

# Mainsail: 8001107 Chris-1 mainsailV1.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8001107 Chris sur

Initial Design Date: 22/11/2024  
Boat:  
Sunfish  
Client:

Comments:

Design Data  
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## Main

### Measurements

Luff geodesic: 4.831m  
Leech geodesic: 4.400m  
Foot geodesic: 3.220m  
Head geodesic: 0.010m  
Upper width (MUW): 0.426m  
Three-quarter width (MTW): 0.844m  
Half width (MHW): 1.628m  
Quarter width (MQW): 2.328m  
Foot median: 4.430m  
ORC Mainsail area: 7.748m?  
Surface area: 7.805m?  
Clew height: 1.502m  
Mast rake: 0.000m

### Battens

| Position | Length | Roach  | Angle   | Luff   | Leech  | Full |
|----------|--------|--------|---------|--------|--------|------|
| 75.000%  | 0.953m | 0.123m | 51.581? | 3.973m | 3.281m | Full |
| 50.000%  | 0.500m | 0.148m | 54.087? | 3.051m | 2.187m |      |
| 25.000%  | 0.600m | 0.086m | 52.113? | 2.239m | 1.094m |      |

### Reefing Points

1, Luff: 0.652m ; Leech: 0.761m ; Offset: 0.000m ; Number Eyelets: 1

### Draft Stripes

1, Luff: 2.382m ; Leech: 1.093m ;  
2, Luff: 3.598m ; Leech: 2.658m ;

### Luff Slides

1, Position: 0.380m  
2, Position: 0.789m  
3, Position: 1.197m  
4, Position: 1.606m  
5, Position: 2.014m  
6, Position: 2.423m  
7, Position: 2.832m  
8, Position: 3.240m  
9, Position: 3.649m  
10, Position: 4.057m  
11, Position: 4.466m

### Luff Curve

|         |         | Fanned Luff (@ 5.00% [0.142m]) | Before BSeam |
|---------|---------|--------------------------------|--------------|
| 4.830m, | 0.000m  | 100% (4.831m) :                | -0.000m      |
| 3.623m, | -0.047m | 90% (4.351m) :                 | 0.017m       |
| 2.415m, | -0.065m | 80% (3.863m) :                 | 0.060m       |
| 1.207m, | -0.051m | 70% (3.382m) :                 | 0.083m       |
| 0.620m, | -0.030m | 60% (2.898m) :                 | 0.097m       |
| 0.000m, | 0.000m  | 50% (2.415m) :                 | 0.104m       |
|         |         | 40% (1.932m) :                 | 0.103m       |
|         |         | 30% (1.449m) :                 | 0.093m       |
|         |         | 20% (0.964m) :                 | 0.072m       |
|         |         | 10% (0.486m) :                 | 0.040m       |
|         |         | 0% (0.000m) :                  | 0.000m       |

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| Seam Allowances |        |        |        |
|-----------------|--------|--------|--------|
| Zone: 1         | Split  | Radial | Cross  |
|                 | 0.015m | 0.015m | 0.015m |

| Edge Excesses |        |        |        |
|---------------|--------|--------|--------|
| Sail:         | Luff   | Leech  | Foot   |
|               | 0.000m | 0.000m | 0.000m |

Total Seam Lengths (m)

|                 |      |
|-----------------|------|
| Horizontal      | 9.60 |
| Radial/Vertical | 0.00 |
| Bi-Radial Split | 0.00 |

Materials

| Material | Area (m <sup>2</sup> ) | Panels    |
|----------|------------------------|-----------|
| Sailbody | 7.78                   | 1,2,3,4,5 |

