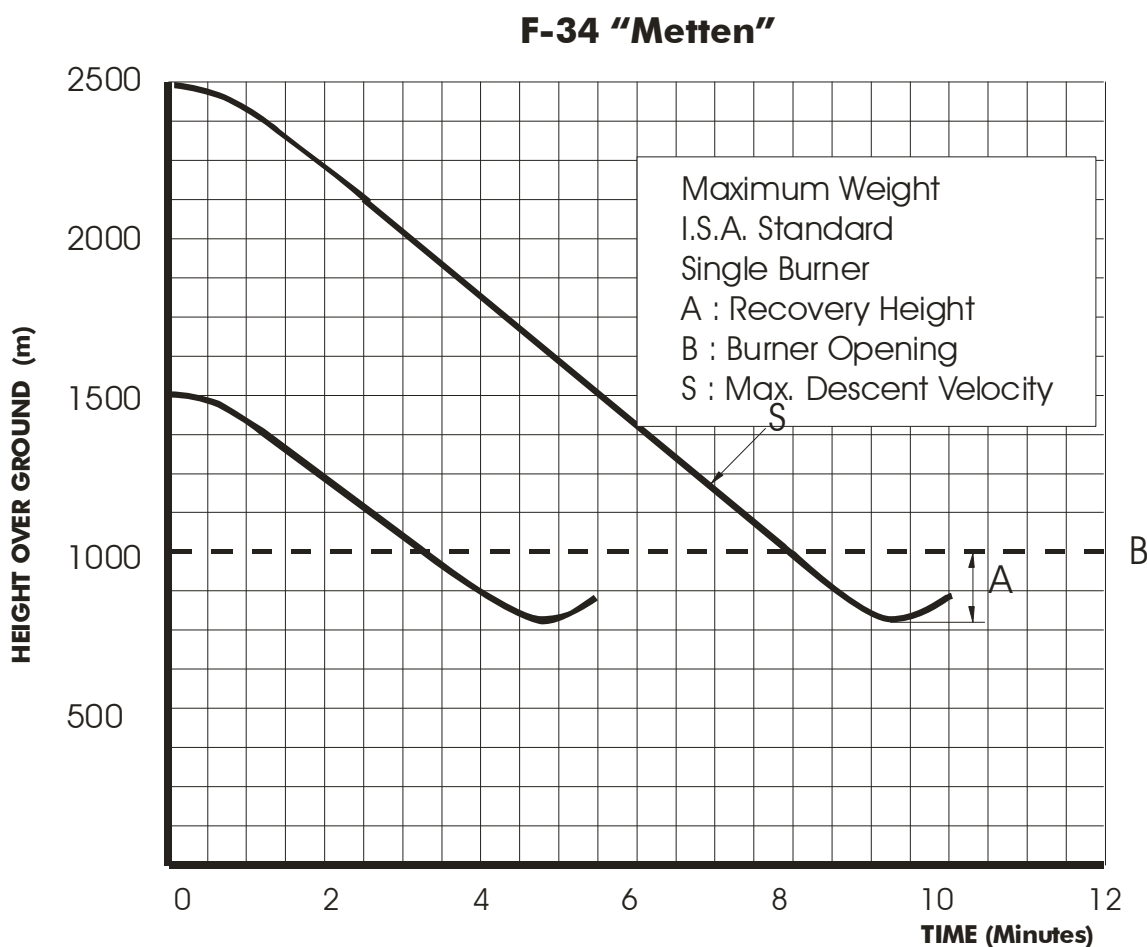
42.8 Other manufacturer's equipment

Add the following:

Consider the F-34 "Metten" as an Ultramagic envelope of 120.000 ft³ for eligibility purposes. A maximum Lift of 1173 kg must be applied.

42.A Vertical Velocities and Altitude Recovery

Add following graph:



Legal advice: METTEN is a trademark of Metten Fleischwaren GmbH & Co. KG

**S
4
2
S
P
E
C
I
A
L
S
H
A
P
E
F
-
3
4
M
E
T
T
E
N**