

# Mainsail: 8000504 Pedro-1 Beneteau 58 fullbattmain.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000504 Pedro Be

Initial Design Date: 24/5/2024  
Boat:  
Beneteau 58  
Client:

Comments:

Design Data  
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Main

Measurements

Luff geodesic:	22.810m
Leech geodesic:	23.742m
Foot geodesic:	6.702m
Head geodesic:	0.110m
Upper width (MUW):	1.264m
Three-quarter width (MTW):	2.352m
Half width (MHW):	4.189m
Quarter width (MQW):	5.617m
Foot median:	23.272m
ORC Mainsail area:	88.839m?
Surface area:	90.901m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.823m	0.391m	74.693?	18.700m	19.413m	Full
62.000%	3.454m	0.602m	74.693?	14.138m	14.678m	Full
42.000%	4.733m	0.539m	74.693?	9.577m	9.943m	Full
22.000%	5.787m	0.342m	74.693?	5.016m	5.208m	Full

Reefing Points

1, Luff: 3.307m ; Leech: 3.395m ; Offset: 0.000m ; Number Eyelets: 0  
2, Luff: 6.500m ; Leech: 6.671m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

1, Luff: 4.561m ; Leech: 4.589m ;  
2, Luff: 9.123m ; Leech: 9.294m ;  
3, Luff: 13.684m ; Leech: 14.022m ;  
4, Luff: 18.246m ; Leech: 18.807m ;

Luff Curve

		Fanned Luff (@ 5.00% [0.334m])	Before BSeam
22.809m,	0.000m	100% (22.810m) :	0.000m
19.967m,	-0.053m	90% (20.529m) :	0.080m
17.107m,	-0.090m	80% (18.248m) :	0.148m
14.240m,	-0.106m	70% (15.967m) :	0.194m
11.404m,	-0.108m	60% (13.686m) :	0.219m
8.499m,	-0.100m	50% (11.405m) :	0.225m
5.702m,	-0.080m	40% (9.124m) :	0.215m
2.842m,	-0.046m	30% (6.843m) :	0.184m
0.000m,	0.000m	20% (4.562m) :	0.135m
		10% (2.281m) :	0.071m
		0% (0.000m) :	0.000m

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## Seam Allowances

	Split	Radial	Cross
Zone: 1	0.000m	0.000m	0.045m
Zone: 2	0.000m	0.000m	0.045m
Cover 1	0.045m	0.045m	0.045m

## Edge Excesses

	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m
Cover 0	0.000m	0.000m	0.000m

## Total Seam Lengths (m)

Horizontal	72.16
Radial/Vertical	0.00
Bi-Radial Split	0.00

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	90.86	1\1,1\2,2\1,2\2,2\3 2\4,2\5,2\6,2\7,2\8 2\9,2\10,2\11,2\12,2\13 2\14,2\15,2\16,2\17

