

# Mainsail: 8000611 Pierre-James-2 Crealock37 Mainsail.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000611 Pierre-Ja

Initial Design Date: 12/7/2024  
Boat:  
Crealock 37  
Client:

Comments:

Design Data  
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Main

Measurements

Luff geodesic: 4.920m  
Leech geodesic: 5.276m  
Foot geodesic: 1.960m  
Head geodesic: 0.105m  
Upper width (MUW): 0.401m  
Three-quarter width (MTW): 0.711m  
Half width (MHW): 1.226m  
Quarter width (MQW): 1.635m  
Foot median: 5.066m  
ORC Mainsail area: 5.658m?  
Surface area: 5.852m?  
Clew height: 0.040m  
Mast rake: 0.000m

Battens

| Position | Length | Roach  | Angle   | Luff   | Leech  | Full |
|----------|--------|--------|---------|--------|--------|------|
| 80.000%  | 0.635m | 0.116m | 69.203? | 3.942m | 4.206m | Full |
| 60.000%  | 1.072m | 0.158m | 69.203? | 2.967m | 3.154m | Full |
| 40.000%  | 1.428m | 0.141m | 69.203? | 1.991m | 2.103m | Full |
| 20.000%  | 1.717m | 0.081m | 69.203? | 1.015m | 1.051m | Full |

Reefing Points

1, Luff: 0.600m ; Leech: 0.625m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 2.460m ; Leech: 2.545m ;

Luff Slides

1, Position: 0.491m  
2, Position: 1.474m  
3, Position: 2.458m  
4, Position: 3.441m  
5, Position: 4.426m

Luff Curve

|         |         | Fanned Luff (@ 5.00% [0.098m]) | Before BSeam |
|---------|---------|--------------------------------|--------------|
| 4.920m, | 0.000m  | 100% (4.920m) :                | 0.000m       |
| 4.307m, | -0.011m | 90% (4.428m) :                 | 0.007m       |
| 3.690m, | -0.019m | 80% (3.936m) :                 | 0.013m       |
| 3.071m, | -0.023m | 70% (3.444m) :                 | 0.016m       |
| 2.460m, | -0.023m | 60% (2.952m) :                 | 0.017m       |
| 1.833m, | -0.022m | 50% (2.460m) :                 | 0.017m       |
| 1.230m, | -0.017m | 40% (1.968m) :                 | 0.016m       |
| 0.613m, | -0.010m | 30% (1.476m) :                 | 0.013m       |
| 0.000m, | 0.000m  | 20% (0.984m) :                 | 0.009m       |
|         |         | 10% (0.492m) :                 | 0.004m       |
|         |         | 0% (0.000m) :                  | 0.000m       |

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| Seam Allowances |        |        |        |
|-----------------|--------|--------|--------|
| Zone:           | Split  | Radial | Cross  |
| 1               | 0.025m | 0.025m | 0.025m |

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

Total Seam Lengths (m)

|                 |      |
|-----------------|------|
| Horizontal      | 6.66 |
| Radial/Vertical | 0.00 |
| Bi-Radial Split | 0.00 |

Materials

| Material   | Area (m <sup>2</sup> ) | Panels         |
|------------|------------------------|----------------|
| Material 1 | 5.82                   | 1,2,3,4,5<br>6 |

