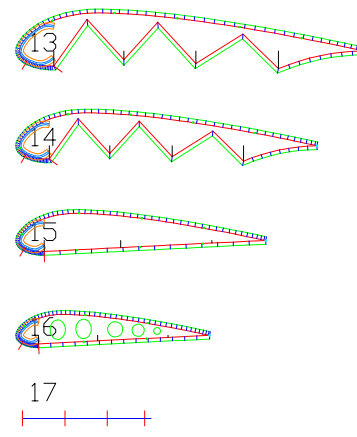
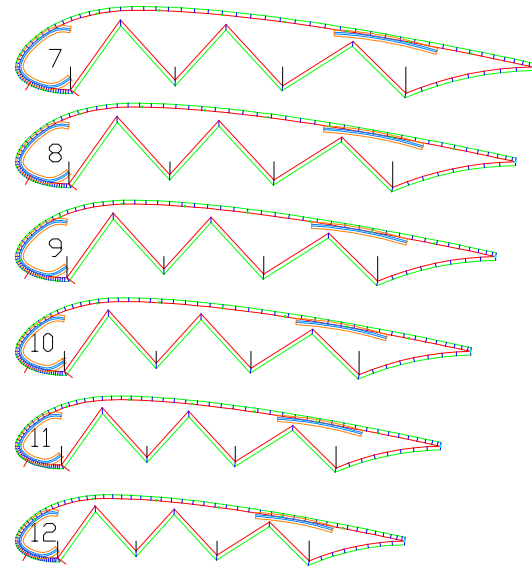
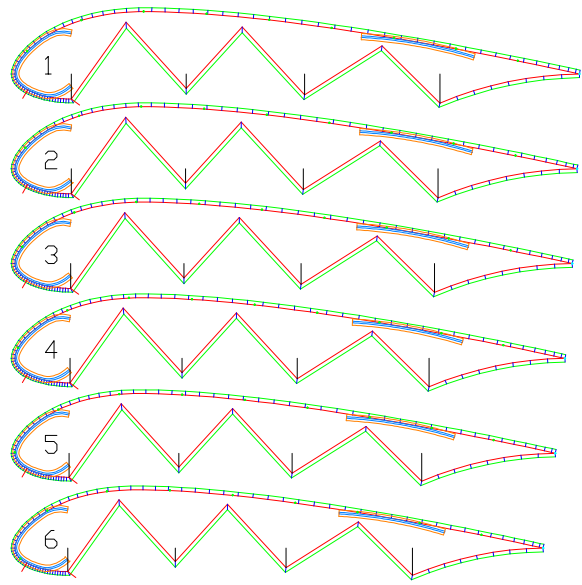
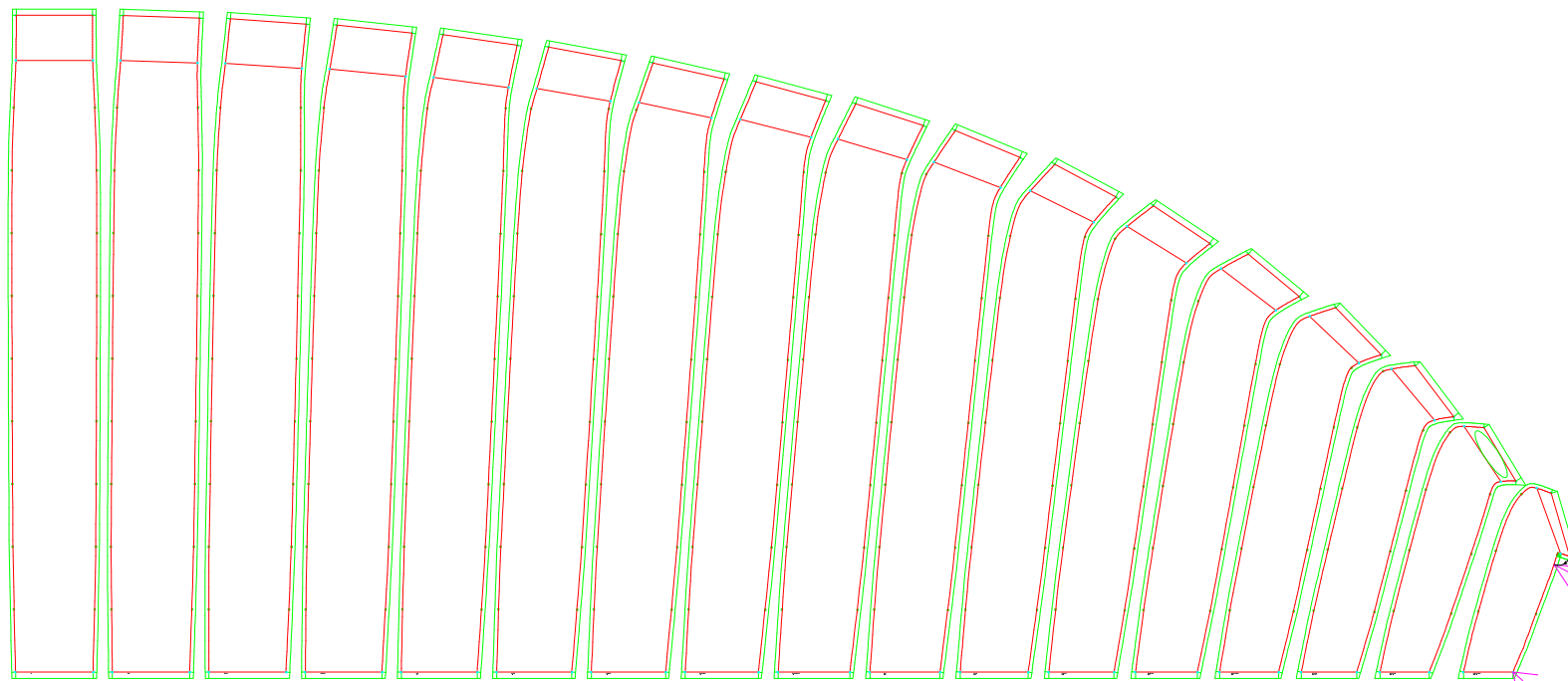


LABORATORI D'ENVOL BHL2-16 evo
 Flat area (m²) : 16.00
 Flat span (m) : 8.91
 Flat aspect ratio : 4.96
 Cells number : 33
 Version: 20211128

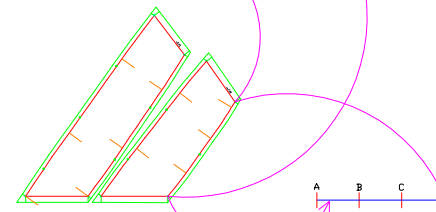
1-1 PLANFORM AND VAULT



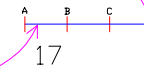
Leading edge



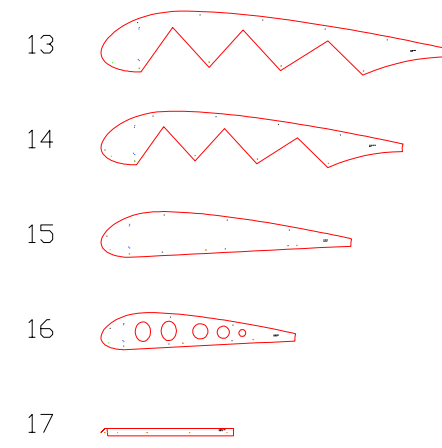
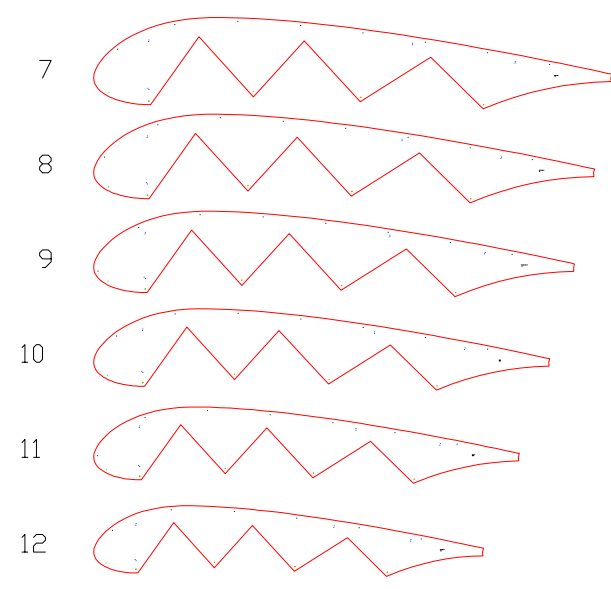
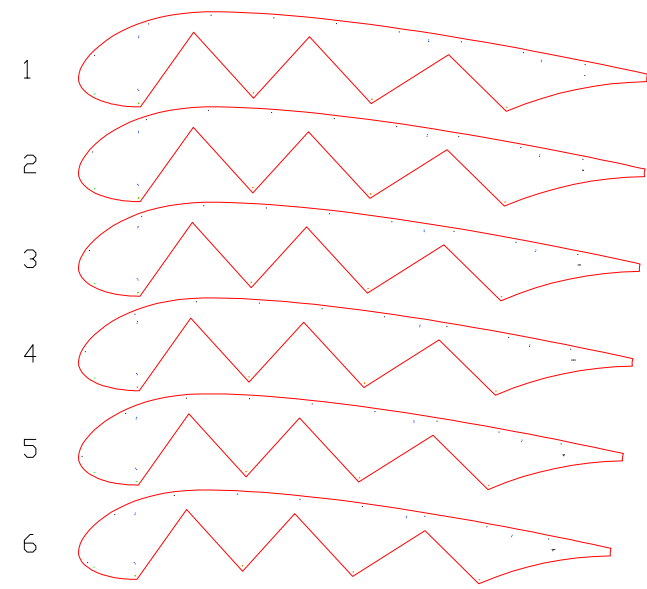
Trailing edge



