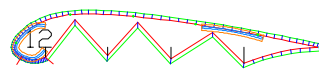
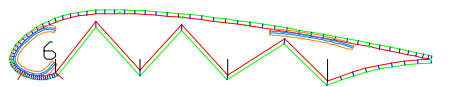
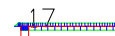
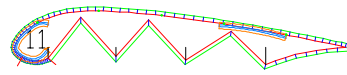
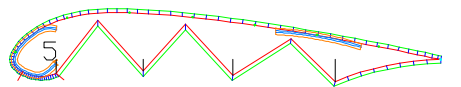
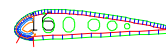
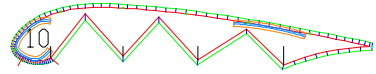
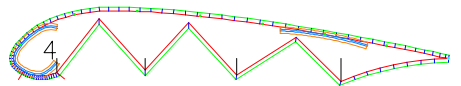
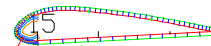
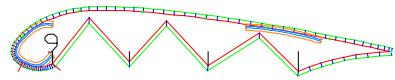
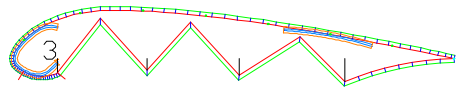
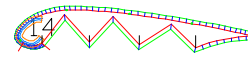
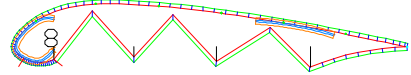
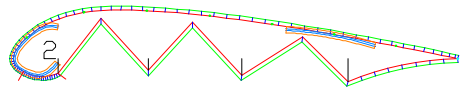
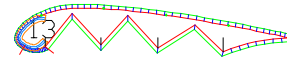
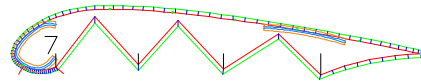
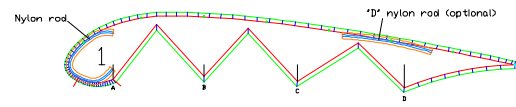


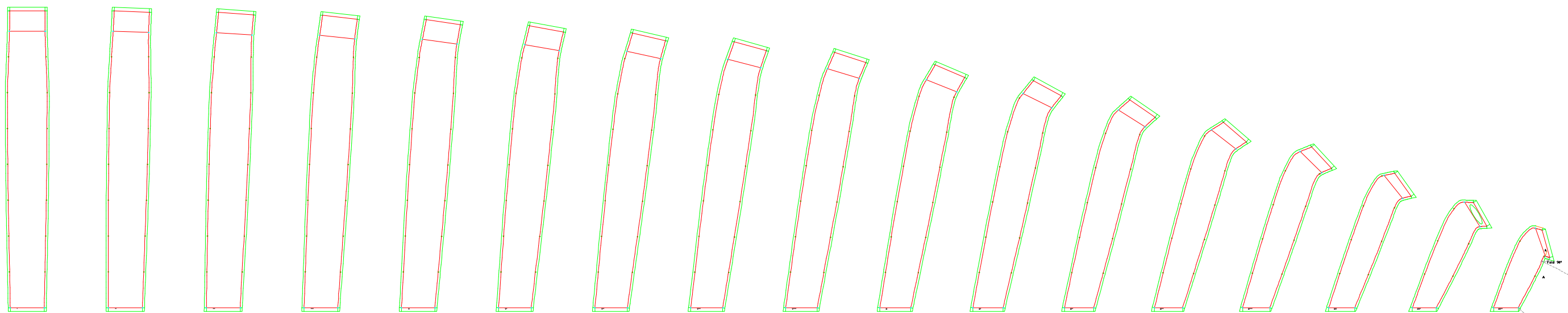
LABORATORI D'ENVOL BHL7-10  
 Flat area (m<sup>2</sup>) : 10.00  
 Flat span (m) : 7.04  
 Flat aspect ratio : 4.96  
 Cells number : 33

1-1 PLANFORM AND VAULT



UNITS = cm SCALE x10 TO PRINT IN mm

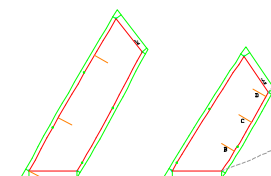
Leading edge



UPPER SURFACE

Trailing edge

Trailing edge

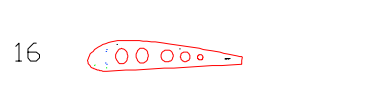
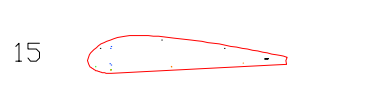
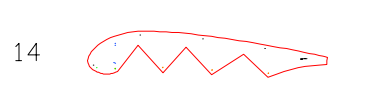
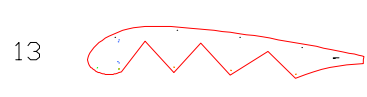
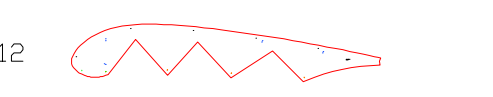
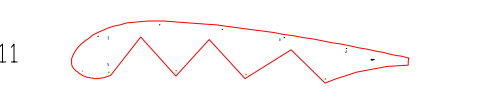
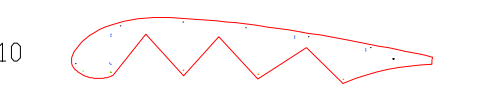
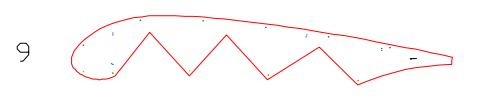
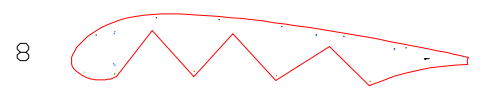
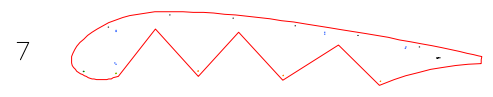
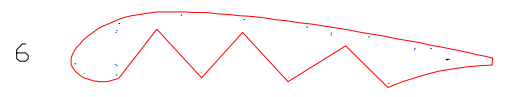
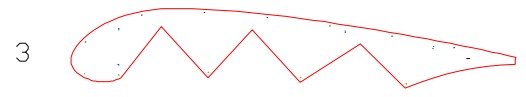
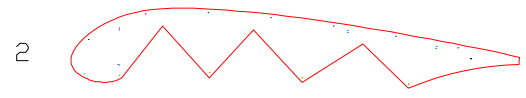
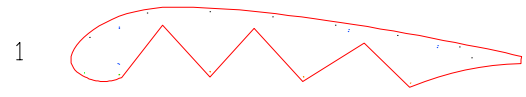


