

Mainsail: 7000218 Jan-1 Dufour Nautitech 475 Catamaran MainV2.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): 1.703m
Three-quarter width (MTW): 3.164m
Half width (MHW): 5.020m
Quarter width (MQW): 6.257m
Foot median: 16.113m
ORC Mainsail area: 71.577m?
Surface area: 75.459m?
Clew height: 0.424m
Mast rake: 0.450m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
88.089%	1.985m	0.852m	79.510?	13.661m	14.708m	Full
77.069%	3.415m	1.364m	69.196?	12.131m	12.868m	Full
62.532%	4.535m	1.374m	69.196?	9.855m	10.441m	Full
47.107%	5.321m	1.068m	69.196?	7.441m	7.865m	Full
31.572%	6.055m	0.761m	69.196?	5.010m	5.271m	Full
16.000%	6.670m	0.381m	69.196?	2.574m	2.671m	Full

Reefing Points

1, Luff: 2.122m ; Leech: 2.188m ; Offset: 0.000m ; Number Eyelets: 0
2, Luff: 4.480m ; Leech: 4.611m ; Offset: 0.000m ; Number Eyelets: 0
3, Luff: 6.840m ; Leech: 7.041m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

1, Luff: 3.930m ; Leech: 3.671m ;
2, Luff: 7.863m ; Leech: 7.793m ;
3, Luff: 11.798m ; Leech: 11.983m ;

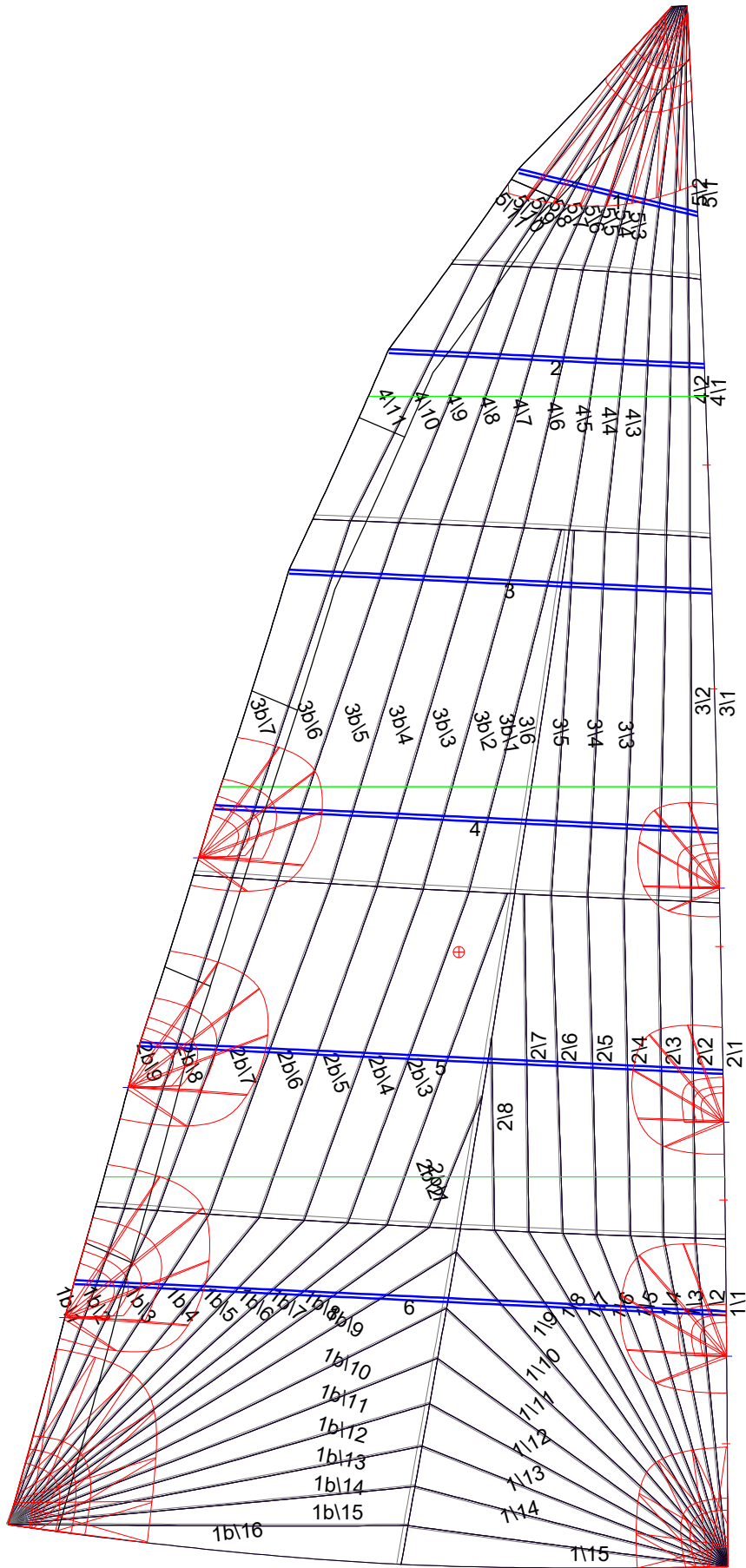
Luff Slides

1, Position: 1.239m
2, Position: 3.696m
3, Position: 6.252m
4, Position: 8.849m
5, Position: 11.107m

Luff Curve

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) :	0.070m
11.805m, -0.083m	80% (12.593m) :	0.148m
9.827m, -0.095m	70% (11.019m) :	0.197m
7.870m, -0.095m	60% (9.445m) :	0.210m
5.865m, -0.088m	50% (7.871m) :	0.202m
3.935m, -0.070m	40% (6.296m) :	0.177m
1.961m, -0.040m	30% (4.722m) :	0.141m
0.000m, 0.000m	20% (3.148m) :	0.096m
	10% (1.575m) :	0.045m
	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	18.99
Radial/Vertical	265.33
Bi-Radial Split	10.95

Materials

Material	Area (m ²)	Panels
Material 1	75.58	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