

Mainsail: 7000134 Glenn-1 North Sea 34 pilothouse MainV1.des

Design Info

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Design File:

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Initial Design Date: 9/3/2023

Boat:

Client:

Comments:

Design Data

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Main

Measurements

Luff geodesic:	36.918Ft
Leech geodesic:	37.836Ft
Foot geodesic:	9.405Ft
Head geodesic:	0.377Ft
Upper width (MUW):	2.051Ft
Three-quarter width (MTW):	3.668Ft
Half width (MHW):	6.198Ft
Quarter width (MQW):	8.017Ft
Foot median:	37.226Ft
ORC Mainsail area:	210.316Ft?
Surface area:	213.229Ft?
Clew height:	0.098Ft
Mast rake:	0.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	3.185Ft	0.759Ft	77.766?	29.515Ft	30.202Ft	Full
60.000%	5.389Ft	0.986Ft	77.766?	22.132Ft	22.652Ft	Full
40.000%	7.073Ft	0.869Ft	77.766?	14.750Ft	15.101Ft	Full
20.000%	8.351Ft	0.502Ft	77.766?	7.370Ft	7.551Ft	Full

Reefing Points

- 1, Luff: 5.536Ft ; Leech: 5.616Ft ; Offset: 0.000Ft ; Number Eyelets: 2
- 2, Luff: 11.072Ft ; Leech: 11.238Ft ; Offset: 0.000Ft ; Number Eyelets: 2

Draft Stripes

- 1, Luff: 12.179Ft ; Leech: 12.168Ft ;
- 2, Luff: 24.361Ft ; Leech: 24.668Ft ;

Luff Slides

- 1, Position: 2.419Ft
- 2, Position: 4.839Ft
- 3, Position: 9.728Ft
- 4, Position: 12.197Ft
- 5, Position: 17.137Ft
- 6, Position: 19.607Ft
- 7, Position: 24.547Ft
- 8, Position: 27.017Ft
- 9, Position: 31.965Ft
- 10, Position: 34.441Ft

Foot Slides

- 1, Position: 1.312Ft
- 2, Position: 2.668Ft
- 3, Position: 4.024Ft
- 4, Position: 5.381Ft
- 5, Position: 6.737Ft
- 6, Position: 8.093Ft

Luff Curve

36.917Ft,	0.000Ft
32.316Ft,	-0.085Ft
27.688Ft,	-0.146Ft
23.047Ft,	-0.172Ft
18.458Ft,	-0.175Ft
13.756Ft,	-0.162Ft
9.229Ft,	-0.130Ft
4.600Ft,	-0.074Ft
0.000Ft,	0.000Ft

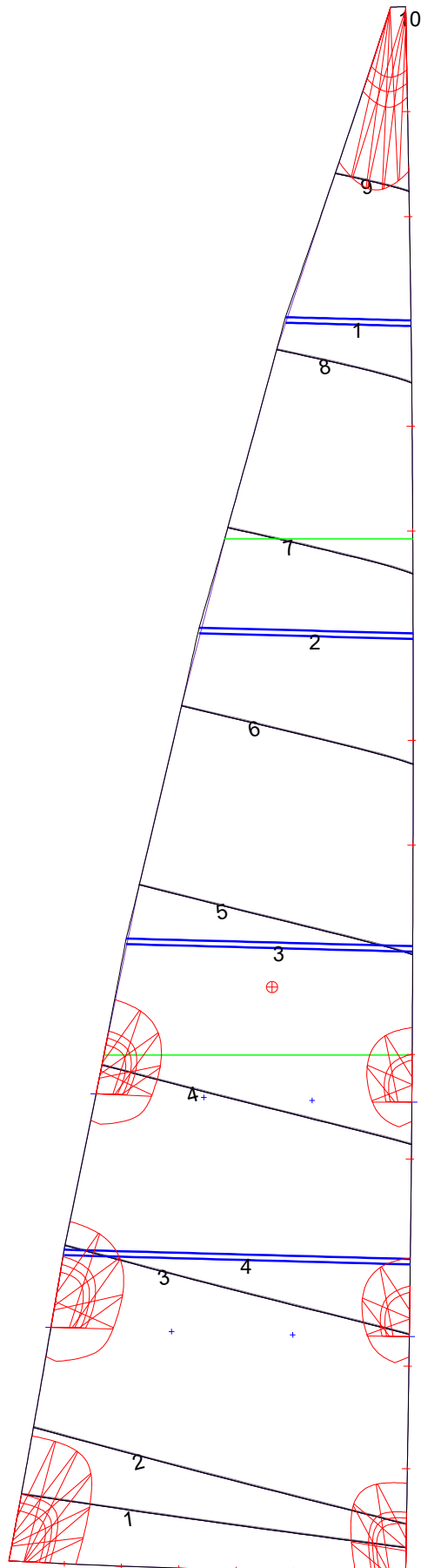
Fanned Luff (@ 5.00% [0.469Ft])

100% (36.918Ft) :	0.000Ft
90% (33.227Ft) :	0.046Ft
80% (29.534Ft) :	0.089Ft
70% (25.843Ft) :	0.112Ft
60% (22.151Ft) :	0.120Ft
50% (18.459Ft) :	0.119Ft
40% (14.767Ft) :	0.110Ft
30% (11.075Ft) :	0.095Ft
20% (7.383Ft) :	0.071Ft
10% (3.692Ft) :	0.037Ft
0% (0.000Ft) :	0.000Ft

Before BSeam

0.000Ft
0.124Ft
0.242Ft
0.326Ft
0.367Ft
0.370Ft
0.337Ft
0.273Ft
0.192Ft
0.095Ft
0.000Ft

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Seam Allowances			
	Split	Radial	Cross
Zone: 1	0.000Ft	0.000Ft	0.025Ft

Edge Excesses			
	Luff	Leech	Foot
Sail:	0.000Ft	0.000Ft	0.000Ft

Total Seam Lengths (Ft)

Horizontal	57.87
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft²)	Panels
Material 1	213.24	1,2,3,4,5 6,7,8,9,10