

Mainsail: 7001128 Dave MainsailV1.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7001128 Dave\7001128 Dave MainsailV1.des

Initial Design Date: 2/12/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	11.520m
Leech geodesic:	12.164m
Foot geodesic:	4.090m
Head geodesic:	0.133m
Upper width (MUW):	0.812m
Three-quarter width (MTW):	1.474m
Half width (MHW):	2.573m
Quarter width (MQW):	3.419m
Foot median:	11.681m
ORC Mainsail area:	27.593m ²
Surface area:	28.063m ²
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.176m	0.220m	72.434°	9.438m	9.935m	Full
62.000%	2.145m	0.332m	72.434°	7.135m	7.512m	Full
42.000%	1.200m	0.303m	72.434°	4.833m	5.089m	
22.000%	1.200m	0.184m	72.434°	2.532m	2.666m	

Reefing Points

1, Luff: 1.816m ; Leech: 1.880m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

1, Luff: 3.800m ; Leech: 3.852m ;
2, Luff: 7.601m ; Leech: 7.851m ;

Luff Slides

1, Position: 0.844m
2, Position: 1.688m
3, Position: 2.532m
4, Position: 3.299m
5, Position: 4.066m
6, Position: 4.833m
7, Position: 5.601m
8, Position: 6.368m
9, Position: 7.903m
10, Position: 8.670m
11, Position: 10.132m
12, Position: 10.826m

Luff Curve

		Fanned Luff (@ 5.00% [0.204m])	Before BSeam
11.519m,	0.000m	100% (11.520m) :	0.000m
10.083m,	-0.055m	90% (10.369m) :	0.062m
8.639m,	-0.085m	80% (9.216m) :	0.116m
7.191m,	-0.092m	70% (8.064m) :	0.147m
5.759m,	-0.090m	60% (6.912m) :	0.158m
4.292m,	-0.079m	50% (5.760m) :	0.158m
2.880m,	-0.060m	40% (4.608m) :	0.146m
1.435m,	-0.032m	30% (3.456m) :	0.120m
0.000m,	0.000m	20% (2.304m) :	0.086m
		10% (1.152m) :	0.045m
		0% (0.000m) :	0.000m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.032m	0.016m	0.040m
Zone: 1/b	0.032m	0.016m	0.040m
Zone: 2/a	0.032m	0.016m	0.040m
Zone: 2/b	0.032m	0.016m	0.040m
Zone: 3	0.032m	0.016m	0.040m

Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	5.32
Radial/Vertical	118.85
Bi-Radial Split	7.81

Materials

Material	Area (m ²)	Panels
Material 1	28.06	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1\11,1\12,1b\1,1b\2,1b\3 1b\4,1b\5,1b\6,1b\7,1b\8 1b\9,1b\10,1b\11,1b\12,2\1 2\2,2\3,2\4,2\5,2b\1 2b\2,2b\3,2b\4,2b\5,3\1 3\2,3\3,3\4,3\5,3\6

