

Mainsail: 7000218 Jan-1 Dufour Nautitech 475 Catamaran MainV1.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:	16.860m
Foot geodesic:	7.290m
Head geodesic:	0.165m
Upper width (MUW):	2.130m
Three-quarter width (MTW):	3.936m
Half width (MHW):	6.002m
Quarter width (MQW):	6.812m
Foot median:	16.104m
ORC Mainsail area:	80.743m?
Surface area:	88.149m?
Clew height:	0.449m
Mast rake:	0.450m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
88.089%	3.009m	1.847m	79.510?	13.663m	14.687m	Full
77.069%	4.713m	2.547m	69.196?	12.136m	12.849m	Full
62.532%	5.705m	2.433m	69.196?	9.863m	10.426m	Full
47.107%	6.373m	2.025m	69.196?	7.452m	7.854m	Full
31.572%	6.747m	1.394m	69.196?	5.025m	5.264m	Full
16.000%	7.009m	0.695m	69.196?	2.592m	2.668m	Full

Reefing Points

- 1, Luff: 2.279m ; Leech: 2.299m ; Offset: 0.000m ; Number Eyelets: 0
- 2, Luff: 4.716m ; Leech: 4.752m ; Offset: 0.000m ; Number Eyelets: 0
- 3, Luff: 8.649m ; Leech: 8.721m ; Offset: 0.000m ; Number Eyelets: 0

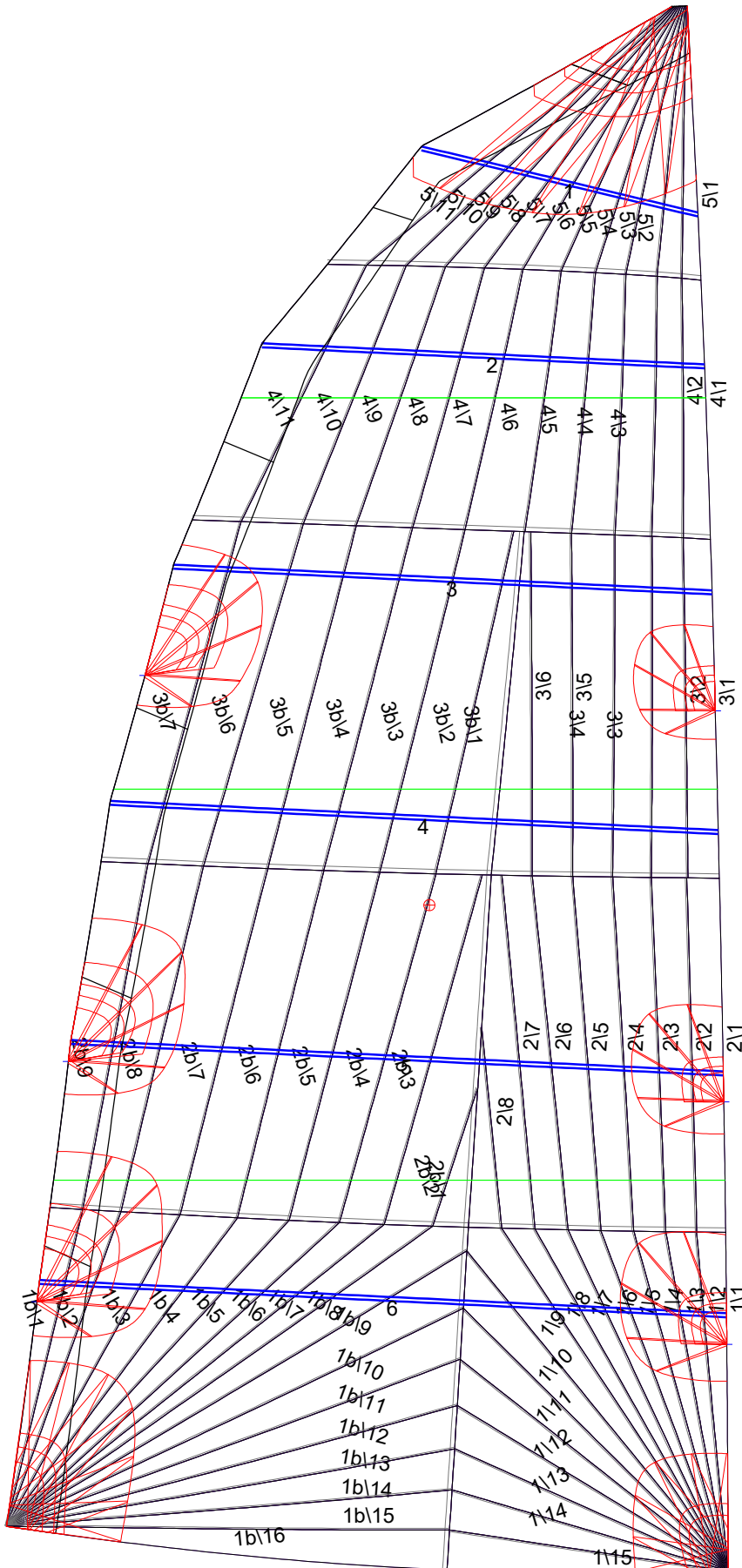
Draft Stripes

- 1, Luff: 3.929m ; Leech: 3.541m ;
- 2, Luff: 7.862m ; Leech: 7.541m ;
- 3, Luff: 11.798m ; Leech: 11.648m ;

Luff Curve

		Fanned Luff (@ 5.00% [0.363m])	Before BSeam
15.740m,	0.000m	100% (15.741m) :	0.000m
13.779m,	-0.050m	90% (14.168m) :	0.080m
11.805m,	-0.083m	80% (12.593m) :	0.167m
9.827m,	-0.095m	70% (11.019m) :	0.218m
7.870m,	-0.095m	60% (9.445m) :	0.226m
5.865m,	-0.088m	50% (7.871m) :	0.216m
3.935m,	-0.070m	40% (6.296m) :	0.188m
1.961m,	-0.040m	30% (4.722m) :	0.148m
0.000m,	0.000m	20% (3.148m) :	0.099m
		10% (1.575m) :	0.046m
		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	22.86
Radial/Vertical	267.33
Bi-Radial Split	10.87

Materials

Material	Area (m ²)	Panels
Material 1	88.27	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\11,5\1,5\2,5\3 5\4,5\5,5\6,5\7,5\8 5\9,5\10,5\11