

Mainsail: 7000316 Tom-1 Square top MainsailV1.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000316 Tom\70003

Initial Design Date: 4/4/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	13.450m
Leech geodesic:	14.100m
Foot geodesic:	4.800m
Head geodesic:	1.500m
Upper width (MUW):	1.845m
Three-quarter width (MTW):	2.530m
Half width (MHW):	3.504m
Quarter width (MQW):	4.246m
Foot median:	13.719m
ORC Mainsail area:	44.867m?
Surface area:	46.327m?
Clew height:	0.245m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
100.000%	1.639m	0.000m	95.203?	12.816m	14.041m	Full
95.501%	1.400m	0.050m	83.977?	12.521m	13.409m	
91.930%	1.981m	0.089m	81.783?	12.105m	12.908m	Full
76.589%	2.675m	0.162m	81.474?	10.048m	10.754m	Full
58.628%	3.316m	0.173m	77.814?	7.828m	8.232m	Full
39.410%	3.908m	0.147m	78.088?	5.270m	5.534m	Full
19.691%	4.401m	0.090m	78.542?	2.630m	2.765m	Full

Reefing Points

- 1, Luff: 1.420m ; Leech: 1.579m ; Offset: 0.000m ; Number Eyelets: 4
- 2, Luff: 3.600m ; Leech: 3.769m ; Offset: 0.000m ; Number Eyelets: 4
- 3, Luff: 4.780m ; Leech: 4.978m ; Offset: 0.000m ; Number Eyelets: 3

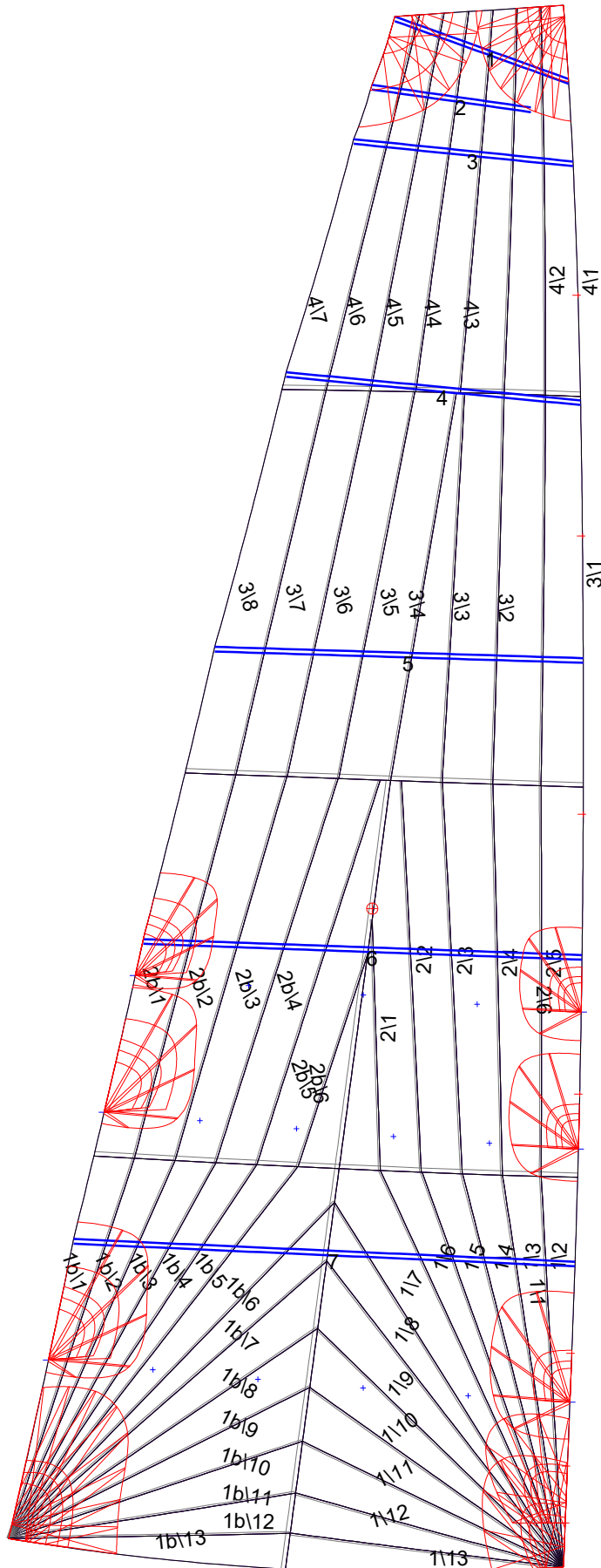
Luff Slides

- 1, Position: 0.871m
- 2, Position: 1.841m
- 3, Position: 4.073m
- 4, Position: 6.483m
- 5, Position: 8.878m
- 6, Position: 10.952m

Luff Curve

		Fanned Luff (@ 5.00% [0.239m])	Before BSeam
13.447m,	0.000m	100% (13.450m) :	0.000m
12.570m,	-0.057m	90% (12.108m) :	0.112m
11.820m,	-0.093m	80% (10.760m) :	0.185m
9.920m,	-0.149m	70% (9.416m) :	0.226m
7.680m,	-0.170m	60% (8.071m) :	0.242m
5.290m,	-0.160m	50% (6.725m) :	0.243m
2.640m,	-0.100m	40% (5.380m) :	0.227m
0.000m,	0.000m	30% (4.035m) :	0.191m
		20% (2.689m) :	0.137m
		10% (1.345m) :	0.068m
		0% (0.000m) :	0.000m

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Seam Allowances

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

Edge Excesses

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

Total Seam Lengths (m)

Horizontal	10.54
Radial/Vertical	154.06
Bi-Radial Split	7.17

Materials

Material	Area (m ²)	Panels
Material 1	46.36	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\6,2\5,2\4,2\3 2\2,2\1,2b\6,2b\5,2b\4 2b\3,2b\2,2b\1,3\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\6,4\7