

Mainsail: 7001115 Franck-4 Beneteau First 22 MainsailV1.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7001115 Franck\70

Initial Design Date: 13/12/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	6.690m
Leech geodesic:	7.128m
Foot geodesic:	2.475m
Head geodesic:	0.115m
Upper width (MUW):	0.511m
Three-quarter width (MTW):	0.905m
Half width (MHW):	1.562m
Quarter width (MQW):	2.075m
Foot median:	6.881m
ORC Mainsail area:	9.762m?
Surface area:	10.090m?
Clew height:	0.027m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	0.741m	0.150m	71.140?	5.483m	5.827m	Full
62.000%	1.314m	0.217m	71.140?	4.145m	4.405m	Full
42.000%	1.772m	0.199m	71.140?	2.808m	2.984m	Full
22.000%	2.141m	0.121m	71.140?	1.471m	1.563m	Full

Reefing Points

1, Luff: 0.736m ; Leech: 0.763m ; Offset: 0.000m ; Number Eyelets: 3
 2, Luff: 1.639m ; Leech: 1.699m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 2.208m ; Leech: 2.270m ;
 2, Luff: 4.415m ; Leech: 4.597m ;

Luff Slides

1, Position: 0.626m
 2, Position: 2.140m
 3, Position: 3.477m
 4, Position: 4.814m
 5, Position: 6.087m

Luff Curve

		Fanned Luff (@ 5.00% [0.123m])	Before BSeam
6.690m,	0.000m	100% (6.690m) :	0.000m
5.856m,	-0.015m	90% (6.021m) :	0.010m
5.017m,	-0.026m	80% (5.352m) :	0.017m
4.176m,	-0.031m	70% (4.683m) :	0.022m
3.345m,	-0.032m	60% (4.014m) :	0.023m
2.493m,	-0.029m	50% (3.345m) :	0.023m
1.672m,	-0.024m	40% (2.676m) :	0.021m
0.834m,	-0.013m	30% (2.007m) :	0.018m
0.000m,	0.000m	20% (1.338m) :	0.013m
		10% (0.669m) :	0.006m
		0% (0.000m) :	0.000m

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Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.025m	0.015m	0.025m
Zone: 1/b	0.025m	0.015m	0.025m
Zone: 2/a	0.025m	0.015m	0.025m
Zone: 2/b	0.025m	0.015m	0.025m
Zone: 3	0.025m	0.015m	0.025m

Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	3.38
Radial/Vertical	41.62
Bi-Radial Split	4.25

Materials

Material	Area (m ²)	Panels
Material 1	10.10	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1b\1,1b\2 1b\3,1b\4,1b\5,1b\6,1b\7 1b\8,2\1,2\2,2\3,2b\1 2b\2,2b\3,3\1,3\2,3\3 3\4

