

Mainsail: 7000616 Kenneth-1 Mainsail.des

Design Info

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Design File:

\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000616 Kenneth\7000616 Kenneth-1 Mainsail.des

Initial Design Date: 30/6/2023

Boat:

Client:

Comments:

Design Data

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Main

Measurements

Luff geodesic:	9.504m
Leech geodesic:	10.565m
Foot geodesic:	4.752m
Head geodesic:	0.135m
Upper width (MUW):	1.156m
Three-quarter width (MTW):	2.084m
Half width (MHW):	3.405m
Quarter width (MQW):	4.187m
Foot median:	9.962m
ORC Mainsail area:	28.851m ²
Surface area:	31.104m ²
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
87.369%	1.536m	0.711m	71.433°	8.218m	9.125m	Full
72.207%	2.594m	0.948m	66.266°	6.834m	7.541m	Full
54.711%	3.397m	0.891m	63.925°	5.252m	5.714m	Full
35.765%	3.990m	0.659m	63.925°	3.475m	3.735m	Full
17.302%	4.421m	0.343m	63.925°	1.743m	1.807m	Full

Reefing Points

- 1, Luff: 1.302m ; Leech: 1.356m ; Offset: 0.000m ; Number Eyelets: 3
- 2, Luff: 2.708m ; Leech: 2.824m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

- 1, Luff: 2.375m ; Leech: 2.363m ;
- 2, Luff: 4.751m ; Leech: 4.877m ;
- 3, Luff: 7.127m ; Leech: 7.464m ;

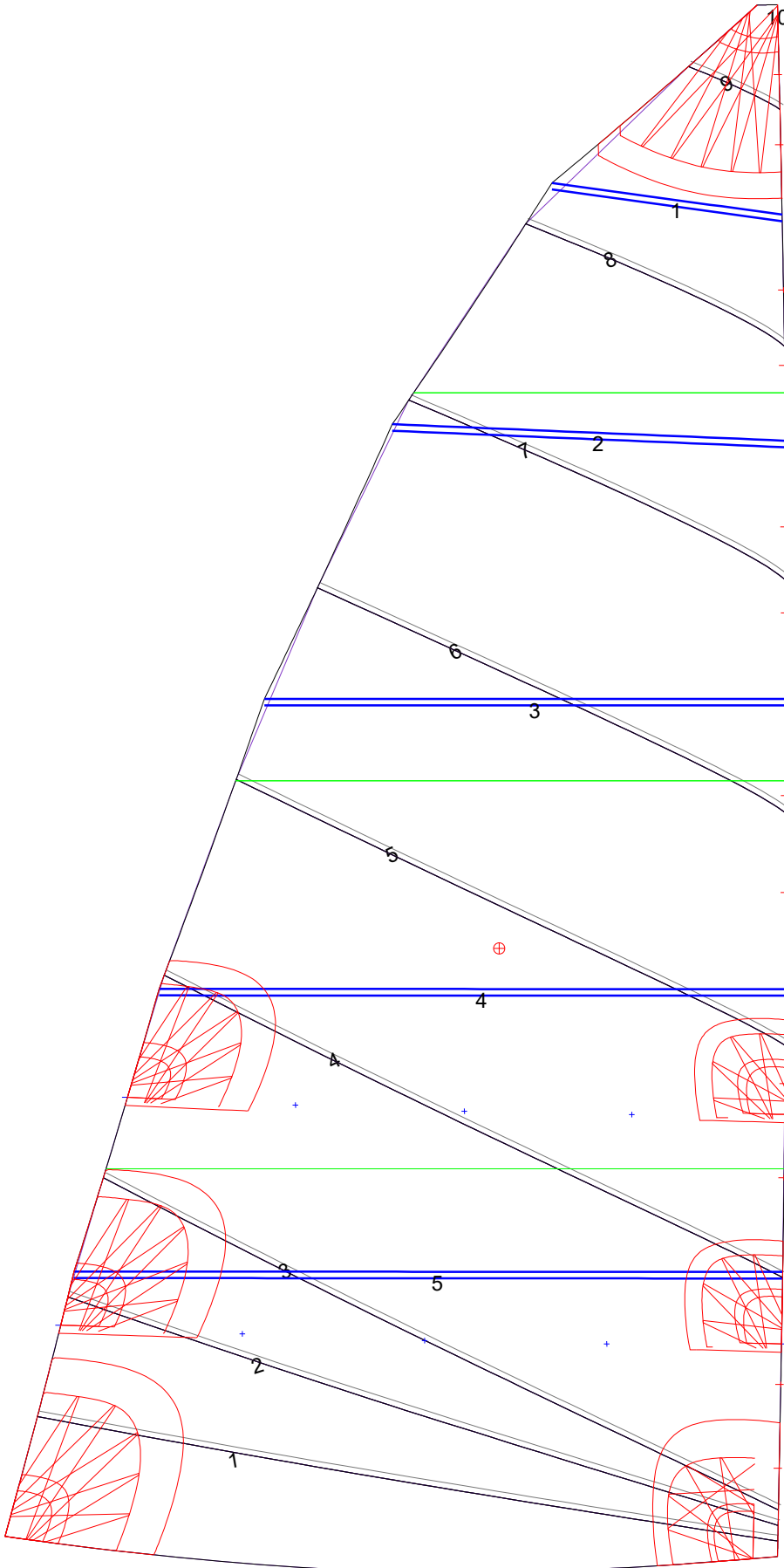
Luff Slides

- 1, Position: 0.540m
- 2, Position: 1.054m
- 3, Position: 2.320m
- 4, Position: 2.897m
- 5, Position: 4.067m
- 6, Position: 4.660m
- 7, Position: 5.779m
- 8, Position: 6.306m
- 9, Position: 7.295m
- 10, Position: 7.756m
- 11, Position: 8.647m
- 12, Position: 9.075m

Luff Curve

		Fanned Luff (@ 5.00% [0.237m])	Before BSeam
9.503m,	0.000m	100% (9.504m) :	0.000m
8.319m,	-0.027m	90% (8.554m) :	0.055m
7.128m,	-0.046m	80% (7.603m) :	0.107m
5.933m,	-0.054m	70% (6.653m) :	0.142m
4.752m,	-0.055m	60% (5.702m) :	0.155m
3.541m,	-0.051m	50% (4.752m) :	0.151m
2.376m,	-0.040m	40% (3.802m) :	0.131m
1.184m,	-0.023m	30% (2.851m) :	0.101m
0.000m,	0.000m	20% (1.901m) :	0.067m
		10% (0.951m) :	0.029m
		0% (0.000m) :	0.000m

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Seam Allowances

Zone: 1	Split	Radial	Cross
	0.035m	0.035m	0.035m

Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	30.69
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	31.03	1,2,3,4,5 6,7,8,9,10