

Mainsail: 8000520 Ryan Hunter41 RFMN.des

Design Info

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Initial Design Date: 4/6/2024
Boat:
Hunter 42 RF
Client:

Design File:

\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000520 Ryan Hunter41 RFMN.des

Comments:

Design Data

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Main

Measurements

Luff geodesic:	15.434m
Leech geodesic:	16.506m
Foot geodesic:	6.066m
Head geodesic:	0.040m
Upper width (MUW):	0.715m
Three-quarter width (MTW):	1.407m
Half width (MHW):	2.917m
Quarter width (MQW):	4.485m
Foot median:	15.757m
ORC Mainsail area:	45.749m ²
Surface area:	45.611m ²
Clew height:	0.100m
Mast rake:	0.000m

Luff Curve

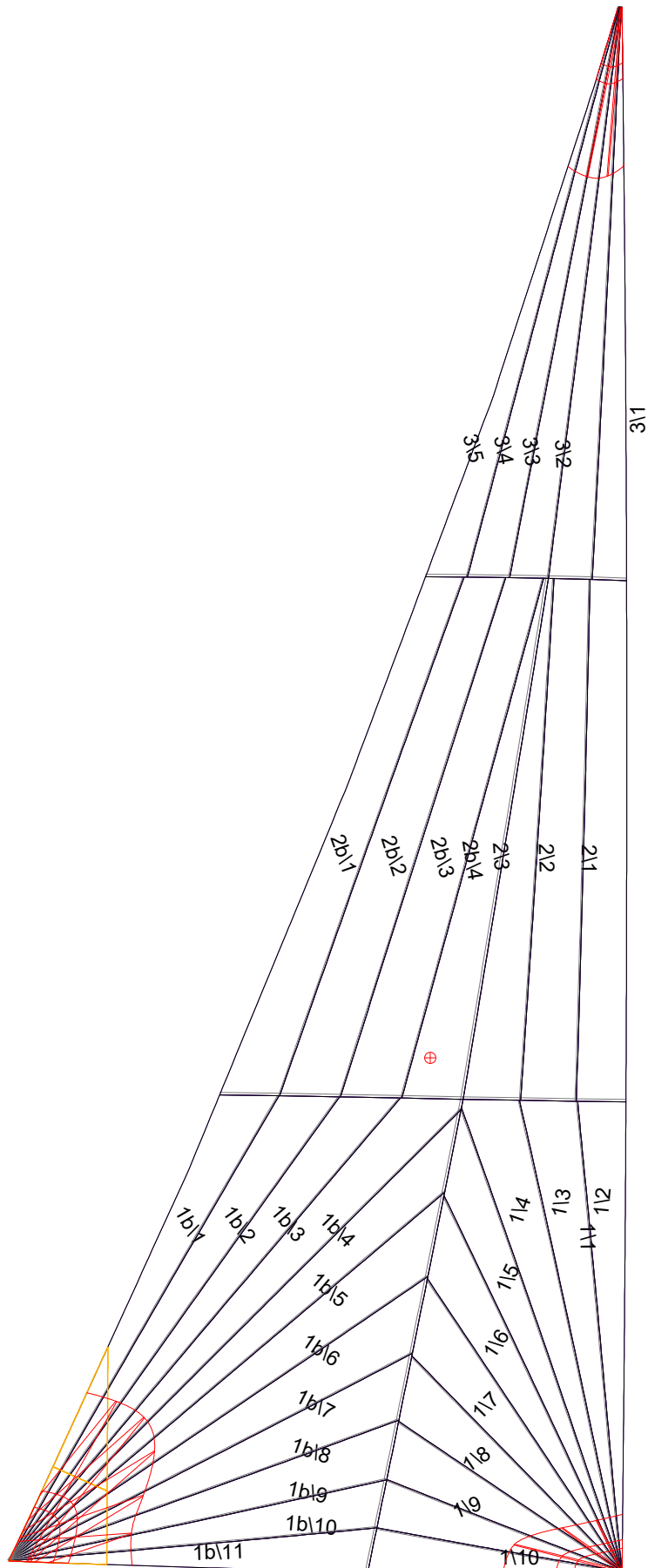
15.434m,	0.000m
13.511m,	-0.021m
11.575m,	-0.037m
9.635m,	-0.045m
7.717m,	-0.046m
5.751m,	-0.043m
3.858m,	-0.034m
1.923m,	-0.019m
0.000m,	0.000m

Fanned Luff (@ 5.00% [0.302m])

100% (15.434m) :	0.000m	-0.000m
90% (13.891m) :	0.014m	0.038m
80% (12.347m) :	0.026m	0.073m
70% (10.804m) :	0.033m	0.101m
60% (9.260m) :	0.036m	0.121m
50% (7.717m) :	0.036m	0.132m
40% (6.174m) :	0.033m	0.134m
30% (4.630m) :	0.028m	0.124m
20% (3.087m) :	0.020m	0.102m
10% (1.543m) :	0.009m	0.058m
0% (0.000m) :	0.000m	0.000m

Before BSeam

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.025m	0.013m	0.025m
Zone: 1/b	0.025m	0.013m	0.025m
Zone: 2/a	0.025m	0.013m	0.025m
Zone: 2/b	0.025m	0.013m	0.025m
Zone: 3	0.025m	0.013m	0.025m
Cover 1	0.025m	0.025m	0.025m
Cover 2	0.025m	0.025m	0.025m

Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m
Cover 0	0.000m	0.070m	0.070m
Cover 1	0.000m	0.070m	0.070m

Total Seam Lengths (m)

Horizontal	6.22
Radial/Vertical	132.36
Bi-Radial Split	10.15

Materials

Material	Area (m ²)	Panels
Material 1	45.65	1i1, 1i2, 1i3, 1i4, 1i5 1i6, 1i7, 1i8, 1i9, 1i10 1b1, 1b2, 1b3, 1b4, 1b5 1b6, 1b7, 1b8, 1b9, 1b10 1b11, 2i1, 2i2, 2i3, 2b4 2b3, 2b2, 2b1, 3i1, 3i2 3i3, 3i4, 3i5