

# Genoa: 5000209 Kasper headsail.des

Design Info  
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Design File:  
F:\Dropbox (个人)\Fareast Sails\2021\5000209 Kasper\5000209 Kasper headsail.des

Initial Design Date: 24/3/2021  
Boat:

Comments:

Client:

Design Data  
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Genoa

Measurements

Luff geodesic: 9.890m  
Leech geodesic: 9.553m  
Foot geodesic: 4.657m  
Headboard width: 0.035m  
Luff perpendicular (HLP): 4.466m  
Upper width (HUW): 0.509m  
Three-quarter width (HTW): 1.010m  
Half width (HHW): 2.122m  
Quarter width (HQW): 3.283m  
Foot median: 9.614m  
ORC Headsail area: 21.460m?  
IRC Headsail area: 21.414m?  
Surface area: 21.666m?  
Forestay height: 10.300m  
J: 3.190m

Luff Curve

		Fanned Luff (@ 5.00% [0.229m])	Before BSeam
9.888m,	0.000m	100% (9.888m) :	-0.000m 0.000m
9.066m,	0.034m	90% (8.899m) :	-0.035m 0.001m
8.158m,	0.061m	80% (7.912m) :	-0.065m 0.006m
7.358m,	0.075m	70% (6.922m) :	-0.078m 0.022m
6.428m,	0.080m	60% (5.934m) :	-0.078m 0.041m
4.921m,	0.070m	50% (4.944m) :	-0.072m 0.055m
3.214m,	0.048m	40% (3.956m) :	-0.061m 0.061m
1.671m,	0.024m	30% (2.966m) :	-0.047m 0.058m
0.000m,	0.000m	20% (1.978m) :	-0.033m 0.045m
		10% (0.988m) :	-0.017m 0.022m
		0% (0.000m) :	0.000m 0.000m

Section Data

Position	Camber	Draft	Twist	Entry	Exit	Roach	Fwd Camb	Aft Camb
100.00%	8.892%	41.484%	19.969?	26.952?	-11.648?	0.000m	6.971%	6.514%
80.00%	15.467%	42.559%	15.975?	54.529?	-22.483?	-0.118m	12.082%	11.252%
60.00%	16.201%	42.431%	11.982?	60.132?	-24.691?	-0.178m	12.463%	11.756%
39.99%	14.569%	41.720%	7.987?	58.054?	-22.096?	-0.179m	11.220%	10.557%
20.00%	11.607%	40.663%	3.994?	49.160?	-17.753?	-0.126m	9.027%	8.454%
10.00%	9.510%	40.221%	1.997?	41.215?	-14.909?	-0.074m	7.446%	6.960%
0.00%	7.098%	39.779%	0.000?	31.098?	-11.603?	0.000m	5.596%	5.229%

Chord Data

Luff LL : 9.8881m  
Leech : 9.4916m  
Luff Perpendicular : 4.3495m  
Clew Height : 0.1000m  
Headboard width : 0.0350m

Fanned Foot Curve Depths

25.0% 50.0% 75.0%  
0.0807m 0.1144m 0.0853m

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## Seam Allowances

	Split	Radial	Cross
Zone: 1	0.025m	0.015m	0.025m
Zone: 2	0.025m	0.015m	0.025m
Cover 1	0.025m	0.025m	0.025m
Cover 2	0.025m	0.025m	0.025m

## Edge Excesses

	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m
Cover 0	0.050m	0.100m	0.050m
Cover 1	0.050m	0.100m	0.050m

## Total Seam Lengths (m)

Horizontal	16.67
Radial/Vertical	0.00
Bi-Radial Split	0.00

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	21.73	1\1,2\1,2\2,2\3,2\4 2\5,2\6,2\7

