

Mainsail: 7000103 Vlad-2 Privilege 45 main6full.des

Design Info
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Design File:
C:\Users\Administrator\Desktop\0309(2)\0309\7000103 Vlad-2 Privilege 45 main6full.des

Initial Design Date: 9/3/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	15.830m
Leech geodesic:	16.572m
Foot geodesic:	5.240m
Head geodesic:	0.137m
Upper width (MUW):	1.278m
Three-quarter width (MTW):	2.301m
Half width (MHW):	3.698m
Quarter width (MQW):	4.593m
Foot median:	16.184m
ORC Mainsail area:	52.674m ²
Surface area:	54.602m ²
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
88.186%	1.373m	0.540m	72.045?	13.974m	14.545m	Full
75.205%	2.462m	0.869m	72.045?	11.937m	12.404m	Full
59.752%	3.355m	0.908m	72.045?	9.512m	9.855m	Full
44.715%	3.988m	0.777m	72.045?	7.153m	7.375m	Full
26.739%	4.572m	0.515m	72.045?	4.332m	4.410m	Full
10.729%	5.016m	0.243m	72.045?	1.820m	1.770m	Full

Reefing Points

1, Luff: 2.374m ; Leech: 2.417m ; Offset: 0.000m ; Number Eyelets: 4
2, Luff: 4.748m ; Leech: 4.841m ; Offset: 0.000m ; Number Eyelets: 4

Draft Stripes

1, Luff: 3.956m ; Leech: 3.911m ;
2, Luff: 7.913m ; Leech: 7.986m ;
3, Luff: 11.712m ; Leech: 11.951m ;

Luff Curve

		Fanned Luff (@ 5.00% [0.261m])	Before BSeam
15.829m,	0.000m	100% (15.830m) :	0.000m
13.857m,	-0.037m	90% (14.247m) :	0.067m
11.872m,	-0.063m	80% (12.664m) :	0.128m
9.882m,	-0.074m	70% (11.081m) :	0.172m
7.915m,	-0.075m	60% (9.498m) :	0.192m
5.898m,	-0.070m	50% (7.915m) :	0.190m
3.957m,	-0.056m	40% (6.332m) :	0.168m
1.973m,	-0.032m	30% (4.749m) :	0.134m
0.000m,	0.000m	20% (3.166m) :	0.091m
		10% (1.583m) :	0.044m
		0% (0.000m) :	0.000m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.038m	0.015m	0.038m
Zone: 1/b	0.038m	0.015m	0.038m
Zone: 2/a	0.038m	0.015m	0.038m
Zone: 2/b	0.038m	0.015m	0.038m
Zone: 3	0.038m	0.015m	0.038m
Zone: 4	0.038m	0.015m	0.038m

Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	10.55
Radial/Vertical	177.37
Bi-Radial Split	8.82

Materials

Material	Area (m ²)	Panels
Material 1	54.69	1\1, 1\2, 1\3, 1\4, 1\5 1\6, 1\7, 1\8, 1\9, 1\10 1\11, 1\12, 1\13, 1b\1, 1b\2 1b\3, 1b\4, 1b\5, 1b\6, 1b\7 1b\8, 1b\9, 1b\10, 1b\11, 1b\12 1b\13, 2\1, 2\2, 2\3, 2\4 2\5, 2\6, 2b\1, 2b\2, 2b\3 2b\4, 2b\5, 2b\6, 3\1, 3\2 3\3, 3\4, 3\5, 3\6, 3\7 3\8, 4\1, 4\2, 4\3, 4\4 4\5, 4\6

