

# Mainsail: 7000626 Eduard-1 Farr30 Mainsail.des

## Design Info

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Initial Design Date: 14/7/2023

Boat:

Farr 30

Client:

## Design File:

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Comments:

## Design Data

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### Main

#### Measurements

Luff geodesic:	12.030m
Leech geodesic:	12.662m
Foot geodesic:	4.340m
Head geodesic:	0.170m
Upper width (MUW):	1.041m
Three-quarter width (MTW):	1.876m
Half width (MHW):	3.058m
Quarter width (MQW):	3.849m
Foot median:	12.447m
ORC Mainsail area:	33.224m <sup>2</sup>
Surface area:	34.807m <sup>2</sup>
Clew height:	-0.523m
Mast rake:	0.000m

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.605m	0.507m	70.746°	9.877m	10.339m	Full
62.000%	2.670m	0.618m	70.746°	7.496m	7.817m	Full
42.000%	3.412m	0.517m	70.746°	5.114m	5.295m	Full
21.500%	3.959m	0.303m	70.746°	2.673m	2.711m	Full

### Reefing Points

- 1, Luff: 1.687m ; Leech: 1.731m ; Offset: 0.000m ; Number Eyelets: 3
- 2, Luff: 3.432m ; Leech: 3.524m ; Offset: 0.000m ; Number Eyelets: 3
- 3, Luff: 5.416m ; Leech: 5.569m ; Offset: 0.000m ; Number Eyelets: 3

### Draft Stripes

- 1, Luff: 2.951m ; Leech: 2.924m ;
- 2, Luff: 5.957m ; Leech: 6.048m ;
- 3, Luff: 8.961m ; Leech: 9.224m ;

### Luff Slides

- 1, Position: 3.279m
- 2, Position: 1.466m
- 3, Position: 3.216m
- 4, Position: 4.300m
- 5, Position: 5.908m
- 6, Position: 6.702m
- 7, Position: 8.289m
- 8, Position: 9.083m
- 9, Position: 10.595m
- 10, Position: 11.312m

### Luff Curve

		Fanned Luff (@ 5.00% [0.216m])	Before BSeam
12.026m,	0.000m	100% (12.030m) :	0.000m
9.019m,	-0.175m	90% (10.828m) :	0.087m
6.013m,	-0.225m	80% (9.625m) :	0.171m
3.006m,	-0.168m	70% (8.422m) :	0.232m
0.000m,	0.000m	60% (7.219m) :	0.264m
		50% (6.015m) :	0.269m
		40% (4.811m) :	0.258m
		30% (3.608m) :	0.225m
		20% (2.405m) :	0.163m
		10% (1.202m) :	0.081m
		0% (0.000m) :	0.000m

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## Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.038m	0.016m	0.038m
Zone: 1/b	0.038m	0.016m	0.038m
Zone: 2/a	0.038m	0.016m	0.038m
Zone: 2/b	0.038m	0.016m	0.038m
Zone: 3	0.038m	0.016m	0.038m
Zone: 4	0.038m	0.016m	0.038m

## Edge Excesses

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

## Total Seam Lengths (m)

Horizontal	8.71
Radial/Vertical	139.24
Bi-Radial Split	6.97

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	34.84	1\1, 1\2, 1\3, 1\4, 1\5 1\6, 1\7, 1\8, 1\9, 1\10 1\11, 1\12, 1\13, 1b\1, 1b\2 1b\3, 1b\4, 1b\5, 1b\6, 1b\7 1b\8, 1b\9, 1b\10, 1b\11, 1b\12 1b\13, 2\1, 2\2, 2\3, 2\4 2\5, 2\6, 2b\1, 2b\2, 2b\3 2b\4, 2b\5, 2b\6, 3\1, 3\2 3\3, 3\4, 3\5, 3\6, 3\7 3\8, 4\1, 4\2, 4\3, 4\4 4\5, 4\6

