

Mainsail: 7000314 Kjell -1 Mainsail V1.des

Design Info
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Design File:
\\Nas\工程部-专用文件\Queenie-跟进客户\Fareast Sails\2023 Order\Need Confrim Order\7000314 Kjell\7000314 Kjell

Initial Design Date: 31/3/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	11.420m
Leech geodesic:	12.050m
Foot geodesic:	4.150m
Head geodesic:	0.120m
Upper width (MUW):	0.797m
Three-quarter width (MTW):	1.458m
Half width (MHW):	2.561m
Quarter width (MQW):	3.431m
Foot median:	11.712m
ORC Mainsail area:	27.377m ²
Surface area:	28.121m ²
Clew height:	-0.331m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
81.000%	1.217m	0.244m	72.022?	9.244m	9.721m	Full
61.000%	2.165m	0.317m	72.022?	6.959m	7.320m	Full
40.500%	2.957m	0.279m	72.022?	4.618m	4.860m	Full
20.200%	3.594m	0.161m	72.022?	2.301m	2.424m	Full

Reefing Points

1, Luff: 1.598m ; Leech: 1.659m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 3.768m ; Leech: 3.829m ;
2, Luff: 7.536m ; Leech: 7.813m ;

Luff Slides

1, Position: 0.693m
2, Position: 1.379m
3, Position: 3.039m
4, Position: 3.800m
5, Position: 5.323m
6, Position: 6.084m
7, Position: 7.607m
8, Position: 8.368m
9, Position: 9.893m
10, Position: 10.657m

Luff Curve

		Fanned Luff (@ 5.00% [0.207m])	Before BSeam
11.420m,	0.000m	100% (11.420m) :	0.000m
9.997m,	-0.026m	90% (10.278m) :	0.014m
8.565m,	-0.045m	80% (9.136m) :	0.089m
7.129m,	-0.053m	70% (7.994m) :	0.119m
5.710m,	-0.054m	60% (6.852m) :	0.132m
4.255m,	-0.050m	50% (5.710m) :	0.130m
2.855m,	-0.040m	40% (4.568m) :	0.118m
1.423m,	-0.023m	30% (3.426m) :	0.095m
0.000m,	0.000m	20% (2.284m) :	0.065m
		10% (1.142m) :	0.031m
		0% (0.000m) :	0.000m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.025m	0.015m	0.025m
Zone: 1/b	0.025m	0.015m	0.025m
Zone: 2/a	0.025m	0.015m	0.025m
Zone: 2/b	0.025m	0.015m	0.025m
Zone: 3	0.025m	0.015m	0.025m

Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	4.88
Radial/Vertical	123.09
Bi-Radial Split	8.45

Materials

Material	Area (m ²)	Panels
Material 1	28.17	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

