

Mainsail: 7000504 Wolfgang -1 Catana 411 Catamaran MainsailV1.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): 1.721m
Three-quarter width (MTW): 2.930m
Half width (MHW): 4.445m
Quarter width (MQW): 5.252m
Foot median: 14.734m
ORC Mainsail area: 56.554m?
Surface area: 59.977m?
Clew height: 0.385m
Mast rake: 0.400m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
89.785%	1.903m	1.085m	82.971?	12.881m	13.495m	Full
78.283%	3.053m	1.521m	74.767?	11.324m	11.766m	Full
65.370%	3.913m	1.621m	72.917?	9.519m	9.825m	Full
51.748%	4.541m	1.483m	70.521?	7.686m	7.778m	Full
38.028%	4.988m	1.216m	70.521?	5.750m	5.716m	Full
25.113%	5.297m	0.885m	70.521?	3.928m	3.774m	Full
10.205%	5.516m	0.405m	70.521?	1.825m	1.534m	Full

Reefing Points

1, Luff: 2.028m ; 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: 6.333m ; Offset: 0.000m ; Number Eyelets: 0
4, Luff: 8.695m ; Leech: 8.745m ; Offset: 0.000m ; Number Eyelets: 0

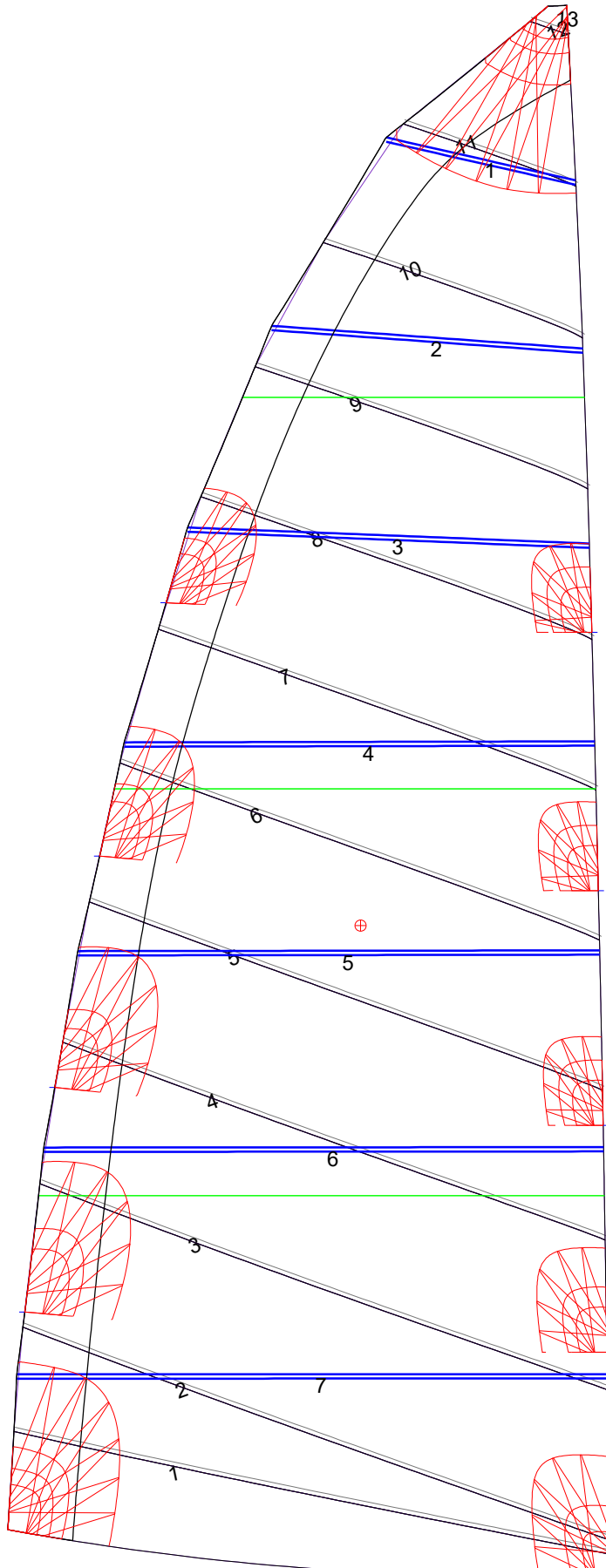
Draft Stripes

1, Luff: 3.476m ; Leech: 3.129m ;
2, Luff: 7.245m ; Leech: 6.970m ;
3, Luff: 10.871m ; Leech: 10.740m ;

Luff Curve

		Fanned Luff (@ 5.00% [0.278m])	Before BSeam
14.502m,	0.000m	100% (14.503m) :	0.000m
12.695m,	-0.042m	90% (13.054m) :	0.060m
10.877m,	-0.066m	80% (11.602m) :	0.111m
9.054m,	-0.073m	70% (10.152m) :	0.142m
7.251m,	-0.072m	60% (8.702m) :	0.152m
5.404m,	-0.064m	50% (7.252m) :	0.148m
3.626m,	-0.049m	40% (5.801m) :	0.132m
1.807m,	-0.027m	30% (4.351m) :	0.106m
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			
Zone:	Split	Radial	Cross
1	0.040m	0.040m	0.040m
Cover 1	0.000m	0.000m	0.000m

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

Total Seam Lengths (m)	
Horizontal	49.45
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials		
Material	Area (m ²)	Panels
Material 1	59.93	1,2,3,4,5 6,7,8,9,10 11,12,13