

Mainsail: 8000227 Eric Hunter 30 Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000227 Eric Hunter

Initial Design Date: 28/2/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 10.284m
 Leech geodesic: 10.635m
 Foot geodesic: 2.918m
 Head geodesic: 0.115m
 Upper width (MUW): 0.608m
 Three-quarter width (MTW): 1.083m
 Half width (MHW): 1.849m
 Quarter width (MQW): 2.457m
 Foot median: 10.388m
 ORC Mainsail area: 17.764m?
 Surface area: 18.055m?
 Clew height: 0.100m
 Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.943m	0.200m	76.166?	8.222m	8.491m	Full
60.000%	1.598m	0.260m	76.166?	6.166m	6.369m	Full
40.000%	2.135m	0.230m	76.166?	4.110m	4.246m	Full
20.000%	2.570m	0.133m	76.166?	2.055m	2.123m	Full

Reefing Points

1, Luff: 1.254m ; Leech: 1.278m ; Offset: 0.000m ; Number Eyelets: 2
 2, Luff: 2.724m ; Leech: 2.777m ; Offset: 0.000m ; Number Eyelets: 2
 3, Luff: 4.370m ; Leech: 4.457m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 3.393m ; Leech: 3.399m ;
 2, Luff: 6.786m ; Leech: 6.904m ;

Luff Slides

1, Position: 1.027m
 2, Position: 3.083m
 3, Position: 5.138m
 4, Position: 7.194m
 5, Position: 9.253m

Foot Slides

1, Position: 0.400m
 2, Position: 0.917m
 3, Position: 1.434m
 4, Position: 1.951m
 5, Position: 2.468m

Luff Curve

		Fanned Luff (@ 5.00% [0.146m])	Before BSeam
10.284m,	0.000m	100% (10.284m) :	0.000m
9.002m,	-0.024m	90% (9.256m) :	0.015m
7.713m,	-0.041m	80% (8.227m) :	0.028m
6.420m,	-0.048m	70% (7.199m) :	0.034m
5.142m,	-0.049m	60% (6.170m) :	0.037m
3.832m,	-0.045m	50% (5.142m) :	0.037m
2.571m,	-0.036m	40% (4.114m) :	0.035m
1.281m,	-0.021m	30% (3.085m) :	0.030m
0.000m,	0.000m	20% (2.057m) :	0.021m
		10% (1.028m) :	0.011m
		0% (0.000m) :	0.000m

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

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

Total Seam Lengths (m)

Horizontal	16.76
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	18.04	1,2,3,4,5 6,7,8,9,10

