

Mainsail: 8000205 Matthew Young Sun 43 MizzenV1.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000205 Matthew

Initial Design Date: 21/2/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	9.850m
Leech geodesic:	10.373m
Foot geodesic:	3.405m
Head geodesic:	0.115m
Upper width (MUW):	0.685m
Three-quarter width (MTW):	1.234m
Half width (MHW):	2.148m
Quarter width (MQW):	2.858m
Foot median:	10.077m
ORC Mainsail area:	19.711m?
Surface area:	20.243m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	0.600m	0.215m	72.920?	8.072m	8.473m	
62.000%	0.850m	0.305m	72.920?	6.103m	6.407m	
42.000%	0.850m	0.274m	72.920?	4.134m	4.340m	
22.000%	0.850m	0.169m	72.920?	2.165m	2.273m	

Reefing Points

- 1, Luff: 1.329m ; Leech: 1.372m ; Offset: 0.000m ; Number Eyelets: 2
- 2, Luff: 2.708m ; Leech: 2.794m ; Offset: 0.000m ; Number Eyelets: 2

Luff Slides

- 1, Position: 1.083m
- 2, Position: 2.165m
- 3, Position: 3.149m
- 4, Position: 4.134m
- 5, Position: 5.118m
- 6, Position: 6.103m
- 7, Position: 7.087m
- 8, Position: 8.072m
- 9, Position: 8.961m

Luff Curve

		Fanned Luff (@ 5.00% [0.170m])	Before BSeam
9.850m,	0.000m	100% (9.850m) :	0.000m
8.622m,	-0.023m	90% (8.865m) :	0.014m
7.387m,	-0.039m	80% (7.880m) :	0.025m
6.149m,	-0.046m	70% (6.895m) :	0.031m
4.925m,	-0.047m	60% (5.910m) :	0.033m
3.670m,	-0.043m	50% (4.925m) :	0.032m
2.462m,	-0.035m	40% (3.940m) :	0.030m
1.227m,	-0.020m	30% (2.955m) :	0.025m
0.000m,	0.000m	20% (1.970m) :	0.018m
		10% (0.985m) :	0.008m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.030m	0.030m	0.030m

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

Total Seam Lengths (m)

Horizontal	18.27
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	20.23	1,2,3,4,5 6,7,8,9

