

Mainsail: 4000919 Per mainsail.des

Design Info
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Design File:
D:\dropbox\Dropbox\Fareastsails sails\order\Mike computer\Fareast Sails Production\2020\4000919 Per\4000919 Per m

Initial Design Date: 3/10/2020
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 12.670m
 Leech geodesic: 13.297m
 Foot geodesic: 4.470m
 Head geodesic: 0.115m
 Upper width (MUW): 0.891m
 Three-quarter width (MTW): 1.640m
 Half width (MHW): 2.798m
 Quarter width (MQW): 3.683m
 Foot median: 12.912m
 ORC Mainsail area: 33.002m?
 Surface area: 33.781m?
 Clew height: 0.100m
 Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.441m	0.300m	72.407?	10.128m	10.623m	Full
60.000%	2.430m	0.338m	72.407?	7.594m	7.967m	Full
40.000%	3.220m	0.261m	72.407?	5.061m	5.311m	Full
20.000%	3.842m	0.102m	72.407?	2.530m	2.656m	Full

Reefing Points

1, Luff: 1.900m ; Leech: 1.973m ; Offset: 0.000m ; Number Eyelets: 2
 2, Luff: 3.799m ; Leech: 3.938m ; Offset: 0.000m ; Number Eyelets: 2

Luff Slides

1, Position: 0.632m
 2, Position: 1.265m
 3, Position: 1.897m
 4, Position: 3.374m
 5, Position: 4.217m
 6, Position: 5.905m
 7, Position: 6.749m
 8, Position: 8.438m
 9, Position: 9.283m
 10, Position: 10.975m
 11, Position: 11.823m

Luff Curve

		Fanned Luff (@ 5.00% [0.223m])	Before BSeam
12.668m,	0.000m	100% (12.670m) :	0.000m
9.566m,	-0.117m	90% (11.404m) :	0.072m
6.340m,	-0.151m	80% (10.136m) :	0.138m
3.170m,	-0.109m	70% (8.870m) :	0.183m
0.000m,	0.000m	60% (7.602m) :	0.206m
		50% (6.335m) :	0.212m
		40% (5.068m) :	0.199m
		30% (3.801m) :	0.169m
		20% (2.533m) :	0.121m
		10% (1.267m) :	0.061m
		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

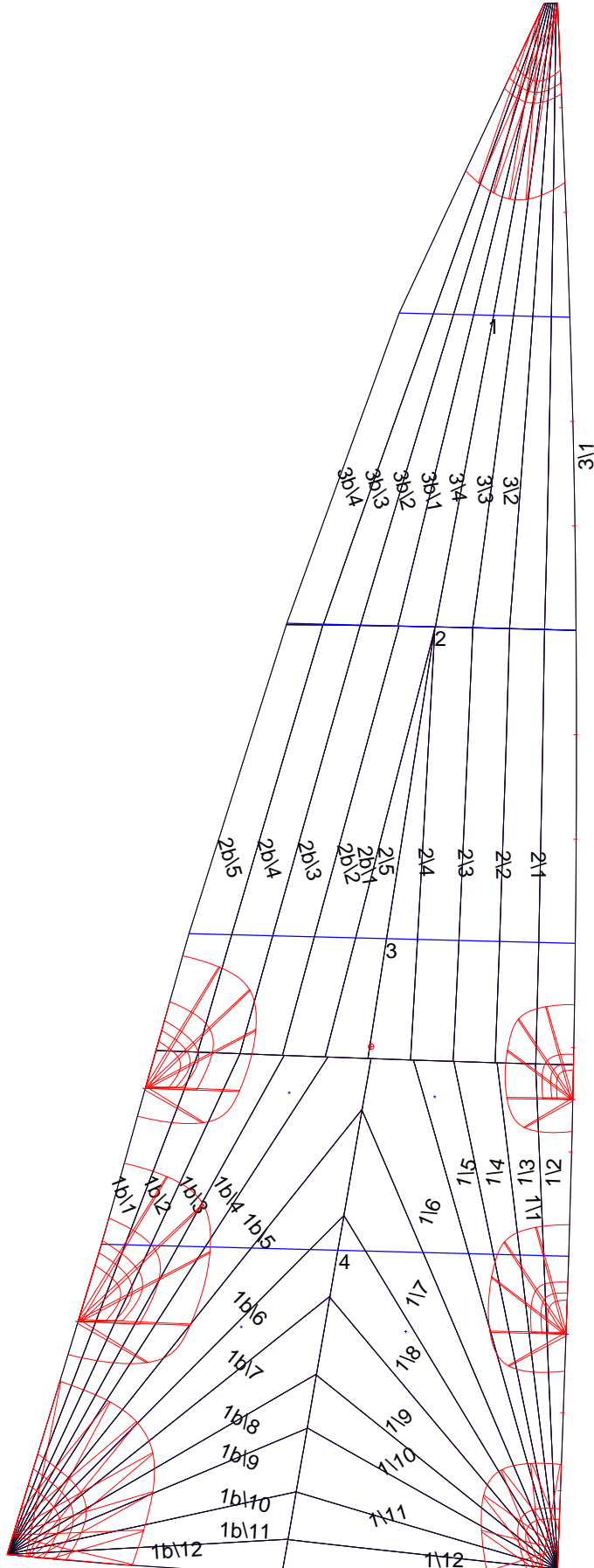
Sail:	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

