

Mainsail: 8000223 John Hanse311 fullbattmain.des

Job Number:

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000223 John Han

Job No:
Initial Design Date: 20/2/2024
Boat:
Hanse 311
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic:	11.583m
Leech geodesic:	12.163m
Foot geodesic:	4.029m
Head geodesic:	0.127m
Upper width (MUW):	0.783m
Three-quarter width (MTW):	1.432m
Half width (MHW):	2.498m
Quarter width (MQW):	3.327m
Foot median:	11.840m
ORC Mainsail area:	27.037m ²
Surface area:	27.667m ²
Clew height:	-0.070m
Mast rake:	0.400m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.234m	0.195m	72.717?	9.261m	9.694m	Full
60.000%	2.151m	0.258m	72.717?	6.946m	7.270m	Full
40.000%	2.882m	0.229m	72.717?	4.631m	4.847m	Full
20.000%	3.486m	0.125m	72.717?	2.315m	2.423m	Full

Reefing Points

1, Luff: 1.392m ; Leech: 1.458m ; Offset: 0.000m ; Number Eyelets: 3
 2, Luff: 2.983m ; Leech: 3.114m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 3.820m ; Leech: 3.981m ;
 2, Luff: 7.642m ; Leech: 7.964m ;

Luff Slides

1, Position: 1.158m
 2, Position: 3.473m
 3, Position: 5.788m
 4, Position: 8.103m
 5, Position: 10.422m

Luff Curve

		Fanned Luff (@ 5.00% [0.201m])	Before BSeam
11.582m,	0.000m	100% (11.583m) :	0.000m
10.412m,	-0.042m	90% (10.425m) :	0.065m
9.265m,	-0.072m	80% (9.266m) :	0.124m
8.096m,	-0.091m	70% (8.108m) :	0.162m
6.949m,	-0.100m	60% (6.950m) :	0.177m
5.234m,	-0.096m	50% (5.791m) :	0.172m
3.474m,	-0.076m	40% (4.633m) :	0.153m
1.839m,	-0.046m	30% (3.475m) :	0.124m
0.000m,	0.000m	20% (2.316m) :	0.087m
		10% (1.158m) :	0.043m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.035m	0.035m	0.035m

Edge Excesses			
Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	24.39
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	27.67	1,2,3,4,5 6,7,8,9,10 11