Lower surface

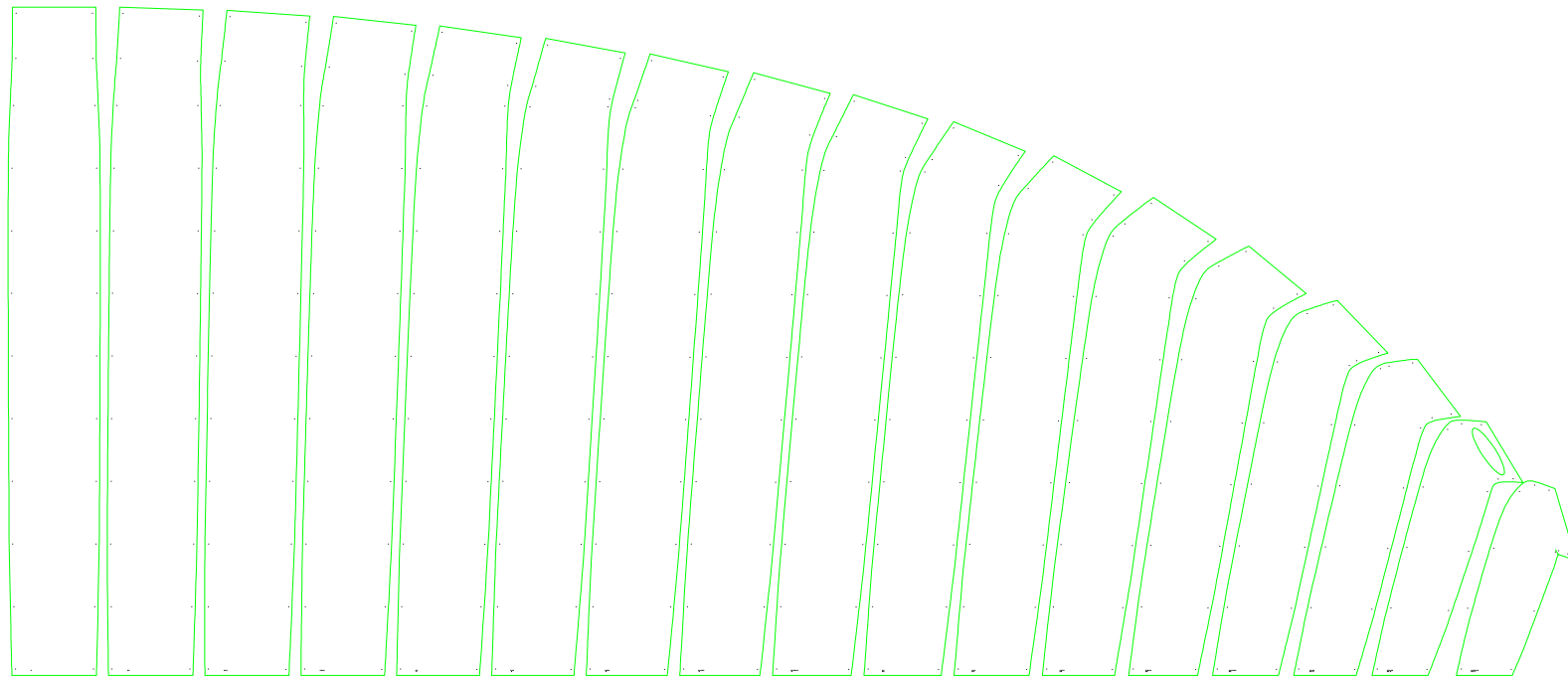


1-3 PANELS

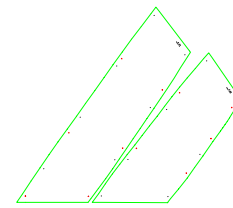


1-4 RIBS (FOR CUTTING TABLE)

Leading edge

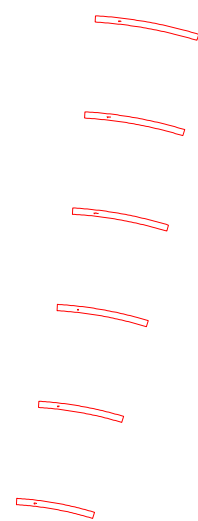
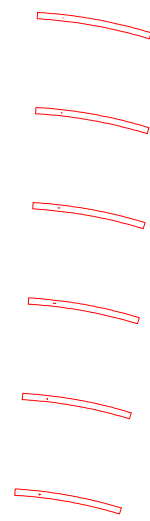


Trailing edge



Lower surface

1-5 PANELS (FOR CUTTING TABLE)



List of nylon rods (bloc 1)

| | | |
|-------|----|------|
| Group | 1 | |
| Jonc | 1 | 57.8 |
| Jonc | 2 | 57.6 |
| Jonc | 3 | 57.1 |
| Jonc | 4 | 56.3 |
| Jonc | 5 | 55.3 |
| Jonc | 6 | 54.1 |
| Jonc | 7 | 52.6 |
| Jonc | 8 | 50.8 |
| Jonc | 9 | 48.8 |
| Jonc | 10 | 46.2 |
| Jonc | 11 | 43.1 |
| Jonc | 12 | 39.4 |
| Jonc | 13 | 35.2 |
| Jonc | 14 | 30.5 |
| Jonc | 15 | 25.2 |
| Jonc | 16 | 19.5 |

List of nylon rods (bloc 2)

| | | |
|-------|----|------|
| Group | 1 | |
| Jonc | 1 | 45.6 |
| Jonc | 2 | 45.4 |
| Jonc | 3 | 45.0 |
| Jonc | 4 | 44.4 |
| Jonc | 5 | 43.6 |
| Jonc | 6 | 42.6 |
| Jonc | 7 | 41.4 |
| Jonc | 8 | 40.0 |
| Jonc | 9 | 38.4 |
| Jonc | 10 | 36.4 |
| Jonc | 11 | 34.0 |
| Jonc | 12 | 31.1 |

