

Mainsail: 8000404 Bruce Whiting 32 fullbattmainV2.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 Wh

Initial Design Date: 3/5/2024
Boat:
Whiting 32
Client:

Comments:
mast rake 65cm, tack angle 84.6deg

Design Data
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Main

Measurements

Luff geodesic: 10.593m
Leech geodesic: 11.000m
Foot geodesic: 3.960m
Head geodesic: 0.115m
Upper width (MUW): 0.770m
Three-quarter width (MTW): 1.405m
Half width (MHW): 2.462m
Quarter width (MQW): 3.287m
Foot median: 10.742m
ORC Mainsail area: 24.352m?
Surface area: 24.989m?
Clew height: 0.136m
Mast rake: 0.650m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.131m	0.241m	74.903?	8.674m	8.980m	Full
62.000%	2.064m	0.346m	74.903?	6.558m	6.790m	Full
42.000%	2.790m	0.291m	74.903?	4.442m	4.600m	Full
22.000%	3.395m	0.169m	74.903?	2.326m	2.409m	Full

Reefing Points

1, Luff: 1.396m ; Leech: 1.429m ; Offset: 0.000m ; Number Eyelets: 0
2, Luff: 2.803m ; Leech: 2.865m ; Offset: 0.000m ; Number Eyelets: 0
3, Luff: 4.709m ; Leech: 4.811m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

1, Luff: 3.491m ; Leech: 3.463m ;
2, Luff: 6.986m ; Leech: 7.085m ;

Luff Slides

1, Position: 0.872m
2, Position: 1.763m
3, Position: 3.202m
4, Position: 3.871m
5, Position: 5.147m
6, Position: 5.852m
7, Position: 7.263m
8, Position: 7.969m
9, Position: 9.314m
10, Position: 9.953m

Luff Curve

		Fanned Luff (@ 5.00% [0.197m])	Before BSeam
10.593m,	0.000m	100% (10.593m) :	0.000m
9.273m,	-0.028m	90% (9.534m) :	0.017m
7.944m,	-0.049m	80% (8.474m) :	0.031m
6.613m,	-0.057m	70% (7.415m) :	0.039m
5.296m,	-0.058m	60% (6.356m) :	0.041m
3.947m,	-0.054m	50% (5.297m) :	0.041m
2.648m,	-0.043m	40% (4.237m) :	0.038m
1.320m,	-0.024m	30% (3.178m) :	0.032m
0.000m,	0.000m	20% (2.118m) :	0.023m
		10% (1.060m) :	0.011m
		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	22.62
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	25.00	1,2,3,4,5 6,7,8,9,10