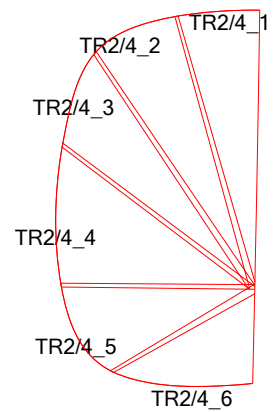
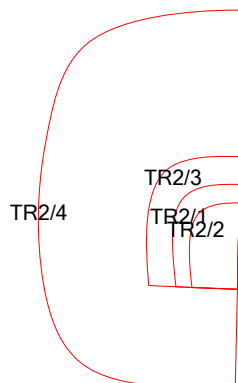
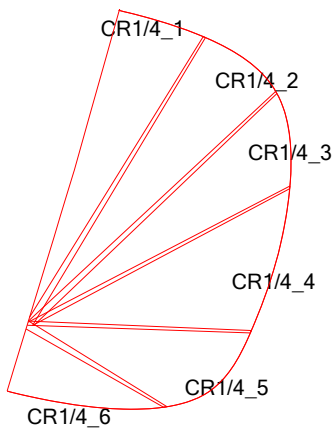
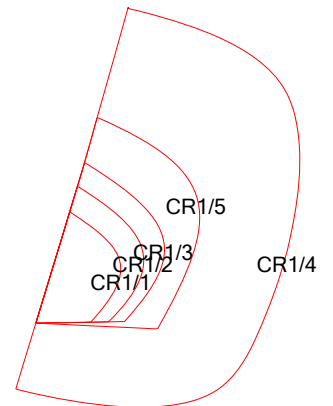
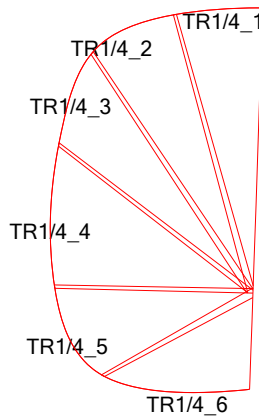
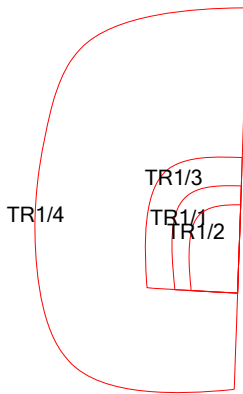
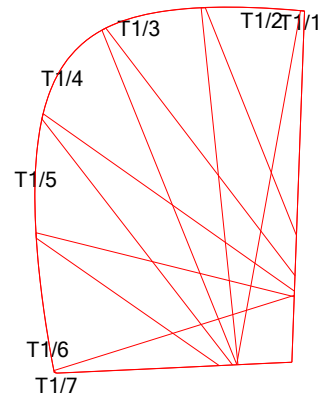
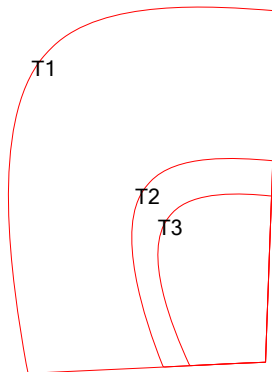
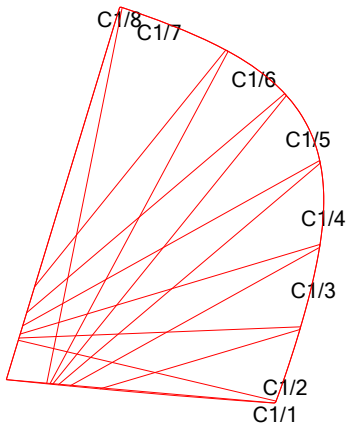
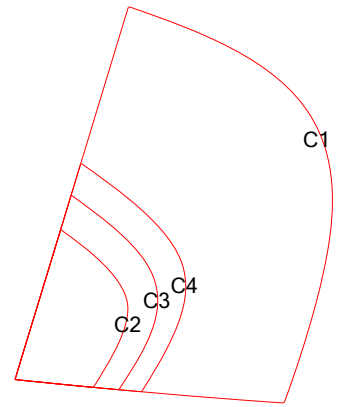
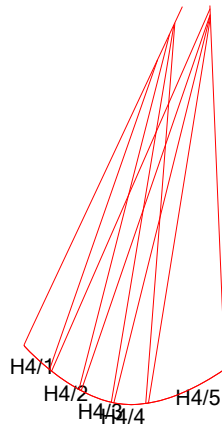
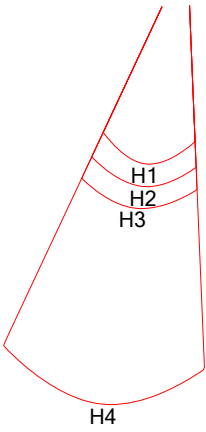
Horizontal	5.90
Radial/Vertical	136.74
Bi-Radial Split	13.24

Materials

Material	Area (m ²)	Panels
Material 1	33.84	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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