

Mainsail: 7000218 Jan-1 Dufour Nautitech 475 Catamaran Main.des

Design Info
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Design File:
\\Nas\工程部-专用文件\Queenie-跟进客户\Fareast Sails\2023 Order\Need Confrim Order\7000218 Jan\7000218 Jan-1

Initial Design Date: 22/3/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	15.741m
Leech geodesic:	16.960m
Foot geodesic:	7.290m
Head geodesic:	0.165m
Upper width (MUW):	2.056m
Three-quarter width (MTW):	3.865m
Half width (MHW):	6.050m
Quarter width (MQW):	6.891m
Foot median:	16.157m
ORC Mainsail area:	80.886m?
Surface area:	88.010m?
Clew height:	0.336m
Mast rake:	0.450m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
85.847%	3.406m	2.002m	72.072?	13.434m	14.404m	Full
70.969%	5.101m	2.460m	69.540?	11.140m	11.908m	Full
53.195%	6.199m	2.260m	69.540?	8.337m	8.926m	Full
35.681%	6.761m	1.656m	69.540?	5.575m	5.987m	Full
17.906%	7.044m	0.838m	69.540?	2.774m	3.004m	Full

Reefing Points

- 1, Luff: 2.358m ; Leech: 2.381m ; Offset: 0.000m ; Number Eyelets: 0
- 2, Luff: 4.717m ; Leech: 4.760m ; Offset: 0.000m ; Number Eyelets: 0
- 3, Luff: 8.650m ; Leech: 8.737m ; Offset: 0.000m ; Number Eyelets: 0

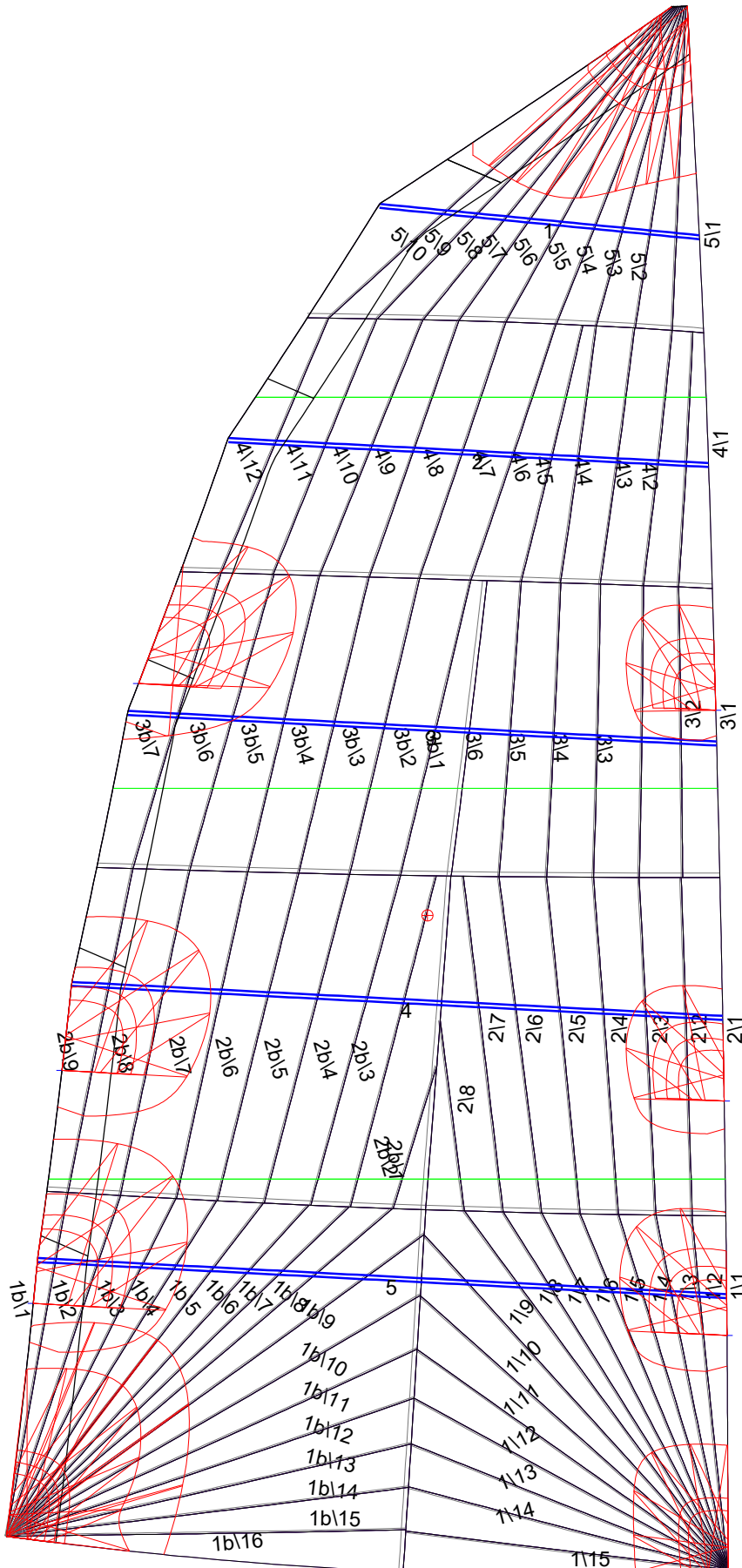
Draft Stripes

- 1, Luff: 3.930m ; Leech: 3.649m ;
- 2, Luff: 7.863m ; Leech: 7.654m ;
- 3, Luff: 11.799m ; Leech: 11.775m ;

Luff Curve

		Fanned Luff (@ 5.00% [0.363m])	Before BSeam
15.740m,	0.000m	100% (15.741m) :	0.000m
13.778m,	-0.052m	90% (14.168m) :	0.096m
11.805m,	-0.087m	80% (12.593m) :	0.176m
9.827m,	-0.100m	70% (11.019m) :	0.230m
7.870m,	-0.100m	60% (9.445m) :	0.246m
5.865m,	-0.093m	50% (7.871m) :	0.238m
3.935m,	-0.074m	40% (6.296m) :	0.208m
1.961m,	-0.042m	30% (4.722m) :	0.164m
0.000m,	0.000m	20% (3.148m) :	0.109m
		10% (1.575m) :	0.051m
		0% (0.000m) :	0.000m

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Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.045m	0.016m	0.045m
Zone: 1/b	0.045m	0.016m	0.045m
Zone: 2/a	0.045m	0.016m	0.045m
Zone: 2/b	0.045m	0.016m	0.045m
Zone: 3/a	0.045m	0.016m	0.045m
Zone: 3/b	0.045m	0.016m	0.045m
Zone: 4	0.045m	0.016m	0.045m
Zone: 5	0.045m	0.016m	0.045m
Cover 1	0.025m	0.025m	0.025m

Edge Excesses

	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m
Cover 0	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	23.32
Radial/Vertical	267.11
Bi-Radial Split	10.40

Materials

Material	Area (m ²)	Panels
Material 1	88.13	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\13,1\14,1\15 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\13,1b\14,1b\15 1b\16,2\1,2\2,2\3,2\4 2\5,2\6,2\7,2\8,2b\1 2b\2,2b\3,2b\4,2b\5,2b\6 2b\7,2b\8,2b\9,3\1,3\2 3\3,3\4,3\5,3\6,3b\1 3b\2,3b\3,3b\4,3b\5,3b\6 3b\7,4\1,4\2,4\3,4\4 4\5,4\6,4\7,4\8,4\9 4\10,4\11,4\12,5\1,5\2 5\3,5\4,5\5,5\6,5\7 5\8,5\9,5\10