Leading edge

LOWER SURFACE

UNITS = cm SCALE x10 TO PRINT IN mm

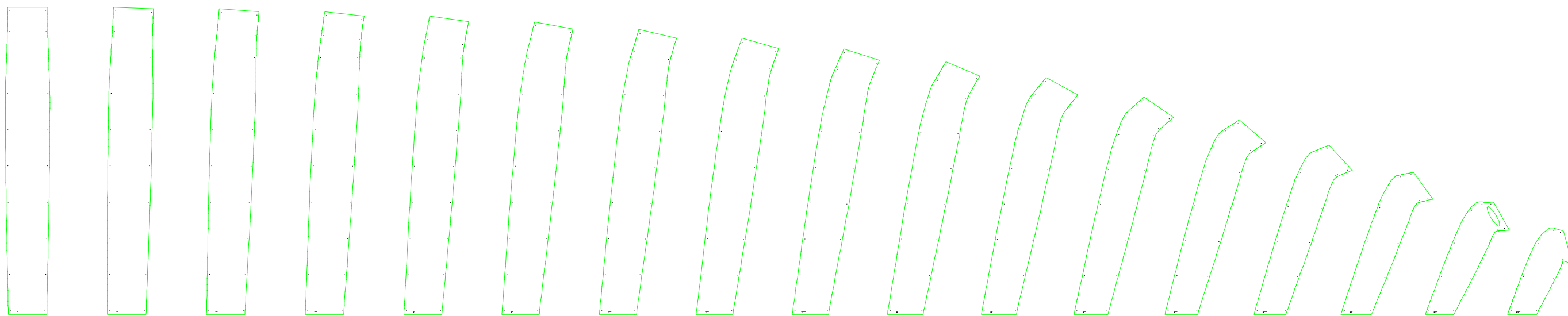
1-3 PANELS



UNITS = cm SCALE x10 TO PRINT IN mm

1-4 RIBS (FOR CUTTING TABLE)

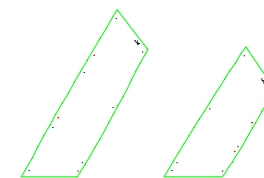
Leading edge



UPPER SURFACE

Trailing edge

Trailing edge

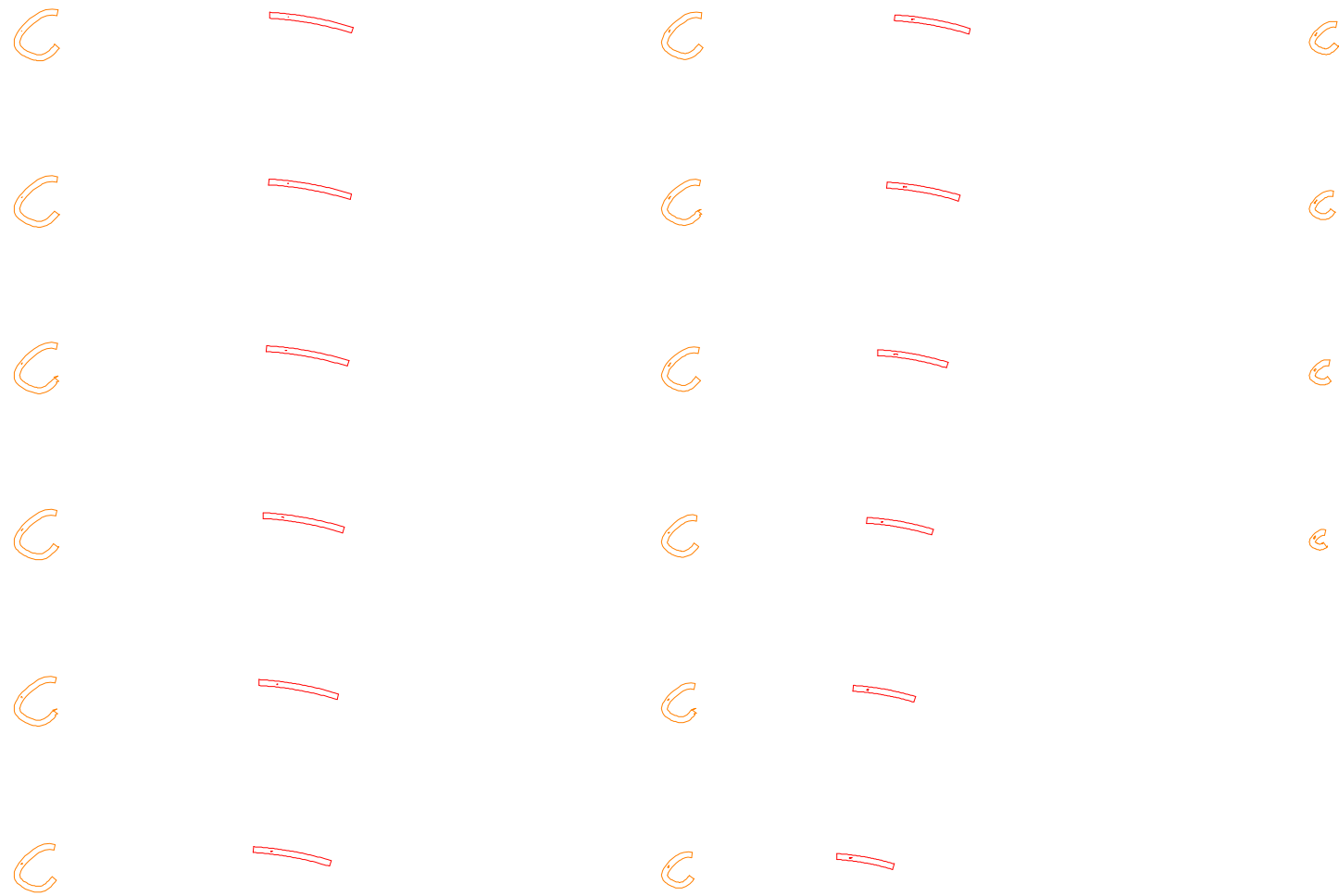


Leading edge

LOWER SURFACE

UNITS = cm SCALE x10 TO CUT IN mm

1-5 PANELS (FOR CUTTING TABLE)



