

Mainsail: 80000718 Frank Prout Quasar IMFurlingmain.des

Design Info =====

Initial Design Date: 17/8/2024
Boat:
Prout Quasar
Client:

Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\80000718 Frank P

Comments:
tack angle 86 deg

Design Data =====

Main

Measurements

Luff geodesic: 15.100m
Leech geodesic: 15.631m
Foot geodesic: 4.360m
Head geodesic: 0.035m
Upper width (MUW): 0.492m
Three-quarter width (MTW): 0.960m
Half width (MHW): 2.037m
Quarter width (MQW): 3.178m
Foot median: 15.251m
ORC Mainsail area: 31.598m?
Surface area: 31.511m?
Clew height: 0.100m
Mast rake: 0.000m

Luff Curve

15.100m, 0.000m
13.218m, -0.017m
11.325m, -0.029m
9.427m, -0.035m
7.550m, -0.036m
5.626m, -0.034m
3.775m, -0.027m
1.882m, -0.015m
0.000m, 0.000m

Fanned Luff (@ 5.00% [0.217m])

100% (15.100m) : 0.000m
90% (13.590m) : 0.011m
80% (12.080m) : 0.020m
70% (10.570m) : 0.027m
60% (9.060m) : 0.029m
50% (7.550m) : 0.028m
40% (6.040m) : 0.026m
30% (4.530m) : 0.021m
20% (3.020m) : 0.014m
10% (1.510m) : 0.007m
0% (0.000m) : 0.000m

Before BSeam

-0.000m
0.027m
0.052m
0.073m
0.088m
0.095m
0.093m
0.082m
0.061m
0.031m
0.000m

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Seam Allowances

	Split	Radial	Cross
Zone: 1	0.035m	0.035m	0.035m
Cover 1	0.025m	0.025m	0.025m
Cover 2	0.025m	0.025m	0.025m

Edge Excesses

	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m
Cover 0	0.000m	0.070m	0.070m
Cover 1	0.000m	0.070m	0.070m

Total Seam Lengths (m)

Horizontal	27.72
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	31.54	1,2,3,4,5 6,7,8,9,10 11,12,13

