

Mainsail: 7000710 Charles Grand Soleil 46.3 MainsailV2.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000710 Charles\700

Initial Design Date: 12/7/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 15.582m
Leech geodesic: 16.244m
Foot geodesic: 5.029m
Head geodesic: 0.152m
Upper width (MUW): 1.008m
Three-quarter width (MTW): 1.846m
Half width (MHW): 3.200m
Quarter width (MQW): 4.221m
Foot median: 15.905m
ORC Mainsail area: 46.206m?
Surface area: 47.416m?
Clew height: 0.030m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.589m	0.345m	74.124?	12.457m	12.955m	Full
60.000%	2.757m	0.450m	74.124?	9.340m	9.716m	Full
40.000%	3.677m	0.395m	74.124?	6.224m	6.477m	Full
20.000%	4.405m	0.229m	74.124?	3.108m	3.239m	Full

Reefing Points

1, Luff: 1.947m ; Leech: 2.002m ; Offset: 0.000m ; Number Eyelets: 3
2, Luff: 4.128m ; Leech: 4.238m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 3.894m ; Leech: 3.886m ;
2, Luff: 7.789m ; Leech: 7.930m ;
3, Luff: 11.685m ; Leech: 12.017m ;

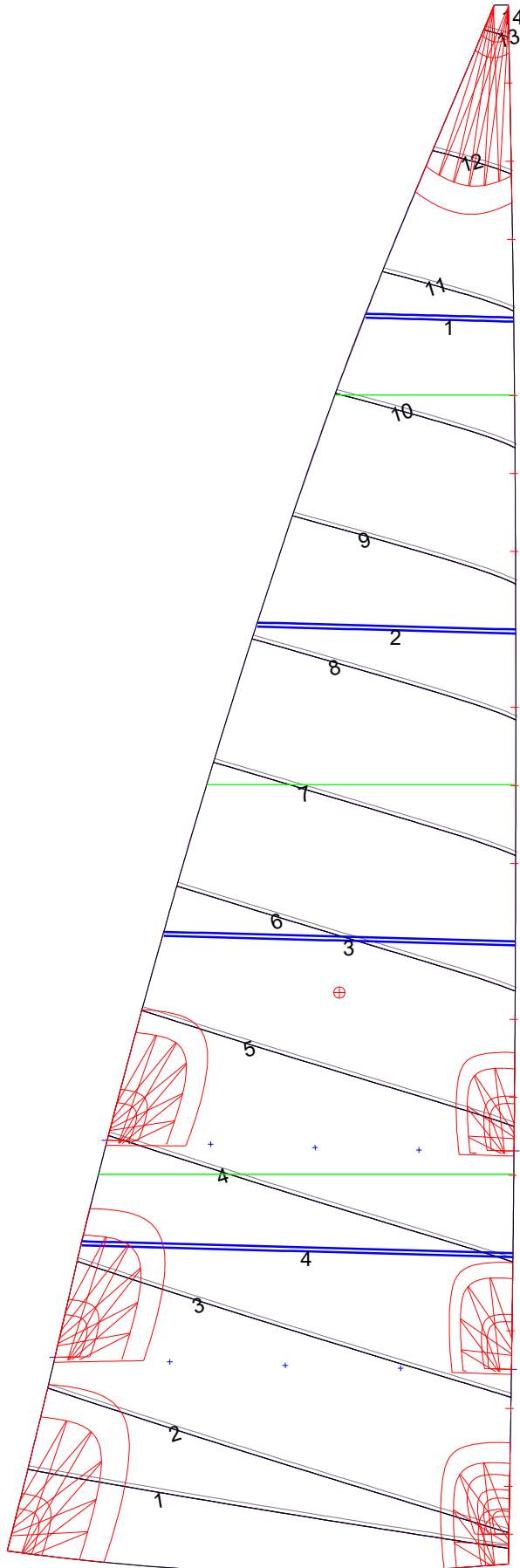
Luff Slides

1, Position: 0.777m
2, Position: 1.554m
3, Position: 2.331m
4, Position: 3.887m
5, Position: 4.666m
6, Position: 5.445m
7, Position: 7.003m
8, Position: 7.782m
9, Position: 8.561m
10, Position: 10.120m
11, Position: 10.899m
12, Position: 11.678m
13, Position: 13.239m
14, Position: 14.020m
15, Position: 14.801m

Luff Curve

		Fanned Luff (@ 5.00% [0.250m])	Before BSeam
15.582m,	0.000m	100% (15.582m) :	0.000m
13.640m,	-0.036m	90% (14.024m) :	0.058m
11.686m,	-0.062m	80% (12.466m) :	0.113m
9.728m,	-0.073m	70% (10.908m) :	0.155m
7.791m,	-0.074m	60% (9.349m) :	0.177m
5.806m,	-0.069m	50% (7.791m) :	0.179m
3.895m,	-0.055m	40% (6.233m) :	0.163m
1.942m,	-0.031m	30% (4.675m) :	0.133m
0.000m,	0.000m	20% (3.116m) :	0.092m
		10% (1.558m) :	0.045m
		0% (0.000m) :	0.000m

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Seam Allowances

Zone: 1	Split	Radial	Cross
	0.039m	0.039m	0.039m

Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	39.77
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	47.47	1,2,3,4,5 6,7,8,9,10 11,12,13,14