

Mainsail: 8001002 Gaute LEOPARD 48 Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8001002 Gaute LE

Initial Design Date: 10/10/2024
Boat:
LEOPARD 48
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 17.127m
Leech geodesic: 17.350m
Foot geodesic: 6.831m
Head geodesic: 0.200m
Upper width (MUW): 1.801m
Three-quarter width (MTW): 3.248m
Half width (MHW): 5.243m
Quarter width (MQW): 6.207m
Foot median: 17.118m
ORC Mainsail area: 78.149m?
Surface area: 81.963m?
Clew height: 1.107m
Mast rake: 0.458m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
84.392%	2.627m	1.276m	80.779?	14.436m	14.517m	Full
68.000%	4.300m	1.744m	78.767?	11.658m	11.697m	Full
52.000%	5.335m	1.679m	78.767?	8.906m	8.945m	Full
36.000%	6.010m	1.330m	78.767?	6.156m	6.193m	Full
20.000%	6.435m	0.781m	78.767?	3.408m	3.440m	Full

Reefing Points

1, Luff: 2.562m ; Leech: 2.544m ; Offset: 0.000m ; Number Eyelets: 0
2, Luff: 5.126m ; Leech: 5.083m ; Offset: 0.000m ; Number Eyelets: 0
3, Luff: 7.693m ; Leech: 7.613m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

1, Luff: 4.271m ; Leech: 3.217m ;
2, Luff: 8.549m ; Leech: 7.592m ;
3, Luff: 12.833m ; Leech: 12.087m ;

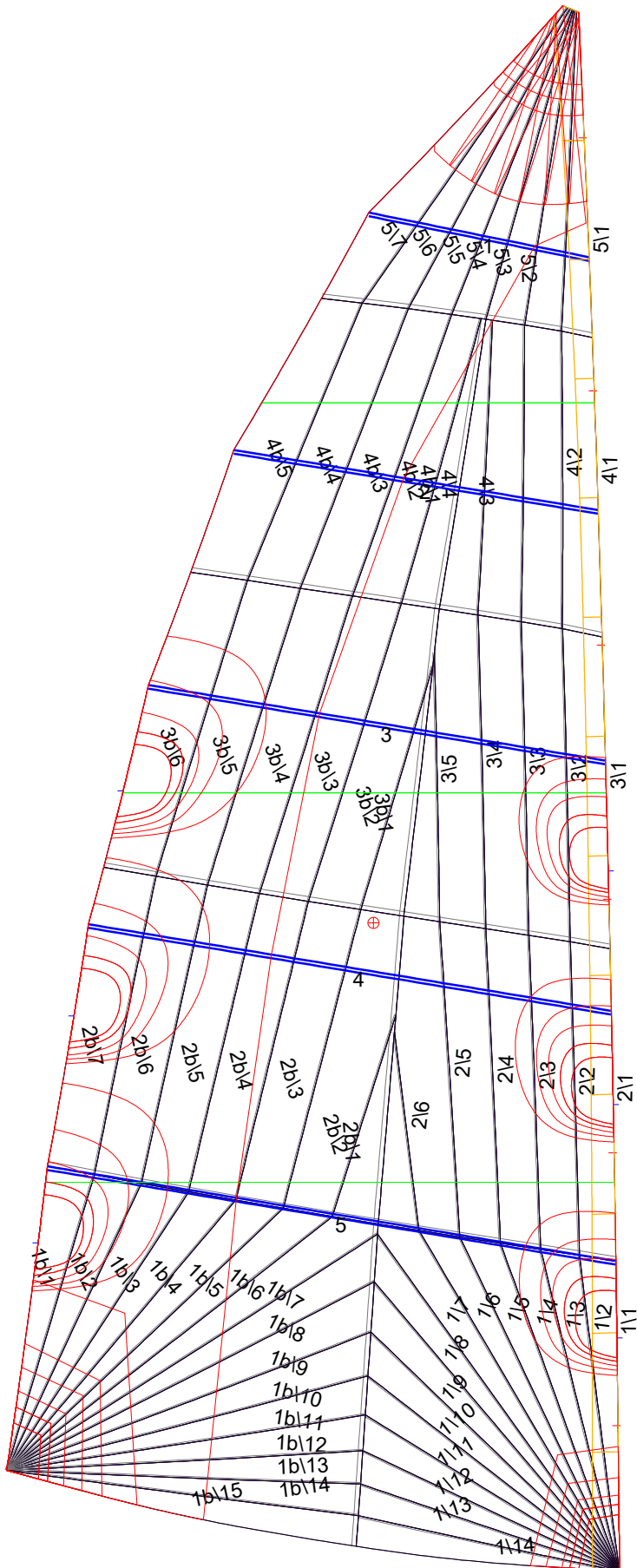
Luff Slides

1, Position: 1.600m
2, Position: 4.593m
3, Position: 7.381m
4, Position: 10.172m
5, Position: 12.966m
6, Position: 15.746m

Luff Curve

		Fanned Luff (@ 5.00% [0.337m])	Before BSeam
17.126m,	0.000m	100% (17.127m) :	-0.000m
14.992m,	-0.036m	90% (15.416m) :	0.020m
12.845m,	-0.062m	80% (13.701m) :	0.143m
10.692m,	-0.075m	70% (11.989m) :	0.193m
8.563m,	-0.078m	60% (10.276m) :	0.212m
6.381m,	-0.072m	50% (8.564m) :	0.208m
4.282m,	-0.058m	40% (6.851m) :	0.182m
2.134m,	-0.033m	30% (5.138m) :	0.143m
0.000m,	0.000m	20% (3.425m) :	0.096m
		10% (1.714m) :	0.012m
		0% (0.000m) :	0.000m

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Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.050m	0.016m	0.050m
Zone: 1/b	0.050m	0.016m	0.050m
Zone: 2/a	0.050m	0.016m	0.050m
Zone: 2/b	0.050m	0.016m	0.050m
Zone: 3/a	0.050m	0.016m	0.050m
Zone: 3/b	0.050m	0.016m	0.050m
Zone: 4/a	0.050m	0.016m	0.050m
Zone: 4/b	0.050m	0.016m	0.050m
Zone: 5	0.050m	0.016m	0.050m
Cover 1	0.038m	0.038m	0.038m

Edge Excesses

	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m
Cover 0	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	20.30
Radial/Vertical	216.96
Bi-Radial Split	14.17

Materials

Material	Area (m ²)	Panels
Material 1	81.95	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1\11,1\12,1\13,1\14,1b\1 1b\2,1b\3,1b\4,1b\5,1b\6 1b\7,1b\8,1b\9,1b\10,1b\11 1b\12,1b\13,1b\14,1b\15,2\1 2\2,2\3,2\4,2\5,2\6 2b\1,2b\2,2b\3,2b\4,2b\5 2b\6,2b\7,3\1,3\2,3\3 3\4,3\5,3b\1,3b\2,3b\3 3b\4,3b\5,3b\6,4\1,4\2 4\3,4\4,4b\1,4b\2,4b\3 4b\4,4b\5,5\1,5\2,5\3 5\4,5\5,5\6,5\7