

Mainsail: 7001117 Ciro Lock Crowther 42.5 Catamaran Sq top MainsailV1

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7001117 Ciro\7001

Initial Design Date: 21/11/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 13.225m
Leech geodesic: 13.942m
Foot geodesic: 4.727m
Head geodesic: 1.524m
Upper width (MUW): 1.896m
Three-quarter width (MTW): 2.663m
Half width (MHW): 3.556m
Quarter width (MQW): 4.197m
Foot median: 13.538m
ORC Mainsail area: 44.435m?
Surface area: 46.363m?
Clew height: 0.100m
Mast rake: 0.517m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
100.000%	1.819m	0.000m	107.863?	12.259m	13.847m	Full
90.748%	2.165m	0.272m	82.486?	11.798m	12.566m	Full
78.152%	2.761m	0.409m	79.505?	10.233m	10.822m	Full
64.365%	3.227m	0.405m	78.696?	8.453m	8.913m	Full
49.757%	3.646m	0.352m	78.696?	6.534m	6.890m	Full
34.062%	4.030m	0.257m	78.696?	4.472m	4.717m	Full
17.588%	4.382m	0.136m	78.696?	2.307m	2.435m	Full

Reefing Points

1, Luff: 1.613m ; Leech: 1.640m ; Offset: 0.000m ; Number Eyelets: 0
2, Luff: 3.635m ; Leech: 3.693m ; Offset: 0.000m ; Number Eyelets: 0
3, Luff: 5.949m ; Leech: 6.040m ; Offset: 0.000m ; Number Eyelets: 0

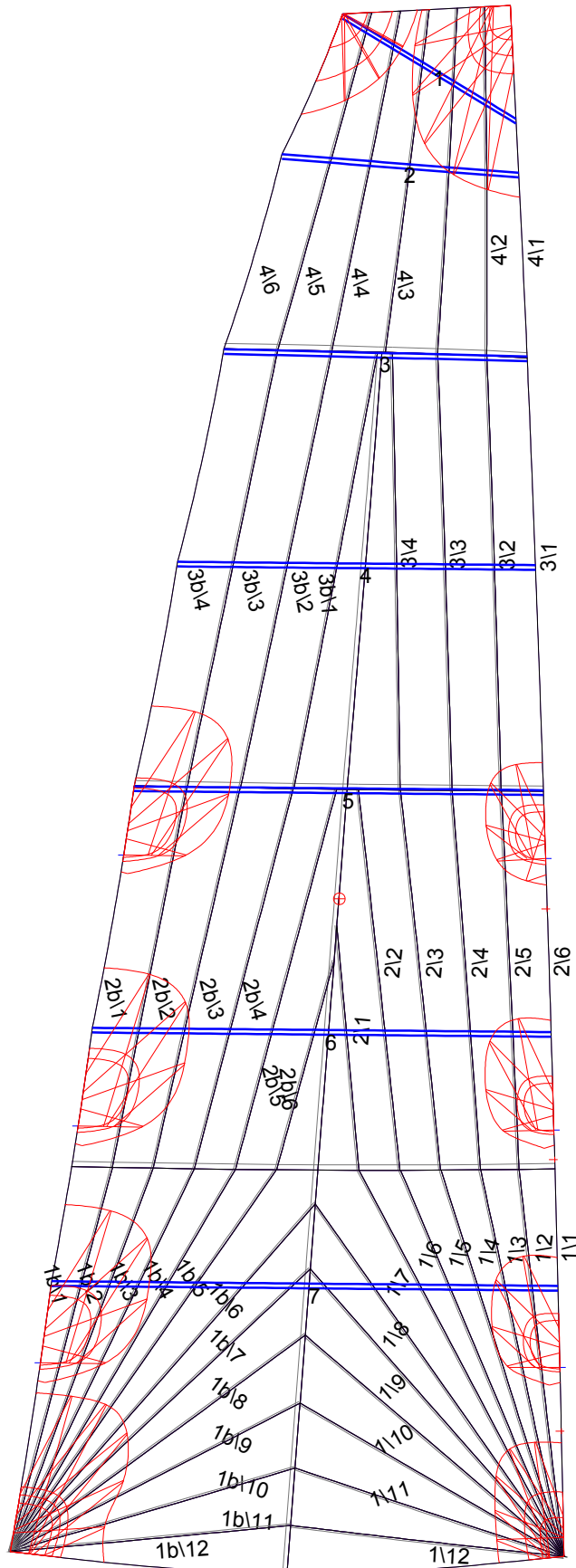
Luff Slides

1, Position: 1.069m
2, Position: 3.382m
3, Position: 5.521m

Luff Curve

		Fanned Luff (@ 5.00% [0.236m])	Before BSeam
13.225m,	0.000m	100% (13.225m) :	0.000m
11.577m,	-0.024m	90% (11.903m) :	0.012m
9.919m,	-0.042m	80% (10.580m) :	0.023m
8.256m,	-0.049m	70% (9.258m) :	0.029m
6.612m,	-0.050m	60% (7.935m) :	0.030m
4.928m,	-0.046m	50% (6.613m) :	0.029m
3.306m,	-0.037m	40% (5.290m) :	0.027m
1.648m,	-0.021m	30% (3.968m) :	0.022m
0.000m,	0.000m	20% (2.645m) :	0.015m
		10% (1.323m) :	0.007m
		0% (0.000m) :	0.000m

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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/a	0.038m	0.016m	0.045m
Zone: 3/b	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	10.62
Radial/Vertical	140.52
Bi-Radial Split	10.80

Materials

Material	Area (m ²)	Panels
Material 1	46.35	1/1,1/2,1/3,1/4,1/5 1/6,1/7,1/8,1/9,1/10 1/11,1/12,1b/1,1b/2,1b/3 1b/4,1b/5,1b/6,1b/7,1b/8 1b/9,1b/10,1b/11,1b/12,2/6 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 3b/1,3b/2,3b/3,3b/4,4/1 4/2,4/3,4/4,4/5,4/6