

# Genoa: 5000228 Yngling jib radialcut.des

## Design Info

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## Design File:

F:\Dropbox (个人)\Fareast Sails\2021\5000228 Adam\5000228 Yngling jib radialcut.des

Initial Design Date: 5/5/2010

Boat:

Yngling

Client:

Comments:  
soling design

## Design Data

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### Genoa

#### Measurements

Luff geodesic: 5.675m  
 Leech geodesic: 5.225m  
 Foot geodesic: 1.950m  
 Headboard width: 0.030m  
 Luff perpendicular (HLP): 1.821m  
 Upper width (HUW): 0.253m  
 Three-quarter width (HTW): 0.478m  
 Half width (HHW): 0.941m  
 Quarter width (HQW): 1.400m  
 Foot median: 5.536m  
 ORC Headsail area: 5.288m?  
 IRC Headsail area: 5.274m?  
 Surface area: 5.506m?  
 Forestay height: 6.800m  
 J: 2.320m

#### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
66.667%	0.280m	0.015m	90.000?	3.829m	3.469m	
33.367%	0.280m	0.015m	90.690?	1.980m	1.736m	

#### Draft Stripes

1, Luff: 1.886m ; Leech: 1.640m ;  
 2, Luff: 3.761m ; Leech: 3.396m ;

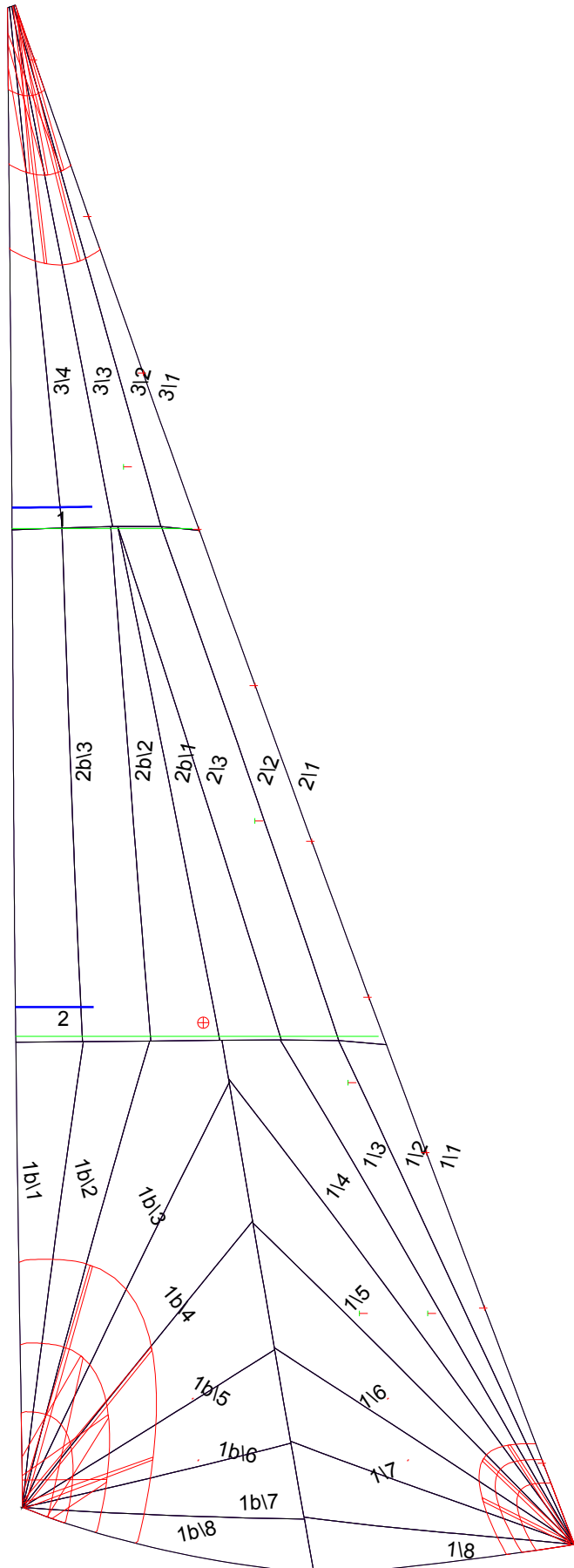
#### Luff Slides

1, Position: 0.301m  
 2, Position: 0.876m  
 3, Position: 1.451m  
 4, Position: 2.026m  
 5, Position: 2.600m  
 6, Position: 3.175m  
 7, Position: 3.750m  
 8, Position: 4.325m  
 9, Position: 4.899m  
 10, Position: 5.474m

#### Luff Curve

Luff Curve	Fanned Luff (@ 5.00% [0.096m])	Before BSeam
5.674m, 0.000m	100% (5.674m) :	-0.000m 0.000m
4.255m, 0.037m	90% (5.106m) :	-0.015m 0.001m
3.406m, 0.044m	80% (4.540m) :	-0.030m 0.002m
2.271m, 0.042m	70% (3.972m) :	-0.040m 0.007m
1.419m, 0.030m	60% (3.405m) :	-0.045m 0.013m
0.000m, 0.000m	50% (2.837m) :	-0.045m 0.021m
	40% (2.270m) :	-0.043m 0.027m
	30% (1.702m) :	-0.036m 0.030m
	20% (1.135m) :	-0.027m 0.029m
	10% (0.567m) :	-0.014m 0.020m
	0% (0.000m) :	0.000m 0.000m

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

Edge Excesses			
Sail:	Luff	Leech	Foot
	0.000m	0.025m	0.025m

### Total Seam Lengths (m)

Horizontal	2.07
Radial/Vertical	33.28
Bi-Radial Split	3.85

### Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	5.51	1 1, 1 2, 1 3, 1 4, 1 5 1 6, 1 7, 1 8, 1b 1, 1b 2 1b 3, 1b 4, 1b 5, 1b 6, 1b 7 1b 8, 2 1, 2 2, 2 3, 2b 1 2b 2, 2b 3, 3 1, 3 2, 3 3 3 4