

# Mainsail: 8000411 Haakon Beneteau First 40.7 fullbattmain.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000411 Haakon E

Initial Design Date: 16/4/2024  
Boat:  
Beneteau First 40.7  
Client:

Comments:

Design Data  
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Main

Measurements

Luff geodesic:	14.503m
Leech geodesic:	15.372m
Foot geodesic:	5.346m
Head geodesic:	0.135m
Upper width (MUW):	0.955m
Three-quarter width (MTW):	1.757m
Half width (MHW):	3.172m
Quarter width (MQW):	4.356m
Foot median:	14.874m
ORC Mainsail area:	43.616m?
Surface area:	44.663m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.372m	0.201m	71.615?	11.886m	12.561m	Full
62.000%	2.583m	0.294m	71.615?	8.986m	9.497m	Full
42.000%	3.614m	0.262m	71.615?	6.087m	6.434m	Full
22.000%	4.500m	0.155m	71.615?	3.188m	3.370m	Full

Reefing Points

- 1, Luff: 1.769m ; Leech: 1.852m ; Offset: 0.000m ; Number Eyelets: 0
- 2, Luff: 3.842m ; Leech: 4.016m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

- 1, Luff: 3.625m ; Leech: 3.671m ;
- 2, Luff: 7.250m ; Leech: 7.499m ;
- 3, Luff: 10.876m ; Leech: 11.361m ;

Luff Slides

- 1, Position: 1.061m
- 2, Position: 2.122m
- 3, Position: 4.149m
- 4, Position: 5.116m
- 5, Position: 7.050m
- 6, Position: 8.017m
- 7, Position: 9.951m
- 8, Position: 10.918m
- 9, Position: 12.758m
- 10, Position: 13.630m

Luff Curve

		Fanned Luff (@ 5.00% [0.266m])	Before BSeam
14.502m,	0.000m	100% (14.503m) :	0.000m
12.695m,	-0.033m	90% (13.053m) :	0.058m
10.877m,	-0.057m	80% (11.602m) :	0.107m
9.054m,	-0.068m	70% (10.152m) :	0.142m
7.251m,	-0.069m	60% (8.702m) :	0.161m
5.404m,	-0.064m	50% (7.252m) :	0.167m
3.626m,	-0.051m	40% (5.801m) :	0.160m
1.807m,	-0.029m	30% (4.351m) :	0.139m
0.000m,	0.000m	20% (2.900m) :	0.103m
		10% (1.450m) :	0.052m
		0% (0.000m) :	0.000m

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## Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.038m	0.015m	0.045m
Zone: 1/b	0.038m	0.015m	0.045m
Zone: 2/a	0.038m	0.015m	0.045m
Zone: 2/b	0.038m	0.015m	0.045m
Zone: 3/a	0.038m	0.015m	0.045m
Zone: 3/b	0.038m	0.015m	0.045m
Zone: 4	0.038m	0.015m	0.045m

## Edge Excesses

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

## Total Seam Lengths (m)

Horizontal	9.43
Radial/Vertical	145.80
Bi-Radial Split	11.66

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	44.70	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\12,2\1 2\2,2\3,2\4,2\5,2b\1 2b\2,2b\3,2b\4,2b\5,3\1 3\2,3\3,3\4,3b\1,3b\2 3b\3,3b\4,4\1,4\2,4\3 4\4,4\5,4\6

