

Mainsail: 8000404 Bruce Whiting 32 fullbattmain.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000404 Bruce W

Initial Design Date: 17/4/2024
Boat:
Whiting 32
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 10.593m
Leech geodesic: 11.254m
Foot geodesic: 3.960m
Head geodesic: 0.115m
Upper width (MUW): 0.771m
Three-quarter width (MTW): 1.406m
Half width (MHW): 2.463m
Quarter width (MQW): 3.288m
Foot median: 10.873m
ORC Mainsail area: 24.361m?
Surface area: 25.081m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.130m	0.241m	71.422?	8.681m	9.189m	Full
62.000%	2.062m	0.346m	71.422?	6.563m	6.948m	Full
42.000%	2.787m	0.291m	71.422?	4.446m	4.707m	Full
22.000%	3.392m	0.169m	71.422?	2.329m	2.465m	Full

Reefing Points

1, Luff: 1.398m ; Leech: 1.455m ; Offset: 0.000m ; Number Eyelets: 0
2, Luff: 2.806m ; Leech: 2.918m ; Offset: 0.000m ; Number Eyelets: 0
3, Luff: 4.713m ; Leech: 4.903m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

1, Luff: 3.495m ; Leech: 3.555m ;
2, Luff: 6.990m ; Leech: 7.244m ;

Luff Slides

1, Position: 0.857m
2, Position: 1.705m
3, Position: 3.130m
4, Position: 3.800m
5, Position: 5.152m
6, Position: 5.857m
7, Position: 7.269m
8, Position: 7.975m
9, Position: 9.319m
10, Position: 9.956m

Luff Curve

		Fanned Luff (@ 5.00% [0.197m])	Before BSeam
10.593m,	0.000m	100% (10.593m) :	0.000m
9.273m,	-0.024m	90% (9.534m) :	0.015m
7.944m,	-0.042m	80% (8.474m) :	0.027m
6.613m,	-0.049m	70% (7.415m) :	0.034m
5.296m,	-0.050m	60% (6.356m) :	0.035m
3.947m,	-0.047m	50% (5.297m) :	0.034m
2.648m,	-0.037m	40% (4.237m) :	0.031m
1.320m,	-0.021m	30% (3.178m) :	0.026m
0.000m,	0.000m	20% (2.119m) :	0.019m
		10% (1.059m) :	0.008m
		0% (0.000m) :	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	22.37
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	25.09	1,2,3,4,5 6,7,8,9,10