0 1

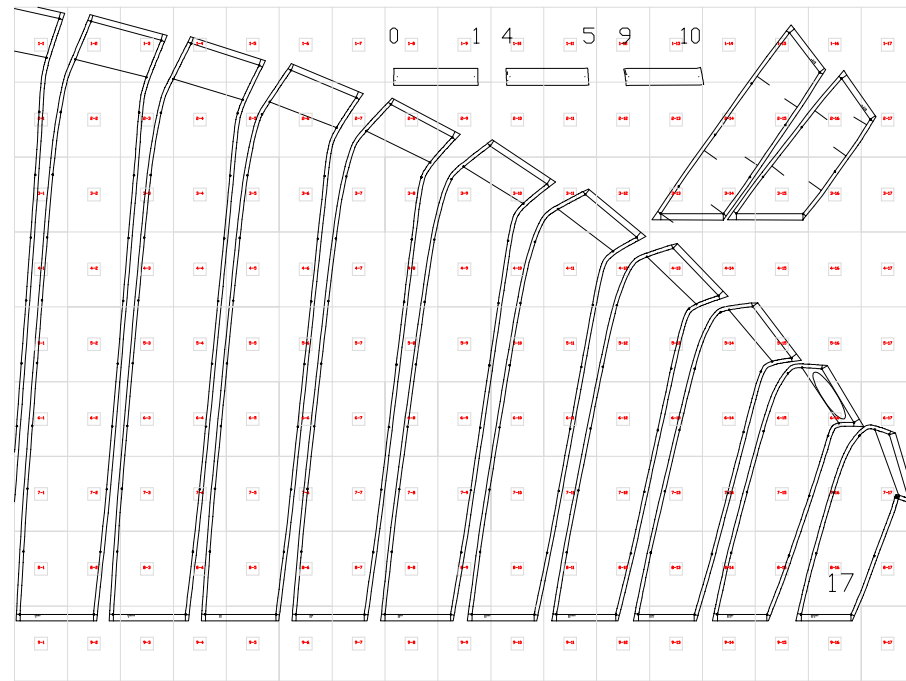
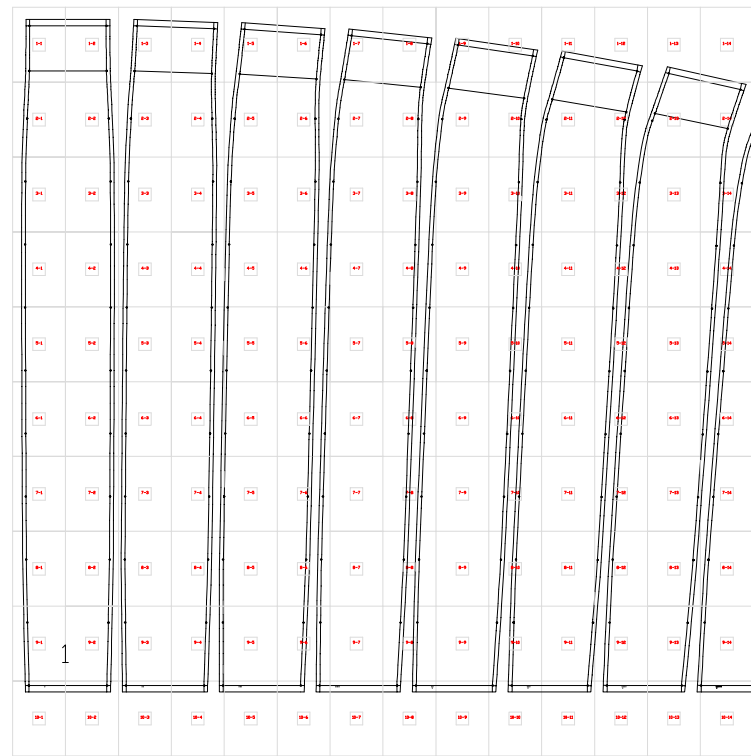
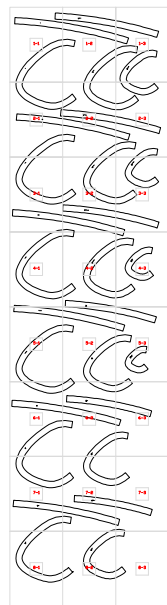
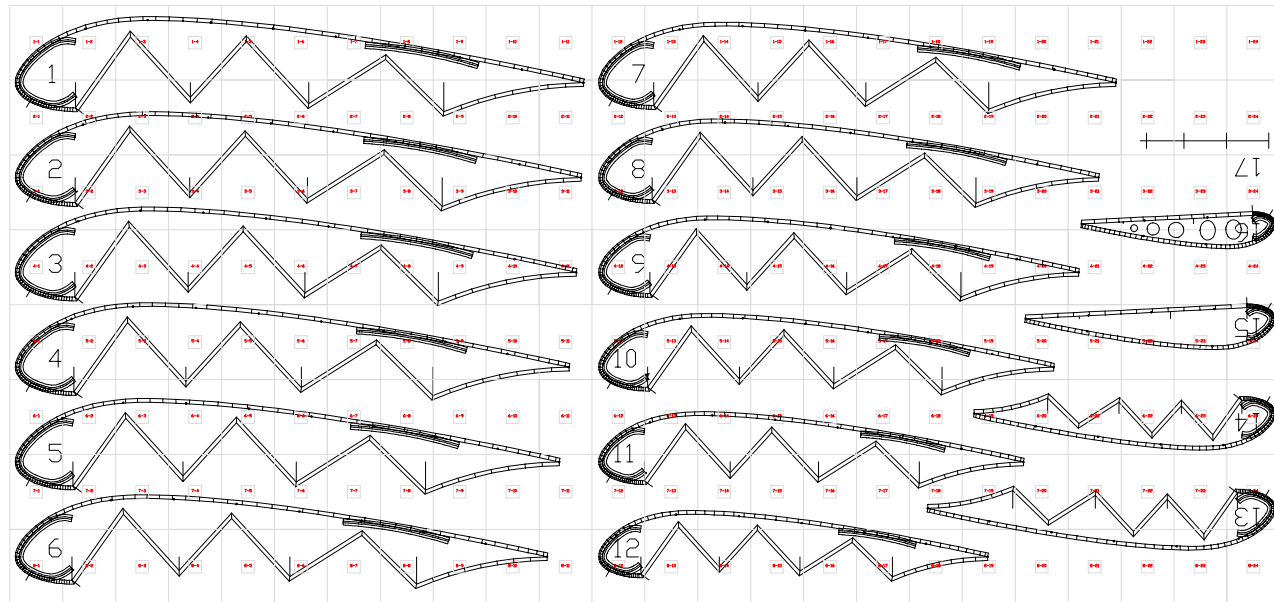


4 5

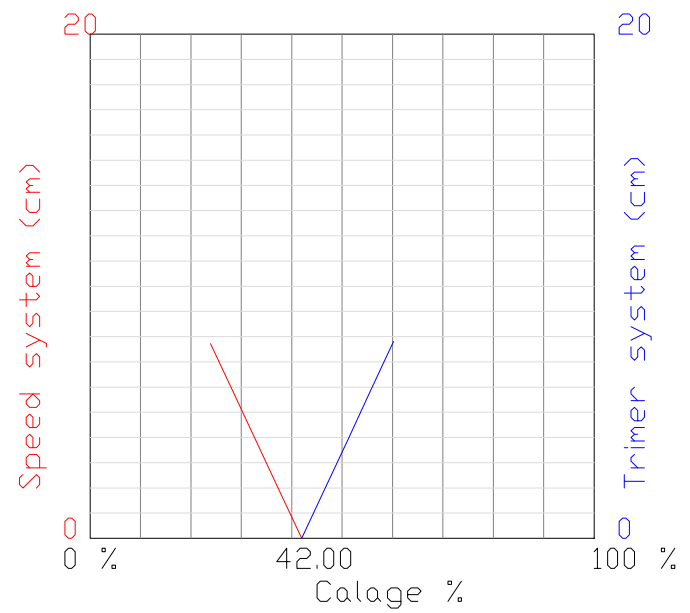
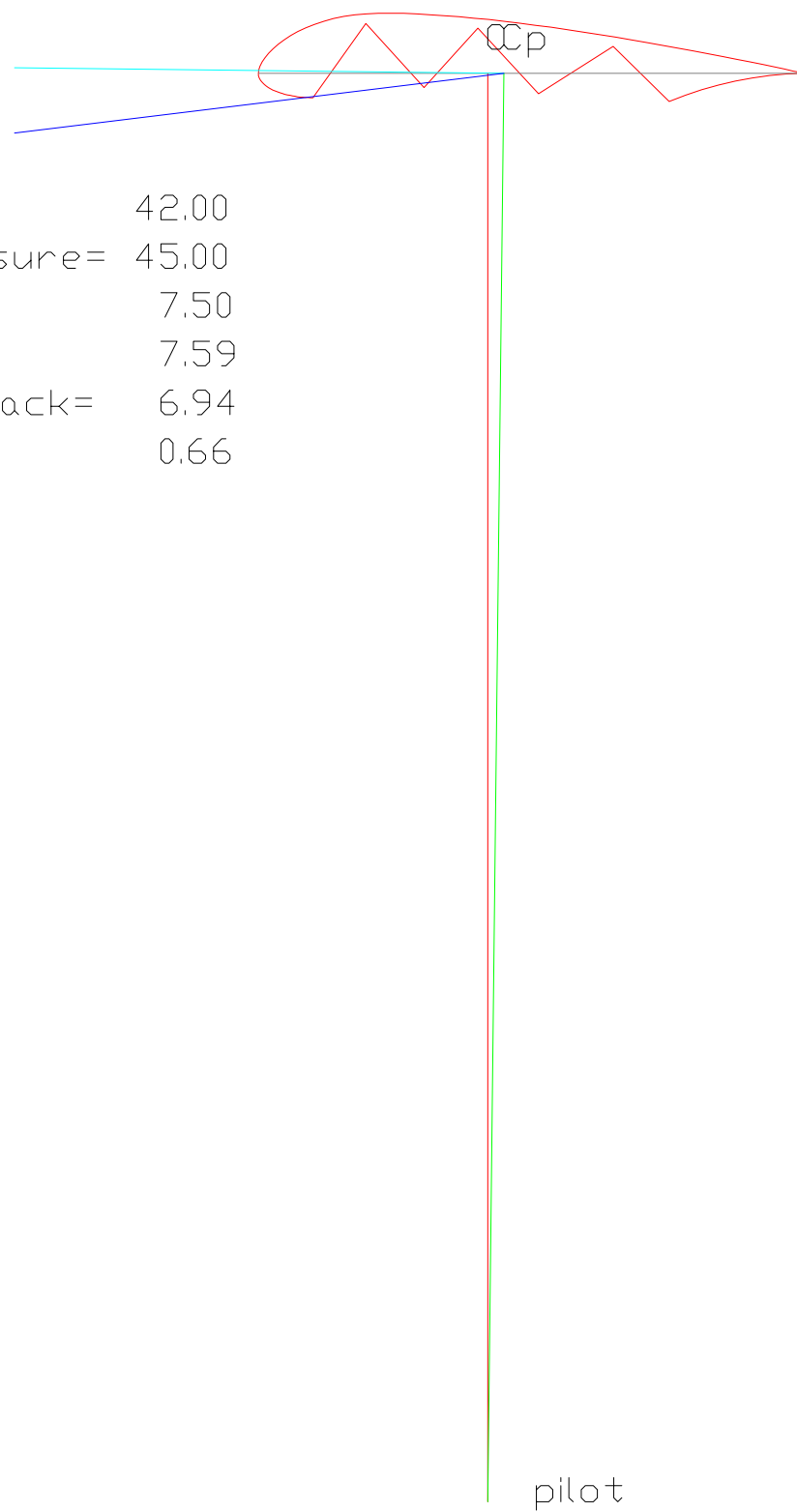


