

Mainsail: 8000523 Tom Hunter Legend 40.5 MainsailV1.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000523 Tom Hunter

Initial Design Date: 21/6/2024
Boat:
Hunter Legend 40.5
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 15.590m
Leech geodesic: 16.307m
Foot geodesic: 4.950m
Head geodesic: 0.177m
Upper width (MUW): 0.863m
Three-quarter width (MTW): 1.576m
Half width (MHW): 2.820m
Quarter width (MQW): 3.938m
Foot median: 15.913m
ORC Mainsail area: 42.439m?
Surface area: 43.068m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
83.333%	1.117m	0.058m	72.786?	13.005m	13.558m	Full
66.667%	2.071m	0.148m	72.786?	10.424m	10.846m	Full
50.000%	2.833m	0.087m	72.786?	7.842m	8.135m	Full
33.333%	3.581m	0.047m	72.786?	5.261m	5.423m	Full
16.667%	4.290m	0.019m	72.786?	2.679m	2.712m	Full

Reefing Points

1, Luff: 1.902m ; Leech: 1.987m ; Offset: 0.000m ; Number Eyelets: 4
2, Luff: 4.131m ; Leech: 4.309m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 3.897m ; Leech: 3.996m ;
2, Luff: 7.638m ; Leech: 7.898m ;
3, Luff: 11.691m ; Leech: 12.132m ;

Luff Slides

1, Position: 0.890m
2, Position: 1.649m
3, Position: 3.531m
4, Position: 4.562m
5, Position: 6.114m
6, Position: 6.976m
7, Position: 8.698m
8, Position: 9.559m
9, Position: 11.282m
10, Position: 12.143m
11, Position: 13.866m
12, Position: 14.728m

Luff Curve

		Fanned Luff (@ 5.00% [0.247m])	Before BSeam
15.589m,	0.000m	100% (15.590m) :	0.000m
13.647m,	-0.042m	90% (14.031m) :	0.058m
11.692m,	-0.071m	80% (12.472m) :	0.108m
9.732m,	-0.084m	70% (10.913m) :	0.144m
7.794m,	-0.086m	60% (9.354m) :	0.163m
5.809m,	-0.079m	50% (7.795m) :	0.168m
3.897m,	-0.063m	40% (6.236m) :	0.163m
1.943m,	-0.036m	30% (4.677m) :	0.142m
0.000m,	0.000m	20% (3.118m) :	0.106m
		10% (1.559m) :	0.055m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.080m	0.080m	0.080m

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

Total Seam Lengths (m)

Horizontal	12.20
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	42.99	1,2,3,4,5

