

Mainsail: 8000701 Age-1 Grinde 27 fullbattmain.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000701 Age Grin

Initial Design Date: 22/7/2024
Boat:
Grinde 27
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 9.840m
Leech geodesic: 10.204m
Foot geodesic: 2.870m
Head geodesic: 0.115m
Upper width (MUW): 0.579m
Three-quarter width (MTW): 1.039m
Half width (MHW): 1.832m
Quarter width (MQW): 2.431m
Foot median: 10.009m
ORC Mainsail area: 16.715m?
Surface area: 17.088m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.890m	0.243m	73.676?	7.887m	8.140m	Full
60.000%	1.578m	0.316m	73.676?	5.934m	6.105m	Full
40.000%	2.122m	0.279m	73.676?	3.981m	4.070m	Full
20.000%	2.541m	0.161m	73.676?	2.028m	2.035m	Full

Reefing Points

1, Luff: 1.201m ; Leech: 1.227m ; Offset: 0.000m ; Number Eyelets: 2
2, Luff: 2.509m ; Leech: 2.562m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 3.247m ; Leech: 3.258m ;
2, Luff: 6.494m ; Leech: 6.624m ;

Luff Slides

1, Position: 1.023m
2, Position: 3.021m
3, Position: 4.969m
4, Position: 6.917m
5, Position: 8.866m

Luff Curve

		Fanned Luff (@ 5.00% [0.143m])	Before BSeam
9.840m,	0.000m	100% (9.840m) :	0.000m
8.614m,	-0.023m	90% (8.856m) :	0.013m
7.380m,	-0.039m	80% (7.872m) :	0.066m
6.143m,	-0.046m	70% (6.888m) :	0.086m
4.920m,	-0.047m	60% (5.904m) :	0.098m
3.666m,	-0.043m	50% (4.920m) :	0.101m
2.460m,	-0.035m	40% (3.936m) :	0.097m
1.226m,	-0.020m	30% (2.952m) :	0.084m
0.000m,	0.000m	20% (1.968m) :	0.062m
		10% (0.984m) :	0.031m
		0% (0.000m) :	0.000m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.025m	0.015m	0.025m
Zone: 1/b	0.025m	0.015m	0.025m
Zone: 2/a	0.025m	0.015m	0.025m
Zone: 2/b	0.025m	0.015m	0.025m
Zone: 3	0.025m	0.015m	0.025m

Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	3.82
Radial/Vertical	51.37
Bi-Radial Split	6.49

Materials

Material	Area (m ²)	Panels
Material 1	17.10	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

