Mainsail: 8000112 Conor Hunter Horizon 27 fullbattmain.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confrimed\8000122 Ian\8000

Comments:

Initial Design Date: 24/1/2024
Boat:

Client:

Design Data
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Main

Measurements

Luff geodesic:	8.850m
Leech geodesic:	9.385m
Foot geodesic:	3.306m
Head geodesic:	0.115m
Upper width (MUW):	0.643m
Three-quarter width (MTW):	1.177m
Half width (MHW):	2.072m
Quarter width (MQW):	2.768m
Foot median:	9.066m
ORC Mainsail area:	17.093m?
Surface area:	17.550m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.023m	0.164m	71.626?	7.070m	7.491m	Full
60.000%	1.790m	0.227m	71.626?	5.299m	5.618m	Full
40.000%	2.406m	0.200m	71.626?	3.529m	3.746m	Full
20.000%	2.895m	0.115m	71.626?	1.760m	1.873m	Full

Reefing Points

1, Luff: 1.079m ; Leech: 1.122m ; Offset: 0.000m ; Number Eyelets: 3
2, Luff: 2.344m ; Leech: 2.437m ; Offset: 0.000m ; Number Eyelets: 3
3, Luff: 3.759m ; Leech: 3.911m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 2.919m ; Leech: 2.967m ;
2, Luff: 5.838m ; Leech: 6.058m ;

Luff Slides

1, Position: 0.880m
2, Position: 2.645m
3, Position: 4.414m
4, Position: 6.185m
5, Position: 7.960m

Luff Curve

8.848m,	0.000m
7.746m,	-0.047m
6.636m,	-0.082m
5.524m,	-0.099m
4.424m,	-0.103m
3.297m,	-0.095m
2.212m,	-0.076m
1.103m,	-0.043m
0.000m,	0.000m

Fanned Luff (@ 5.00% [0.165m])		Before BSeam
100% (8.850m) :	0.000m	0.000m
90% (7.965m) :	0.028m	0.050m
80% (7.080m) :	0.054m	0.099m
70% (6.195m) :	0.070m	0.134m
60% (5.310m) :	0.077m	0.153m
50% (4.425m) :	0.078m	0.158m
40% (3.540m) :	0.074m	0.152m
30% (2.655m) :	0.064m	0.131m
20% (1.770m) :	0.048m	0.094m
10% (0.885m) :	0.025m	0.047m
0% (0.000m) :	0.000m	0.000m

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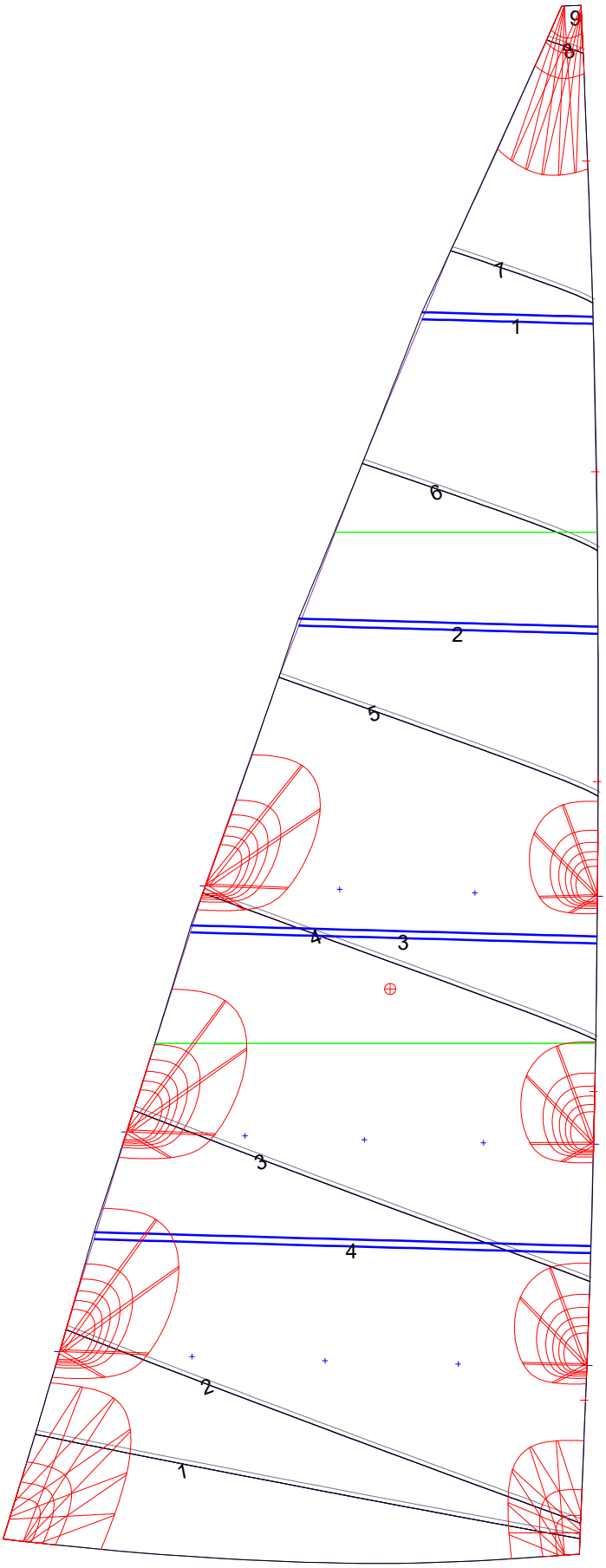

Seam Allowances

	Split	Radial	Cross
Zone: 1	0.025m	0.025m	0.025m

Edge Excesses

	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	16.31
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m?	Panels
Material 1	17.52	1,2,3,4,5 6,7,8,9