

Mainsail: 8000116 Johannes Wharram 42 Fullbatt Main.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000116 Johannes

Initial Design Date: 17/1/2024
Boat:

Comments:
tack angle 85degree

Client:

Design Data
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Main

Measurements

Luff geodesic: 10.890m
 Leech geodesic: 11.365m
 Foot geodesic: 4.207m
 Head geodesic: 0.115m
 Upper width (MUW): 0.743m
 Three-quarter width (MTW): 1.365m
 Half width (MHW): 2.462m
 Quarter width (MQW): 3.409m
 Foot median: 11.070m
 ORC Mainsail area: 25.586m?
 Surface area: 26.207m?
 Clew height: 0.100m
 Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.174m	0.162m	73.964?	8.698m	9.058m	Full
60.000%	2.091m	0.210m	73.964?	6.520m	6.793m	Full
40.000%	2.893m	0.185m	73.964?	4.343m	4.529m	Full
20.000%	3.602m	0.107m	73.964?	2.168m	2.264m	Full

Reefing Points

1, Luff: 1.327m ; Leech: 1.371m ; Offset: 0.000m ; Number Eyelets: 3
 2, Luff: 2.883m ; Leech: 2.975m ; Offset: 0.000m ; Number Eyelets: 3
 3, Luff: 4.624m ; Leech: 4.770m ; Offset: 0.000m ; Number Eyelets: 2

Luff Slides

1, Position: 1.084m
 2, Position: 3.256m
 3, Position: 5.432m
 4, Position: 7.609m
 5, Position: 9.794m

Luff Curve

		Fanned Luff (@ 5.00% [0.209m])	Before BSeam
10.890m,	0.000m	100% (10.890m) :	0.000m
9.533m,	-0.025m	90% (9.802m) :	0.016m
8.167m,	-0.043m	80% (8.712m) :	0.029m
6.798m,	-0.051m	70% (7.623m) :	0.036m
5.445m,	-0.052m	60% (6.534m) :	0.038m
4.058m,	-0.048m	50% (5.445m) :	0.038m
2.722m,	-0.038m	40% (4.356m) :	0.036m
1.357m,	-0.022m	30% (3.267m) :	0.030m
0.000m,	0.000m	20% (2.178m) :	0.022m
		10% (1.089m) :	0.010m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.040m	0.040m	0.040m

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

Total Seam Lengths (m)

Horizontal	23.15
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	26.19	1,2,3,4,5 6,7,8,9,10

