

Mainsail: 7000715 James-1 Tayana Vancouver 42 STD fullbatMain.des

Design Info
=====

Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000715 James\7000

Initial Design Date: 2/8/2023
Boat:

Comments:

Client:

Design Data
=====

Main

Measurements

Luff geodesic:	14.710m
Leech geodesic:	15.417m
Foot geodesic:	5.039m
Head geodesic:	0.137m
Upper width (MUW):	0.922m
Three-quarter width (MTW):	1.694m
Half width (MHW):	3.043m
Quarter width (MQW):	4.124m
Foot median:	15.045m
ORC Mainsail area:	42.116m?
Surface area:	43.006m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.322m	0.209m	72.920?	12.057m	12.605m	Full
62.000%	2.486m	0.303m	72.920?	9.117m	9.530m	Full
42.000%	3.450m	0.276m	72.920?	6.177m	6.456m	Full
22.000%	4.255m	0.168m	72.920?	3.238m	3.382m	Full

Reefing Points

- 1, Luff: 1.985m ; Leech: 2.062m ; Offset: 0.000m ; Number Eyelets: 3
- 2, Luff: 3.897m ; Leech: 4.042m ; Offset: 0.000m ; Number Eyelets: 3
- 3, Luff: 5.809m ; Leech: 6.025m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

- 1, Luff: 4.853m ; Leech: 4.935m ;
- 2, Luff: 9.707m ; Leech: 10.035m ;

Luff Slides

- 1, Position: 1.079m
- 2, Position: 2.468m
- 3, Position: 4.548m
- 4, Position: 5.454m
- 5, Position: 7.157m
- 6, Position: 8.137m
- 7, Position: 10.097m
- 8, Position: 11.077m
- 9, Position: 12.941m
- 10, Position: 13.826m

Luff Curve

		Fanned Luff (@ 5.00% [0.251m])	Before BSeam
14.709m,	0.000m	100% (14.710m) :	0.000m
12.876m,	-0.034m	90% (13.239m) :	0.019m
11.032m,	-0.058m	80% (11.768m) :	0.036m
9.183m,	-0.069m	70% (10.297m) :	0.046m
7.355m,	-0.070m	60% (8.826m) :	0.048m
5.481m,	-0.065m	50% (7.355m) :	0.047m
3.677m,	-0.052m	40% (5.884m) :	0.044m
1.833m,	-0.029m	30% (4.413m) :	0.037m
0.000m,	0.000m	20% (2.942m) :	0.027m
		10% (1.471m) :	0.014m
		0% (0.000m) :	0.000m

Mainsail: 7000715 James-1 Tayana Vancouver 42 STD fullbatMain.des

Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.040m	0.040m	0.040m

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

Total Seam Lengths (m)

Horizontal	36.26
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	43.06	1,2,3,4,5 6,7,8,9,10 11,12,13

