

Mainsail: 7000129 Torstein-1 Nauticat 33 fullbattmain.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\7000129 Torstein

Initial Design Date: 13/4/2024
Boat:
Nauticat 33
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 9.342m
Leech geodesic: 9.801m
Foot geodesic: 3.194m
Head geodesic: 0.115m
Upper width (MUW): 0.562m
Three-quarter width (MTW): 1.010m
Half width (MHW): 1.830m
Quarter width (MQW): 2.563m
Foot median: 9.542m
ORC Mainsail area: 16.480m?
Surface area: 16.773m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.856m	0.064m	73.422?	7.468m	7.819m	Full
60.000%	1.531m	0.083m	73.422?	5.600m	5.864m	Full
40.000%	2.147m	0.073m	73.422?	3.733m	3.909m	Full
20.000%	2.701m	0.042m	73.422?	1.867m	1.955m	Full

Reefing Points

1, Luff: 1.139m ; Leech: 1.189m ; Offset: 0.000m ; Number Eyelets: 2
2, Luff: 2.475m ; Leech: 2.579m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 3.082m ; Leech: 3.136m ;
2, Luff: 6.164m ; Leech: 6.380m ;

Luff Slides

1, Position: 0.622m
2, Position: 1.244m
3, Position: 2.489m
4, Position: 3.111m
5, Position: 4.356m
6, Position: 4.978m
7, Position: 6.223m
8, Position: 6.845m
9, Position: 8.093m
10, Position: 8.717m

Luff Curve

		Fanned Luff (@ 5.00% [0.159m])	Before BSeam
9.342m,	0.000m	100% (9.342m) :	0.000m
8.177m,	-0.022m	90% (8.408m) :	0.013m
7.006m,	-0.037m	80% (7.473m) :	0.024m
5.832m,	-0.044m	70% (6.539m) :	0.030m
4.671m,	-0.045m	60% (5.605m) :	0.033m
3.481m,	-0.042m	50% (4.671m) :	0.032m
2.335m,	-0.033m	40% (3.737m) :	0.030m
1.164m,	-0.019m	30% (2.803m) :	0.025m
0.000m,	0.000m	20% (1.868m) :	0.018m
		10% (0.934m) :	0.008m
		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	15.75
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	16.78	1,2,3,4,5 6,7,8,9

