

Mainsail: 8000502 Dennis Dufour35 cc main.des

Job Number:

Design Info

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Job No:
 Initial Design Date: 7/5/2024
 Boat:
 Dufour 35
 Client:

Design File:

\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000502 Dennis D

Comments:

Design Data

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Main

Measurements

Luff geodesic: 35.144Ft
 Leech geodesic: 36.729Ft
 Foot geodesic: 12.871Ft
 Head geodesic: 0.377Ft
 Upper width (MUW): 2.403Ft
 Three-quarter width (MTW): 4.411Ft
 Half width (MHW): 7.852Ft
 Quarter width (MQW): 10.599Ft
 Foot median: 35.686Ft
 ORC Mainsail area: 259.097Ft?
 Surface area: 264.877Ft?
 Clew height: 0.310Ft
 Mast rake: 1.804Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
81.000%	3.652Ft	0.653Ft	74.037?	28.437Ft	29.617Ft	Full
61.000%	6.622Ft	0.922Ft	74.037?	21.414Ft	22.304Ft	Full
41.000%	3.445Ft	0.791Ft	74.037?	14.392Ft	14.991Ft	
21.000%	3.445Ft	0.458Ft	74.037?	7.371Ft	7.679Ft	

Reefing Points

1, Luff: 4.636Ft ; Leech: 4.783Ft ; Offset: 0.000Ft ; Number Eyelets: 3
 2, Luff: 9.659Ft ; Leech: 9.949Ft ; Offset: 0.000Ft ; Number Eyelets: 3

Draft Stripes

1, Luff: 11.591Ft ; Leech: 11.700Ft ;
 2, Luff: 23.187Ft ; Leech: 23.774Ft ;

Luff Slides

1, Position: 2.168Ft
 2, Position: 4.128Ft
 3, Position: 6.572Ft
 4, Position: 9.040Ft
 5, Position: 11.853Ft
 6, Position: 14.393Ft
 7, Position: 16.734Ft
 8, Position: 19.075Ft
 9, Position: 23.757Ft
 10, Position: 26.098Ft
 11, Position: 30.674Ft
 12, Position: 32.909Ft

Luff Curve

		Fanned Luff (@ 5.00% [0.641Ft])	Before BSeam
35.143Ft,	0.000Ft	100% (35.144Ft) :	0.000Ft
30.763Ft,	-0.081Ft	90% (31.630Ft) :	0.137Ft
26.357Ft,	-0.139Ft	80% (28.115Ft) :	0.262Ft
21.940Ft,	-0.164Ft	70% (24.601Ft) :	0.355Ft
17.571Ft,	-0.167Ft	60% (21.086Ft) :	0.404Ft
13.094Ft,	-0.155Ft	50% (17.572Ft) :	0.412Ft
8.786Ft,	-0.124Ft	40% (14.057Ft) :	0.383Ft
4.379Ft,	-0.070Ft	30% (10.543Ft) :	0.324Ft
0.000Ft,	0.000Ft	20% (7.028Ft) :	0.232Ft
		10% (3.515Ft) :	0.113Ft
		0% (0.000Ft) :	0.000Ft

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.098Ft	0.098Ft	0.098Ft

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

Total Seam Lengths (Ft)

Horizontal	73.51
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
Material 1	264.99	1,2,3,4,5 6,7,8,9,10

