

Mainsail: 5000109 Daniel mainsail.des

Design Info

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Design File:

F:\Dropbox (个人)\Fareast Sails\2021\5000109 Daniel\5000109 Daniel mainsail.des

Initial Design Date: 19/1/2021

Boat:

Comments:

Client:

Design Data

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Main

Measurements

Luff geodesic:	10.561m
Leech geodesic:	10.998m
Foot geodesic:	3.392m
Head geodesic:	0.115m
Upper width (MUW):	0.654m
Three-quarter width (MTW):	1.191m
Half width (MHW):	2.097m
Quarter width (MQW):	2.798m
Foot median:	10.776m
ORC Mainsail area:	20.697m ²
Surface area:	21.173m ²
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.710m	0.181m	74.174?	8.444m	8.774m	
60.000%	1.015m	0.250m	74.174?	6.333m	6.581m	
40.000%	1.015m	0.208m	74.174?	4.221m	4.387m	
20.000%	0.845m	0.119m	74.174?	2.111m	2.194m	

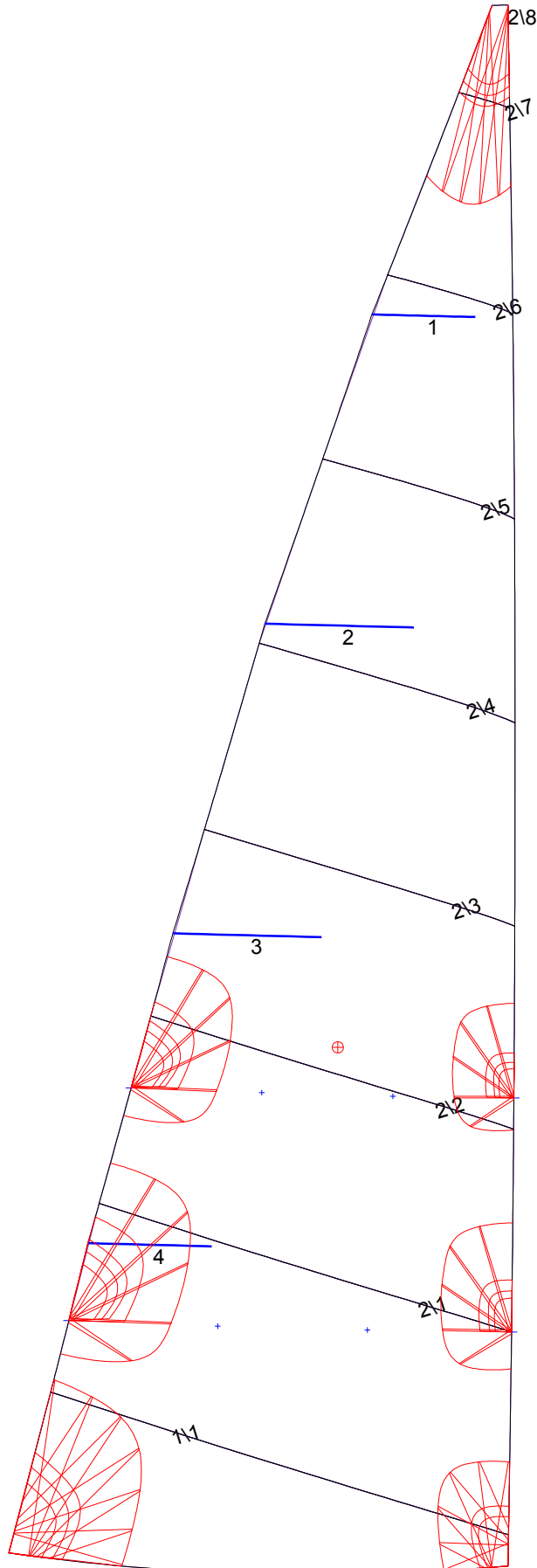
Reefing Points

1, Luff: 1.584m ; Leech: 1.632m ; Offset: 0.000m ; Number Eyelets: 2
2, Luff: 3.167m ; Leech: 3.264m ; Offset: 0.000m ; Number Eyelets: 2

Luff Curve

		Fanned Luff (@ 5.00% [0.169m])	Before BSeam
10.561m,	0.000m	100% (10.561m) :	0.000m
9.245m,	-0.022m	90% (9.505m) :	0.012m
7.920m,	-0.038m	80% (8.449m) :	0.071m
6.593m,	-0.046m	70% (7.393m) :	0.098m
5.280m,	-0.048m	60% (6.337m) :	0.113m
3.935m,	-0.044m	50% (5.281m) :	0.115m
2.640m,	-0.036m	40% (4.224m) :	0.105m
1.316m,	-0.020m	30% (3.168m) :	0.085m
0.000m,	0.000m	20% (2.112m) :	0.059m
		10% (1.056m) :	0.009m
		0% (0.000m) :	0.000m

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Seam Allowances

	Split	Radial	Cross
Zone: 1	0.025m	0.015m	0.025m
Zone: 2	0.025m	0.015m	0.025m

Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	15.90
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	21.18	1\1,2\1,2\2,2\3,2\4 2\5,2\6,2\7,2\8