

# Mainsail: 7001008 Sindre Mainsail.des

Design Info  
=====

Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confrimed\7001008 Sindre\7001008 Sindre Mainsail.des

Initial Design Date: 17/10/2023  
Boat:

Comments:  
tack angle 90 degree

Client:

Design Data  
=====

## Main

### Measurements

Luff geodesic:	9.900m
Leech geodesic:	10.483m
Foot geodesic:	3.460m
Head geodesic:	0.115m
Upper width (MUW):	0.722m
Three-quarter width (MTW):	1.302m
Half width (MHW):	2.232m
Quarter width (MQW):	2.930m
Foot median:	10.162m
ORC Mainsail area:	20.435m <sup>2</sup>
Surface area:	21.059m <sup>2</sup>
Clew height:	0.100m
Mast rake:	0.000m

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.065m	0.273m	71.364°	8.116m	8.565m	Full
62.000%	1.887m	0.373m	71.364°	6.137m	6.476m	Full
42.000%	2.522m	0.325m	71.364°	4.157m	4.387m	Full
22.000%	3.017m	0.190m	71.364°	2.178m	2.298m	Full

### Reefing Points

1, Luff: 1.151m ; Leech: 1.193m ; Offset: 0.000m ; Number Eyelets: 2  
2, Luff: 2.501m ; Leech: 2.590m ; Offset: 0.000m ; Number Eyelets: 2  
3, Luff: 4.001m ; Leech: 4.146m ; Offset: 0.000m ; Number Eyelets: 2

### Draft Stripes

1, Luff: 3.267m ; Leech: 3.386m ;  
2, Luff: 6.534m ; Leech: 6.806m ;

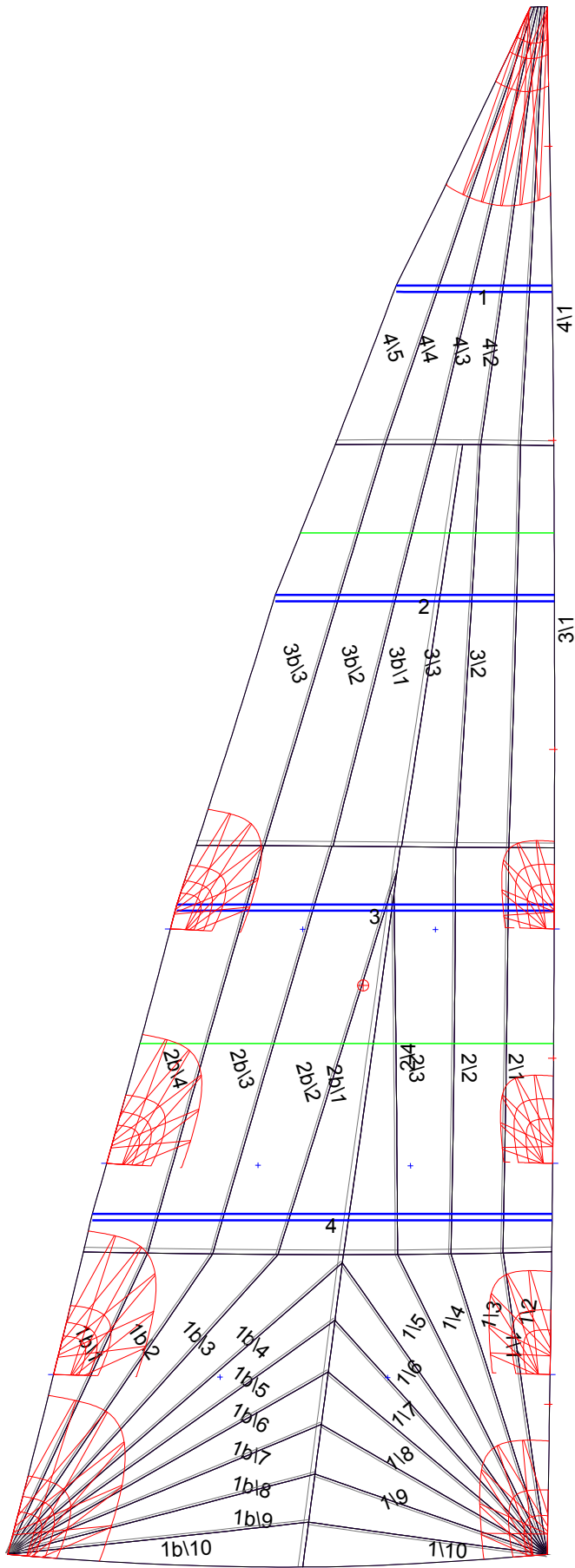
### Luff Slides

1, Position: 0.961m  
2, Position: 3.173m  
3, Position: 5.150m  
4, Position: 7.127m  
5, Position: 9.008m

### Luff Curve

		Fanned Luff (@ 5.00% [0.172m])	Before BSeam
9.900m,	0.000m	100% (9.900m) :	0.000m
8.666m,	-0.023m	90% (8.910m) :	0.039m
7.425m,	-0.039m	80% (7.920m) :	0.073m
6.180m,	-0.046m	70% (6.930m) :	0.096m
4.950m,	-0.047m	60% (5.940m) :	0.108m
3.689m,	-0.044m	50% (4.950m) :	0.111m
2.475m,	-0.035m	40% (3.960m) :	0.107m
1.234m,	-0.020m	30% (2.970m) :	0.092m
0.000m,	0.000m	20% (1.980m) :	0.066m
		10% (0.990m) :	0.033m
		0% (0.000m) :	0.000m

Mainsail: 7001008 Sindre Mainsail.des



Seam Allowances			
	Split	Radial	Cross
Zone: 1/a	0.030m	0.015m	0.030m
Zone: 1/b	0.030m	0.015m	0.030m
Zone: 2/a	0.030m	0.015m	0.030m
Zone: 2/b	0.030m	0.015m	0.030m
Zone: 3/a	0.030m	0.015m	0.030m
Zone: 3/b	0.030m	0.015m	0.030m
Zone: 4	0.030m	0.015m	0.030m

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

Total Seam Lengths (m)

Horizontal	6.95
Radial/Vertical	76.22
Bi-Radial Split	7.57

Materials

Material	Area (m²)	Panels
Material 1	21.08	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\3,2\4,2b\1 2b\2,2b\3,2b\4,3\1,3\2 3\3,3b\1,3b\2,3b\3,4\1 4\2,4\3,4\4,4\5