

Genoa: 8000818 Paul Tartan 41 Headsail.des

Design Info

=====

Design File:

\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000818 Paul Tartan

Initial Design Date: 29/8/2024

Boat:

Tartan 41

Client:

Comments:

Design Data

=====

Genoa

Measurements

Luff geodesic:	53.040Ft
Leech geodesic:	52.500Ft
Foot geodesic:	20.250Ft
Headboard width:	0.164Ft
Luff perpendicular (HLP):	19.817Ft
Upper width (HUW):	2.071Ft
Three-quarter width (HTW):	4.187Ft
Half width (HHW):	9.060Ft
Quarter width (HQW):	14.349Ft
Foot median:	52.385Ft
ORC Headsail area:	500.564Ft?
IRC Headsail area:	498.349Ft?
Surface area:	501.458Ft?
Forestay height:	53.750Ft
J:	15.000Ft

Draft Stripes

1, Luff: 13.313Ft ; Leech: 13.917Ft ;
2, Luff: 26.623Ft ; Leech: 26.775Ft ;
3, Luff: 39.885Ft ; Leech: 39.537Ft ;

Luff Curve

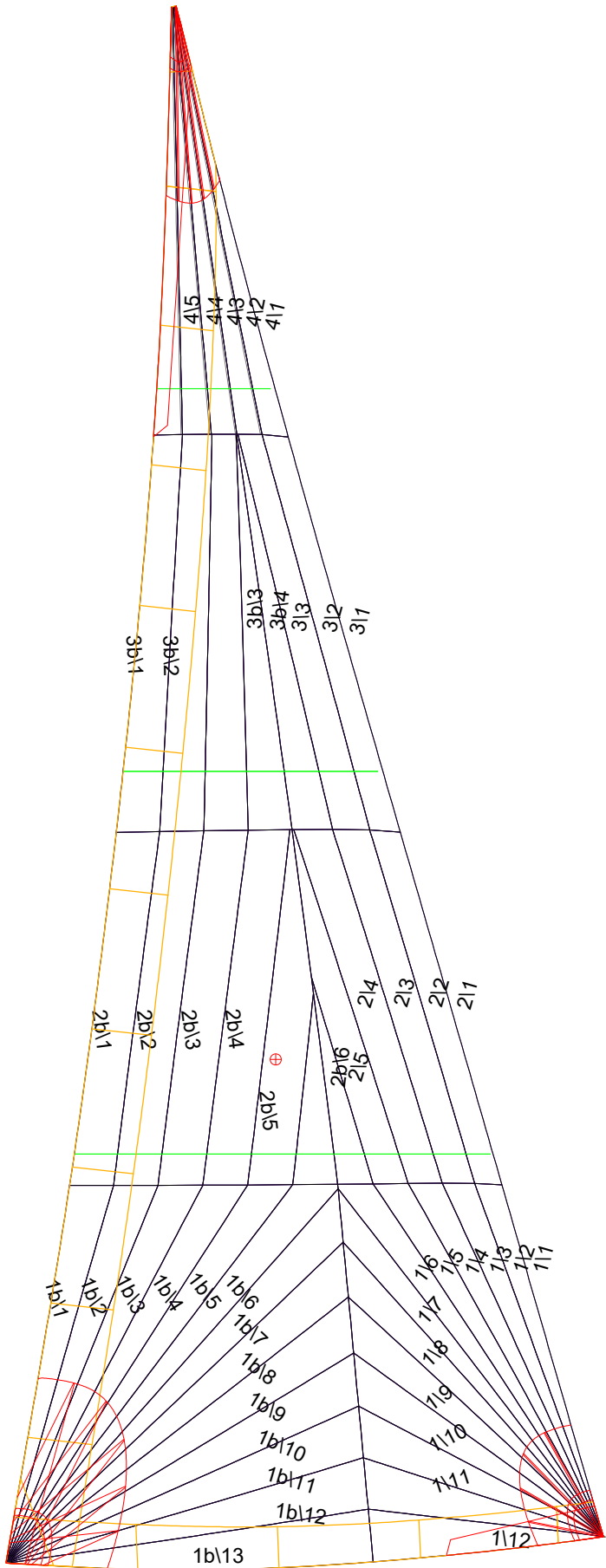
53.030Ft,	0.000Ft
48.623Ft,	0.180Ft
43.750Ft,	0.325Ft
39.460Ft,	0.400Ft
34.471Ft,	0.429Ft
26.390Ft,	0.376Ft
17.235Ft,	0.255Ft
8.964Ft,	0.128Ft
0.000Ft,	0.000Ft

Fanned Luff (@ 5.00% [0.997Ft])

100% (53.031Ft) :	-0.000Ft	0.000Ft
90% (47.720Ft) :	-0.212Ft	-0.105Ft
80% (42.434Ft) :	-0.350Ft	-0.141Ft
70% (37.124Ft) :	-0.410Ft	-0.108Ft
60% (31.822Ft) :	-0.410Ft	-0.038Ft
50% (26.517Ft) :	-0.368Ft	0.041Ft
40% (21.214Ft) :	-0.303Ft	0.108Ft
30% (15.910Ft) :	-0.229Ft	0.145Ft
20% (10.609Ft) :	-0.156Ft	0.132Ft
10% (5.299Ft) :	-0.082Ft	0.070Ft
0% (0.000Ft) :	0.000Ft	0.000Ft

Before BSeam

Genoa: 8000818 Paul Tartan 41 Headsail.des



Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.000Ft	0.000Ft	0.000Ft
Zone: 1/b	0.000Ft	0.000Ft	0.000Ft
Zone: 2/a	0.000Ft	0.000Ft	0.000Ft
Zone: 2/b	0.000Ft	0.000Ft	0.000Ft
Zone: 3/a	0.000Ft	0.000Ft	0.000Ft
Zone: 3/b	0.000Ft	0.000Ft	0.000Ft
Zone: 4	0.125Ft	0.049Ft	0.125Ft
Cover 1	0.082Ft	0.082Ft	0.082Ft
Cover 2	0.000Ft	0.000Ft	0.000Ft
Cover 3	0.000Ft	0.000Ft	0.000Ft
Cover 4	0.082Ft	0.082Ft	0.082Ft

Edge Excesses

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

Total Seam Lengths (Ft)

Horizontal	0.00
Radial/Vertical	57.85
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
Material 1	501.96	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\12,1b\13 2\1,2\2,2\3,2\4,2\5 2b\6,2b\5,2b\4,2b\3,2b\2 2b\1,3\1,3\2,3\3,3b\4 3b\3,3b\2,3b\1,4\1,4\2 4\3,4\4,4\5