

Mainsail: 5000807 Frans mainsail.des

Design Info
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Design File:
D:\dropbox\Dropbox\Fareast Sails\2021\5000807 Frans\5000807 Frans mainsail.des

Initial Design Date: 28/8/2021
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 14.874m
 Leech geodesic: 15.595m
 Foot geodesic: 5.060m
 Head geodesic: 0.115m
 Upper width (MUW): 0.879m
 Three-quarter width (MTW): 1.640m
 Half width (MHW): 3.016m
 Quarter width (MQW): 4.126m
 Foot median: 15.175m
 ORC Mainsail area: 42.280m?
 Surface area: 43.090m?
 Clew height: 0.100m
 Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.059m	0.177m	72.686?	11.895m	12.457m	
60.000%	1.513m	0.302m	72.686?	8.920m	9.343m	
40.000%	1.513m	0.254m	72.686?	5.947m	6.229m	
20.000%	1.261m	0.143m	72.686?	2.973m	3.114m	

Reefing Points

1, Luff: 2.231m ; Leech: 2.313m ; Offset: 0.000m ; Number Eyelets: 2
 2, Luff: 4.461m ; Leech: 4.627m ; Offset: 0.000m ; Number Eyelets: 2

Luff Curve

		Fanned Luff (@ 5.00% [0.252m])	Before BSeam
14.874m,	0.000m	100% (14.874m) :	0.000m
13.372m,	-0.031m	90% (13.387m) :	0.052m
11.899m,	-0.054m	80% (11.899m) :	0.096m
10.397m,	-0.068m	70% (10.412m) :	0.129m
8.923m,	-0.075m	60% (8.924m) :	0.150m
6.722m,	-0.073m	50% (7.437m) :	0.157m
4.462m,	-0.056m	40% (5.950m) :	0.151m
2.362m,	-0.033m	30% (4.462m) :	0.130m
0.000m,	0.000m	20% (2.975m) :	0.094m
		10% (1.487m) :	0.046m
		0% (0.000m) :	0.000m

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Seam Allowances			
	Split	Radial	Cross
Zone: 1	0.000m	0.000m	0.035m
Zone: 2	0.000m	0.000m	0.035m

Edge Excesses			
Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	36.02
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	43.14	1\1,1\2,2\1,2\2,2\3 2\4,2\5,2\6,2\7,2\8 2\9,2\10,2\11

