

Mainsail: 8000412 Bruce-1 Cal 28-2 Hunt mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000412 Bruce Ca

Initial Design Date: 19/4/2024
Boat:
Cal 28-2 Hunt
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 33.661Ft
Leech geodesic: 34.883Ft
Foot geodesic: 9.731Ft
Head geodesic: 0.338Ft
Upper width (MUW): 2.015Ft
Three-quarter width (MTW): 3.600Ft
Half width (MHW): 6.202Ft
Quarter width (MQW): 8.198Ft
Foot median: 34.231Ft
ORC Mainsail area: 194.021Ft?
Surface area: 198.296Ft?
Clew height: 0.328Ft
Mast rake: 0.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	2.871Ft	0.614Ft	75.900?	27.584Ft	28.523Ft	Full
62.000%	5.171Ft	0.873Ft	75.900?	20.851Ft	21.566Ft	Full
42.000%	6.973Ft	0.767Ft	75.900?	14.120Ft	14.609Ft	Full
22.000%	8.435Ft	0.467Ft	75.900?	7.390Ft	7.653Ft	Full

Reefing Points

1, Luff: 4.105Ft ; Leech: 4.197Ft ; Offset: 0.000Ft ; Number Eyelets: 2
2, Luff: 8.917Ft ; Leech: 9.111Ft ; Offset: 0.000Ft ; Number Eyelets: 2

Draft Stripes

1, Luff: 11.105Ft ; Leech: 11.152Ft ;
2, Luff: 22.212Ft ; Leech: 22.636Ft ;

Luff Slides

1, Position: 3.695Ft
2, Position: 10.755Ft
3, Position: 17.485Ft
4, Position: 24.217Ft
5, Position: 30.623Ft

Luff Curve

		Fanned Luff (@ 5.00% [0.485Ft])	Before BSeam
33.660Ft,	0.000Ft	100% (33.661Ft) :	0.000Ft
29.465Ft,	-0.090Ft	90% (30.296Ft) :	0.133Ft
25.245Ft,	-0.154Ft	80% (26.929Ft) :	0.246Ft
21.014Ft,	-0.182Ft	70% (23.563Ft) :	0.321Ft
16.829Ft,	-0.185Ft	60% (20.197Ft) :	0.361Ft
12.542Ft,	-0.171Ft	50% (16.831Ft) :	0.368Ft
8.415Ft,	-0.137Ft	40% (13.464Ft) :	0.348Ft
4.194Ft,	-0.078Ft	30% (10.098Ft) :	0.297Ft
0.000Ft,	0.000Ft	20% (6.732Ft) :	0.218Ft
		10% (3.366Ft) :	0.110Ft
		0% (0.000Ft) :	0.000Ft

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.082Ft	0.082Ft	0.082Ft

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

Total Seam Lengths (Ft)

Horizontal	55.86
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
Material 1	198.31	1,2,3,4,5 6,7,8,9,10