List of nylon rods (bloc 1)

Group 1		
Jonc	1	46.7
Jonc	2	46.5
Jonc	3	46.1
Jonc	4	45.5
Jonc	5	44.7
Jonc	6	43.7
Jonc	7	42.5
Jonc	8	41.0
Jonc	9	39.4
Jonc	10	37.3
Jonc	11	34.8
Jonc	12	31.9
Jonc	13	28.4
Jonc	14	24.6
Jonc	15	19.9
Jonc	16	15.4


List of nylon rods (bloc 2)

Group 1		
Jonc	1	36.0
Jonc	2	35.9
Jonc	3	35.5
Jonc	4	35.1
Jonc	5	34.5
Jonc	6	33.7
Jonc	7	32.8
Jonc	8	31.7
Jonc	9	30.4
Jonc	10	28.8
Jonc	11	26.9
Jonc	12	24.6

## Horizontals straps

0 1  


4 5  


9 10  


Option: substitute ripstop bands by polyester straps:

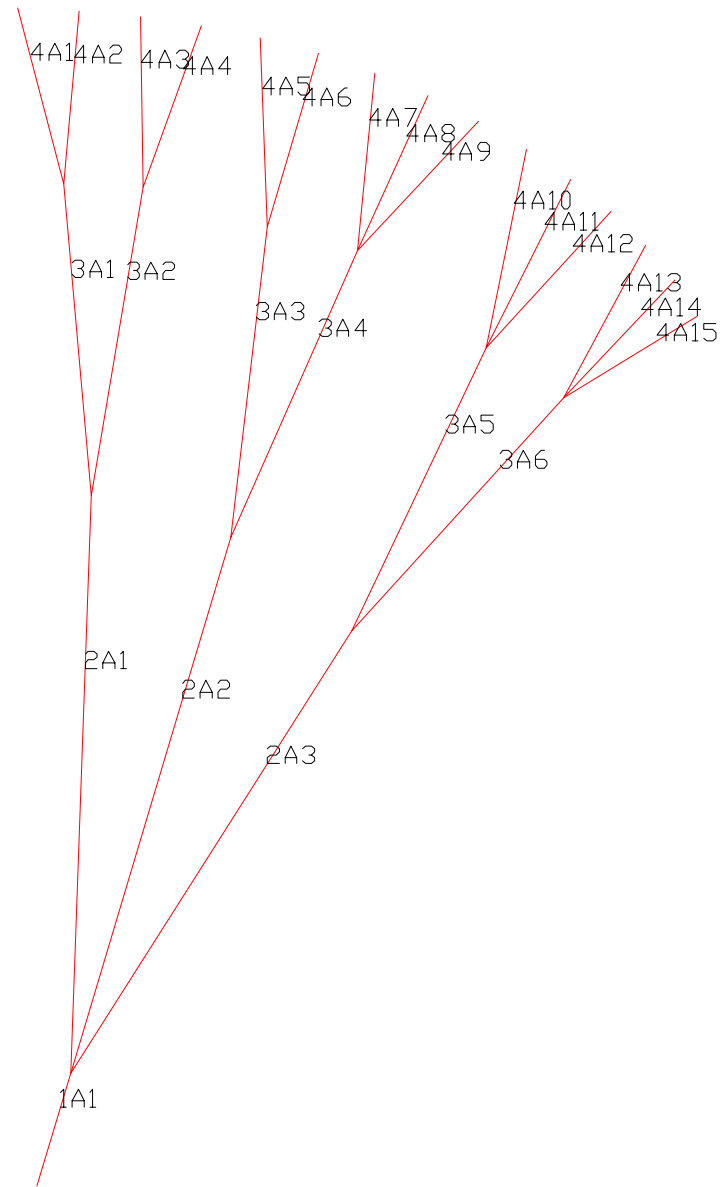
0-1 = 24.6 cm

4-5 = 24.1 cm

9-10 = 22.4 cm

Line - Label - Length

1	1A1	47.0
2	2A1	230.9
3	2A2	222.9
4	2A3	207.9
5	3A1	124.9
6	3A2	124.9
7	3A3	124.9
8	3A4	124.9
9	3A5	124.9
10	3A6	124.9
11	4A1	72.9
12	4A2	69.5
13	4A3	67.9
14	4A4	68.2
15	4A5	75.6
16	4A6	72.1
17	4A7	71.3
18	4A8	67.8
19	4A9	70.3
20	4A10	81.2
21	4A11	74.9
22	4A12	73.2
23	4A13	69.2
24	4A14	64.4
25	4A15	63.2

