

Mainsail: 7000922 Scott-1 Pearson 365 Ketch MainsailV1.des

Design Info
=====

Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7000922 Scott\7000

Initial Design Date: 19/10/2023
Boat:

Comments:
tack angle 88.5 degree
MAST RAKE 7 inch

Client:

Design Data
=====

Main

Measurements

Luff geodesic: 417.60In
 Leech geodesic: 436.53In
 Foot geodesic: 139.57In
 Head geodesic: 4.53In
 Upper width (MUW): 26.51In
 Three-quarter width (MTW): 48.20In
 Half width (MHW): 85.65In
 Quarter width (MQW): 116.00In
 Foot median: 426.60In
 ORC Mainsail area: 233.410Ft²
 Surface area: 239.181Ft²
 Clew height: 3.94In
 Mast rake: 7.00In

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	27.56In	7.02In	73.439?	333.93In	348.17In	
60.000%	37.40In	10.00In	73.439?	250.46In	261.13In	
40.000%	37.40In	9.20In	73.439?	167.00In	174.09In	
20.000%	33.46In	5.31In	73.439?	83.55In	87.04In	

Reefing Points

1, Luff: 52.18In ; Leech: 53.91In ; Offset: 0.00In ; Number Eyelets: 2
 2, Luff: 102.28In ; Leech: 105.57In ; Offset: 0.00In ; Number Eyelets: 2

Draft Stripes

1, Luff: 137.77In ; Leech: 141.20In ;
 2, Luff: 275.56In ; Leech: 284.94In ;

Luff Slides

1, Position: 41.76In
 2, Position: 83.53In
 3, Position: 125.25In
 4, Position: 166.97In
 5, Position: 208.70In
 6, Position: 250.43In
 7, Position: 292.17In
 8, Position: 333.91In
 9, Position: 375.75In

Luff Curve

		Fanned Luff (@ 5.00% [6.96In])	Before BSeam
417.59In,	0.00In	100% (417.60In) :	0.00In
365.55In,	-0.96In	90% (375.85In) :	0.59In
313.19In,	-1.65In	80% (334.08In) :	1.09In
260.70In,	-1.95In	70% (292.32In) :	1.37In
208.79In,	-1.98In	60% (250.56In) :	1.47In
155.60In,	-1.84In	50% (208.80In) :	1.47In
104.40In,	-1.47In	40% (167.04In) :	1.38In
52.04In,	-0.83In	30% (125.28In) :	1.19In
0.00In,	0.00In	20% (83.52In) :	0.87In
		10% (41.76In) :	0.42In
		0% (0.00In) :	0.00In

Mainsail: 7000922 Scott-1 Pearson 365 Ketch MainsailV1.des

Seam Allowances			
Zone:	Split	Radial	Cross
1	0.360In	0.360In	0.360In

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

Total Seam Lengths (In)

Horizontal	783.45
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
Material 1	239.07	1,2,3,4,5 6,7,8,9,10

