

Mainsail: 7000415 Ralf MainsailV1.des

Design Info

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Design File:

\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000415 Ralf\700041

Initial Design Date: 25/4/2023

Boat:

Comments:

Client:

Design Data

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Main

Measurements

Luff geodesic:	14.454m
Leech geodesic:	14.766m
Foot geodesic:	3.465m
Head geodesic:	0.115m
Upper width (MUW):	0.731m
Three-quarter width (MTW):	1.301m
Half width (MHW):	2.216m
Quarter width (MQW):	2.907m
Foot median:	14.555m
ORC Mainsail area:	29.724m?
Surface area:	30.020m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.017%	0.780m	0.238m	78.411?	11.849m	12.093m	
62.763%	1.150m	0.309m	78.411?	9.067m	9.254m	
42.501%	1.150m	0.272m	78.411?	6.139m	6.266m	
21.488%	0.950m	0.157m	78.411?	3.104m	3.168m	

Reefing Points

1, Luff: 2.167m ; Leech: 2.199m ; Offset: 0.000m ; Number Eyelets: 3
 2, Luff: 4.335m ; Leech: 4.398m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 4.768m ; Leech: 4.768m ;
 2, Luff: 9.538m ; Leech: 9.647m ;

Luff Slides

1, Position: 0.638m
 2, Position: 1.311m
 3, Position: 1.984m
 4, Position: 2.777m
 5, Position: 3.469m
 6, Position: 4.162m
 7, Position: 4.854m
 8, Position: 5.546m
 9, Position: 6.239m
 10, Position: 6.931m
 11, Position: 7.623m
 12, Position: 8.315m
 13, Position: 9.008m
 14, Position: 9.700m
 15, Position: 10.392m
 16, Position: 11.085m
 17, Position: 11.777m
 18, Position: 12.469m
 19, Position: 13.162m
 20, Position: 13.854m

Luff Curve

		Fanned Luff (@ 5.00% [0.173m])	Before BSeam
14.453m,	0.000m	100% (14.454m) :	0.000m
12.652m,	-0.033m	90% (13.009m) :	0.019m
10.840m,	-0.057m	80% (11.563m) :	0.037m
9.023m,	-0.067m	70% (10.118m) :	0.047m
7.227m,	-0.069m	60% (8.672m) :	0.050m
5.385m,	-0.064m	50% (7.227m) :	0.050m
3.613m,	-0.051m	40% (5.782m) :	0.047m
1.801m,	-0.029m	30% (4.336m) :	0.040m
0.000m,	0.000m	20% (2.891m) :	0.030m
		10% (1.445m) :	0.015m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone:	Split	Radial	Cross
1	0.038m	0.038m	0.038m
Cover 1	0.025m	0.025m	0.025m

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

Total Seam Lengths (m)

Horizontal	26.21
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	30.04	1,2,3,4,5 6,7,8,9,10 11,12,13

