

# Gaff Sail: 8000326 Chris gaffmainV1.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000326 Chris gaffmainV1.des

Initial Design Date: 11/4/2024  
Boat:

Comments:

Client:

Design Data  
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## Gaff - High Aspect Ratio

### Measurements

Luff Geodesic: 3.594m  
 Leech Geodesic: 8.601m  
 Foot Geodesic: 5.560m  
 Head Geodesic: 4.325m  
 Diagonal Girth: 6.413m  
 Foot Median: 4.446m  
 Girth (50%-50%): 4.474m  
 Surface Area: 26.116m<sup>2</sup>

### Battens

| Position | Length | Roach  | Angle   | Luff   | Leech  | Full |
|----------|--------|--------|---------|--------|--------|------|
| 80.000%  | 0.597m | 0.297m | 90.000? | 2.485m | 6.834m |      |
| 60.000%  | 0.749m | 0.388m | 90.000? | 1.441m | 5.126m |      |
| 40.000%  | 0.749m | 0.320m | 90.000? | 0.520m | 3.417m |      |
| 20.000%  | 0.673m | 0.176m | 90.000? | 0.778m | 1.709m |      |

### Reefing Points

- 1, Luff: 1.067m ; Leech: 1.146m ; Offset: -0.076m ; Number Eyelets: 7
- 2, Luff: 2.134m ; Leech: 2.339m ; Offset: -0.076m ; Number Eyelets: 6
- 3, Luff: 3.200m ; Leech: 3.579m ; Offset: -0.076m ; Number Eyelets: 5

### Luff Slides

- 1, Position: 0.450m
- 2, Position: 0.899m
- 3, Position: 1.348m
- 4, Position: 1.797m
- 5, Position: 2.246m
- 6, Position: 2.695m
- 7, Position: 3.131m

### Luff Curve

|         |         | Fanned Luff (@ 5.00% [0.277m]) | Before BSeam |
|---------|---------|--------------------------------|--------------|
| 3.594m, | 0.000m  | 100% (7.882m) :                | 0.000m       |
| 3.313m, | -0.006m | 90% (7.097m) :                 | 0.122m       |
| 2.695m, | -0.017m | 80% (6.307m) :                 | 0.235m       |
| 1.797m, | -0.022m | 70% (5.520m) :                 | 0.336m       |
| 0.898m, | -0.018m | 60% (4.730m) :                 | 0.423m       |
| 0.426m, | -0.010m | 50% (3.940m) :                 | 0.486m       |
| 0.000m, | 0.000m  | 40% (3.149m) :                 | 0.467m       |
|         |         | 30% (2.361m) :                 | 0.372m       |
|         |         | 20% (1.573m) :                 | 0.260m       |
|         |         | 10% (0.786m) :                 | 0.132m       |
|         |         | 0% (0.000m) :                  | 0.000m       |

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

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

### Total Seam Lengths (m)

|                 |       |
|-----------------|-------|
| Horizontal      | 22.54 |
| Radial/Vertical | 0.00  |
| Bi-Radial Split | 0.00  |

### Materials

| Material   | Area (m <sup>2</sup> ) | Panels           |
|------------|------------------------|------------------|
| Material 1 | 26.03                  | 1,2,3,4,5<br>6,7 |

