

Mainsail: 8000119 David Hobie 16 SuperR MainV1.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000119 David\8000119 David

Initial Design Date: 29/6/2018
Boat:
Hobie 18 SX SuperR
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 7.290m
Leech geodesic: 7.462m
Foot geodesic: 2.719m
Head geodesic: 0.898m
Upper width (MUW): 1.062m
Three-quarter width (MTW): 1.549m
Half width (MHW): 2.148m
Quarter width (MQW): 2.502m
Foot median: 7.278m
ORC Mainsail area: 14.442m?
Surface area: 14.930m?
Clew height: 0.241m
Mast rake: 0.300m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
100.000%	1.171m	0.000m	113.783?	6.551m	7.430m	Full
88.000%	1.386m	0.210m	83.189?	6.287m	6.539m	Full
71.000%	1.835m	0.296m	83.156?	5.070m	5.276m	Full
53.000%	2.175m	0.285m	82.853?	3.793m	3.938m	Full
35.000%	2.424m	0.217m	82.905?	2.506m	2.601m	Full
17.000%	2.605m	0.118m	82.961?	1.221m	1.263m	Full

Reefing Points

1, Luff: 0.886m ; Leech: 0.883m ; Offset: 0.000m ; Number Eyelets: 0

Luff Curve

		Fanned Luff (@ 5.00% [0.134m])	Before BSeam
7.289m,	0.000m	100% (7.290m) :	0.000m -0.000m
5.467m,	-0.049m	90% (6.562m) :	0.014m 0.032m
3.645m,	-0.066m	80% (5.832m) :	0.028m 0.064m
1.822m,	-0.049m	70% (5.103m) :	0.039m 0.092m
0.000m,	0.000m	60% (4.374m) :	0.045m 0.108m
		50% (3.645m) :	0.046m 0.114m
		40% (2.916m) :	0.044m 0.110m
		30% (2.187m) :	0.038m 0.097m
		20% (1.458m) :	0.027m 0.073m
		10% (0.730m) :	0.013m 0.039m
		0% (0.000m) :	0.000m 0.000m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.025m	0.015m	0.025m
Zone: 2	0.025m	0.015m	0.025m
Zone: 3	0.025m	0.015m	0.025m

Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	4.26
Radial/Vertical	44.73
Bi-Radial Split	2.54

Materials

Material	Area (m ²)	Panels
red	2.03	1bb\1,2\3,3\3
dark blue	2.17	1\1,2\1,3\1
white	10.73	1b\1,1bbb\1,1bbb\2,1bbb\3,1bbb\4, 1bbb\5,1bbb\6,1bbb\7,2\2,2\4, 2\5,2\6,3\2,3\4,3\5, 3\6,3\7

