

# Mainsail: 7000616 Kenneth-1 MainsailV1.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 MainsailV1.des

Initial Design Date: 30/6/2023  
Boat:

Comments:

Client:

Design Data  
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## Main

### Measurements

Luff geodesic: 9.504m  
 Leech geodesic: 10.574m  
 Foot geodesic: 4.752m  
 Head geodesic: 0.135m  
 Upper width (MUW): 1.145m  
 Three-quarter width (MTW): 2.080m  
 Half width (MHW): 3.427m  
 Quarter width (MQW): 4.194m  
 Foot median: 9.967m  
 ORC Mainsail area: 28.899m?  
 Surface area: 31.172m?  
 Clew height: 0.100m  
 Mast rake: 0.000m

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
87.369%	1.507m	0.685m	71.433?	8.215m	9.144m	Full
72.207%	2.610m	0.965m	66.266?	6.828m	7.557m	Full
54.711%	3.424m	0.916m	63.925?	5.243m	5.726m	Full
35.765%	4.007m	0.675m	63.925?	3.462m	3.743m	Full
17.302%	4.419m	0.343m	63.925?	1.726m	1.811m	Full

### Reefing Points

1, Luff: 1.302m ; Leech: 1.354m ; Offset: 0.000m ; Number Eyelets: 3  
 2, Luff: 2.708m ; Leech: 2.818m ; Offset: 0.000m ; Number Eyelets: 3

### Draft Stripes

1, Luff: 2.375m ; Leech: 2.380m ;  
 2, Luff: 4.751m ; Leech: 4.884m ;  
 3, Luff: 7.127m ; Leech: 7.475m ;

### Luff Slides

1, Position: 0.871m  
 2, Position: 2.465m  
 3, Position: 4.363m  
 4, Position: 6.043m  
 5, Position: 7.526m  
 6, Position: 8.861m

### 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) :	0.014m
7.128m,	-0.046m	80% (7.603m) :	0.026m
5.933m,	-0.054m	70% (6.653m) :	0.033m
4.752m,	-0.055m	60% (5.702m) :	0.035m
3.541m,	-0.051m	50% (4.752m) :	0.034m
2.376m,	-0.040m	40% (3.802m) :	0.031m
1.184m,	-0.023m	30% (2.851m) :	0.026m
0.000m,	0.000m	20% (1.901m) :	0.018m
		10% (0.950m) :	0.009m
		0% (0.000m) :	0.000m

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

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

Total Seam Lengths (m)

Horizontal	30.71
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	31.10	1,2,3,4,5 6,7,8,9,10

