

Mainsail: 4000728 Matthias mainsail V1.des

Design Info
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Design File:
D:\dropbox\Dropbox\Fareastsails sails\order\Mike computer\Fareast Sails Production\2020\4000728 Matthias\4000728

Initial Design Date: 5/8/2020
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 10.190m
 Leech geodesic: 10.585m
 Foot geodesic: 3.080m
 Head geodesic: 0.115m
 Upper width (MUW): 0.620m
 Three-quarter width (MTW): 1.118m
 Half width (MHW): 1.973m
 Quarter width (MQW): 2.624m
 Foot median: 10.368m
 ORC Mainsail area: 18.629m?
 Surface area: 19.029m?
 Clew height: 0.042m
 Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.964m	0.188m	74.528?	8.148m	8.454m	Full
60.000%	1.699m	0.285m	74.528?	6.111m	6.341m	Full
40.000%	2.290m	0.272m	74.528?	4.074m	4.227m	Full
20.000%	2.744m	0.175m	74.528?	2.037m	2.114m	Full

Reefing Points

1, Luff: 1.528m ; Leech: 1.559m ; Offset: 0.000m ; Number Eyelets: 3
 2, Luff: 3.057m ; Leech: 3.125m ; Offset: 0.000m ; Number Eyelets: 3
 3, Luff: 4.585m ; Leech: 4.698m ; Offset: 0.000m ; Number Eyelets: 2

Luff Curve

		Fanned Luff (@ 5.00% [0.153m])	Before BSeam
10.190m,	0.000m	100% (10.190m) :	0.000m
9.161m,	-0.021m	90% (9.171m) :	0.017m
8.152m,	-0.037m	80% (8.152m) :	0.029m
7.123m,	-0.047m	70% (7.133m) :	0.037m
6.113m,	-0.052m	60% (6.114m) :	0.040m
4.605m,	-0.050m	50% (5.095m) :	0.039m
3.057m,	-0.039m	40% (4.076m) :	0.035m
1.618m,	-0.023m	30% (3.057m) :	0.028m
0.000m,	0.000m	20% (2.038m) :	0.019m
		10% (1.019m) :	0.009m
		0% (0.000m) :	0.000m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.038m	0.015m	0.038m
Zone: 1/b	0.038m	0.015m	0.038m
Zone: 2/a	0.038m	0.015m	0.038m
Zone: 2/b	0.038m	0.015m	0.038m
Zone: 3/a	0.038m	0.015m	0.038m
Zone: 3/b	0.038m	0.015m	0.038m

Edge Excesses

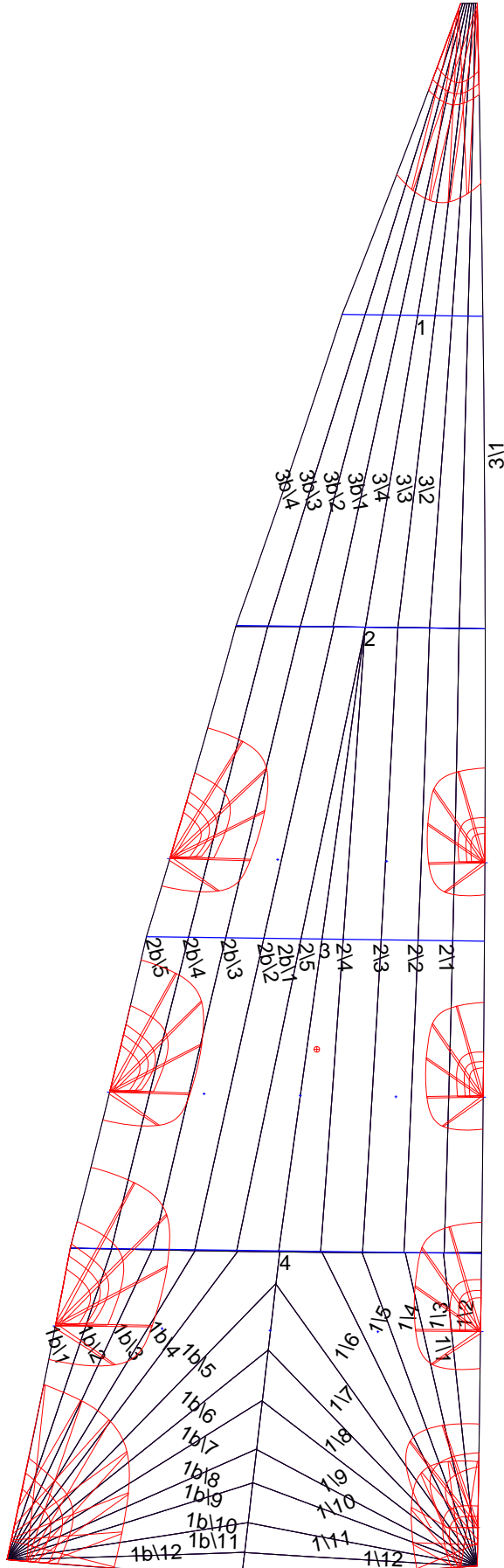
Sail:	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

