

Mainsail: 7001026 Martin Mainsail.des

Design Info

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Initial Design Date: 6/11/2023

Boat:

Client:

Design File:

\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7001026 Martin\700

Comments:

Design Data

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Main

Measurements

Luff geodesic:	16.067m
Leech geodesic:	16.482m
Foot geodesic:	4.148m
Head geodesic:	0.133m
Upper width (MUW):	0.864m
Three-quarter width (MTW):	1.538m
Half width (MHW):	2.628m
Quarter width (MQW):	3.469m
Foot median:	16.199m
ORC Mainsail area:	39.318m?
Surface area:	39.726m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.227m	0.284m	77.544?	13.167m	13.488m	Full
62.000%	2.181m	0.369m	77.544?	9.953m	10.198m	Full
42.000%	2.950m	0.326m	77.544?	6.739m	6.908m	Full
22.000%	3.567m	0.188m	77.544?	3.526m	3.619m	Full

Reefing Points

1, Luff: 1.992m ; Leech: 2.029m ; Offset: 0.000m ; Number Eyelets: 3
2, Luff: 4.256m ; Leech: 4.331m ; Offset: 0.000m ; Number Eyelets: 3
3, Luff: 7.228m ; Leech: 7.356m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 4.016m ; Leech: 3.995m ;
2, Luff: 8.032m ; Leech: 8.110m ;
3, Luff: 12.048m ; Leech: 12.253m ;

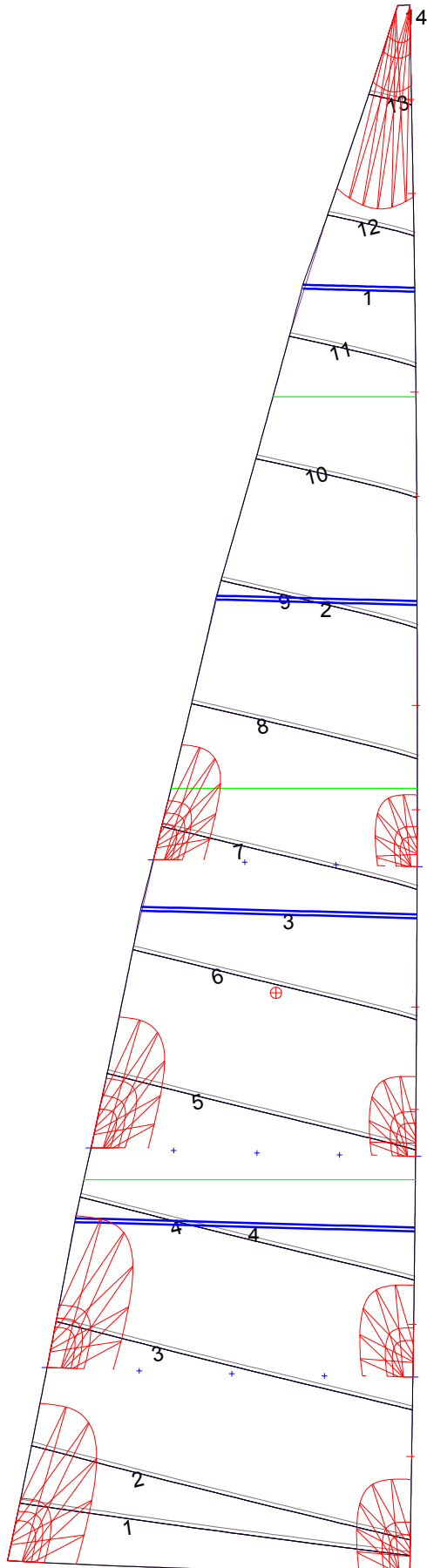
Luff Slides

1, Position: 1.177m
2, Position: 2.534m
3, Position: 4.738m
4, Position: 5.788m
5, Position: 7.813m
6, Position: 8.883m
7, Position: 11.025m
8, Position: 12.096m
9, Position: 14.134m
10, Position: 15.100m

Luff Curve

		Fanned Luff (@ 5.00% [0.206m])	Before BSeam
16.066m,	0.000m	100% (16.067m) :	0.000m -0.000m
14.064m,	-0.037m	90% (14.461m) :	0.023m 0.050m
12.050m,	-0.064m	80% (12.854m) :	-0.042m 0.096m
10.030m,	-0.075m	70% (11.247m) :	0.054m 0.128m
8.033m,	-0.076m	60% (9.640m) :	0.058m 0.144m
5.987m,	-0.071m	50% (8.033m) :	0.058m 0.147m
4.017m,	-0.056m	40% (6.427m) :	0.054m 0.137m
2.002m,	-0.032m	30% (4.820m) :	0.047m 0.116m
0.000m,	0.000m	20% (3.213m) :	0.035m 0.085m
		10% (1.607m) :	0.018m 0.045m
		0% (0.000m) :	0.000m 0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.040m	0.040m	0.040m

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

Total Seam Lengths (m)

Horizontal	34.18
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	39.76	1,2,3,4,5 6,7,8,9,10 11,12,13,14