

Mainsail: 8000204 James Westerly Corsair 36 STDmain.des

Design Info

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Design File:

\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000204 James W

Initial Design Date: 19/2/2024

Boat:

Comments:

Client:

Design Data

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Main

Measurements

Luff geodesic: 12.058m
Leech geodesic: 12.684m
Foot geodesic: 4.187m
Head geodesic: 0.135m
Upper width (MUW): 0.759m
Three-quarter width (MTW): 1.376m
Half width (MHW): 2.461m
Quarter width (MQW): 3.405m
Foot median: 12.243m
ORC Mainsail area: 28.349m?
Surface area: 28.729m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

| Position | Length | Roach | Angle | Luff | Leech | Full |
|----------|--------|--------|---------|--------|---------|------|
| 80.000% | 0.880m | 0.153m | 72.711? | 9.642m | 10.126m | |
| 60.000% | 1.256m | 0.200m | 72.711? | 7.232m | 7.594m | |
| 40.000% | 1.256m | 0.181m | 72.711? | 4.823m | 5.063m | |
| 20.000% | 1.256m | 0.105m | 72.711? | 2.414m | 2.531m | |

Reefing Points

1, Luff: 1.471m ; Leech: 1.529m ; Offset: 0.000m ; Number Eyelets: 3
2, Luff: 3.315m ; Leech: 3.444m ; Offset: 0.000m ; Number Eyelets: 3
3, Luff: 5.244m ; Leech: 5.449m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 3.978m ; Leech: 4.050m ;
2, Luff: 7.957m ; Leech: 8.239m ;

Luff Slides

1, Position: 0.851m
2, Position: 1.772m
3, Position: 2.439m
4, Position: 3.137m
5, Position: 4.020m
6, Position: 4.823m
7, Position: 5.626m
8, Position: 6.429m
9, Position: 7.232m
10, Position: 8.036m
11, Position: 8.839m
12, Position: 9.642m
13, Position: 10.447m
14, Position: 11.253m

Luff Curve

| | | Fanned Luff (@ 5.00% [0.209m]) | Before BSeam |
|----------|---------|--------------------------------|--------------|
| 12.058m, | 0.000m | 100% (12.058m) : | 0.000m |
| 10.555m, | -0.028m | 90% (10.852m) : | 0.042m |
| 9.043m, | -0.048m | 80% (9.646m) : | 0.079m |
| 7.528m, | -0.056m | 70% (8.441m) : | 0.102m |
| 6.029m, | -0.057m | 60% (7.235m) : | 0.115m |
| 4.493m, | -0.053m | 50% (6.029m) : | 0.120m |
| 3.014m, | -0.042m | 40% (4.823m) : | 0.117m |
| 1.503m, | -0.024m | 30% (3.617m) : | 0.105m |
| 0.000m, | 0.000m | 20% (2.411m) : | 0.082m |
| | | 10% (1.206m) : | 0.046m |
| | | 0% (0.000m) : | 0.000m |

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| Seam Allowances | | | |
|-----------------|--------|--------|--------|
| Zone: 1 | Split | Radial | Cross |
| | 0.030m | 0.030m | 0.030m |

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

Total Seam Lengths (m)

| | |
|-----------------|-------|
| Horizontal | 25.29 |
| Radial/Vertical | 0.00 |
| Bi-Radial Split | 0.00 |

Materials

| Material | Area (m ²) | Panels |
|------------|------------------------|-------------------------------|
| Material 1 | 28.72 | 1,2,3,4,5 6,7,8,9,10 11 |