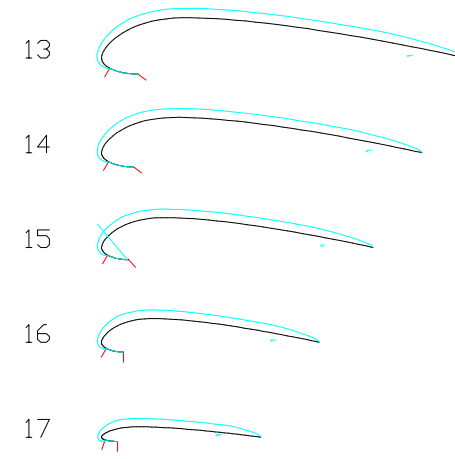
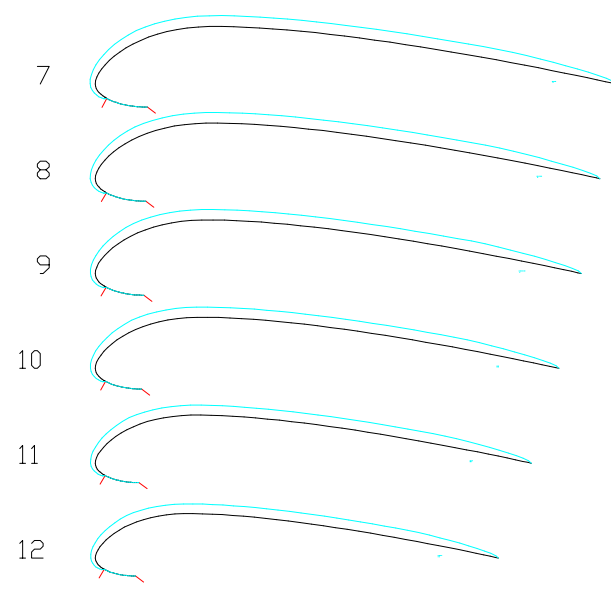
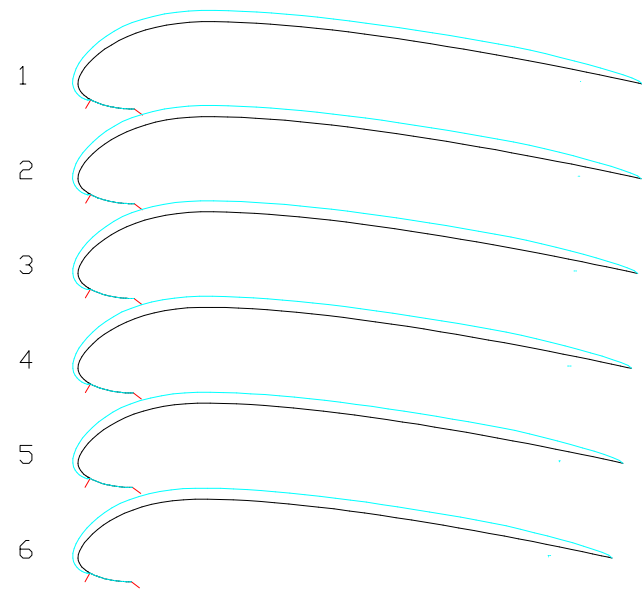
9 10



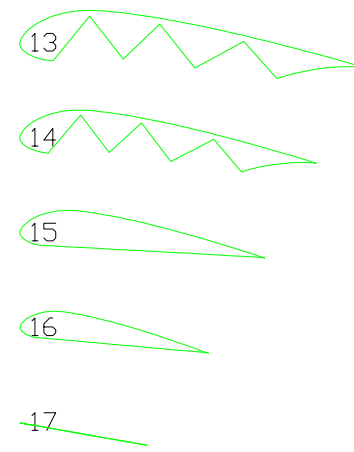
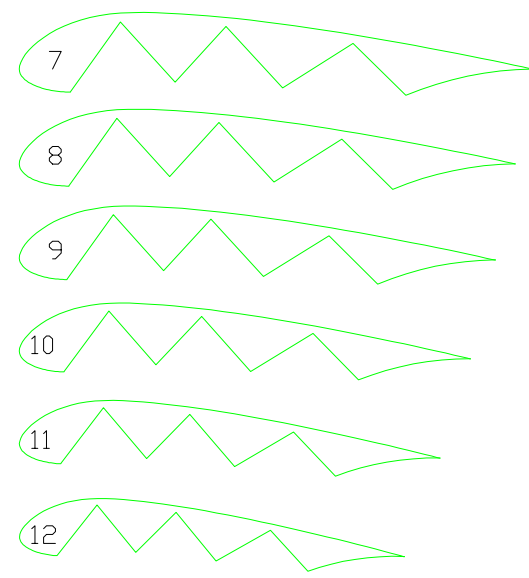
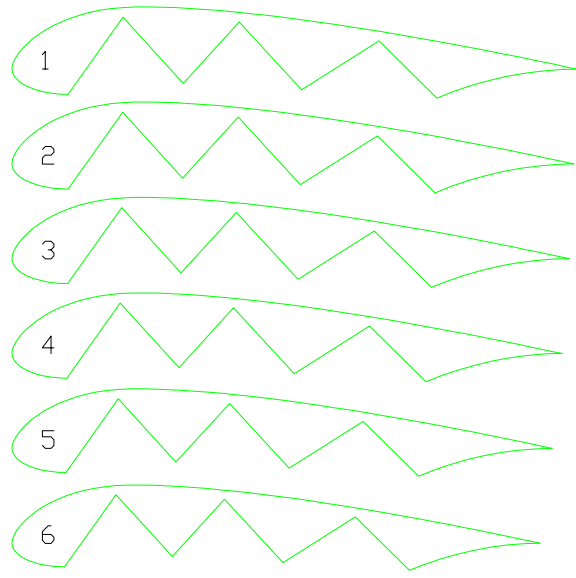


calage= 42.00
center pressure= 45.00
glide ratio= 7.50
glide angle= 7.59
angle of attack= 6.94
assiette= 0.66



