

Mainsail: 7001211 Scott-1 Beneteau 10 Mainsail.des

Design Info
=====

Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7001211 Scott\7001

Initial Design Date: 28/12/2023
Boat:

Comments:

Client:

Design Data
=====

Main

Measurements

Luff geodesic:	9.000m
Leech geodesic:	9.620m
Foot geodesic:	3.160m
Head geodesic:	0.115m
Upper width (MUW):	0.618m
Three-quarter width (MTW):	1.115m
Half width (MHW):	1.956m
Quarter width (MQW):	2.624m
Foot median:	9.282m
ORC Mainsail area:	16.501m?
Surface area:	16.960m?
Clew height:	-0.053m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.971m	0.175m	70.043?	7.206m	7.668m	Full
60.000%	1.687m	0.239m	70.043?	5.411m	5.751m	Full
40.000%	2.276m	0.210m	70.043?	3.616m	3.834m	Full
20.000%	2.755m	0.121m	70.043?	1.820m	1.917m	Full

Reefing Points

- 1, Luff: 1.098m ; Leech: 1.149m ; Offset: 0.000m ; Number Eyelets: 2
- 2, Luff: 2.386m ; Leech: 2.495m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

- 1, Luff: 2.971m ; Leech: 3.150m ;
- 2, Luff: 5.941m ; Leech: 6.271m ;

Luff Slides

- 1, Position: 0.607m
- 2, Position: 1.323m
- 3, Position: 2.288m
- 4, Position: 3.017m
- 5, Position: 4.214m
- 6, Position: 4.813m
- 7, Position: 6.009m
- 8, Position: 6.608m
- 9, Position: 7.804m
- 10, Position: 8.402m

Luff Curve

		Fanned Luff (@ 5.00% [0.157m])	Before BSeam
9.000m,	0.000m	100% (9.000m) :	0.000m
7.878m,	-0.021m	90% (8.100m) :	0.013m
6.750m,	-0.036m	80% (7.200m) :	0.023m
5.619m,	-0.042m	70% (6.300m) :	0.028m
4.500m,	-0.043m	60% (5.400m) :	0.030m
3.353m,	-0.040m	50% (4.500m) :	0.030m
2.250m,	-0.032m	40% (3.600m) :	0.028m
1.121m,	-0.018m	30% (2.700m) :	0.023m
0.000m,	0.000m	20% (1.800m) :	0.016m
		10% (0.900m) :	0.008m
		0% (0.000m) :	0.000m

Mainsail: 7001211 Scott-1 Beneteau 10 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	4.28
Radial/Vertical	59.10
Bi-Radial Split	5.50

Materials

Material	Area (m ²)	Panels
Material 1	16.99	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1b1 1b2,1b3,1b4,1b5,1b6 1b7,1b8,1b9,2\1,2\2 2\3,2b1,2b2,2b3,3\1 3\2,3\3,3\4

