



DEUTSCHER HÄNGEGLEITERVERBAND e.V.
Fachverband der Drachensegler in der Bundesrepublik Deutschland

Geschäftsstelle
Klosterwohlstr. 17
8100 Tegernsee

Type-Sheet for Hang Glider

1. General Figures:

Type and FAI Class WEIGHT SHIFT FLEX WING - CLASS ONE
Manufacturer WILLS WING, INC.
Type and Model SPORT 150
Serialnumber _____ Approval Nr. _____
Year and Month of manufacture _____ projected area m² 13.9
Empty weight (kg without packing case harness or other accessoires) 24.5
Minimum load (kg) 56.8 maximum load (kg) 95.5
Wingspan (m) measured between farthest sailpoints 9.6
Position of Hangpoint (mm) measured from the tip of the Glider
minimum 1416 maximum 1467

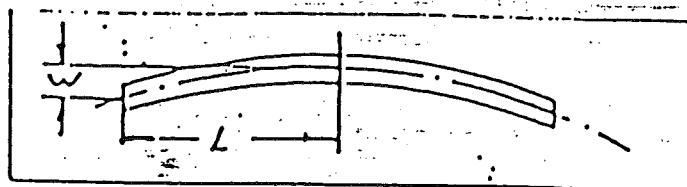
2. Frame measurements

(mm)		Outside Diameter D				Wall-thickness W				Material M				Holeposition from End of Tube B				
Name	length	D ₁	D ₂	D ₃	D ₄	W ₁	W ₂	W ₃	W ₄	M ₁	M ₂	M ₃	M ₄	B ₁	B ₂	B ₃	B ₄	B ₅
Leading Edge	5480	52	50	52	50	1.8	.9	1.8	.9	7075	76			25	3353			
Keel	3429	44	42	44	42	1.8	.9	1.8	.9	7075	76							
Crossbeam	2975	62	60	62		1.8	.9	1.8		7075	76			12.7	83.9	289.1	2962.3	
Contr. Uprights	1683	28.6				1.5				6061	-76			12.7	22.2	1670.3		
Contr. Base	1451	28.6				1.5				6061	-76			12.7	31.75	1438.3		
Ingpst	1197	25x	63.5	STREAMLINE		2.1	1.2			6061	-76							

Name of Wire	D	S	L
(example)			
Lower Sidewire	8	7 x 7	214
LOWER SIDE WIRE	2.4	7x7	269.7
BOTTOM FRONT	2.4	7x7	184.3
BOTTOM REAR	2.4	7x7	204.2
TOP SIDE	2.4	7x7	324.2
TOP FRONT	2.4	7x7	176.9
TOP REAR	2.4	7x7	164.5
BRIDLE INNER	1.2	7x7	154.0
BRIDLE OUTER	1.2	7x7	204.2

D = Diameter S = Number of Single Wires L = Length between insides of thimbles

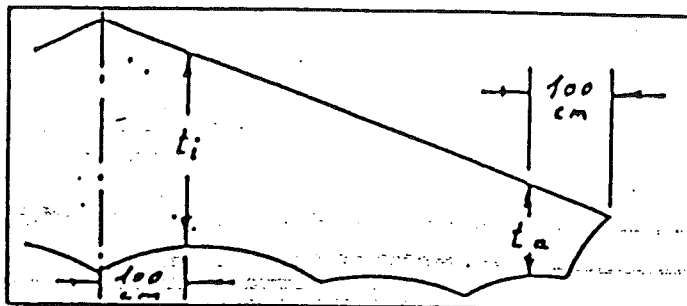
Tube-Camber (mm)		W		W	
name	L (m)	min	max	min	max
Leading Edge	5.48	0	50	50	180
Wossboom	2.98	0	0	0	0
el	3.43	20	30	0	0



Depth of Profile (cm)

Upper Profile $t_1 = 185$

Lower Profile $t_a = 112$



Wing (cm)

Height H measured from top of Keel and Sail - Trailing Edge

Wing at Luff-Lines

$h_1 = 5$ $h_{2,1} = 9.9, 12.7$

Height of Keel

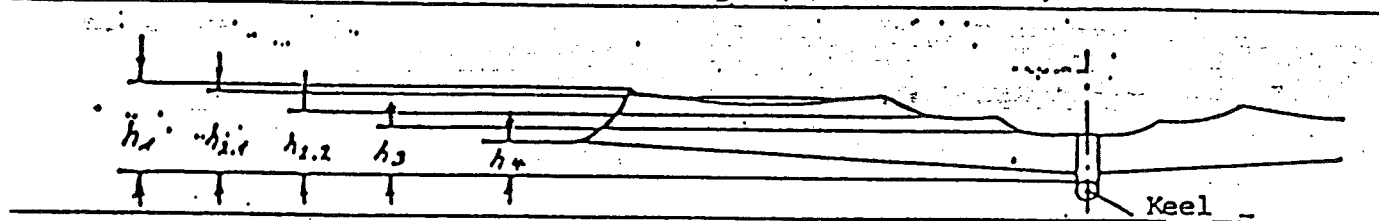
$h_3 = \emptyset$ pocket

V-Form

h_4

Basis = -27

Turn = -13



Other Characteristics

(Camber of performed battens for example)

(SEE ATTACHED SHEET)

Ausfertigung vom Original.

Gmund, den 20.06.86



F.L.Y. International

Markus Willinger
Arzlerstraße 118 • 05222-03266
A-6020 Innsbruck

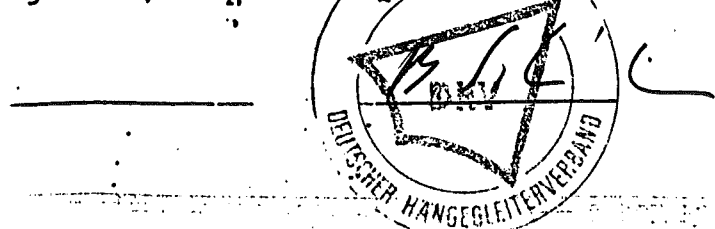
Michael Meier

WILLS WING
1208 Unit H East Walnut
SANTA ANA, CALIFORNIA 92701

Type approved / Modification approved

Place, Date Gmund 20.06.1986

Signature/Stamp of DHV-Qualification Office



The above mentioned Glider is identical with the Original-Tested, under consideration of mentioned approved Modifications

Place, Date 06-87

Signature/Stamp Manufacturer

Michael Meier MICHAEL MEIER