

# Mainsail: 8000715 Marko Beneteau First 35 fullbattmainV1.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000715 Marko B

Initial Design Date: 13/9/2024  
Boat:  
Beneteau First 35  
Client:

Comments:

Design Data  
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Main

Measurements

|                            |          |
|----------------------------|----------|
| Luff geodesic:             | 13.761m  |
| Leech geodesic:            | 14.502m  |
| Foot geodesic:             | 4.752m   |
| Head geodesic:             | 0.135m   |
| Upper width (MUW):         | 0.871m   |
| Three-quarter width (MTW): | 1.603m   |
| Half width (MHW):          | 2.870m   |
| Quarter width (MQW):       | 3.899m   |
| Foot median:               | 14.082m  |
| ORC Mainsail area:         | 37.209m? |
| Surface area:              | 38.022m? |
| Clew height:               | 0.100m   |
| Mast rake:                 | 0.000m   |

Battens

| Position | Length | Roach  | Angle   | Luff    | Leech   | Full |
|----------|--------|--------|---------|---------|---------|------|
| 83.333%  | 1.166m | 0.291m | 70.896? | 11.484m | 12.048m | Full |
| 67.667%  | 2.064m | 0.384m | 70.896? | 9.344m  | 9.783m  | Full |
| 50.000%  | 2.907m | 0.359m | 70.896? | 6.930m  | 7.229m  | Full |
| 33.333%  | 3.609m | 0.282m | 70.896? | 4.653m  | 4.819m  | Full |
| 16.667%  | 4.209m | 0.147m | 70.896? | 2.376m  | 2.410m  | Full |

Reefing Points

- 1, Luff: 1.679m ; Leech: 1.745m ; Offset: 0.000m ; Number Eyelets: 3
- 2, Luff: 3.647m ; Leech: 3.786m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

- 1, Luff: 3.440m ; Leech: 3.488m ;
- 2, Luff: 6.743m ; Leech: 6.943m ;
- 3, Luff: 10.321m ; Leech: 10.728m ;

Luff Slides

- 1, Position: 1.377m
- 2, Position: 4.130m
- 3, Position: 6.881m
- 4, Position: 9.633m
- 5, Position: 12.385m

Luff Curve

|          |         | Fanned Luff (@ 5.00% [0.237m]) | Before BSeam |
|----------|---------|--------------------------------|--------------|
| 13.761m, | 0.000m  | 100% (13.761m) :               | 0.000m       |
| 12.046m, | -0.032m | 90% (12.385m) :                | 0.019m       |
| 10.320m, | -0.055m | 80% (11.009m) :                | 0.036m       |
| 8.591m,  | -0.064m | 70% (9.633m) :                 | 0.045m       |
| 6.880m,  | -0.065m | 60% (8.257m) :                 | 0.048m       |
| 5.127m,  | -0.061m | 50% (6.881m) :                 | 0.048m       |
| 3.440m,  | -0.048m | 40% (5.504m) :                 | 0.044m       |
| 1.715m,  | -0.027m | 30% (4.128m) :                 | 0.038m       |
| 0.000m,  | 0.000m  | 20% (2.752m) :                 | 0.028m       |
|          |         | 10% (1.376m) :                 | 0.014m       |
|          |         | 0% (0.000m) :                  | 0.000m       |

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## Seam Allowances

| Zone:     | Split  | Radial | Cross  |
|-----------|--------|--------|--------|
| Zone: 1/a | 0.000m | 0.000m | 0.000m |
| Zone: 1/b | 0.000m | 0.000m | 0.000m |
| Zone: 2/a | 0.000m | 0.000m | 0.000m |
| Zone: 2/b | 0.000m | 0.000m | 0.000m |
| Zone: 3/a | 0.000m | 0.000m | 0.000m |
| Zone: 3/b | 0.000m | 0.000m | 0.000m |
| Zone: 4   | 0.038m | 0.015m | 0.038m |

## Edge Excesses

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

## Total Seam Lengths (m)

|                 |       |
|-----------------|-------|
| Horizontal      | 0.00  |
| Radial/Vertical | 15.40 |
| Bi-Radial Split | 0.00  |

## Materials

| Material   | Area (m <sup>2</sup> ) | Panels   |
|------------|------------------------|--|
| Material 1 | 38.08                  | 1\1,1\2,1\3,1\4,1\5<br>1\6,1\7,1\8,1\9,1\10<br>1\11,1\12,1b\1,1b\2,1b\3<br>1b\4,1b\5,1b\6,1b\7,1b\8<br>1b\9,1b\10,1b\11,1b\12,1b\13<br>2\1,2\2,2\3,2\4,2\5<br>2b\6,2b\5,2b\4,2b\3,2b\2<br>2b\1,3\1,3\2,3\3,3b\4<br>3b\3,3b\2,3b\1,4\1,4\2<br>4\3,4\4,4\5 |

