

Mainsail: 8000319 Cresswell Canadian Sailcraft 30 stdmainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000319 Cresswell

Initial Design Date: 22/3/2024
Boat:
Canadian Sailcraft 30
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 10.800m
Leech geodesic: 11.180m
Foot geodesic: 3.290m
Head geodesic: 0.135m
Upper width (MUW): 0.698m
Three-quarter width (MTW): 1.236m
Half width (MHW): 2.118m
Quarter width (MQW): 2.788m
Foot median: 10.969m
ORC Mainsail area: 21.221m?
Surface area: 21.713m?
Clew height: 0.149m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	0.630m	0.224m	75.450?	8.856m	9.137m	
62.000%	0.900m	0.319m	75.450?	6.705m	6.909m	
42.000%	0.900m	0.286m	75.450?	4.555m	4.680m	
22.000%	0.800m	0.177m	75.450?	2.404m	2.452m	

Reefing Points

1, Luff: 1.317m ; Leech: 1.342m ; Offset: 0.000m ; Number Eyelets: 2
2, Luff: 2.860m ; Leech: 2.914m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 3.562m ; Leech: 3.513m ;
2, Luff: 7.126m ; Leech: 7.209m ;

Luff Slides

1, Position: 0.801m
2, Position: 1.624m
3, Position: 2.404m
4, Position: 3.202m
5, Position: 3.889m
6, Position: 4.555m
7, Position: 5.272m
8, Position: 5.988m
9, Position: 6.705m
10, Position: 7.422m
11, Position: 8.139m
12, Position: 8.856m
13, Position: 9.504m
14, Position: 10.152m

Luff Curve

		Fanned Luff (@ 5.00% [0.164m])	Before BSeam
10.800m,	0.000m	100% (10.800m) :	0.000m
9.454m,	-0.025m	90% (9.720m) :	0.015m
8.100m,	-0.043m	80% (8.640m) :	0.027m
6.742m,	-0.050m	70% (7.560m) :	0.034m
5.400m,	-0.051m	60% (6.480m) :	0.036m
4.024m,	-0.048m	50% (5.400m) :	0.033m
2.700m,	-0.038m	40% (4.320m) :	0.028m
1.346m,	-0.022m	30% (3.240m) :	0.020m
0.000m,	0.000m	20% (2.160m) :	0.010m
		10% (1.080m) :	0.000m
		0% (0.000m) :	0.000m

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

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

Total Seam Lengths (m)

Horizontal	19.69
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	21.71	1,2,3,4,5 6,7,8,9,10

