

Mainsail: 7000504 Wolfgang -1 Catana 411 Catamaran Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000504 Wolfgang\7000504 Wolfgang

Initial Design Date: 11/5/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	14.503m
Leech geodesic:	15.150m
Foot geodesic:	5.593m
Head geodesic:	0.185m
Upper width (MUW):	1.760m
Three-quarter width (MTW):	3.028m
Half width (MHW):	4.557m
Quarter width (MQW):	5.257m
Foot median:	14.732m
ORC Mainsail area:	57.316m?
Surface area:	60.909m?
Clew height:	0.389m
Mast rake:	0.400m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
89.762%	2.033m	1.216m	79.982?	12.922m	13.488m	Full
78.257%	3.200m	1.667m	74.512?	11.329m	11.759m	Full
64.365%	4.068m	1.728m	74.512?	9.316m	9.672m	Full
50.727%	4.694m	1.603m	74.512?	7.341m	7.623m	Full
37.500%	5.053m	1.271m	74.512?	5.426m	5.635m	Full
25.000%	5.298m	0.891m	74.512?	3.617m	3.757m	Full
12.500%	5.453m	0.452m	74.512?	1.808m	1.878m	Full

Reefing Points

1, Luff: 2.027m ; Leech: 2.038m ; Offset: 0.000m ; Number Eyelets: 0
2, Luff: 4.128m ; Leech: 4.148m ; Offset: 0.000m ; Number Eyelets: 0
3, Luff: 6.302m ; Leech: 6.329m ; Offset: 0.000m ; Number Eyelets: 0
4, Luff: 8.695m ; Leech: 8.735m ; Offset: 0.000m ; Number Eyelets: 0

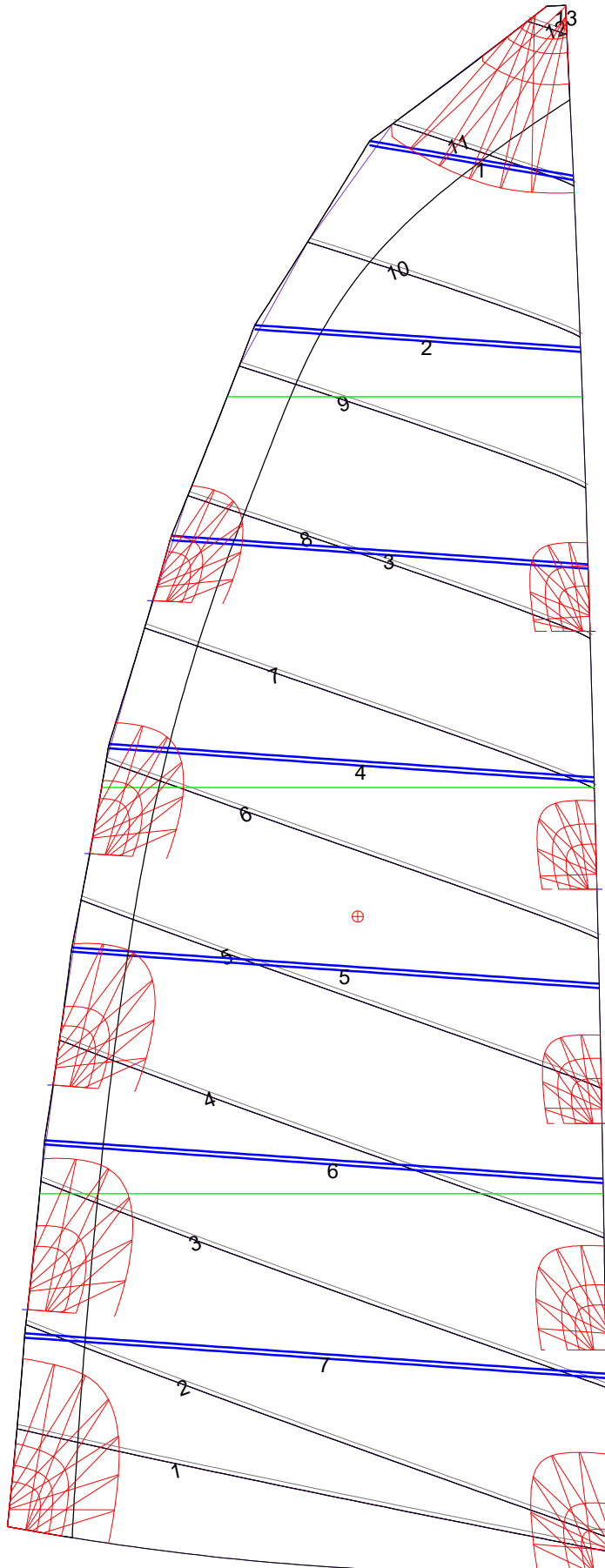
Draft Stripes

1, Luff: 3.476m ; Leech: 3.126m ;
2, Luff: 7.245m ; Leech: 6.953m ;
3, Luff: 10.871m ; Leech: 10.713m ;

Luff Curve

		Fanned Luff (@ 5.00% [0.278m])	Before BSeam
14.502m,	0.000m	100% (14.503m) :	0.000m
12.695m,	-0.033m	90% (13.053m) :	0.055m
10.877m,	-0.057m	80% (11.602m) :	0.104m
9.054m,	-0.068m	70% (10.152m) :	0.136m
7.251m,	-0.069m	60% (8.702m) :	0.148m
5.404m,	-0.064m	50% (7.252m) :	0.146m
3.626m,	-0.051m	40% (5.801m) :	0.130m
1.807m,	-0.029m	30% (4.351m) :	0.105m
0.000m,	0.000m	20% (2.900m) :	0.070m
		10% (1.451m) :	0.030m
		0% (0.000m) :	0.000m

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Seam Allowances			
	Split	Radial	Cross
Zone: 1	0.040m	0.040m	0.040m
Cover 1	0.000m	0.000m	0.000m

Edge Excesses			
	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m
Cover 0	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	50.19
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	60.86	1,2,3,4,5 6,7,8,9,10 11,12,13