

# Mainsail: 8000235 Michael Hunter 37 MainsailV1.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000235 Michael H

Initial Design Date: 6/3/2024  
Boat:

Comments:

Client:

Design Data  
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Main

Measurements

Luff geodesic: 12.370m  
 Leech geodesic: 12.913m  
 Foot geodesic: 3.923m  
 Head geodesic: 0.115m  
 Upper width (MUW): 0.741m  
 Three-quarter width (MTW): 1.351m  
 Half width (MHW): 2.400m  
 Quarter width (MQW): 3.249m  
 Foot median: 12.615m  
 ORC Mainsail area: 27.903m?  
 Surface area: 28.530m?  
 Clew height: 0.100m  
 Mast rake: 0.000m

Battens

| Position | Length | Roach  | Angle   | Luff   | Leech   | Full |
|----------|--------|--------|---------|--------|---------|------|
| 80.000%  | 1.157m | 0.195m | 74.070? | 9.895m | 10.300m | Full |
| 60.000%  | 2.046m | 0.268m | 74.070? | 7.424m | 7.725m  | Full |
| 40.000%  | 1.200m | 0.245m | 74.070? | 4.954m | 5.150m  |      |
| 20.000%  | 1.200m | 0.140m | 74.070? | 2.485m | 2.575m  |      |

Reefing Points

1, Luff: 1.509m ; Leech: 1.554m ; Offset: 0.000m ; Number Eyelets: 3  
 2, Luff: 3.401m ; Leech: 3.502m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 3.092m ; Leech: 3.097m ;  
 2, Luff: 6.184m ; Leech: 6.313m ;  
 3, Luff: 9.276m ; Leech: 9.557m ;

Luff Slides

1, Position: 0.934m  
 2, Position: 1.844m  
 3, Position: 2.508m  
 4, Position: 3.201m  
 5, Position: 4.121m  
 6, Position: 4.945m  
 7, Position: 5.769m  
 8, Position: 6.594m  
 9, Position: 8.242m  
 10, Position: 9.067m  
 11, Position: 10.717m  
 12, Position: 11.544m

Luff Curve

|          |         | Fanned Luff (@ 5.00% [0.195m]) | Before BSeam |
|----------|---------|--------------------------------|--------------|
| 12.370m, | 0.000m  | 100% (12.370m) :               | 0.000m       |
| 10.828m, | -0.028m | 90% (11.133m) :                | 0.017m       |
| 9.277m,  | -0.048m | 80% (9.896m) :                 | 0.030m       |
| 7.722m,  | -0.057m | 70% (8.659m) :                 | 0.037m       |
| 6.185m,  | -0.058m | 60% (7.422m) :                 | 0.040m       |
| 4.609m,  | -0.054m | 50% (6.185m) :                 | 0.040m       |
| 3.092m,  | -0.043m | 40% (4.948m) :                 | 0.037m       |
| 1.541m,  | -0.024m | 30% (3.711m) :                 | 0.031m       |
| 0.000m,  | 0.000m  | 20% (2.474m) :                 | 0.023m       |
|          |         | 10% (1.237m) :                 | 0.011m       |
|          |         | 0% (0.000m) :                  | 0.000m       |

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| Seam Allowances |        |        |        |
|-----------------|--------|--------|--------|
| Zone:           | Split  | Radial | Cross  |
| 1               | 0.035m | 0.035m | 0.035m |

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

Total Seam Lengths (m)

|                 |       |
|-----------------|-------|
| Horizontal      | 24.75 |
| Radial/Vertical | 0.00  |
| Bi-Radial Split | 0.00  |

Materials

| Material   | Area (m <sup>2</sup> ) | Panels                        |
|------------|------------------------|-------------------------------|
| Material 1 | 28.52                  | 1,2,3,4,5<br>6,7,8,9,10<br>11 |