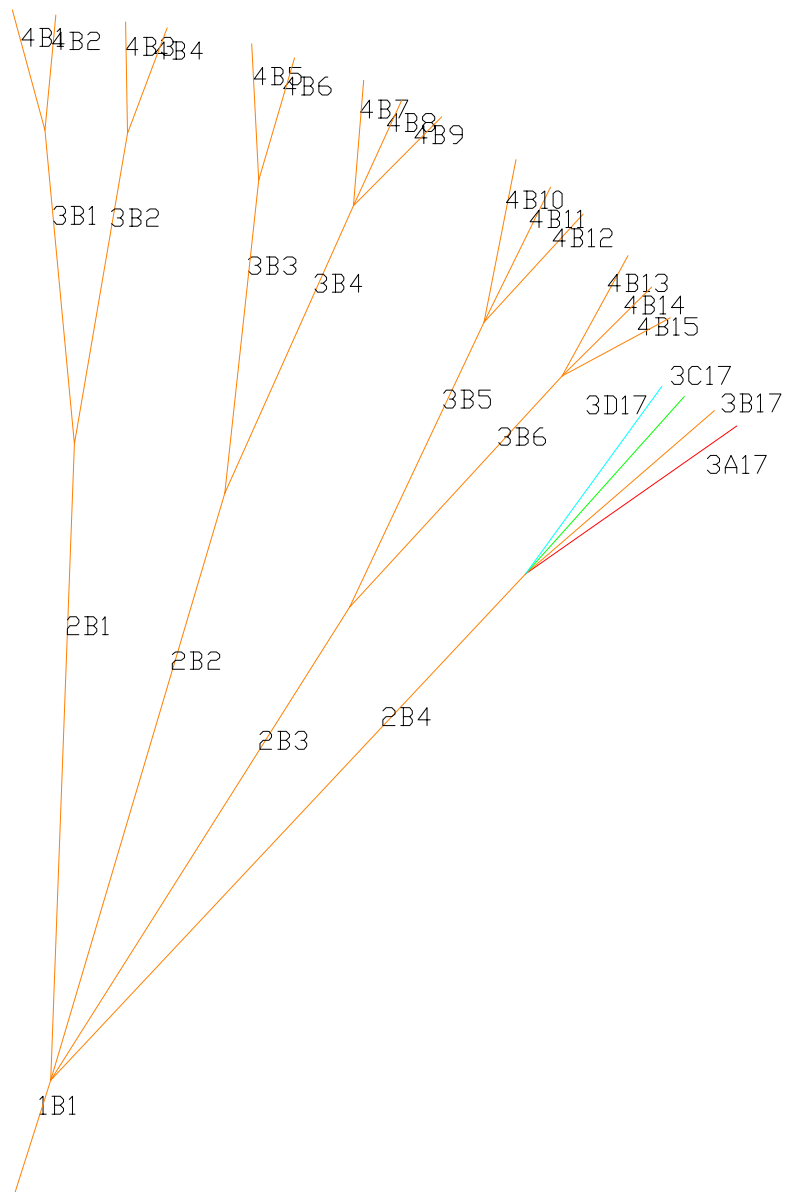


3-2 LINES A



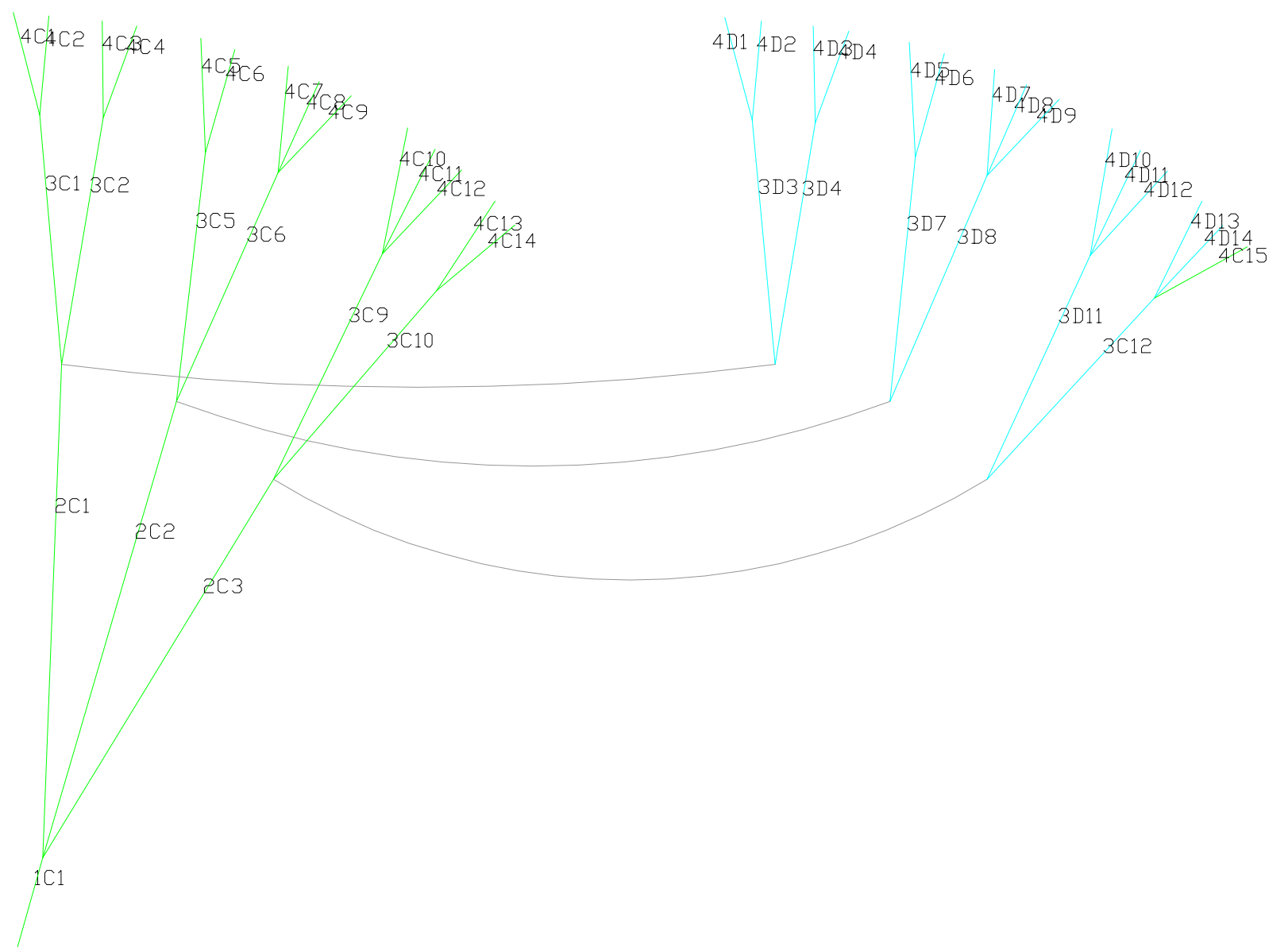
Line - Label - Length

26	1B1	47.0
27	2B1	252.9
28	2B2	242.9
29	2B3	221.9
30	2B4	277.0
31	3B1	124.9
32	3B2	124.9
33	3B3	124.9
34	3B4	124.9
35	3B5	124.9
36	3B6	124.9
37	3A17	98.4
38	3B17	98.9
39	3C17	101.2
40	3D17	104.5
41	4B1	49.5
42	4B2	46.0
43	4B3	44.4
44	4B4	44.8
45	4B5	54.4
46	4B6	50.6
47	4B7	50.0
48	4B8	46.4
49	4B9	49.7
50	4B10	66.0
51	4B11	59.8
52	4B12	58.4
53	4B13	54.5
54	4B14	50.1
55	4B15	51.4



Line - Label - Length

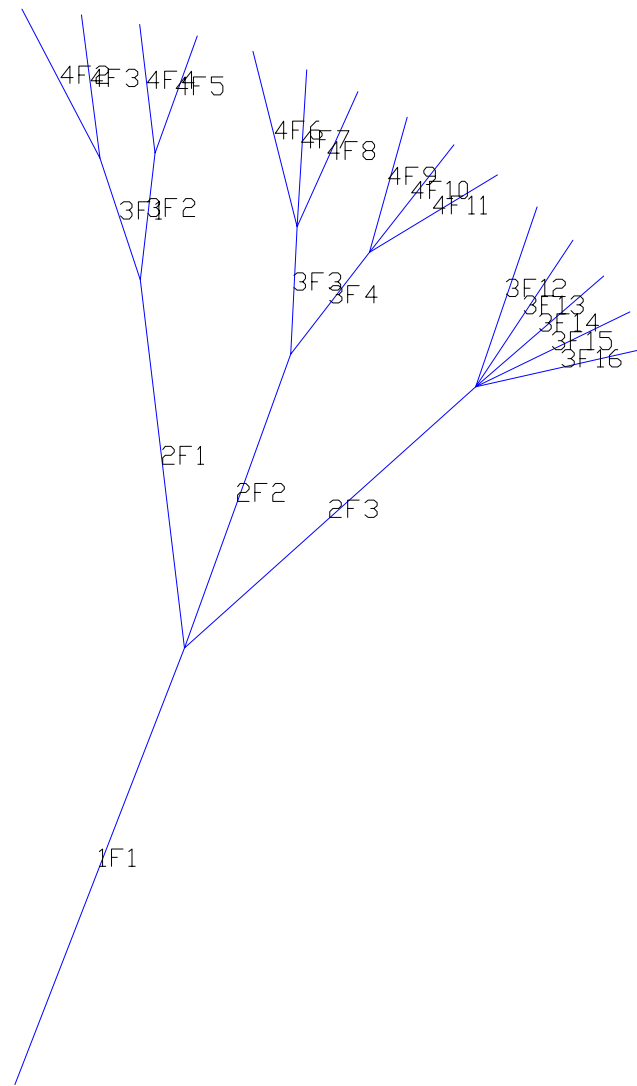
56	1C1	47.0
57	2C1	246.9
58	2C2	237.9
59	2C3	221.9
60	3C1	125.0
61	3C2	125.0
62	3D3	125.0
63	3D4	125.0
64	3C5	125.0
65	3C6	124.9
66	3D7	125.0
67	3D8	125.0
68	3C9	125.0
69	3C10	125.0
70	3D11	125.0
71	3C12	125.0
72	4C1	53.2
73	4C2	49.8
74	4C3	48.4
75	4C4	48.8
76	4D1	54.8
77	4D2	51.5
78	4D3	50.0
79	4D4	50.2
80	4C5	57.3
81	4C6	53.8
82	4C7	53.4
83	4C8	50.0
84	4C9	53.0
85	4D5	58.9
86	4D6	55.2
87	4D7	54.8
88	4D8	51.1
89	4D9	53.6
90	4C10	64.4
91	4C11	58.7
92	4C12	57.8
93	4C13	53.3
94	4C14	51.1
95	4D10	65.6
96	4D11	59.6
97	4D12	58.4
98	4D13	55.5
99	4D14	51.2
100	4C15	54.4



