

Mainsail: 8000823 Diana-1 Ross 830 Mainsail.des

Design Info
=====

Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000823 Diana Ross

Initial Design Date: 20/9/2024
Boat:
Ross 830
Client:

Comments:

Design Data
=====

Main

Measurements

Luff geodesic: 8.762m
Leech geodesic: 9.437m
Foot geodesic: 3.762m
Head geodesic: 0.115m
Upper width (MUW): 0.687m
Three-quarter width (MTW): 1.267m
Half width (MHW): 2.297m
Quarter width (MQW): 3.120m
Foot median: 9.054m
ORC Mainsail area: 18.880m?
Surface area: 19.526m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.097m	0.258m	68.104?	7.009m	7.515m	Full
60.000%	1.976m	0.336m	68.104?	5.256m	5.636m	Full
40.000%	1.000m	0.296m	68.104?	3.504m	3.758m	
20.000%	0.850m	0.171m	68.104?	1.752m	1.879m	

Reefing Points

1, Luff: 1.069m ; Leech: 1.126m ; Offset: 0.000m ; Number Eyelets: 3
2, Luff: 2.234m ; Leech: 2.352m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 2.891m ; Leech: 2.969m ;
2, Luff: 5.782m ; Leech: 6.091m ;

Luff Slides

1, Position: 0.746m
2, Position: 1.492m
3, Position: 2.143m
4, Position: 2.920m
5, Position: 3.681m
6, Position: 4.444m
7, Position: 6.132m
8, Position: 7.885m

Luff Curve

		Fanned Luff (@ 5.00% [0.187m])	Before BSeam
8.762m,	0.000m	100% (8.762m) :	0.000m
7.670m,	-0.020m	90% (7.886m) :	0.012m
6.571m,	-0.035m	80% (7.010m) :	0.022m
5.470m,	-0.041m	70% (6.133m) :	0.028m
4.381m,	-0.042m	60% (5.257m) :	0.029m
3.265m,	-0.039m	50% (4.381m) :	0.028m
2.190m,	-0.031m	40% (3.505m) :	0.026m
1.092m,	-0.017m	30% (2.629m) :	0.022m
0.000m,	0.000m	20% (1.752m) :	0.015m
		10% (0.876m) :	0.007m
		0% (0.000m) :	0.000m

Mainsail: 8000823 Diana-1 Ross 830 Mainsail.des

Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.000m	0.000m	0.025m

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

Total Seam Lengths (m)

Horizontal	17.37
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	19.51	1,2,3,4,5 6,7,8

