

Gaff Sail: 8000326 Chris gaffmainV3.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 gaffmainV3.des

Initial Design Date: 9/5/2024
Boat:

Comments:

Client:

Design Data
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Gaff - High Aspect Ratio

Measurements

Luff Geodesic: 11.791Ft
 Leech Geodesic: 28.219Ft
 Foot Geodesic: 18.242Ft
 Head Geodesic: 14.190Ft
 Diagonal Girth: 21.040Ft
 Foot Median: 14.581Ft
 Girth (50%-50%): 15.282Ft
 Surface Area: 293.500Ft²

Battens

| Position | Length | Roach | Angle | Luff | Leech | Full |
|----------|---------|---------|---------|---------|----------|------|
| 80.000% | 1.958Ft | 1.680Ft | 90.000? | 8.153Ft | 22.379Ft | |
| 60.000% | 2.458Ft | 1.961Ft | 90.000? | 4.729Ft | 16.784Ft | |
| 40.000% | 2.458Ft | 1.530Ft | 90.000? | 1.713Ft | 11.190Ft | |
| 20.000% | 2.208Ft | 0.832Ft | 90.000? | 2.551Ft | 5.595Ft | |

Reefing Points

- 1, Luff: 3.500Ft ; Leech: 3.702Ft ; Offset: -0.250Ft ; Number Eyelets: 7
- 2, Luff: 7.000Ft ; Leech: 7.505Ft ; Offset: -0.250Ft ; Number Eyelets: 6
- 3, Luff: 10.500Ft ; Leech: 11.500Ft ; Offset: -0.250Ft ; Number Eyelets: 5

Luff Slides

- 1, Position: 1.476Ft
- 2, Position: 2.950Ft
- 3, Position: 4.423Ft
- 4, Position: 5.965Ft
- 5, Position: 7.550Ft
- 6, Position: 8.918Ft
- 7, Position: 10.271Ft

Luff Curve

| | | Fanned Luff (@ 5.00% [0.908Ft]) | Before BSeam |
|-----------|----------|---------------------------------|------------------|
| 11.791Ft, | 0.000Ft | 100% (25.858Ft) : | -0.000Ft 0.000Ft |
| 10.871Ft, | -0.020Ft | 90% (23.284Ft) : | 0.300Ft 0.415Ft |
| 8.843Ft, | -0.055Ft | 80% (20.692Ft) : | 0.572Ft 0.794Ft |
| 5.896Ft, | -0.074Ft | 70% (18.108Ft) : | 0.810Ft 1.129Ft |
| 2.948Ft, | -0.058Ft | 60% (15.518Ft) : | 1.022Ft 1.414Ft |
| 1.399Ft, | -0.032Ft | 50% (12.926Ft) : | 1.193Ft 1.622Ft |
| 0.000Ft, | 0.000Ft | 40% (10.329Ft) : | 1.133Ft 1.553Ft |
| | | 30% (7.744Ft) : | 0.879Ft 1.233Ft |
| | | 20% (5.160Ft) : | 0.604Ft 0.860Ft |
| | | 10% (2.580Ft) : | 0.309Ft 0.436Ft |
| | | 0% (0.000Ft) : | 0.000Ft 0.000Ft |

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| Seam Allowances | | | |
|-----------------|---------|---------|---------|
| Zone: 1 | Split | Radial | Cross |
| | 0.082Ft | 0.082Ft | 0.082Ft |

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

Total Seam Lengths (Ft)

| | |
|-----------------|-------|
| Horizontal | 78.33 |
| Radial/Vertical | 0.00 |
| Bi-Radial Split | 0.00 |

Materials

| Material | Area (Ft ²) | Panels |
|------------|-------------------------|------------------|
| Material 1 | 292.01 | 1,2,3,4,5 6,7 |

