

Mainsail: 8000701 Age-1 Grinde 27 fullbattmainV1.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: 6/8/2024
Boat:
Grinde 27
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 9.840m
Leech geodesic: 10.210m
Foot geodesic: 2.870m
Head geodesic: 0.145m
Upper width (MUW): 0.643m
Three-quarter width (MTW): 1.138m
Half width (MHW): 1.940m
Quarter width (MQW): 2.489m
Foot median: 10.011m
ORC Mainsail area: 17.403m?
Surface area: 17.869m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.997m	0.342m	73.676?	7.887m	8.140m	Full
60.000%	1.709m	0.437m	73.676?	5.934m	6.105m	Full
40.000%	2.220m	0.370m	73.676?	3.981m	4.070m	Full
20.000%	2.589m	0.205m	73.676?	2.028m	2.035m	Full

Reefing Points

1, Luff: 1.201m ; Leech: 1.222m ; Offset: 0.000m ; Number Eyelets: 2
2, Luff: 2.509m ; Leech: 2.552m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 3.247m ; Leech: 3.243m ;
2, Luff: 6.494m ; Leech: 6.598m ;

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) :	0.068m
6.143m,	-0.046m	70% (6.888m) :	0.089m
4.920m,	-0.047m	60% (5.904m) :	0.101m
3.666m,	-0.043m	50% (4.920m) :	0.103m
2.460m,	-0.035m	40% (3.936m) :	0.098m
1.226m,	-0.020m	30% (2.952m) :	0.084m
0.000m,	0.000m	20% (1.968m) :	0.061m
		10% (0.984m) :	0.009m
		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
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	4.02
Radial/Vertical	51.34
Bi-Radial Split	6.49

Materials

Material	Area (m ²)	Panels
Material 1	17.88	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

