

Genoa: 8001214 Patrick Tartan 28 headsail.des

Design Info

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Design File:

\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2025 Orders\Need to be Confirmed\8001214 Patrick T

Initial Design Date: 3/1/2025

Boat:

Tartan 28

Client:

Comments:

Design Data

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Genoa

Measurements

Luff geodesic:	11.125m
Leech geodesic:	10.721m
Foot geodesic:	5.511m
Headboard width:	0.050m
Luff perpendicular (HLP):	5.258m
Upper width (HUW):	0.619m
Three-quarter width (HTW):	1.218m
Half width (HHW):	2.513m
Quarter width (HQW):	3.869m
Foot median:	10.843m
ORC Headsail area:	28.577m?
IRC Headsail area:	28.508m?
Surface area:	29.158m?
Forestay height:	11.582m
J:	3.505m

Draft Stripes

1, Luff: 2.795m ; Leech: 2.564m ;
2, Luff: 5.582m ; Leech: 5.290m ;
3, Luff: 8.360m ; Leech: 7.985m ;

Luff Curve

11.124m,	0.000m
8.893m,	0.047m
6.664m,	0.065m
4.439m,	0.059m
2.217m,	0.037m
0.000m,	0.000m

Fanned Luff (@ 5.00% [0.269m])

100% (11.124m) :	-0.000m	0.000m
90% (10.011m) :	-0.024m	0.010m
80% (8.900m) :	-0.047m	0.020m
70% (7.787m) :	-0.062m	0.032m
60% (6.675m) :	-0.068m	0.045m
50% (5.562m) :	-0.068m	0.055m
40% (4.450m) :	-0.064m	0.058m
30% (3.337m) :	-0.055m	0.055m
20% (2.225m) :	-0.041m	0.043m
10% (1.111m) :	-0.022m	0.024m
0% (0.000m) :	0.000m	0.000m

Before BSeam

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.035m	0.015m	0.035m
Zone: 1/b	0.035m	0.015m	0.035m
Zone: 2/a	0.035m	0.015m	0.035m
Zone: 2/b	0.035m	0.015m	0.035m
Zone: 3	0.035m	0.015m	0.035m

Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	5.33
Radial/Vertical	90.67
Bi-Radial Split	7.55

Materials

Material	Area (m ²)	Panels
Material 2	29.19	1-1,1-2,1-3,1-4,1-5 1-6,1-7,1-8,1-9,1b-1 1b-2,1b-3,1b-4,1b-5,1b-6 1b-7,1b-8,1b-9,1b-10,2-1 2-2,2-3,2b-1,2b-2,2b-3 2b-4,3-1,3-2,3-3,3-4 3-5