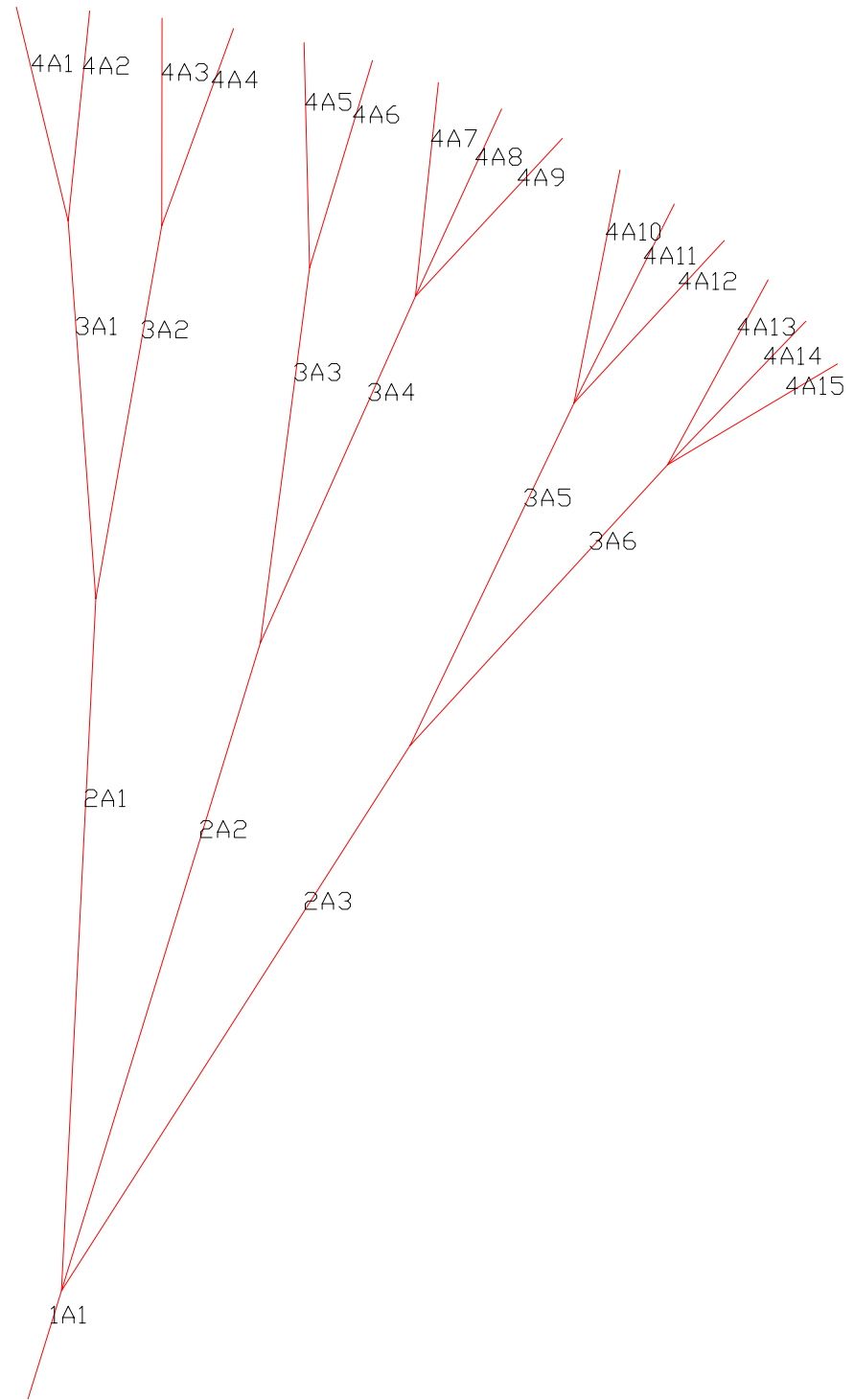


1-8 MIDDLE AND MIDDLE OVALIZED AIRFOILS



Line - Label - Length

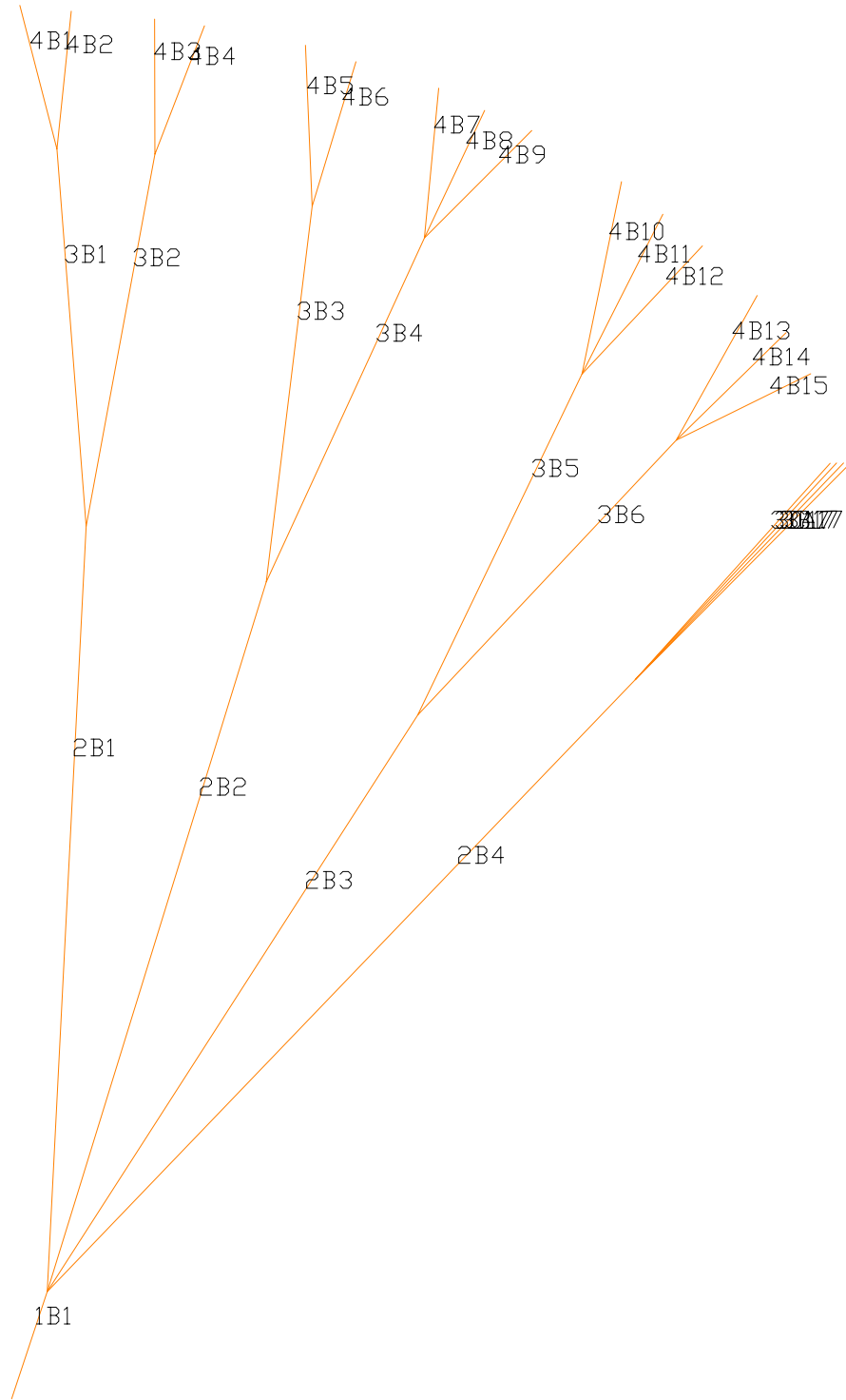
| | | |
|----|------|-------|
| 1 | 1A1 | 47.0 |
| 2 | 2A1 | 288.9 |
| 3 | 2A2 | 281.9 |
| 4 | 2A3 | 267.9 |
| 5 | 3A1 | 157.9 |
| 6 | 3A2 | 157.9 |
| 7 | 3A3 | 157.9 |
| 8 | 3A4 | 157.9 |
| 9 | 3A5 | 157.9 |
| 10 | 3A6 | 157.9 |
| 11 | 4A1 | 91.9 |
| 12 | 4A2 | 88.2 |
| 13 | 4A3 | 86.7 |
| 14 | 4A4 | 87.3 |
| 15 | 4A5 | 94.0 |
| 16 | 4A6 | 90.2 |
| 17 | 4A7 | 89.7 |
| 18 | 4A8 | 85.8 |
| 19 | 4A9 | 89.3 |
| 20 | 4A10 | 99.6 |
| 21 | 4A11 | 92.6 |
| 22 | 4A12 | 91.7 |
| 23 | 4A13 | 87.6 |
| 24 | 4A14 | 82.5 |
| 25 | 4A15 | 83.2 |



