

Mainsail: 7000603 Yoh-1 Yamaha 34S MainsailV2.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000603 Yoh\7000603

Initial Design Date: 8/6/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	12.520m
Leech geodesic:	13.000m
Foot geodesic:	4.554m
Head geodesic:	0.115m
Upper width (MUW):	0.821m
Three-quarter width (MTW):	1.514m
Half width (MHW):	2.728m
Quarter width (MQW):	3.715m
Foot median:	12.729m
ORC Mainsail area:	32.224m?
Surface area:	32.892m?
Clew height:	0.334m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.186m	0.187m	74.317?	10.254m	10.625m	Full
62.000%	2.231m	0.265m	74.317?	7.751m	8.033m	Full
41.500%	3.123m	0.239m	74.317?	5.187m	5.377m	Full
21.000%	3.872m	0.138m	74.317?	2.624m	2.721m	Full

Reefing Points

1, Luff: 1.876m ; Leech: 1.934m ; Offset: 0.000m ; Number Eyelets: 3
2, Luff: 3.752m ; Leech: 3.865m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 3.127m ; Leech: 2.938m ;
2, Luff: 6.255m ; Leech: 6.241m ;
3, Luff: 9.386m ; Leech: 9.576m ;

Luff Slides

1, Position: 1.349m
2, Position: 4.178m
3, Position: 6.516m
4, Position: 9.032m
5, Position: 11.397m

Luff Curve

		Fanned Luff (@ 5.00% [0.226m])	Before BSeam
12.519m,	0.000m	100% (12.520m) :	0.000m
10.959m,	-0.032m	90% (11.269m) :	0.049m
9.390m,	-0.055m	80% (10.016m) :	0.096m
7.816m,	-0.065m	70% (8.764m) :	0.132m
6.260m,	-0.066m	60% (7.512m) :	0.152m
4.665m,	-0.061m	50% (6.260m) :	0.155m
3.130m,	-0.049m	40% (5.008m) :	0.143m
1.560m,	-0.028m	30% (3.756m) :	0.119m
0.000m,	0.000m	20% (2.504m) :	0.084m
		10% (1.252m) :	0.041m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone:	Split	Radial	Cross
1	0.030m	0.030m	0.030m

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

Total Seam Lengths (m)

Horizontal	28.19
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	32.94	1,2,3,4,5 6,7,8,9,10 11

