

Mainsail: 7000618 Mark Hunter23 Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000618 Mark\70006

Initial Design Date: 12/7/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 7.700m
 Leech geodesic: 8.130m
 Foot geodesic: 2.920m
 Head geodesic: 0.115m
 Upper width (MUW): 0.538m
 Three-quarter width (MTW): 0.960m
 Half width (MHW): 1.718m
 Quarter width (MQW): 2.354m
 Foot median: 7.859m
 ORC Mainsail area: 12.610m?
 Surface area: 12.845m?
 Clew height: 0.003m
 Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.500%	0.432m	0.110m	90.000?	6.135m	6.698m	
62.000%	0.660m	0.150m	90.000?	4.353m	5.033m	
42.000%	0.660m	0.130m	90.000?	2.625m	3.410m	
21.500%	0.610m	0.075m	90.000?	0.862m	1.745m	

Reefing Points

1, Luff: 1.039m ; Leech: 1.087m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 1.924m ; Leech: 1.945m ;
 2, Luff: 3.849m ; Leech: 3.979m ;
 3, Luff: 5.774m ; Leech: 6.032m ;

Luff Slides

1, Position: 0.531m
 2, Position: 1.190m
 3, Position: 1.849m
 4, Position: 2.507m
 5, Position: 3.166m
 6, Position: 3.824m
 7, Position: 4.483m
 8, Position: 5.141m
 9, Position: 5.800m
 10, Position: 6.458m
 11, Position: 7.117m

Foot Slides

1, Position: 0.450m
 2, Position: 0.955m
 3, Position: 1.460m
 4, Position: 1.965m
 5, Position: 2.470m

Luff Curve

7.700m, 0.000m
 5.775m, -0.028m
 3.850m, -0.050m
 1.925m, -0.034m
 0.000m, 0.000m

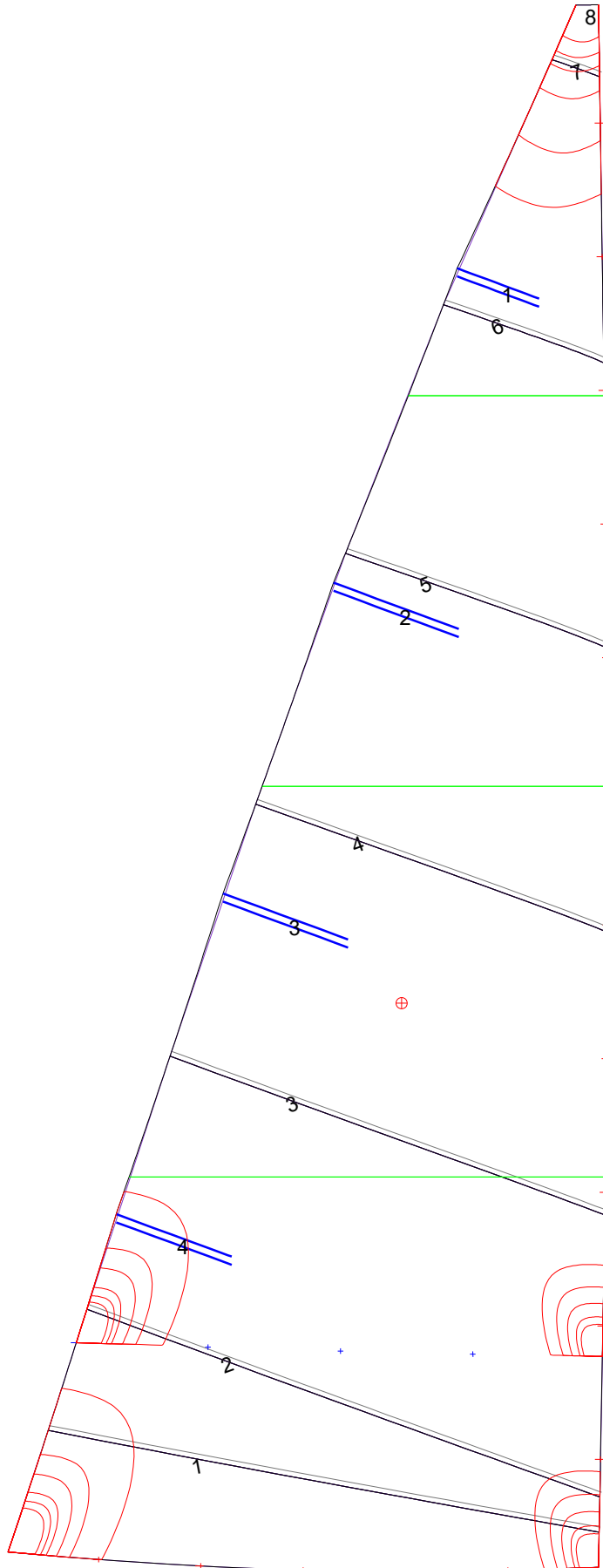
Fanned Luff (@ 5.00% [0.146m])

100% (7.700m) : 0.000m
 90% (6.930m) : 0.009m
 80% (6.160m) : 0.019m
 70% (5.390m) : 0.029m
 60% (4.620m) : 0.038m
 50% (3.850m) : 0.042m
 40% (3.080m) : 0.041m
 30% (2.310m) : 0.033m
 20% (1.540m) : 0.023m
 10% (0.770m) : 0.011m
 0% (0.000m) : 0.000m

Before BSeam

0.000m
 0.018m
 0.036m
 0.054m
 0.069m
 0.075m
 0.072m
 0.060m
 0.041m
 0.020m
 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	12.21
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	12.84	1,2,3,4,5 6,7,8