

Mainsail: 7000620 Stéphane Outremer 40 Catamaran Mainsail.des

Design Info
=====

Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000620 Stéphane\70

Initial Design Date: 16/8/2023
Boat:

Comments:

Client:

Design Data
=====

Main

Measurements

Luff geodesic:	13.662m
Leech geodesic:	14.366m
Foot geodesic:	4.950m
Head geodesic:	0.135m
Upper width (MUW):	1.374m
Three-quarter width (MTW):	2.453m
Half width (MHW):	3.774m
Quarter width (MQW):	4.462m
Foot median:	13.925m
ORC Mainsail area:	45.326m?
Surface area:	47.522m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
85.489%	1.950m	0.991m	73.262?	11.670m	12.207m	Full
71.588%	2.933m	1.212m	73.262?	9.772m	10.222m	Full
55.703%	3.679m	1.155m	73.262?	7.603m	7.954m	Full
38.937%	4.185m	0.873m	73.262?	5.315m	5.560m	Full
20.609%	4.571m	0.470m	73.262?	2.815m	2.943m	Full

Reefing Points

- 1, Luff: 2.200m ; Leech: 2.233m ; Offset: 0.000m ; Number Eyelets: 0
- 2, Luff: 4.960m ; Leech: 5.025m ; Offset: 0.000m ; Number Eyelets: 0
- 3, Luff: 8.000m ; Leech: 8.113m ; Offset: 0.000m ; Number Eyelets: 0

Luff Slides

- 1, Position: 1.408m
- 2, Position: 4.065m
- 3, Position: 6.459m
- 4, Position: 8.687m
- 5, Position: 10.721m
- 6, Position: 12.666m

Luff Curve

		Fanned Luff (@ 5.00% [0.246m])	Before BSeam
13.661m,	0.000m	100% (13.662m) :	0.000m
10.246m,	-0.064m	90% (12.296m) :	0.016m
6.831m,	-0.085m	80% (10.929m) :	0.122m
3.415m,	-0.064m	70% (9.564m) :	0.167m
0.000m,	0.000m	60% (8.197m) :	0.186m
		50% (6.831m) :	0.186m
		40% (5.465m) :	0.172m
		30% (4.099m) :	0.141m
		20% (2.732m) :	0.095m
		10% (1.367m) :	0.041m
		0% (0.000m) :	0.000m

Mainsail: 7000620 Stéphane Outremer 40 Catamaran Mainsail.des

Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.038m	0.016m	0.045m
Zone: 1/b	0.038m	0.016m	0.045m
Zone: 2/a	0.038m	0.016m	0.045m
Zone: 2/b	0.038m	0.016m	0.045m
Zone: 3	0.038m	0.016m	0.045m
Zone: 4	0.038m	0.016m	0.045m

Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	11.05
Radial/Vertical	155.66
Bi-Radial Split	7.27

Materials

Material	Area (m ²)	Panels
Material 1	47.55	1\1, 1\2, 1\3, 1\4, 1\5 1\6, 1\7, 1\8, 1\9, 1\10 1\11, 1\12, 1\13, 1b\1, 1b\2 1b\3, 1b\4, 1b\5, 1b\6, 1b\7 1b\8, 1b\9, 1b\10, 1b\11, 1b\12 1b\13, 2\1, 2\2, 2\3, 2\4 2\5, 2\6, 2b\1, 2b\2, 2b\3 2b\4, 2b\5, 2b\6, 3\1, 3\2 3\3, 3\4, 3\5, 3\6, 3\7 3\8, 4\1, 4\2, 4\3, 4\4 4\5, 4\6

