

Mainsail: 8000528 Binne-1 Etap 22i Mainsail tri-radialV1.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000528 Binne Et

Initial Design Date: 4/6/2024
Boat:
Etap 22i

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 7.375m
Leech geodesic: 7.765m
Foot geodesic: 2.574m
Head geodesic: 0.115m
Upper width (MUW): 0.529m
Three-quarter width (MTW): 0.948m
Half width (MHW): 1.650m
Quarter width (MQW): 2.158m
Foot median: 7.487m
ORC Mainsail area: 11.242m?
Surface area: 11.461m?
Clew height: 0.063m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.828m	0.143m	72.992?	5.894m	6.193m	Full
60.000%	1.439m	0.214m	72.992?	4.419m	4.645m	Full
40.000%	1.896m	0.186m	72.992?	2.946m	3.096m	Full
20.000%	2.255m	0.106m	72.992?	1.473m	1.548m	Full

Reefing Points

1, Luff: 1.069m ; Leech: 1.078m ; Offset: 0.000m ; Number Eyelets: 2
2, Luff: 1.924m ; Leech: 1.950m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 2.433m ; Leech: 2.456m ;
2, Luff: 4.866m ; Leech: 5.009m ;

Luff Slides

1, Position: 0.737m
2, Position: 2.211m
3, Position: 3.685m
4, Position: 5.159m
5, Position: 6.636m

Luff Curve

		Fanned Luff (@ 5.00% [0.128m])	Before BSeam
7.374m,	0.000m	100% (7.375m) :	0.000m
5.826m,	-0.045m	90% (6.638m) :	0.038m
4.277m,	-0.073m	80% (5.900m) :	0.072m
2.138m,	-0.048m	70% (5.163m) :	0.098m
0.000m,	0.000m	60% (4.425m) :	0.113m
		50% (3.688m) :	0.114m
		40% (2.950m) :	0.102m
		30% (2.212m) :	0.081m
		20% (1.475m) :	0.055m
		10% (0.738m) :	0.027m
		0% (0.000m) :	0.000m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.025m	0.013m	0.025m
Zone: 1/b	0.025m	0.013m	0.025m
Zone: 2/a	0.025m	0.013m	0.025m
Zone: 2/b	0.025m	0.013m	0.025m
Zone: 3	0.025m	0.013m	0.025m

Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	3.42
Radial/Vertical	40.70
Bi-Radial Split	4.86

Materials

Material	Area (m ²)	Panels
Material 1	11.48	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1b\1,1b\2,1b\3 1b\4,1b\5,1b\6,1b\7,1b\8 2\1,2\2,2b\3,2b\2,2b\1 3\1,3\2,3\3,3\4

