

Mainsail: 7001104 Tim-1 Scanmar 10 MainsailV2.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7001104 Tim\7001104

Initial Design Date: 14/11/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 12.350m
Leech geodesic: 12.700m
Foot geodesic: 3.700m
Head geodesic: 0.115m
Upper width (MUW): 0.727m
Three-quarter width (MTW): 1.320m
Half width (MHW): 2.324m
Quarter width (MQW): 3.089m
Foot median: 12.513m
ORC Mainsail area: 26.692m?
Surface area: 27.187m?
Clew height: 0.033m
Mast rake: 0.580m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.038m	0.191m	76.622?	10.119m	10.387m	Full
62.000%	1.919m	0.279m	76.622?	7.651m	7.854m	Full
42.000%	2.619m	0.249m	76.622?	5.183m	5.320m	Full
22.000%	3.177m	0.143m	76.622?	2.715m	2.787m	Full

Reefing Points

1, Luff: 2.000m ; Leech: 2.150m ; Offset: 0.000m ; Number Eyelets: 0
2, Luff: 4.450m ; Leech: 4.700m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

1, Luff: 4.072m ; Leech: 4.131m ;
2, Luff: 8.146m ; Leech: 8.311m ;

Luff Slides

1, Position: 0.833m
2, Position: 1.666m
3, Position: 3.339m
4, Position: 4.178m
5, Position: 5.857m
6, Position: 6.697m
7, Position: 8.378m
8, Position: 9.219m
9, Position: 10.823m
10, Position: 11.587m

Luff Curve

		Fanned Luff (@ 5.00% [0.184m])	Before BSeam
12.349m,	0.000m	100% (12.350m) :	0.000m
9.262m,	-0.075m	90% (11.115m) :	0.050m
6.174m,	-0.100m	80% (9.880m) :	0.098m
3.087m,	-0.075m	70% (8.645m) :	0.135m
0.000m,	0.000m	60% (7.410m) :	0.156m
		50% (6.175m) :	0.162m
		40% (4.940m) :	0.153m
		30% (3.705m) :	0.130m
		20% (2.470m) :	0.094m
		10% (1.235m) :	0.048m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone:	Split	Radial	Cross
1	0.030m	0.030m	0.030m

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

Total Seam Lengths (m)

Horizontal	23.81
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	27.23	1,2,3,4,5 6,7,8,9,10 11