3-4 LINES C

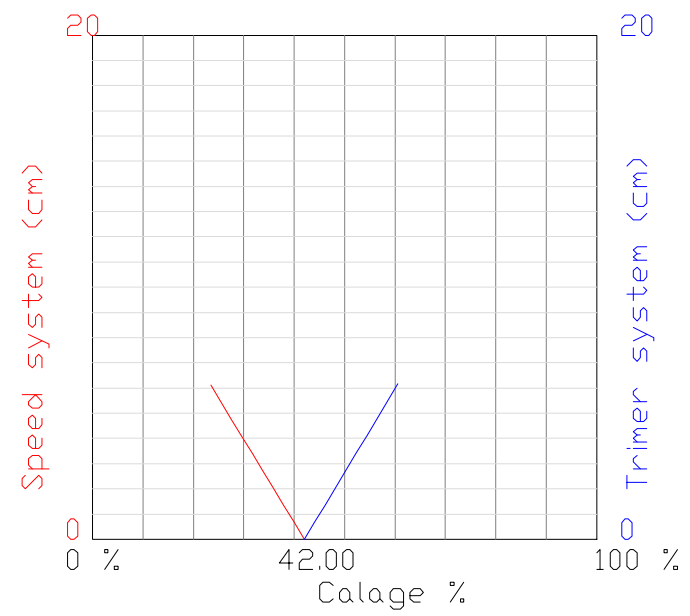
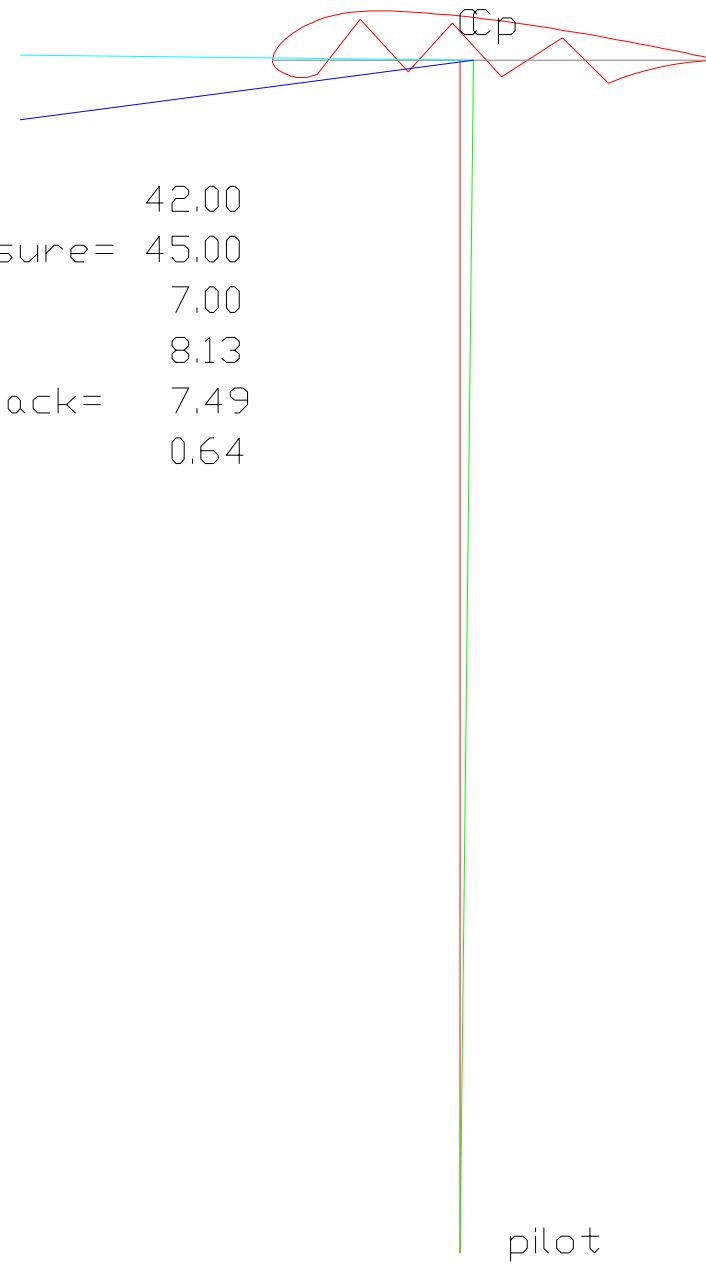
Line - Label - Length

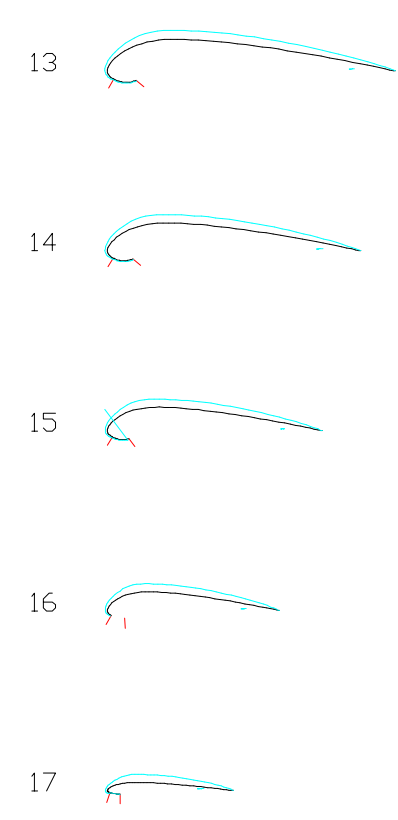
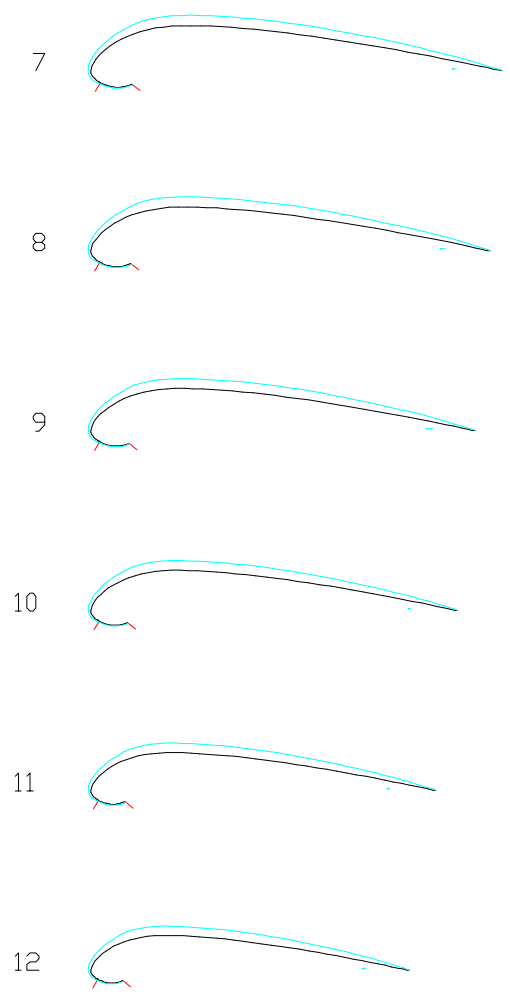
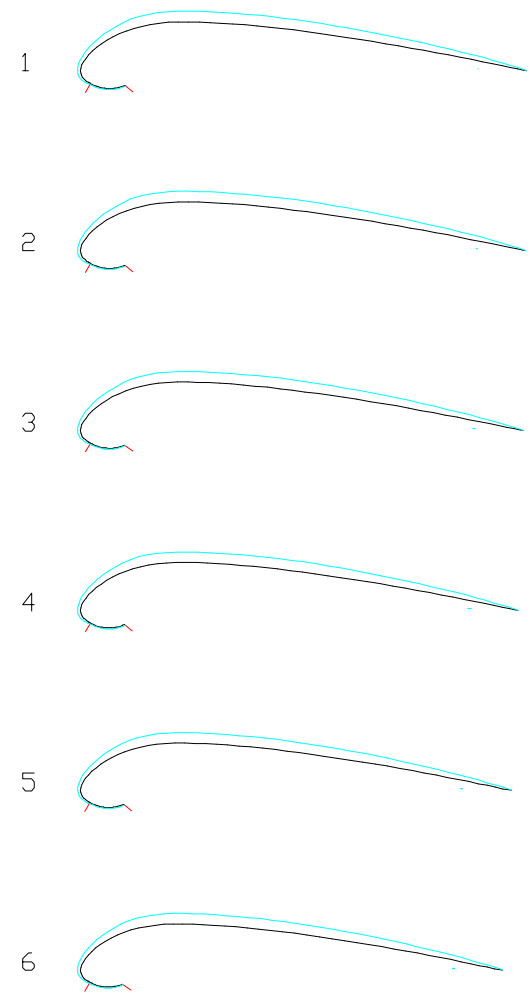
101	1F1	190.0
102	2F1	151.0
103	2F2	127.0
104	2F3	157.0
105	3F1	52.0
106	3F2	52.0
107	3F3	52.0
108	3F4	52.0
109	3F12	77.6
110	3F13	71.2
111	3F14	68.0
112	3F15	68.3
113	3F16	70.6
114	4F2	68.4
115	4F3	58.9
116	4F4	52.8
117	4F5	50.4
118	4F6	73.6
119	4F7	63.9
120	4F8	59.9
121	4F9	57.1
122	4F10	55.1
123	4F11	59.6



