

# Mainsail: 8000125 Hugueny Irwin 38 Citation Stdmai.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000125 Hugueny

Initial Design Date: 26/1/2024  
Boat:

Comments:

Client:

Design Data  
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Main

Measurements

Luff geodesic:	12.276m
Leech geodesic:	12.860m
Foot geodesic:	3.950m
Head geodesic:	0.135m
Upper width (MUW):	0.795m
Three-quarter width (MTW):	1.423m
Half width (MHW):	2.468m
Quarter width (MQW):	3.296m
Foot median:	12.457m
ORC Mainsail area:	28.346m?
Surface area:	28.871m?
Clew height:	0.071m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	0.800m	0.238m	73.713?	10.061m	10.516m	
62.000%	1.050m	0.334m	73.713?	7.607m	7.951m	
42.000%	1.050m	0.301m	73.713?	5.152m	5.386m	
22.000%	0.950m	0.174m	73.713?	2.698m	2.821m	

Reefing Points

- 1, Luff: 1.497m ; Leech: 1.543m ; Offset: 0.000m ; Number Eyelets: 0
- 2, Luff: 3.253m ; Leech: 3.349m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

- 1, Luff: 3.068m ; Leech: 3.098m ;
- 2, Luff: 6.137m ; Leech: 6.283m ;
- 3, Luff: 9.206m ; Leech: 9.504m ;

Luff Curve

		Fanned Luff (@ 5.00% [0.197m])	Before BSeam
12.276m,	0.000m	100% (12.276m) :	0.000m
10.746m,	-0.030m	90% (11.049m) :	0.019m
9.207m,	-0.051m	80% (9.821m) :	0.034m
7.664m,	-0.060m	70% (8.593m) :	0.042m
6.138m,	-0.061m	60% (7.366m) :	0.045m
4.574m,	-0.057m	50% (6.138m) :	0.045m
3.069m,	-0.045m	40% (4.910m) :	0.042m
1.530m,	-0.026m	30% (3.683m) :	0.036m
0.000m,	0.000m	20% (2.455m) :	0.026m
		10% (1.228m) :	0.013m
		0% (0.000m) :	0.000m

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## Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.032m	0.016m	0.040m
Zone: 1/b	0.032m	0.016m	0.040m
Zone: 2/a	0.032m	0.016m	0.040m
Zone: 2/b	0.032m	0.016m	0.040m
Zone: 3	0.032m	0.016m	0.040m

## Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

## Total Seam Lengths (m)

Horizontal	5.10
Radial/Vertical	123.86
Bi-Radial Split	8.36

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	28.89	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1\11,1\12,1b\1,1b\2,1b\3 1b\4,1b\5,1b\6,1b\7,1b\8 1b\9,1b\10,1b\11,1b\12,2\1 2\2,2\3,2\4,2\5,2b\1 2b\2,2b\3,2b\4,2b\5,3\1 3\2,3\3,3\4,3\5,3\6

