

Mainsail: 8000125 Hugueny Irwin 38 Citation StdmaiV1.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000125 Hugueny

Initial Design Date: 26/1/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 12.276m
Leech geodesic: 12.860m
Foot geodesic: 3.950m
Head geodesic: 0.135m
Upper width (MUW): 0.795m
Three-quarter width (MTW): 1.423m
Half width (MHW): 2.468m
Quarter width (MQW): 3.296m
Foot median: 12.457m
ORC Mainsail area: 28.346m?
Surface area: 28.871m?
Clew height: 0.071m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	0.800m	0.238m	73.713?	10.061m	10.516m	
62.000%	1.050m	0.334m	73.713?	7.607m	7.951m	
42.000%	1.050m	0.301m	73.713?	5.152m	5.386m	
22.000%	0.950m	0.174m	73.713?	2.698m	2.821m	

Reefing Points

1, Luff: 1.497m ; Leech: 1.543m ; Offset: 0.000m ; Number Eyelets: 0
2, Luff: 3.253m ; Leech: 3.349m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

1, Luff: 3.068m ; Leech: 3.098m ;
2, Luff: 6.137m ; Leech: 6.283m ;
3, Luff: 9.206m ; Leech: 9.504m ;

Luff Slides

1, Position: 0.900m
2, Position: 1.781m
3, Position: 2.663m
4, Position: 3.544m
5, Position: 4.425m
6, Position: 5.307m
7, Position: 6.188m
8, Position: 7.069m
9, Position: 7.951m
10, Position: 8.832m
11, Position: 9.713m
12, Position: 10.595m
13, Position: 11.476m

Foot Slides

1, Position: 0.650m
2, Position: 1.312m
3, Position: 1.975m
4, Position: 2.638m
5, Position: 3.300m

Luff Curve

12.276m, 0.000m
10.746m, -0.030m
9.207m, -0.051m
7.664m, -0.060m
6.138m, -0.061m
4.574m, -0.057m
3.069m, -0.045m
1.530m, -0.026m
0.000m, 0.000m

Fanned Luff (@ 5.00% [0.197m])

100% (12.276m) : 0.000m
90% (11.049m) : 0.019m
80% (9.821m) : 0.034m
70% (8.593m) : 0.042m
60% (7.366m) : 0.045m
50% (6.138m) : 0.045m
40% (4.910m) : 0.042m
30% (3.683m) : 0.036m
20% (2.455m) : 0.026m
10% (1.228m) : 0.013m
0% (0.000m) : 0.000m

Before BSeam

0.000m
0.045m
0.084m
0.108m
0.120m
0.124m
0.119m
0.105m
0.081m
0.045m
0.000m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.032m	0.016m	0.040m
Zone: 1/b	0.032m	0.016m	0.040m
Zone: 2/a	0.032m	0.016m	0.040m
Zone: 2/b	0.032m	0.016m	0.040m
Zone: 3	0.032m	0.016m	0.040m

Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	5.10
Radial/Vertical	123.86
Bi-Radial Split	8.36

Materials

Material	Area (m ²)	Panels
Material 1	28.89	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1\11,1\12,1b\1,1b\2,1b\3 1b\4,1b\5,1b\6,1b\7,1b\8 1b\9,1b\10,1b\11,1b\12,2\1 2\2,2\3,2\4,2\5,2b\1 2b\2,2b\3,2b\4,2b\5,3\1 3\2,3\3,3\4,3\5,3\6