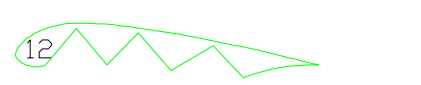
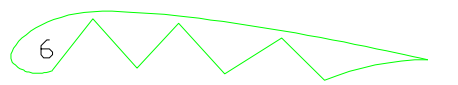
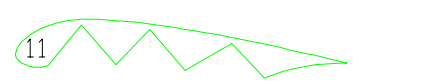
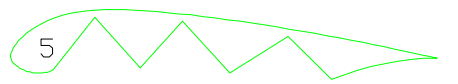
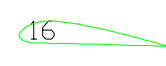
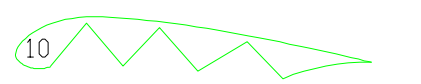
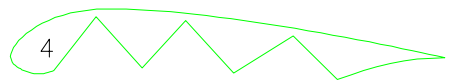
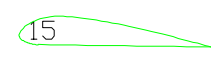
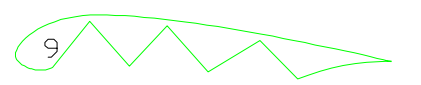
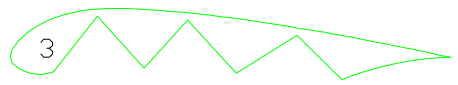
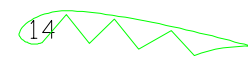
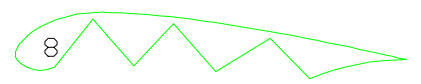
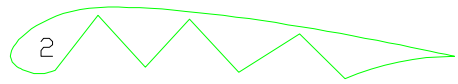
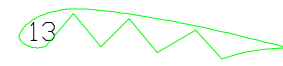
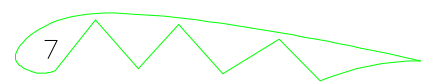
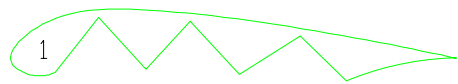
4-5 BRAKES

calage= 42.00  
center pressure= 45.00  
glide ratio= 7.00  
glide angle= 8.13  
angle of attack= 7.49  
assiette= 0.64

