

# Mainsail: 7000914 Jeroen-1 Koopmans 31 Nova Mainsail.des

Design Info  
=====

Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7000914 Jeroen\7000914 Jeroen-1 Koopmans 31 Nova Mainsail.des

Initial Design Date: 21/9/2023  
Boat:

Comments:

Client:

Design Data  
=====

## Main

### Measurements

Luff geodesic: 9.306m  
 Leech geodesic: 9.685m  
 Foot geodesic: 2.970m  
 Head geodesic: 0.115m  
 Upper width (MUW): 0.612m  
 Three-quarter width (MTW): 1.093m  
 Half width (MHW): 1.879m  
 Quarter width (MQW): 2.501m  
 Foot median: 9.493m  
 ORC Mainsail area: 16.328m?  
 Surface area: 16.752m?  
 Clew height: 0.100m  
 Mast rake: 0.000m

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.957m	0.204m	74.351?	7.440m	7.724m	Full
60.000%	1.626m	0.265m	74.351?	5.579m	5.793m	Full
40.000%	2.175m	0.234m	74.351?	3.719m	3.862m	Full
20.000%	2.617m	0.135m	74.351?	1.859m	1.931m	Full

### Reefing Points

1, Luff: 1.163m ; Leech: 1.194m ; Offset: 0.000m ; Number Eyelets: 2  
 2, Luff: 2.465m ; Leech: 2.531m ; Offset: 0.000m ; Number Eyelets: 2

### Draft Stripes

1, Luff: 3.070m ; Leech: 3.092m ;  
 2, Luff: 6.141m ; Leech: 6.291m ;

### Luff Slides

1, Position: 0.936m  
 2, Position: 2.801m  
 3, Position: 4.658m  
 4, Position: 6.514m  
 5, Position: 8.375m

### Luff Curve

		Fanned Luff (@ 5.00% [0.148m])	Before BSeam
9.306m,	0.000m	100% (9.306m) :	0.000m
8.146m,	-0.021m	90% (8.376m) :	0.013m
6.979m,	-0.037m	80% (7.445m) :	0.024m
5.810m,	-0.043m	70% (6.514m) :	0.030m
4.653m,	-0.044m	60% (5.584m) :	0.033m
3.467m,	-0.041m	50% (4.653m) :	0.033m
2.326m,	-0.033m	40% (3.722m) :	0.031m
1.160m,	-0.019m	30% (2.792m) :	0.027m
0.000m,	0.000m	20% (1.861m) :	0.019m
		10% (0.931m) :	0.009m
		0% (0.000m) :	0.000m

# Mainsail: 7000914 Jeroen-1 Koopmans 31 Nova Mainsail.des

## Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.025m	0.015m	0.025m
Zone: 1/b	0.025m	0.015m	0.025m
Zone: 2/a	0.025m	0.015m	0.025m
Zone: 2/b	0.025m	0.015m	0.025m
Zone: 3	0.025m	0.015m	0.025m

## Edge Excesses

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

## Total Seam Lengths (m)

Horizontal	3.96
Radial/Vertical	62.47
Bi-Radial Split	6.18

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	16.76	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1b\1,1b\2,1b\3,1b\4,1b\5 1b\6,1b\7,1b\8,1b\9,1b\10 2\1,2\2,2\3,2b\1,2b\2 2b\3,3\1,3\2,3\3,3\4