3-2 LINES A

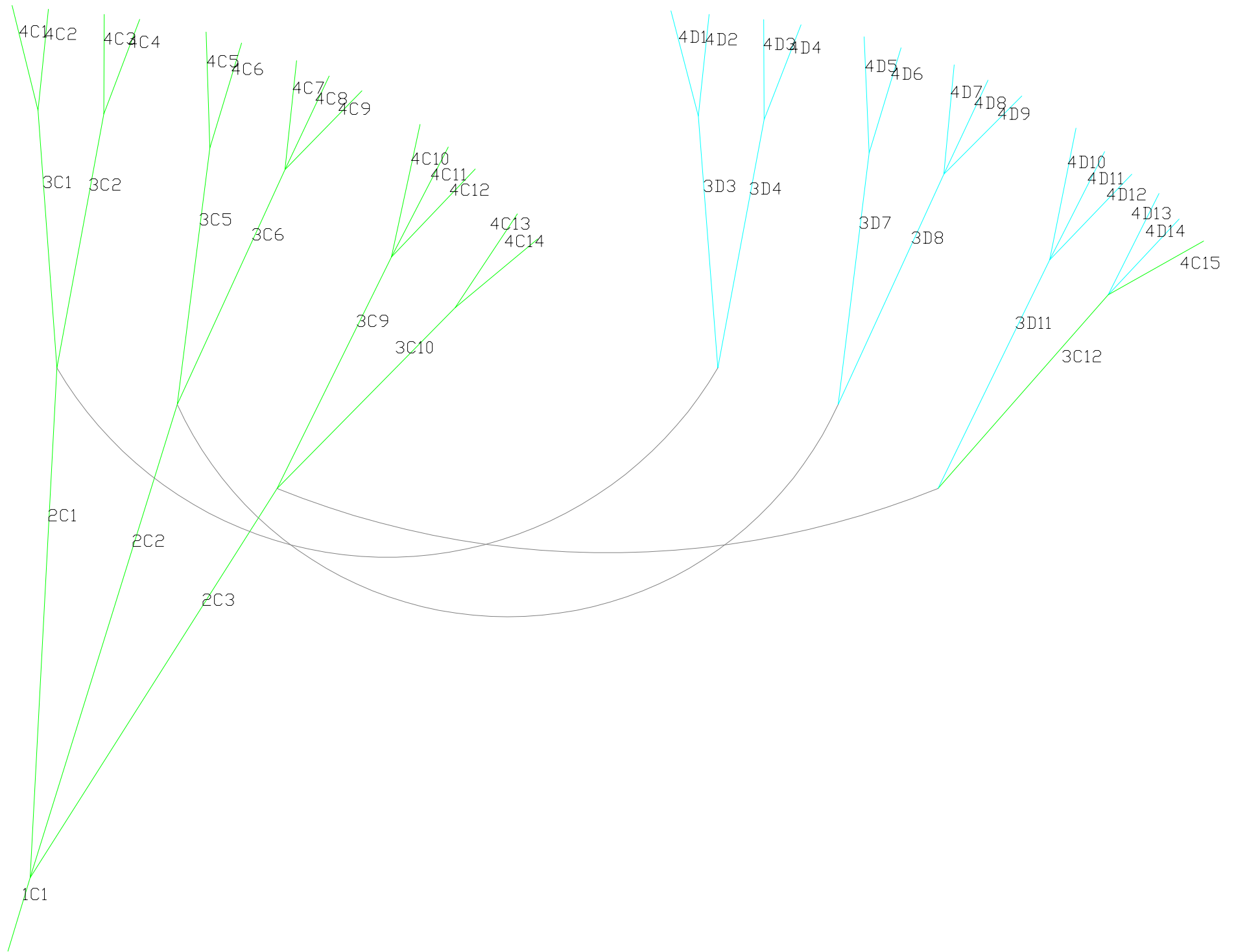
Line - Label - Length

| | | |
|----|------|-------|
| 26 | 1B1 | 47.0 |
| 27 | 2B1 | 319.9 |
| 28 | 2B2 | 309.8 |
| 29 | 2B3 | 285.9 |
| 30 | 2B4 | 356.0 |
| 31 | 3B1 | 157.9 |
| 32 | 3B2 | 157.9 |
| 33 | 3B3 | 157.9 |
| 34 | 3B4 | 157.9 |
| 35 | 3B5 | 157.9 |
| 36 | 3B6 | 157.9 |
| 37 | 3A17 | 127.6 |
| 38 | 3B17 | 126.0 |
| 39 | 3C17 | 126.6 |
| 40 | 3D17 | 129.0 |
| 41 | 4B1 | 62.0 |
| 42 | 4B2 | 58.0 |
| 43 | 4B3 | 56.5 |
| 44 | 4B4 | 57.5 |
| 45 | 4B5 | 67.5 |
| 46 | 4B6 | 63.2 |
| 47 | 4B7 | 63.0 |
| 48 | 4B8 | 58.9 |
| 49 | 4B9 | 63.4 |
| 50 | 4B10 | 82.3 |
| 51 | 4B11 | 74.8 |
| 52 | 4B12 | 73.5 |
| 53 | 4B13 | 69.3 |
| 54 | 4B14 | 64.1 |
| 55 | 4B15 | 65.9 |



Line - Label - Length

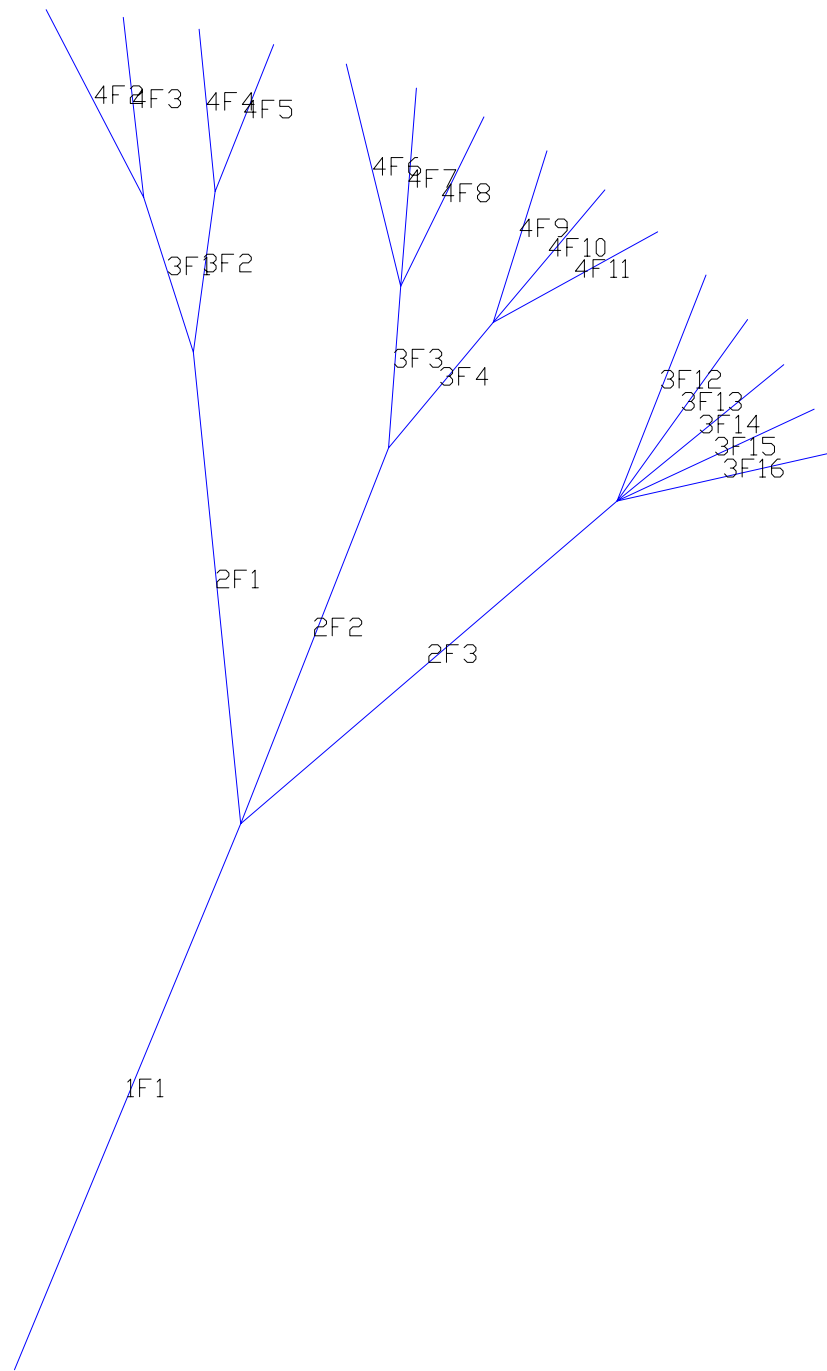
| | | |
|-----|------|-------|
| 56 | 1C1 | 47.0 |
| 57 | 2C1 | 312.9 |
| 58 | 2C2 | 303.9 |
| 59 | 2C3 | 282.9 |
| 60 | 3C1 | 158.0 |
| 61 | 3C2 | 158.0 |
| 62 | 3D3 | 158.0 |
| 63 | 3D4 | 158.0 |
| 64 | 3C5 | 158.0 |
| 65 | 3C6 | 157.9 |
| 66 | 3D7 | 158.0 |
| 67 | 3D8 | 158.0 |
| 68 | 3C9 | 157.9 |
| 69 | 3C10 | 158.0 |
| 70 | 3D11 | 158.0 |
| 71 | 3C12 | 158.0 |
| 72 | 4C1 | 66.2 |
| 73 | 4C2 | 62.4 |
| 74 | 4C3 | 61.0 |
| 75 | 4C4 | 62.0 |
| 76 | 4D1 | 68.8 |
| 77 | 4D2 | 64.9 |
| 78 | 4D3 | 63.6 |
| 79 | 4D4 | 64.5 |
| 80 | 4C5 | 71.1 |
| 81 | 4C6 | 67.2 |
| 82 | 4C7 | 67.1 |
| 83 | 4C8 | 63.3 |
| 84 | 4C9 | 67.5 |
| 85 | 4D5 | 73.5 |
| 86 | 4D6 | 69.5 |
| 87 | 4D7 | 69.5 |
| 88 | 4D8 | 65.6 |
| 89 | 4D9 | 69.4 |
| 90 | 4C10 | 83.0 |
| 91 | 4C11 | 75.7 |
| 92 | 4C12 | 74.4 |
| 93 | 4C13 | 68.9 |
| 94 | 4C14 | 66.0 |
| 95 | 4D10 | 83.9 |
| 96 | 4D11 | 76.0 |
| 97 | 4D12 | 74.2 |
| 98 | 4D13 | 70.6 |
| 99 | 4D14 | 64.8 |
| 100 | 4C15 | 68.5 |



