

Mainsail: 8000509 Chris Hunter34 Fullbattmain.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000509 Chris Hunter

Initial Design Date: 22/5/2024
Boat:
Hunter 34
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 12.372m
Leech geodesic: 12.874m
Foot geodesic: 3.470m
Head geodesic: 0.115m
Upper width (MUW): 0.661m
Three-quarter width (MTW): 1.185m
Half width (MHW): 2.097m
Quarter width (MQW): 2.852m
Foot median: 12.543m
ORC Mainsail area: 24.532m?
Surface area: 24.803m?
Clew height: -0.106m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	0.926m	0.135m	74.860?	10.143m	10.534m	Full
62.000%	1.707m	0.192m	74.860?	7.669m	7.965m	Full
42.000%	2.375m	0.174m	74.860?	5.195m	5.395m	Full
22.000%	2.940m	0.103m	74.860?	2.721m	2.826m	Full

Reefing Points

1, Luff: 1.428m ; Leech: 1.474m ; Offset: 0.000m ; Number Eyelets: 3
2, Luff: 3.190m ; Leech: 3.286m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 4.083m ; Leech: 4.208m ;
2, Luff: 8.165m ; Leech: 8.428m ;

Luff Slides

1, Position: 0.907m
2, Position: 1.870m
3, Position: 3.608m
4, Position: 4.370m
5, Position: 6.020m
6, Position: 6.844m
7, Position: 8.494m
8, Position: 9.318m
9, Position: 10.886m
10, Position: 11.629m

Foot Slides

1, Position: 0.500m
2, Position: 0.994m
3, Position: 1.488m
4, Position: 1.982m
5, Position: 2.476m
6, Position: 2.970m

Luff Curve

12.371m, 0.000m
10.830m, -0.030m
9.279m, -0.051m
7.724m, -0.061m
6.186m, -0.062m
4.610m, -0.057m
3.093m, -0.046m
1.542m, -0.026m
0.000m, 0.000m

Fanned Luff (@ 5.00% [0.173m])

100% (12.372m) : 0.000m
90% (11.135m) : 0.018m
80% (9.898m) : 0.033m
70% (8.660m) : 0.041m
60% (7.423m) : 0.044m
50% (6.186m) : 0.043m
40% (4.949m) : 0.040m
30% (3.712m) : 0.034m
20% (2.474m) : 0.025m
10% (1.237m) : 0.012m
0% (0.000m) : 0.000m

Before BSeam

0.000m
0.043m
0.081m
0.106m
0.120m
0.124m
0.119m
0.104m
0.077m
0.040m
0.000m

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Seam Allowances			
Zone:	Split	Radial	Cross
1	0.025m	0.025m	0.025m

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

Total Seam Lengths (m)

Horizontal	22.86
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	24.80	1,2,3,4,5 6,7,8,9,10 11,12

