

Mainsail: 7000923 Nick Tartan 48 ketch Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7000923 Nick\7000

Initial Design Date: 4/10/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	15.990m
Leech geodesic:	16.444m
Foot geodesic:	4.290m
Head geodesic:	0.135m
Upper width (MUW):	0.872m
Three-quarter width (MTW):	1.551m
Half width (MHW):	2.694m
Quarter width (MQW):	3.598m
Foot median:	16.251m
ORC Mainsail area:	40.253m?
Surface area:	41.077m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
84.662%	1.076m	0.225m	76.879?	13.531m	13.890m	Full
68.002%	1.940m	0.338m	76.879?	10.868m	11.157m	Full
50.005%	2.720m	0.345m	76.879?	7.991m	8.204m	Full
34.074%	3.325m	0.291m	76.879?	5.445m	5.590m	Full
16.667%	3.850m	0.155m	76.879?	2.663m	2.734m	Full

Reefing Points

- 1, Luff: 2.158m ; Leech: 2.201m ; Offset: 0.000m ; Number Eyelets: 3
- 2, Luff: 4.556m ; Leech: 4.644m ; Offset: 0.000m ; Number Eyelets: 3

Luff Slides

- 1, Position: 0.888m
- 2, Position: 1.775m
- 3, Position: 3.551m
- 4, Position: 4.238m
- 5, Position: 6.214m
- 6, Position: 7.102m
- 7, Position: 8.878m
- 8, Position: 9.766m
- 9, Position: 11.542m
- 10, Position: 12.431m
- 11, Position: 14.209m
- 12, Position: 15.100m

Luff Curve

		Fanned Luff (@ 5.00% [0.214m])	Before BSeam
15.989m,	0.000m	100% (15.990m) :	0.000m
13.997m,	-0.037m	90% (14.391m) :	0.054m
11.992m,	-0.063m	80% (12.792m) :	0.100m
9.982m,	-0.075m	70% (11.193m) :	0.129m
7.995m,	-0.076m	60% (9.594m) :	0.145m
5.958m,	-0.070m	50% (7.995m) :	0.148m
3.997m,	-0.056m	40% (6.396m) :	0.144m
1.992m,	-0.032m	30% (4.797m) :	0.127m
0.000m,	0.000m	20% (3.198m) :	0.092m
		10% (1.599m) :	0.046m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone:	Split	Radial	Cross
1	0.040m	0.040m	0.040m

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

Total Seam Lengths (m)

Horizontal	34.96
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	41.08	1,2,3,4,5 6,7,8,9,10 11,12,13,14

