

Mainsail: 7000710 Charles Grand Soleil 46.3 MainsailV1.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:	15.661m
Leech geodesic:	16.319m
Foot geodesic:	5.029m
Head geodesic:	0.152m
Upper width (MUW):	1.008m
Three-quarter width (MTW):	1.847m
Half width (MHW):	3.200m
Quarter width (MQW):	4.221m
Foot median:	15.983m
ORC Mainsail area:	46.445m?
Surface area:	47.651m?
Clew height:	0.030m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.589m	0.345m	74.124?	12.522m	13.015m	Full
60.000%	2.757m	0.450m	74.124?	9.391m	9.761m	Full
40.000%	3.677m	0.395m	74.124?	6.260m	6.508m	Full
20.000%	4.405m	0.229m	74.124?	3.130m	3.254m	Full

Reefing Points

1, Luff: 1.957m ; Leech: 2.012m ; Offset: 0.000m ; Number Eyelets: 3
 2, Luff: 4.149m ; Leech: 4.258m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 3.914m ; Leech: 3.905m ;
 2, Luff: 7.829m ; Leech: 7.968m ;
 3, Luff: 11.744m ; Leech: 12.074m ;

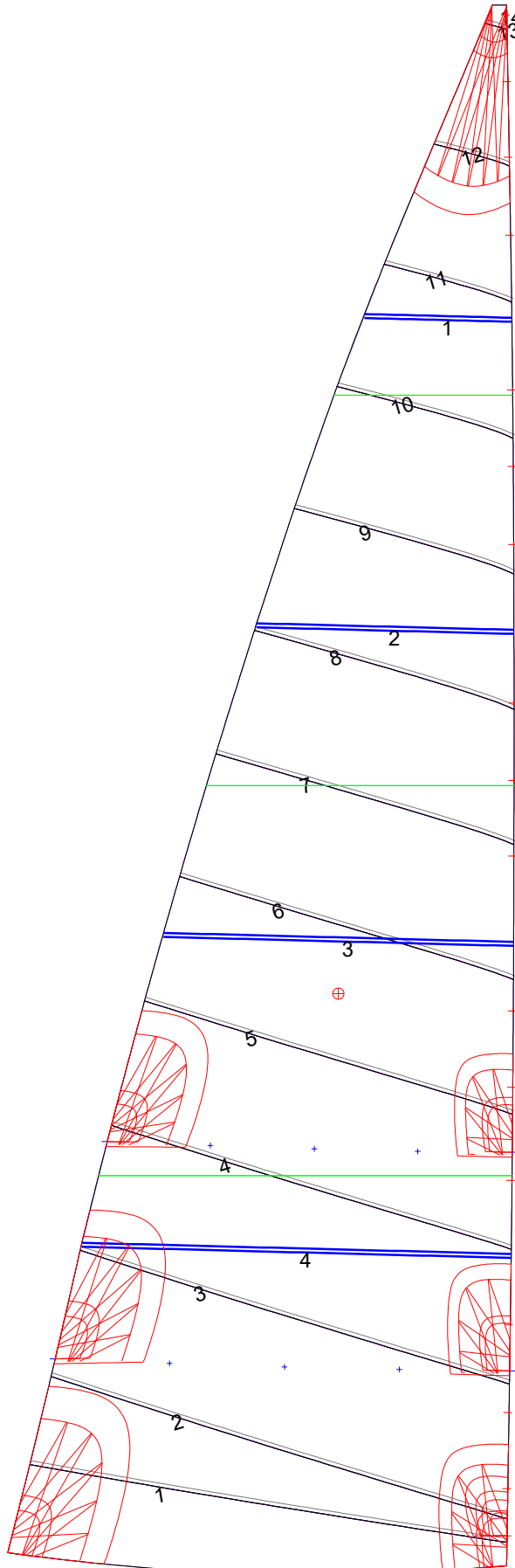
Luff Slides

1, Position: 0.773m
 2, Position: 1.537m
 3, Position: 2.422m
 4, Position: 3.866m
 5, Position: 4.802m
 6, Position: 5.568m
 7, Position: 7.123m
 8, Position: 7.878m
 9, Position: 8.656m
 10, Position: 10.246m
 11, Position: 11.029m
 12, Position: 11.799m
 13, Position: 13.351m
 14, Position: 14.133m
 15, Position: 14.891m
 16, Position: 15.562m

Luff Curve

		Fanned Luff (@ 5.00% [0.250m])	Before BSeam
15.660m,	0.000m	100% (15.661m) :	0.000m
13.709m,	-0.036m	90% (14.095m) :	0.019m
11.745m,	-0.062m	80% (12.529m) :	0.113m
9.777m,	-0.073m	70% (10.963m) :	0.155m
7.830m,	-0.074m	60% (9.397m) :	0.177m
5.835m,	-0.069m	50% (7.831m) :	0.179m
3.915m,	-0.055m	40% (6.264m) :	0.163m
1.952m,	-0.031m	30% (4.698m) :	0.133m
0.000m,	0.000m	20% (3.132m) :	0.092m
		10% (1.566m) :	0.015m
		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	39.37
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	47.70	1,2,3,4,5 6,7,8,9,10 11,12,13,14