

# Mainsail: 8000216 Pierre Beneteau Mainsail.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000216 Pierre BÉ

Initial Design Date: 29/2/2024  
Boat:

Comments:

Client:

Design Data  
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Main

Measurements

Luff geodesic: 10.692m  
 Leech geodesic: 11.314m  
 Foot geodesic: 3.861m  
 Head geodesic: 0.115m  
 Upper width (MUW): 0.763m  
 Three-quarter width (MTW): 1.396m  
 Half width (MHW): 2.428m  
 Quarter width (MQW): 3.223m  
 Foot median: 10.959m  
 ORC Mainsail area: 24.157m?  
 Surface area: 24.895m?  
 Clew height: 0.100m  
 Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.225m	0.272m	72.074?	8.549m	9.014m	Full
60.000%	2.109m	0.353m	72.074?	6.411m	6.761m	Full
40.000%	1.050m	0.303m	72.074?	4.274m	4.507m	
20.000%	0.950m	0.162m	72.074?	2.137m	2.254m	

Reefing Points

1, Luff: 1.197m ; Leech: 1.241m ; Offset: 0.000m ; Number Eyelets: 0  
 2, Luff: 2.726m ; Leech: 2.823m ; Offset: 0.000m ; Number Eyelets: 0  
 3, Luff: 4.543m ; Leech: 4.705m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

1, Luff: 3.527m ; Leech: 3.574m ;  
 2, Luff: 7.055m ; Leech: 7.288m ;

Luff Slides

1, Position: 0.711m  
 2, Position: 1.421m  
 3, Position: 2.132m  
 4, Position: 3.001m  
 5, Position: 3.640m  
 6, Position: 4.270m  
 7, Position: 4.983m  
 8, Position: 5.696m  
 9, Position: 7.121m  
 10, Position: 7.834m  
 11, Position: 9.262m  
 12, Position: 9.977m

Luff Curve

		Fanned Luff (@ 5.00% [0.192m])	Before BSeam
10.692m,	0.000m	100% (10.692m) :	0.000m
9.359m,	-0.025m	90% (9.623m) :	0.015m
8.019m,	-0.042m	80% (8.554m) :	0.027m
6.675m,	-0.050m	70% (7.485m) :	0.034m
5.346m,	-0.051m	60% (6.415m) :	0.036m
3.984m,	-0.047m	50% (5.346m) :	0.035m
2.673m,	-0.038m	40% (4.277m) :	0.032m
1.332m,	-0.021m	30% (3.208m) :	0.027m
0.000m,	0.000m	20% (2.138m) :	0.019m
		10% (1.069m) :	0.009m
		0% (0.000m) :	0.000m

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## Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.025m	0.015m	0.030m
Zone: 1/b	0.025m	0.015m	0.030m
Zone: 2/a	0.025m	0.015m	0.030m
Zone: 2/b	0.025m	0.015m	0.030m
Zone: 3/a	0.025m	0.015m	0.030m
Zone: 3/b	0.025m	0.015m	0.030m
Zone: 4	0.025m	0.015m	0.030m

## Edge Excesses

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

## Total Seam Lengths (m)

Horizontal	7.38
Radial/Vertical	85.47
Bi-Radial Split	8.06

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	24.91	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 2\1,2\2,2\3,2\4,2b\1 2b\2,2b\3,2b\4,3\1,3\2 3\3,3b\1,3b\2,3b\3,4\1 4\2,4\3,4\4,4\5

