

Mainsail: 8001005 Manuel fullbattmain.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8001005 Manuel m

Initial Design Date: 5/11/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 12.620m
 Leech geodesic: 13.273m
 Foot geodesic: 4.450m
 Head geodesic: 0.115m
 Upper width (MUW): 0.879m
 Three-quarter width (MTW): 1.597m
 Half width (MHW): 2.776m
 Quarter width (MQW): 3.707m
 Foot median: 12.912m
 ORC Mainsail area: 32.729m?
 Surface area: 33.652m?
 Clew height: 0.100m
 Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.291m	0.308m	72.451?	10.343m	10.845m	Full
62.000%	2.312m	0.400m	72.451?	7.820m	8.200m	Full
42.000%	3.147m	0.353m	72.451?	5.297m	5.555m	Full
22.000%	3.821m	0.204m	72.451?	2.774m	2.910m	Full

Reefing Points

1, Luff: 1.539m ; Leech: 1.595m ; Offset: 0.000m ; Number Eyelets: 3
 2, Luff: 3.343m ; Leech: 3.458m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 3.154m ; Leech: 3.163m ;
 2, Luff: 6.309m ; Leech: 6.461m ;
 3, Luff: 9.463m ; Leech: 9.801m ;

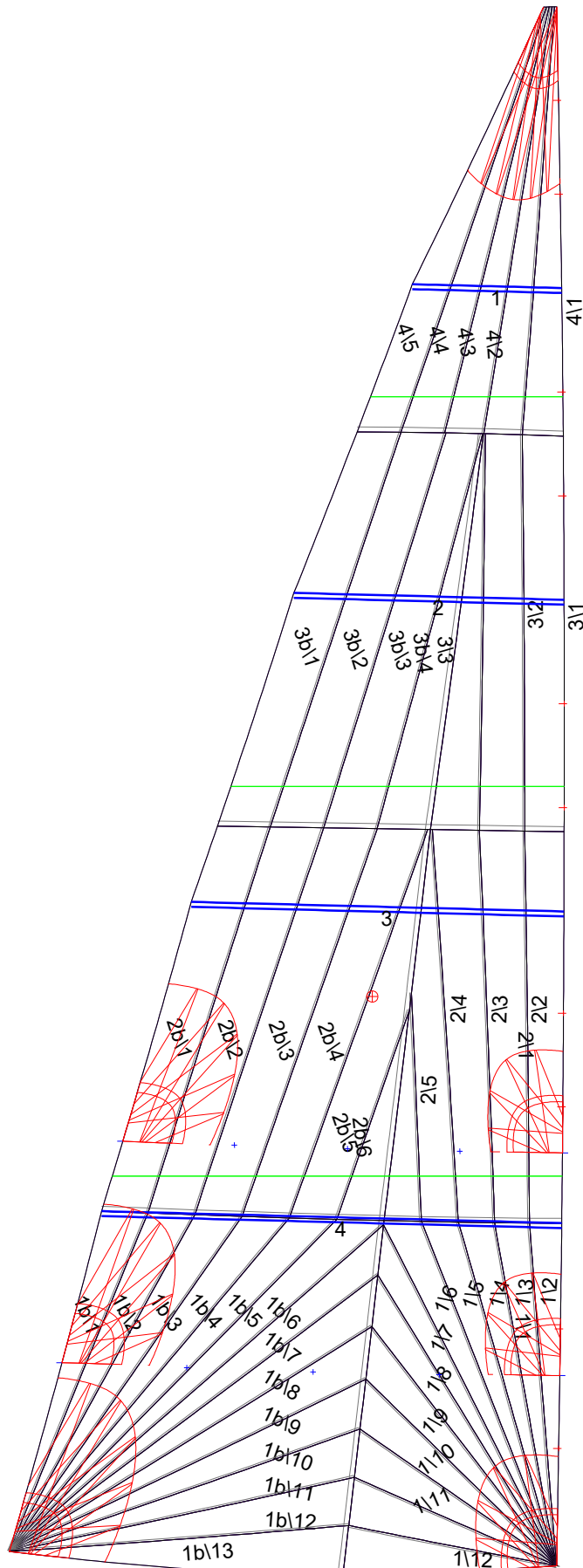
Luff Slides

1, Position: 0.949m
 2, Position: 1.918m
 3, Position: 3.715m
 4, Position: 4.473m
 5, Position: 6.138m
 6, Position: 6.979m
 7, Position: 8.661m
 8, Position: 9.502m
 9, Position: 11.102m
 10, Position: 11.861m

Luff Curve

		Fanned Luff (@ 5.00% [0.221m])	Before BSeam
12.620m,	0.000m	100% (12.620m) :	0.000m
11.047m,	-0.029m	90% (11.358m) :	0.048m
9.465m,	-0.050m	80% (10.096m) :	0.089m
7.878m,	-0.059m	70% (8.834m) :	0.118m
6.310m,	-0.060m	60% (7.572m) :	0.134m
4.702m,	-0.056m	50% (6.310m) :	0.138m
3.155m,	-0.045m	40% (5.048m) :	0.132m
1.573m,	-0.025m	30% (3.786m) :	0.114m
0.000m,	0.000m	20% (2.524m) :	0.084m
		10% (1.262m) :	0.043m
		0% (0.000m) :	0.000m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.040m	0.015m	0.040m
Zone: 1/b	0.040m	0.015m	0.040m
Zone: 2/a	0.040m	0.015m	0.040m
Zone: 2/b	0.040m	0.015m	0.040m
Zone: 3/a	0.040m	0.015m	0.040m
Zone: 3/b	0.040m	0.015m	0.040m
Zone: 4	0.040m	0.015m	0.040m

Edge Excesses

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

Total Seam Lengths (m)

Horizontal	8.53
Radial/Vertical	125.64
Bi-Radial Split	9.68

Materials

Material	Area (m ²)	Panels
Material 1	33.65	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\12,1b\13 2\1,2\2,2\3,2\4,2\5 2b\6,2b\5,2b\4,2b\3,2b\2 2b\1,3\1,3\2,3\3,3b\4 3b\3,3b\2,3b\1,4\1,4\2 4\3,4\4,4\5