

Mainsail: 7000709 Justin Grand Soleil 40 4D Membrane Main.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000709 Justin\7000709

Initial Design Date: 18/10/2010
Boat:
DIVA 39 MAINSAIL DEN 76
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 570.87In
Leech geodesic: 598.82In
Foot geodesic: 205.51In
Head geodesic: 5.91In
Upper width (MUW): 37.21In
Three-quarter width (MTW): 68.66In
Half width (MHW): 124.27In
Quarter width (MQW): 169.46In
Foot median: 581.08In
ORC Mainsail area: 463.874Ft?
Surface area: 472.941Ft?
Clew height: 3.09In
Mast rake: 19.69In

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	57.84In	7.55In	73.231?	457.85In	478.18In	Full
60.000%	105.17In	11.22In	73.231?	343.24In	358.64In	Full
40.000%	145.04In	10.49In	73.231?	228.67In	239.09In	Full
20.000%	177.63In	6.40In	73.231?	114.12In	119.55In	Full

Reefing Points

1, Luff: 71.29In ; Leech: 73.76In ; Offset: 0.00In ; Number Eyelets: 2
2, Luff: 151.15In ; Leech: 156.29In ; Offset: 0.00In ; Number Eyelets: 2

Draft Stripes

1, Luff: 142.59In ; Leech: 144.80In ;
2, Luff: 285.24In ; Leech: 293.61In ;
3, Luff: 427.97In ; Leech: 443.88In ;

Luff Curve

		Fanned Luff (@ 5.00% [10.24In])	Before BSeam
570.81In,	0.00In	100% (570.86In) :	0.00In
428.11In,	-3.48In	90% (513.79In) :	1.04In
285.41In,	-4.63In	80% (456.68In) :	2.20In
142.70In,	-3.42In	70% (399.61In) :	3.02In
0.00In,	0.00In	60% (342.52In) :	3.44In
		50% (285.43In) :	3.54In
		40% (228.34In) :	3.37In
		30% (171.25In) :	2.90In
		20% (114.16In) :	2.05In
		10% (57.10In) :	0.97In
		0% (0.00In) :	0.00In

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Seam Allowances			
Zone:	Split	Radial	Cross
1	3.150In	3.150In	3.150In

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

Total Seam Lengths (In)

Horizontal	0.00
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
Material 1	423.90	1