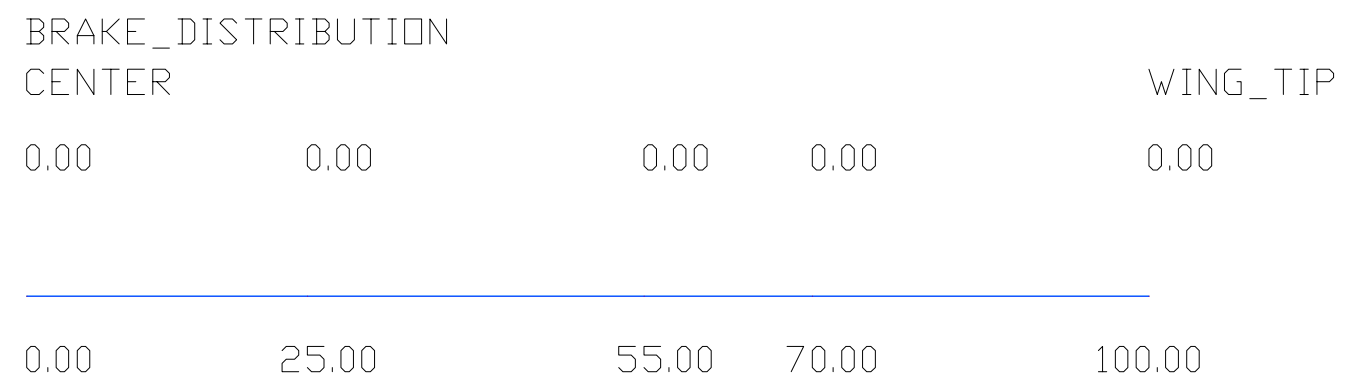
3-4 LINES C

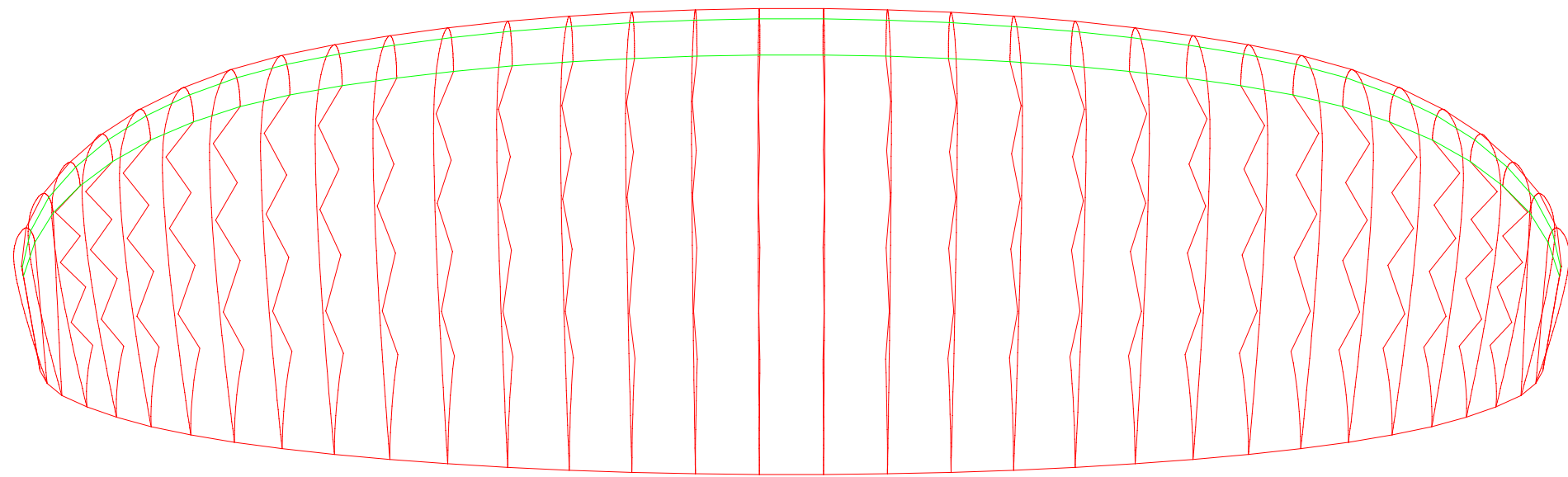
Line - Label - Length

| | | |
|-----|------|-------|
| 101 | 1F1 | 240.0 |
| 102 | 2F1 | 193.0 |
| 103 | 2F2 | 164.0 |
| 104 | 2F3 | 199.0 |
| 105 | 3F1 | 66.0 |
| 106 | 3F2 | 66.0 |
| 107 | 3F3 | 66.0 |
| 108 | 3F4 | 66.0 |
| 109 | 3F12 | 98.9 |
| 110 | 3F13 | 90.5 |
| 111 | 3F14 | 86.4 |
| 112 | 3F15 | 86.5 |
| 113 | 3F16 | 87.3 |
| 114 | 4F2 | 85.7 |
| 115 | 4F3 | 73.7 |
| 116 | 4F4 | 66.4 |
| 117 | 4F5 | 64.2 |
| 118 | 4F6 | 93.0 |
| 119 | 4F7 | 80.9 |
| 120 | 4F8 | 76.5 |
| 121 | 4F9 | 73.1 |
| 122 | 4F10 | 69.9 |
| 123 | 4F11 | 75.0 |

