

Mainsail: 7000522 Dan-1 Membrane MainsailV1.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000522 Dan\7000522

Initial Design Date: 30/5/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 48.400Ft
 Leech geodesic: 50.394Ft
 Foot geodesic: 15.289Ft
 Head geodesic: 0.377Ft
 Upper width (MUW): 3.084Ft
 Three-quarter width (MTW): 5.625Ft
 Half width (MHW): 9.801Ft
 Quarter width (MQW): 12.900Ft
 Foot median: 49.369Ft
 ORC Mainsail area: 438.012Ft?
 Surface area: 448.841Ft?
 Clew height: 0.328Ft
 Mast rake: 0.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
83.333%	4.212Ft	1.042Ft	72.748?	40.397Ft	41.865Ft	Full
66.667%	7.382Ft	1.452Ft	72.748?	32.400Ft	33.492Ft	Full
50.000%	4.593Ft	1.432Ft	72.748?	24.404Ft	25.119Ft	
33.333%	4.593Ft	1.182Ft	72.748?	16.407Ft	16.746Ft	
16.667%	3.609Ft	0.665Ft	72.748?	8.411Ft	8.373Ft	

Reefing Points

1, Luff: 6.532Ft ; Leech: 6.691Ft ; Offset: 0.000Ft ; Number Eyelets: 3
 2, Luff: 13.306Ft ; Leech: 13.639Ft ; Offset: 0.000Ft ; Number Eyelets: 3

Draft Stripes

1, Luff: 12.096Ft ; Leech: 12.059Ft ;
 2, Luff: 24.920Ft ; Leech: 25.349Ft ;
 3, Luff: 36.294Ft ; Leech: 37.287Ft ;

Luff Curve

		Fanned Luff (@ 5.00% [0.761Ft])	Before BSeam
48.398Ft,	0.000Ft	100% (48.400Ft) :	0.000Ft
42.367Ft,	-0.111Ft	90% (43.561Ft) :	0.181Ft
36.298Ft,	-0.191Ft	80% (38.720Ft) :	0.351Ft
30.215Ft,	-0.225Ft	70% (33.880Ft) :	0.483Ft
24.198Ft,	-0.229Ft	60% (29.040Ft) :	0.551Ft
18.034Ft,	-0.212Ft	50% (24.200Ft) :	0.559Ft
12.099Ft,	-0.170Ft	40% (19.360Ft) :	0.510Ft
6.031Ft,	-0.096Ft	30% (14.520Ft) :	0.416Ft
0.000Ft,	0.000Ft	20% (9.680Ft) :	0.287Ft
		10% (4.840Ft) :	0.139Ft
		0% (0.000Ft) :	0.000Ft

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1	0.197Ft	0.197Ft	0.197Ft
Zone: 2	0.197Ft	0.197Ft	0.197Ft
Zone: 3	0.197Ft	0.197Ft	0.197Ft
Zone: 4	0.197Ft	0.197Ft	0.197Ft
Zone: 5	0.197Ft	0.197Ft	0.197Ft

Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000Ft	0.000Ft	0.000Ft

Total Seam Lengths (Ft)

Horizontal	38.12
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
Material 1	447.25	1\1,2\1,3\1,4\1,5\1

