

Mainsail: 8000506 Filip-1 Mallard 7 Start fullbattmain.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000506 Filip Mall

Initial Design Date: 21/5/2024
Boat:
Mallard 7 Start
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 7.108m
Leech geodesic: 7.592m
Foot geodesic: 2.770m
Head geodesic: 0.115m
Upper width (MUW): 0.545m
Three-quarter width (MTW): 0.978m
Half width (MHW): 1.707m
Quarter width (MQW): 2.300m
Foot median: 7.309m
ORC Mainsail area: 11.419m?
Surface area: 11.780m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.862m	0.158m	70.963?	5.681m	6.046m	Full
60.000%	1.477m	0.205m	70.963?	4.259m	4.534m	Full
40.000%	1.991m	0.181m	70.963?	2.838m	3.023m	Full
20.000%	2.415m	0.104m	70.963?	1.416m	1.511m	Full

Reefing Points

1, Luff: 0.938m ; Leech: 0.979m ; Offset: 0.000m ; Number Eyelets: 2
2, Luff: 1.954m ; Leech: 2.040m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 2.345m ; Leech: 2.391m ;
2, Luff: 4.690m ; Leech: 4.883m ;

Luff Slides

1, Position: 0.417m
2, Position: 0.834m
3, Position: 1.820m
4, Position: 2.364m
5, Position: 3.311m
6, Position: 3.785m
7, Position: 4.733m
8, Position: 5.207m
9, Position: 6.156m
10, Position: 6.632m

Luff Curve

		Fanned Luff (@ 5.00% [0.138m])	Before BSeam
7.108m,	0.000m	100% (7.108m) :	0.000m
6.222m,	-0.016m	90% (6.397m) :	0.029m
5.331m,	-0.028m	80% (5.686m) :	0.055m
4.437m,	-0.033m	70% (4.976m) :	0.072m
3.554m,	-0.034m	60% (4.265m) :	0.082m
2.648m,	-0.031m	50% (3.554m) :	0.084m
1.777m,	-0.025m	40% (2.843m) :	0.081m
0.886m,	-0.014m	30% (2.132m) :	0.070m
0.000m,	0.000m	20% (1.422m) :	0.051m
		10% (0.711m) :	0.026m
		0% (0.000m) :	0.000m

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Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.025m	0.013m	0.025m
Zone: 1/b	0.025m	0.013m	0.025m
Zone: 2/a	0.025m	0.013m	0.025m
Zone: 2/b	0.025m	0.013m	0.025m
Zone: 3	0.025m	0.013m	0.025m

Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	3.58
Radial/Vertical	60.45
Bi-Radial Split	4.80

Materials

Material	Area (m ²)	Panels
Material 1	11.79	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1b\1,1b\2,1b\3,1b\4,1b\5 1b\6,1b\7,1b\8,1b\9,1b\10 1b\11,2\1,2\2,2\3,2b\4 2b\3,2b\2,2b\1,3\1,3\2 3\3,3\4,3\5