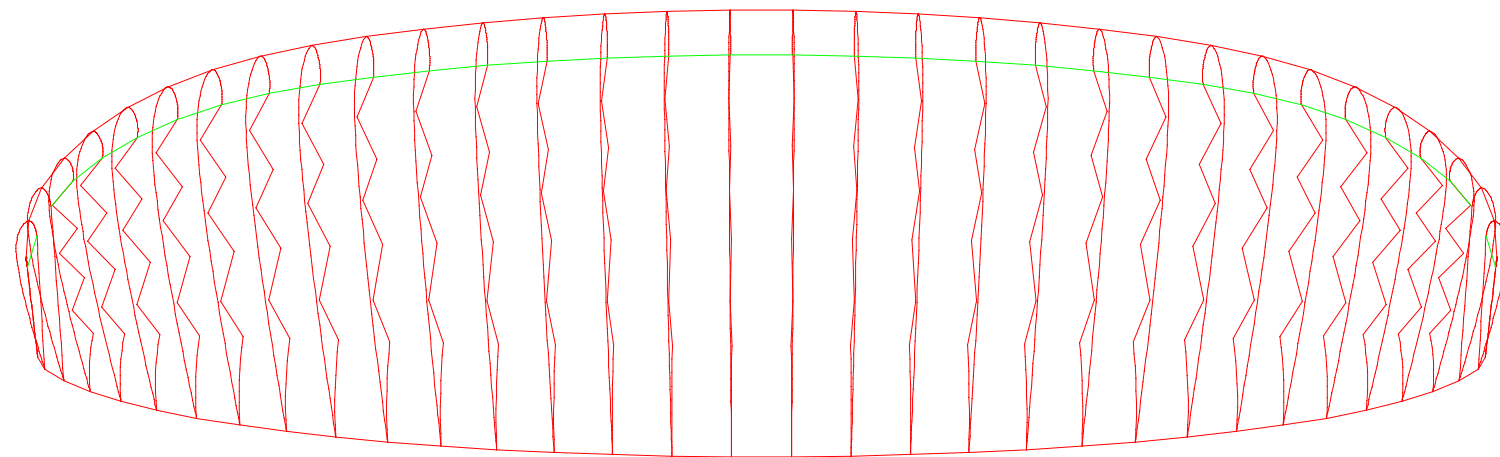




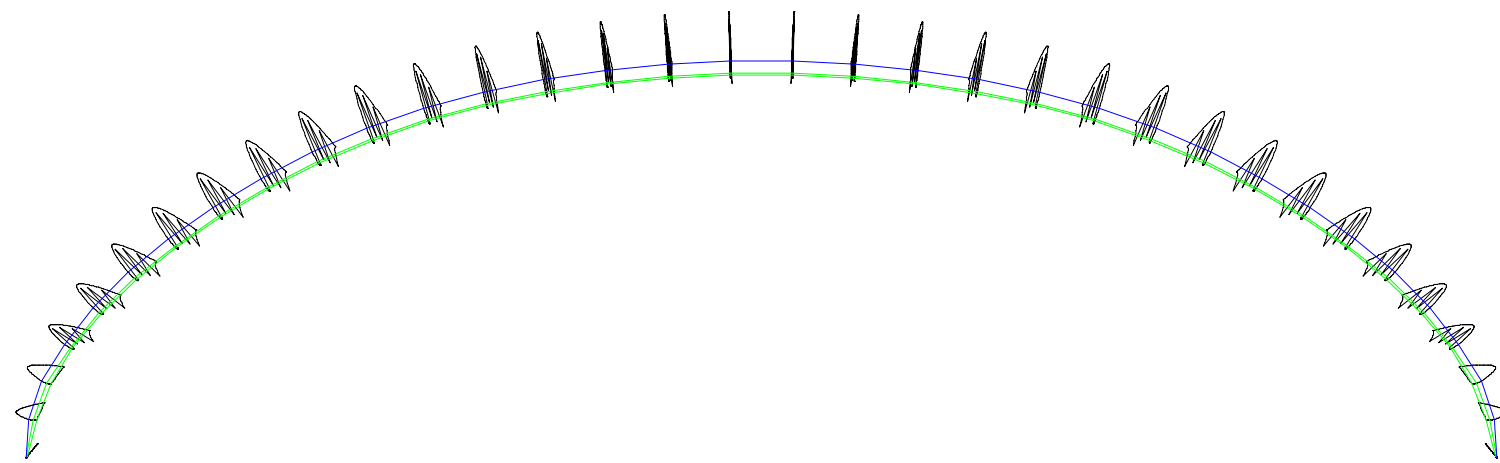
1-8 MIDDLE AND MIDDLE OVALIZED AIRFOILS



2-2 RIBS WASHIN ANGLE

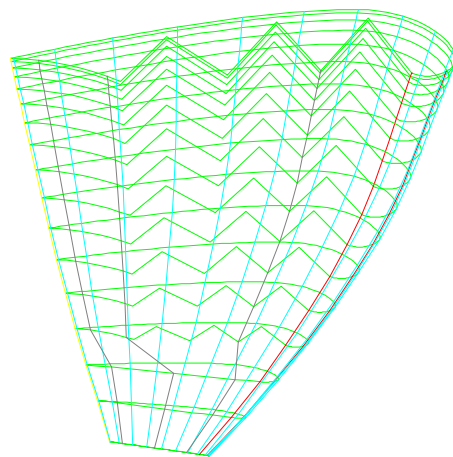


3-1 UPPER VIEW



4-1 VAULT VIEW





4-2 LATERAL VIEW

## PLANS GENERAL NOTES

- 1-1: Planform and vault view (informative)
- 1-2: Ribs for plotter, one side
- 1-3: Panels for plotter, one side
- 1-4: Ribs for laser cutting, one side. Units cm
- 1-5: Panels for laser cutting, one side. Units cm
- 1-6: Middle unloaded ribs for laser cutting, one side Units cm
- 1-7: Rods pockets and nylons lengths, mylars
- 1-8: Intermediate and ovalized airfoils
  
- 2-1: Calage estimation, speed and trim systems
- 2-2: Ribs printed with washin angle (informative)
- 2-3: Intrados panels for plotter, one side
- 2-4: Mini-ribs horizontal and diagonal
- 2-5: Intrados for laser cutting, one side
- 2-6: Full diagonal ribs laser, one side
- 2-7: Free
  
- 3-1: Upper view 3D (informative)
- 3-2: Lines A
- 3-3: Lines B
- 3-4: Lines C
- 3-5: Lines D
- 3-6: V-rib type-6
- 3-7: Free
  
- 4-1: Vault view (informative)
- 4-2: Lateral view (informative)
- 4-3: Brake distribution (informative)
- 4-4: Free
- 4-5: Brake lines
- 4-6: Free
- 4-7: General notes

## UNITS

Main units are centimeters. Scale x10 to use in mm

## WIDTHS FOR SEWING AND OFFSETS

- Lateral width in extrados (mm): 15.00
- Width in leading edge ex (mm): 25.00
- Width in trailing edge ex (mm): 25.00
- Lateral width in intrados (mm): 15.00
- Width in leading edge in (mm): 25.00
- Width in trailing edge in (mm): 25.00
- Lateral width in ribs (mm): 15.00
- Lateral width in V-ribs (mm): 15.00
- General offset lateral points (mm): 1.20
  
- Distance between equidistant points (cm): 25.00

## "ROMAN" NUMBERS CODIFICATION

Numbering panels, ribs, mini-ribs, V-ribs

- Number 1 = .....
- Number 2 = .....
- Number 3 = .....
- Number 4 = .....
- Number 5 = .....
- Number 6 = .....
- Number 7 = .....
- Number 8 = .....
- Number 9 = .....
- Number 10 = .....
- Number 11 = .....
- Number 12 = .....
- Number 13 = .....
- Number 14 = .....
- Number 15 = .....
- Number 16 = .....
- Number 17 = .....