

Mainsail: 5000226 mainsail Claudia.des

Design Info

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Design File:

F:\Dropbox (个人)\Fareast Sails\2021\5000226 Claudia\5000226 mainsail Claudia.des

Initial Design Date: 8/3/2021

Boat:

Comments:

Client:

Design Data

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Main

Measurements

Luff geodesic:	13.250m
Leech geodesic:	13.875m
Foot geodesic:	4.450m
Head geodesic:	0.133m
Upper width (MUW):	0.838m
Three-quarter width (MTW):	1.539m
Half width (MHW):	2.731m
Quarter width (MQW):	3.660m
Foot median:	13.577m
ORC Mainsail area:	33.864m ²
Surface area:	34.739m ²
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.321m	0.232m	73.173?	10.595m	11.067m	Full
60.000%	2.347m	0.320m	73.173?	7.946m	8.300m	Full
40.000%	3.157m	0.266m	73.173?	5.297m	5.533m	Full
20.000%	3.840m	0.152m	73.173?	2.648m	2.767m	Full

Reefing Points

1, Luff: 1.987m ; Leech: 2.057m ; Offset: 0.000m ; Number Eyelets: 2
2, Luff: 3.974m ; Leech: 4.114m ; Offset: 0.000m ; Number Eyelets: 2
3, Luff: 5.961m ; Leech: 6.173m ; Offset: 0.000m ; Number Eyelets: 2

Luff Curve

		Fanned Luff (@ 5.00% [0.222m])	Before BSeam
13.250m,	0.000m	100% (13.250m) :	0.000m
11.598m,	-0.028m	90% (11.925m) :	0.047m
9.937m,	-0.048m	80% (10.600m) :	0.091m
8.272m,	-0.058m	70% (9.275m) :	0.126m
6.625m,	-0.060m	60% (7.950m) :	0.146m
4.937m,	-0.056m	50% (6.625m) :	0.148m
3.312m,	-0.045m	40% (5.300m) :	0.135m
1.651m,	-0.025m	30% (3.975m) :	0.110m
0.000m,	0.000m	20% (2.650m) :	0.076m
		10% (1.325m) :	0.037m
		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	5.41
Radial/Vertical	88.68
Bi-Radial Split	9.26

Materials

Material	Area (m ²)	Panels
Material 1	34.80	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1b1 1b2,1b3,1b4,1b5,1b6 1b7,1b8,1b9,2\1,2\2 2\3,2b1,2b2,2b3,3\1 3\2,3\3,3\4

