

Mainsail: 7001007 Graham vertbatten Furling Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7001007 Graham\7

Initial Design Date: 14/10/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	15.390m
Leech geodesic:	15.900m
Foot geodesic:	5.350m
Head geodesic:	0.030m
Upper width (MUW):	0.974m
Three-quarter width (MTW):	1.756m
Half width (MHW):	3.126m
Quarter width (MQW):	4.298m
Foot median:	15.478m
ORC Mainsail area:	45.825m ²
Surface area:	46.277m ²
Clew height:	0.430m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.800m	0.280m	160.536°	101.279m	13.010m	
62.000%	2.100m	0.363m	160.536°	193.823m	9.837m	
42.000%	2.100m	0.305m	160.536°	286.365m	6.664m	
22.500%	1.800m	0.185m	160.536°	376.596m	3.570m	

Draft Stripes

- 1, Luff: 3.845m ; Leech: 3.582m ;
- 2, Luff: 7.691m ; Leech: 7.618m ;
- 3, Luff: 11.539m ; Leech: 11.686m ;

Luff Curve

		Fanned Luff (@ 5.00% [0.266m])	Before BSeam
15.390m,	0.000m	100% (15.390m) :	0.000m
13.472m,	-0.021m	90% (13.851m) :	0.042m
11.542m,	-0.037m	80% (12.312m) :	0.083m
9.608m,	-0.045m	70% (10.773m) :	0.114m
7.695m,	-0.046m	60% (9.234m) :	0.133m
5.734m,	-0.043m	50% (7.695m) :	0.138m
3.847m,	-0.034m	40% (6.156m) :	0.130m
1.918m,	-0.019m	30% (4.617m) :	0.108m
0.000m,	0.000m	20% (3.078m) :	0.076m
		10% (1.539m) :	0.037m
		0% (0.000m) :	0.000m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1	0.040m	0.040m	0.040m
Cover 1	0.000m	0.000m	0.000m
Cover 2	0.000m	0.000m	0.000m

Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m
Cover 0	0.000m	0.070m	0.070m
Cover 1	0.000m	0.070m	0.070m

Total Seam Lengths (m)

Horizontal	39.33
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	46.29	1,2,3,4,5 6,7,8,9,10 11,12,13