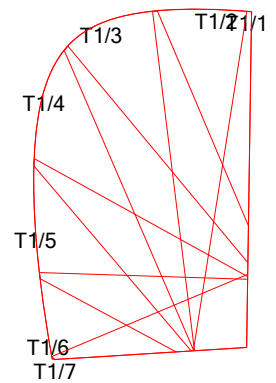
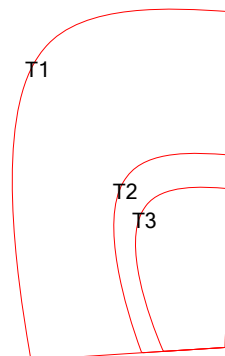
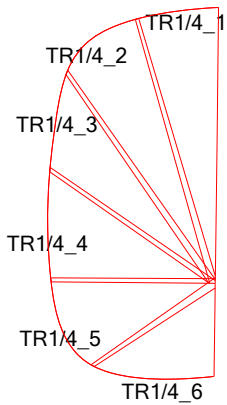
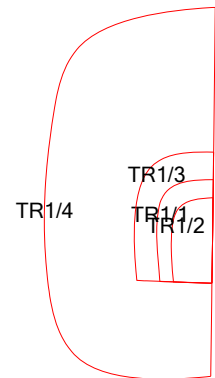
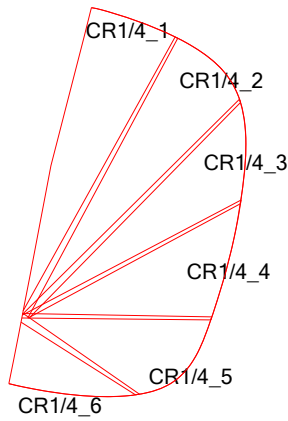
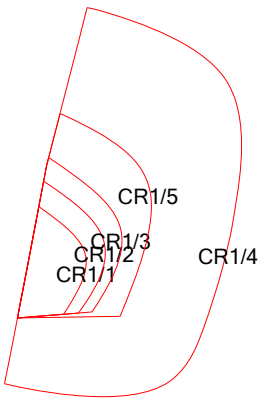
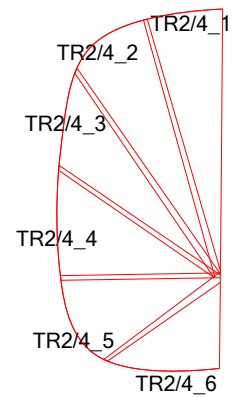
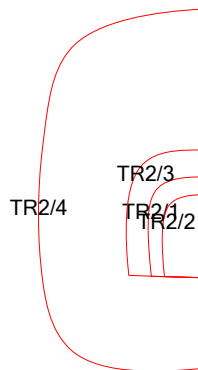
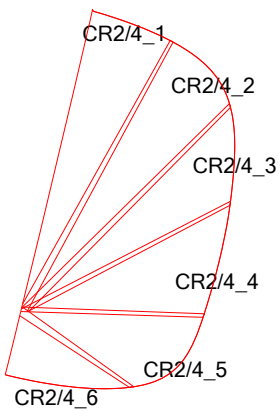
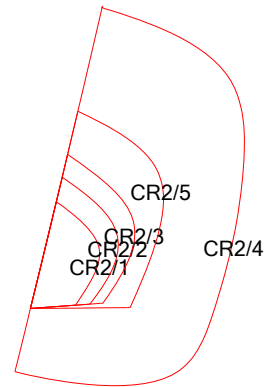
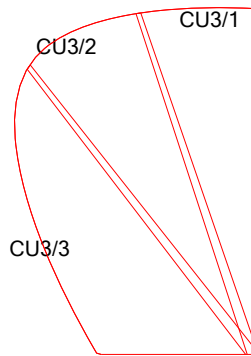
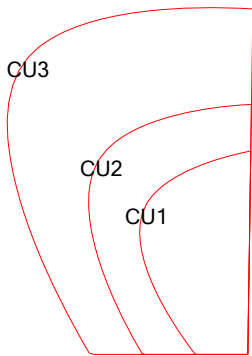
Horizontal	4.45
Radial/Vertical	102.04
Bi-Radial Split	10.71

Materials

Material	Area (m ²)	Panels
Material 1	19.06	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1\11,1\12,1b\1,1b\2,1b\3 1b\4,1b\5,1b\6,1b\7,1b\8 1b\9,1b\10,1b\11,1b\12,2\1 2\2,2\3,2\4,2\5,2b\1 2b\2,2b\3,2b\4,2b\5,3\1 3\2,3\3,3\4,3b\1,3b\2 3b\3,3b\4



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