

Genoa: 7001016 Ellen Headsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7001016 Ellen\7001

Initial Design Date: 27/10/2023
Boat:

Comments:

Client:

Design Data
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Genoa

Measurements

Luff geodesic:	48.261Ft
Leech geodesic:	46.240Ft
Foot geodesic:	22.408Ft
Headboard width:	0.112Ft
Luff perpendicular (HLP):	21.370Ft
Upper width (HUW):	2.313Ft
Three-quarter width (HTW):	4.661Ft
Half width (HHW):	9.834Ft
Quarter width (HQW):	15.514Ft
Foot median:	46.613Ft
ORC Headsail area:	493.738Ft?
IRC Headsail area:	491.942Ft?
Surface area:	496.806Ft?
Forestay height:	50.580Ft
J:	15.830Ft

Draft Stripes

- 1, Luff: 12.120Ft ; Leech: 11.216Ft ;
- 2, Luff: 24.236Ft ; Leech: 22.933Ft ;
- 3, Luff: 36.303Ft ; Leech: 34.493Ft ;

Luff Curve

48.252Ft,	0.000Ft
44.242Ft,	0.164Ft
39.808Ft,	0.296Ft
35.904Ft,	0.364Ft
31.365Ft,	0.390Ft
24.012Ft,	0.342Ft
15.682Ft,	0.232Ft
8.156Ft,	0.116Ft
0.000Ft,	0.000Ft

Fanned Luff (@ 5.00% [1.093Ft])

100% (48.253Ft) :	0.000Ft	-0.000Ft
90% (43.423Ft) :	-0.185Ft	-0.038Ft
80% (38.609Ft) :	-0.315Ft	-0.034Ft
70% (33.779Ft) :	-0.379Ft	0.009Ft
60% (28.954Ft) :	-0.382Ft	0.075Ft
50% (24.128Ft) :	-0.346Ft	0.142Ft
40% (19.303Ft) :	-0.289Ft	0.190Ft
30% (14.476Ft) :	-0.221Ft	0.206Ft
20% (9.653Ft) :	-0.148Ft	0.180Ft
10% (4.821Ft) :	-0.075Ft	0.108Ft
0% (0.000Ft) :	0.000Ft	0.000Ft

Before BSeam

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1	0.148Ft	0.148Ft	0.148Ft
Cover 1	0.082Ft	0.082Ft	0.082Ft
Cover 2	0.082Ft	0.082Ft	0.082Ft
Cover 3	0.000Ft	0.000Ft	0.000Ft
Cover 4	0.000Ft	0.000Ft	0.000Ft

Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000Ft	0.000Ft	0.000Ft
Cover 0	0.230Ft	0.328Ft	0.230Ft
Cover 1	0.230Ft	0.230Ft	0.328Ft
Cover 2	0.000Ft	0.230Ft	0.230Ft
Cover 3	0.000Ft	0.230Ft	0.230Ft

Total Seam Lengths (Ft)

Horizontal	129.19
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
Material 1	497.60	1,2,3,4,5 6,7,8,9,10 11,12