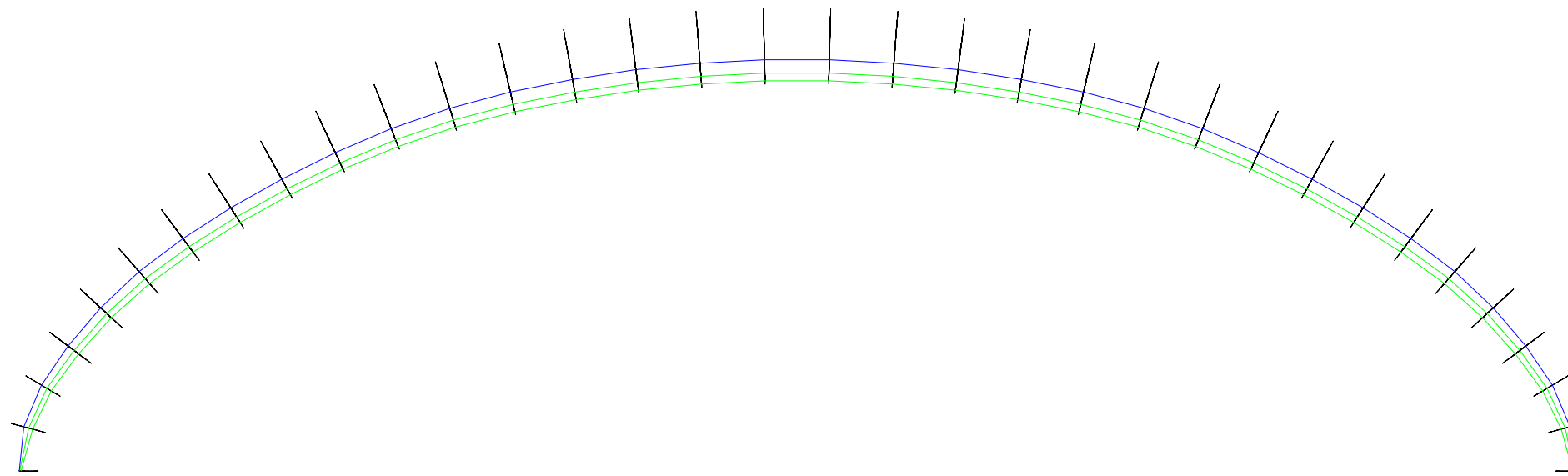


4-5 BRAKES

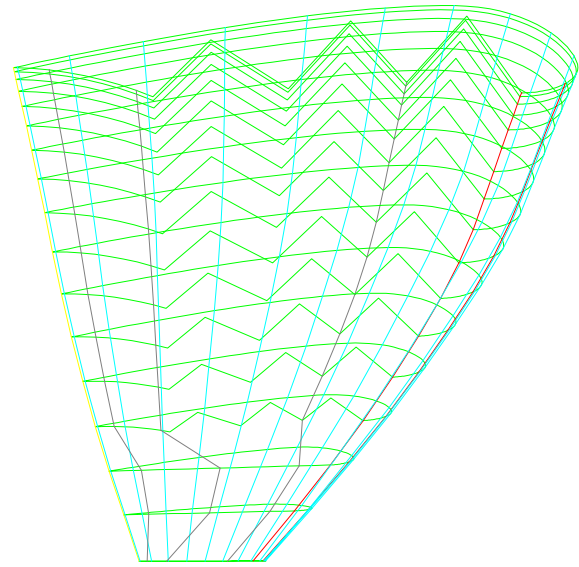




3-1 UPPER VIEW



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: Not used
- 2-4: Mini-ribs horizontal and diagonal
- 2-5: Not used
- 2-6: Full diagonal ribs laser, one side
- 2-8: All parts to print A4

- 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

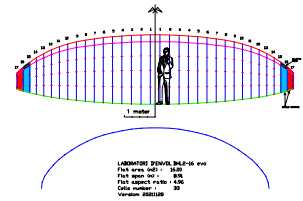
- Lateral width in extrados (mm): 15.00
- Width in leading edge ex (mm): 25.00
- Width in trailing edge ex (mm): 25.00
- Lateral width in intrados (mm): 15.00
- Width in leading edge in (mm): 25.00
- Width in trailing edge in (mm): 25.00
- Lateral width in ribs (mm): 15.00
- Lateral width in V-ribs (mm):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

- Distance between equidistant points (cm): 25.00

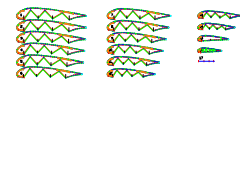
"ROMAN" NUMBERS CODIFICATION

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

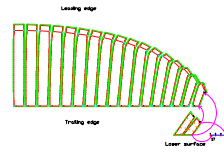
- Number 1 =
- Number 2 =
- Number 3 =
- Number 4 =
- Number 5 =
- Number 6 =
- Number 7 =
- Number 8 =
- Number 9 =
- Number 10 =
- Number 11 =
- Number 12 =
- Number 13 =
- Number 14 =
- Number 15 =
- Number 16 =
- Number 17 =



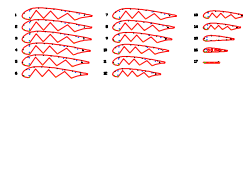
3-1 PLANFORM AND VAULT



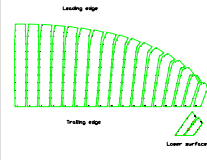
3-2 RIBS



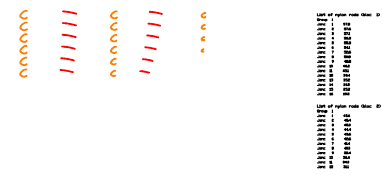
3-3 PANELS



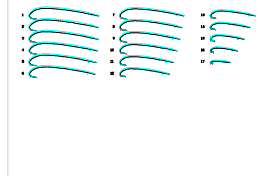
3-4 RIBS FOR CUTTING TABLE



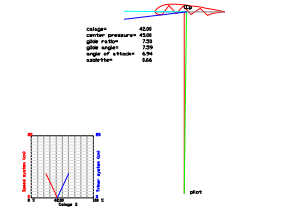
3-5 PANELS FOR CUTTING TABLE



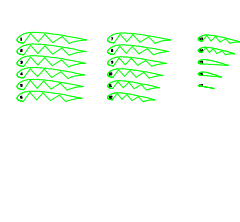
3-7 RIBS FOR CONNECTIONS



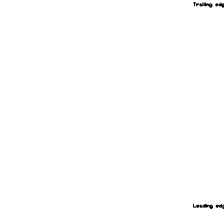
3-8 RIBS AND RIBS DIVERGENT AIRFIELD



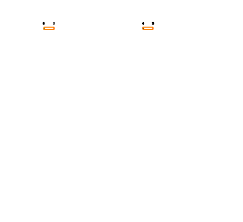
3-10 ORANGE ESTIMATION



3-11 RIBS UNDER ANGLE



3-12 INTRINSIC PANELS



3-13 RIBS FOR CUTTING TABLE

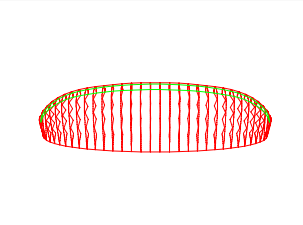


3-14 INTRINSIC PANELS FOR CUTTING TABLE

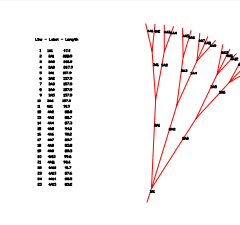
3-14 FULL DIAGONAL RIBS



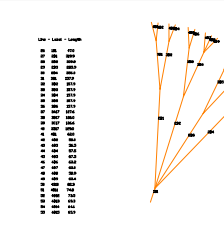
3-15 ALL PARTS TO PRINT A4



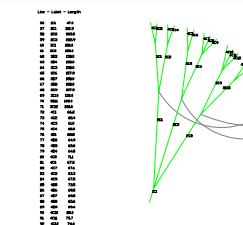
3-16 UPPER VIEW



3-17 LINES A



3-18 LINES B



3-19 LINES C



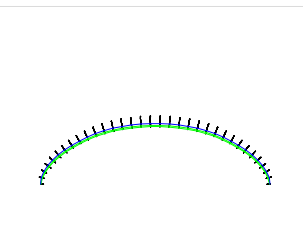
3-20 LINES D

3-20 V-rib Type 4

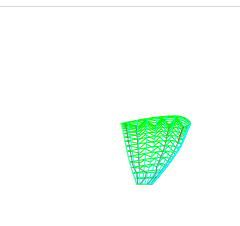


3-21

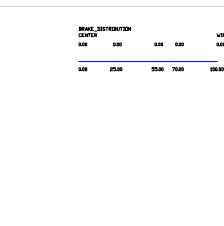
3-21 ALL PARTS TO PRINT



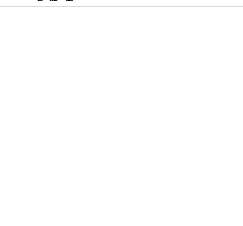
4-1 VAULT VIEW



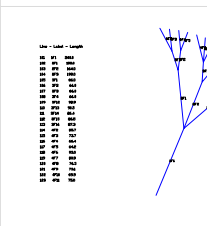
4-2 LATERAL VIEW



4-3 BRACE DISTRIBUTION

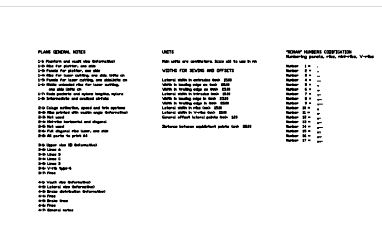


4-4



4-5 BRACES

4-6



4-7 GENERAL NOTES

4-8