

# Mainsail: 7001114 Rodaric X-Yacht 452 Mainsail.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7001114 Rodaric\7001114 Rodaric

Initial Design Date: 18/11/2023  
Boat:

Comments:

Client:

Design Data  
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## Main

### Measurements

Luff geodesic: 15.560m  
Leech geodesic: 16.230m  
Foot geodesic: 4.950m  
Head geodesic: 0.135m  
Upper width (MUW): 0.975m  
Three-quarter width (MTW): 1.774m  
Half width (MHW): 3.106m  
Quarter width (MQW): 4.137m  
Foot median: 15.882m  
ORC Mainsail area: 45.006m?  
Surface area: 46.011m?  
Clew height: 0.100m  
Mast rake: 0.000m

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.408m	0.312m	74.175?	12.750m	13.270m	Full
62.000%	2.579m	0.443m	74.175?	9.634m	10.033m	Full
42.000%	3.508m	0.397m	74.175?	6.519m	6.797m	Full
22.000%	4.263m	0.246m	74.175?	3.405m	3.560m	Full

### Reefing Points

1, Luff: 2.333m ; Leech: 2.400m ; Offset: 0.000m ; Number Eyelets: 3  
2, Luff: 4.667m ; Leech: 4.801m ; Offset: 0.000m ; Number Eyelets: 3

### Draft Stripes

1, Luff: 3.889m ; Leech: 3.912m ;  
2, Luff: 7.779m ; Leech: 7.951m ;  
3, Luff: 11.669m ; Leech: 12.032m ;

### Luff Slides

1, Position: 0.959m  
2, Position: 1.960m  
3, Position: 4.375m  
4, Position: 5.481m  
5, Position: 7.558m  
6, Position: 8.596m  
7, Position: 10.673m  
8, Position: 11.711m  
9, Position: 13.686m  
10, Position: 14.623m

### Luff Curve

		Fanned Luff (@ 5.00% [0.246m])	Before BSeam
15.559m,	0.000m	100% (15.560m) :	0.000m
13.621m,	-0.036m	90% (14.004m) :	0.053m
11.670m,	-0.062m	80% (12.448m) :	0.102m
9.714m,	-0.073m	70% (10.892m) :	0.137m
7.780m,	-0.074m	60% (9.336m) :	0.155m
5.798m,	-0.068m	50% (7.780m) :	0.159m
3.890m,	-0.055m	40% (6.224m) :	0.148m
1.939m,	-0.031m	30% (4.668m) :	0.124m
0.000m,	0.000m	20% (3.112m) :	0.091m
		10% (1.556m) :	0.048m
		0% (0.000m) :	0.000m

