

Mainsail: 8000704 Katharina Corby 29 racing mainsail.des

Design Info
=====

Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000704 Katharina

Initial Design Date: 22/7/2024
Boat:
Corby 29
Client:

Comments:

Design Data
=====

Main

Measurements

Luff geodesic:	11.450m
Leech geodesic:	12.065m
Foot geodesic:	3.960m
Head geodesic:	0.200m
Foot(Inc Luff Rope):	3.980m
Head(Inc Luff Rope):	0.220m
Upper width (MUW):	0.860m
Three-quarter width (MTW):	1.505m
Half width (MHW):	2.540m
Quarter width (MQW):	3.310m
Foot median:	11.716m
ORC Mainsail area:	27.015m ²
Surface area:	27.571m ²
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.312m	0.414m	70.890?	9.179m	9.613m	Full
60.000%	2.229m	0.487m	70.890?	6.908m	7.210m	Full
40.000%	1.050m	0.339m	70.890?	4.637m	4.806m	
20.000%	0.950m	0.164m	70.890?	2.367m	2.403m	

Reefing Points

1, Luff: 1.397m ; Leech: 1.449m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 3.779m ; Leech: 3.830m ;
2, Luff: 7.557m ; Leech: 7.772m ;

Luff Curve

		Fanned Luff (@ 5.00% [0.197m])	Before BSeam
11.450m,	0.000m	100% (11.450m) :	0.000m
10.023m,	-0.026m	90% (10.305m) :	0.016m
8.587m,	-0.045m	80% (9.160m) :	0.028m
7.148m,	-0.053m	70% (8.015m) :	0.036m
5.725m,	-0.054m	60% (6.870m) :	0.038m
4.266m,	-0.050m	50% (5.725m) :	0.037m
2.862m,	-0.040m	40% (4.580m) :	0.035m
1.427m,	-0.023m	30% (3.435m) :	0.029m
0.000m,	0.000m	20% (2.290m) :	0.021m
		10% (1.145m) :	0.010m
		0% (0.000m) :	0.000m

Mainsail: 8000704 Katharina Corby 29 racing mainsail.des

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	5.25
Radial/Vertical	93.71
Bi-Radial Split	7.61

Materials

Material	Area (m ²)	Panels
Material 1	27.59	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1b\1,1b\2,1b\3,1b\4,1b\5 1b\6,1b\7,1b\8,1b\9,1b\10 1b\11,2\1,2\2,2\3,2b\4 2b\3,2b\2,2b\1,3\1,3\2 3\3,3\4,3\5

