

Mainsail: 8000419 John Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000419 John ma

Initial Design Date: 26/4/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 10.820m
 Leech geodesic: 11.411m
 Foot geodesic: 3.800m
 Head geodesic: 0.115m
 Upper width (MUW): 0.729m
 Three-quarter width (MTW): 1.332m
 Half width (MHW): 2.353m
 Quarter width (MQW): 3.153m
 Foot median: 11.076m
 ORC Mainsail area: 23.797m?
 Surface area: 24.416m?
 Clew height: 0.100m
 Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.152m	0.217m	72.580?	8.651m	9.095m	Full
60.000%	2.031m	0.305m	72.580?	6.488m	6.822m	Full
40.000%	1.050m	0.259m	72.580?	4.325m	4.548m	
20.000%	0.950m	0.145m	72.580?	2.162m	2.274m	

Reefing Points

1, Luff: 1.428m ; Leech: 1.479m ; Offset: 0.000m ; Number Eyelets: 2
 2, Luff: 2.942m ; Leech: 3.047m ; Offset: 0.000m ; Number Eyelets: 2
 3, Luff: 4.597m ; Leech: 4.762m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 3.570m ; Leech: 3.620m ;
 2, Luff: 7.140m ; Leech: 7.374m ;

Luff Slides

1, Position: 0.611m
 2, Position: 1.208m
 3, Position: 2.038m
 4, Position: 2.724m
 5, Position: 3.604m
 6, Position: 4.325m
 7, Position: 5.046m
 8, Position: 5.767m
 9, Position: 7.209m
 10, Position: 7.930m
 11, Position: 9.374m
 12, Position: 10.097m

Luff Curve

		Fanned Luff (@ 5.00% [0.189m])	Before BSeam
10.820m,	0.000m	100% (10.820m) :	0.000m
9.471m,	-0.025m	90% (9.738m) :	0.015m
8.115m,	-0.043m	80% (8.656m) :	0.028m
6.755m,	-0.051m	70% (7.574m) :	0.035m
5.410m,	-0.051m	60% (6.492m) :	0.037m
4.032m,	-0.048m	50% (5.410m) :	0.036m
2.705m,	-0.038m	40% (4.328m) :	0.034m
1.348m,	-0.022m	30% (3.246m) :	0.028m
0.000m,	0.000m	20% (2.164m) :	0.020m
		10% (1.082m) :	0.009m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone:	Split	Radial	Cross
1	0.030m	0.030m	0.030m

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

Total Seam Lengths (m)

Horizontal	21.72
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	24.43	1,2,3,4,5 6,7,8,9,10

