

Mainsail: 7000322 Jari Mainsail.des

Design Info
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Design File:
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Initial Design Date: 4/4/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	14.220m
Leech geodesic:	14.774m
Foot geodesic:	4.350m
Head geodesic:	0.135m
Upper width (MUW):	0.910m
Three-quarter width (MTW):	1.650m
Half width (MHW):	2.820m
Quarter width (MQW):	3.666m
Foot median:	14.497m
ORC Mainsail area:	36.922m?
Surface area:	37.853m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
81.253%	1.369m	0.344m	74.772?	11.548m	11.967m	Full
61.171%	2.422m	0.469m	74.772?	8.693m	9.010m	Full
40.986%	1.305m	0.381m	74.772?	5.824m	6.037m	
20.423%	1.087m	0.217m	74.772?	2.901m	3.008m	

Reefing Points

1, Luff: 2.132m ; Leech: 2.184m ; Offset: 0.000m ; Number Eyelets: 3
2, Luff: 4.265m ; Leech: 4.369m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 3.554m ; Leech: 3.554m ;
2, Luff: 7.109m ; Leech: 7.224m ;
3, Luff: 10.663m ; Leech: 10.935m ;

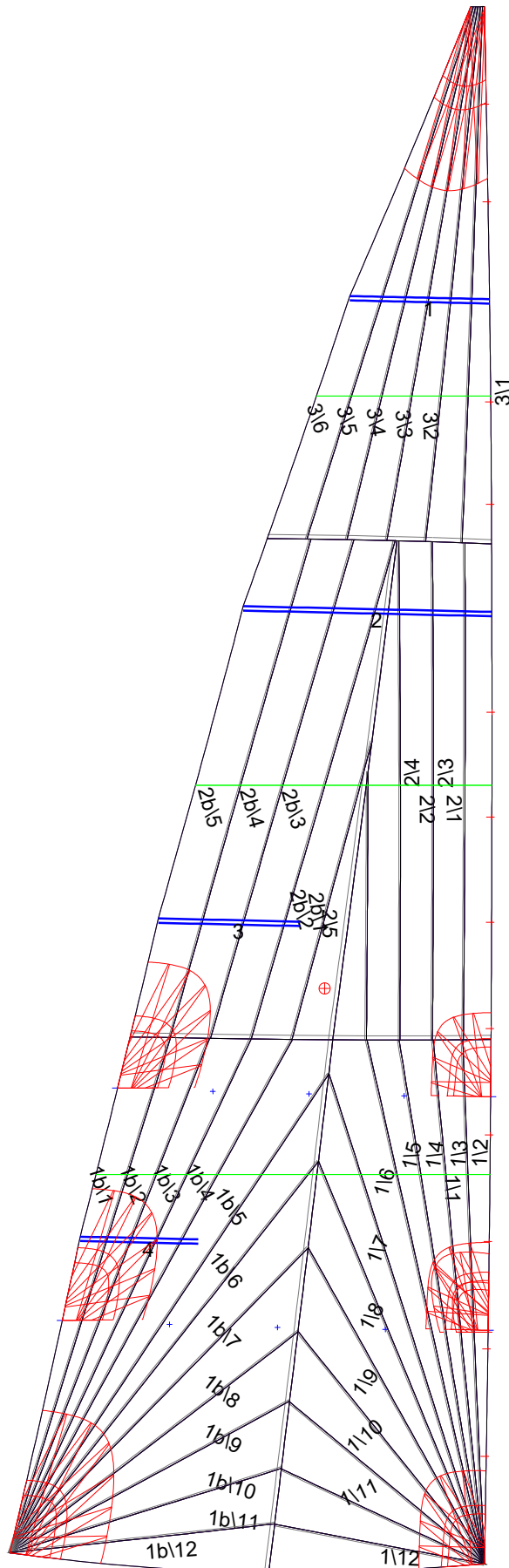
Luff Slides

1, Position: 0.981m
2, Position: 1.963m
3, Position: 2.944m
4, Position: 3.916m
5, Position: 4.887m
6, Position: 5.858m
7, Position: 6.818m
8, Position: 7.778m
9, Position: 9.674m
10, Position: 10.611m
11, Position: 12.438m
12, Position: 13.329m

Luff Curve

		Fanned Luff (@ 5.00% [0.217m])	Before BSeam
14.219m,	0.000m	100% (14.220m) :	0.000m
12.448m,	-0.033m	90% (12.798m) :	0.019m
10.665m,	-0.056m	80% (11.376m) :	0.101m
8.877m,	-0.066m	70% (9.954m) :	0.138m
7.110m,	-0.067m	60% (8.532m) :	0.156m
5.298m,	-0.062m	50% (7.110m) :	0.156m
3.555m,	-0.050m	40% (5.688m) :	0.142m
1.772m,	-0.028m	30% (4.266m) :	0.115m
0.000m,	0.000m	20% (2.844m) :	0.080m
		10% (1.422m) :	0.039m
		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

Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	5.61
Radial/Vertical	144.86
Bi-Radial Split	9.87

Materials

Material	Area (m ²)	Panels
Material 1	37.92	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1\11,1\12,1b\1,1b\2,1b\3 1b\4,1b\5,1b\6,1b\7,1b\8 1b\9,1b\10,1b\11,1b\12,2\1 2\2,2\3,2\4,2\5,2b\1 2b\2,2b\3,2b\4,2b\5,3\1 3\2,3\3,3\4,3\5,3\6