

Mainsail: 8000429 Yngve Bavaria 40 fullbattmain.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000429 Yngve Bavaria

Initial Design Date: 14/5/2024
Boat:
Bavaria 40
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 13.939m
Leech geodesic: 14.687m
Foot geodesic: 4.850m
Head geodesic: 0.135m
Upper width (MUW): 0.962m
Three-quarter width (MTW): 1.752m
Half width (MHW): 3.042m
Quarter width (MQW): 4.043m
Foot median: 14.262m
ORC Mainsail area: 39.509m?
Surface area: 40.549m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

| Position | Length | Roach | Angle | Luff | Leech | Full |
|----------|--------|--------|---------|---------|---------|------|
| 82.000% | 1.413m | 0.333m | 72.712? | 11.424m | 11.999m | Full |
| 62.000% | 2.537m | 0.433m | 72.712? | 8.637m | 9.072m | Full |
| 42.000% | 3.441m | 0.381m | 72.712? | 5.850m | 6.146m | Full |
| 22.000% | 4.165m | 0.220m | 72.712? | 3.064m | 3.219m | Full |

Reefing Points

1, Luff: 1.700m ; Leech: 1.760m ; Offset: 0.000m ; Number Eyelets: 3
2, Luff: 3.553m ; Leech: 3.672m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 3.484m ; Leech: 3.492m ;
2, Luff: 6.968m ; Leech: 7.131m ;
3, Luff: 10.453m ; Leech: 10.814m ;

Luff Slides

1, Position: 1.021m
2, Position: 2.043m
3, Position: 3.993m
4, Position: 4.921m
5, Position: 6.779m
6, Position: 7.708m
7, Position: 9.566m
8, Position: 10.495m
9, Position: 12.262m
10, Position: 13.101m

Luff Curve

| | | Fanned Luff (@ 5.00% [0.242m]) | Before BSeam |
|----------|---------|--------------------------------|--------------|
| 13.939m, | 0.000m | 100% (13.939m) : | 0.000m |
| 12.202m, | -0.032m | 90% (12.545m) : | 0.051m |
| 10.454m, | -0.055m | 80% (11.151m) : | 0.101m |
| 8.702m, | -0.065m | 70% (9.757m) : | 0.137m |
| 6.969m, | -0.066m | 60% (8.363m) : | 0.155m |
| 5.194m, | -0.061m | 50% (6.970m) : | 0.158m |
| 3.485m, | -0.049m | 40% (5.576m) : | 0.149m |
| 1.737m, | -0.028m | 30% (4.182m) : | 0.125m |
| 0.000m, | 0.000m | 20% (2.788m) : | 0.089m |
| | | 10% (1.394m) : | 0.044m |
| | | 0% (0.000m) : | 0.000m |

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| Seam Allowances | | | |
|-----------------|--------|--------|--------|
| Zone: | Split | Radial | Cross |
| 1 | 0.038m | 0.038m | 0.038m |

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

Total Seam Lengths (m)

| | |
|-----------------|-------|
| Horizontal | 34.33 |
| Radial/Vertical | 0.00 |
| Bi-Radial Split | 0.00 |

Materials

| Material | Area (m ²) | Panels |
|------------|------------------------|----------------------------------|
| Material 1 | 40.58 | 1,2,3,4,5 6,7,8,9,10 11,12 |

