

# Mainsail: 7001120 Darren MainsailV1.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7001120 Darren\7001120 Darren

Initial Design Date: 22/11/2023  
Boat:

Comments:

Client:

Design Data  
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Main

## Measurements

Luff geodesic: 11.500m  
Leech geodesic: 12.130m  
Foot geodesic: 4.000m  
Head geodesic: 1.350m  
Upper width (MUW): 1.639m  
Three-quarter width (MTW): 2.284m  
Half width (MHW): 3.064m  
Quarter width (MQW): 3.599m  
Foot median: 11.771m  
ORC Mainsail area: 33.151m?  
Surface area: 34.579m?  
Clew height: 0.100m  
Mast rake: 0.000m

## Battens

Position	Length	Roach	Angle	Luff	Leech	Full
100.000%	1.577m	0.000m	106.351?	10.710m	12.077m	Full
89.026%	1.928m	0.216m	79.738?	10.145m	10.752m	Full
75.777%	2.450m	0.329m	78.407?	8.666m	9.152m	Full
59.235%	2.911m	0.326m	78.407?	6.773m	7.154m	Full
40.556%	3.353m	0.282m	78.407?	4.635m	4.898m	Full
20.762%	3.692m	0.151m	78.407?	2.370m	2.507m	Full

## Reefing Points

1, Luff: 1.495m ; Leech: 1.514m ; Offset: 0.000m ; Number Eyelets: 0  
2, Luff: 3.162m ; Leech: 3.202m ; Offset: 0.000m ; Number Eyelets: 0  
3, Luff: 5.174m ; Leech: 5.242m ; Offset: 0.000m ; Number Eyelets: 0

## Draft Stripes

1, Luff: 2.874m ; Leech: 2.820m ;  
2, Luff: 5.749m ; Leech: 5.750m ;  
3, Luff: 8.566m ; Leech: 8.636m ;

## Luff Slides

1, Position: 1.268m  
2, Position: 3.689m  
3, Position: 5.864m  
4, Position: 7.769m  
5, Position: 9.408m

## Luff Curve

		Fanned Luff (@ 5.00% [0.199m])	Before BSeam
11.500m,	0.000m	100% (11.500m) :	0.000m
10.067m,	-0.027m	90% (10.350m) :	0.015m
8.625m,	-0.046m	80% (9.200m) :	0.029m
7.179m,	-0.054m	70% (8.050m) :	0.037m
5.750m,	-0.055m	60% (6.900m) :	0.040m
4.285m,	-0.051m	50% (5.750m) :	0.040m
2.875m,	-0.040m	40% (4.600m) :	0.037m
1.433m,	-0.023m	30% (3.450m) :	0.032m
0.000m,	0.000m	20% (2.300m) :	0.023m
		10% (1.150m) :	0.012m
		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	28.76
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	34.55	1,2,3,4,5 6,7,8,9,10

