

# Genoa: J20 610 Raketa Yachts



## Design Info

Design File:  
E:\UllmanDesign\One Design\610\J20 610.des  
Project File:  
E:\UllmanDesign\One Design\610\610.prj

Job No: 3anpoc  
Initial Design Date: 4/2/2018  
Boat:  
One Design 610 Sport boat  
Client:  
Raketa Yachts

Comments:

## Design Data

### Genoa

#### Measurements

Luff geodesic: 7150.0mm  
Leech geodesic: 6700.0mm  
Foot geodesic: 2350.0mm  
Headboard width: 60.0mm  
Luff perpendicular (HLP): 2236.2mm  
Upper width (HUW): 335.1mm  
Three-quarter width (HTW): 614.2mm  
Half width (HHW): 1181.0mm  
Quarter width (HQW): 1736.7mm  
Foot median: 6965.1mm  
ORC Headsail Area: 8.304ml  
IRC Headsail Area: 8.287ml  
Surface Area: 8.564ml

#### Battens

Position	Length	Roach	Angle	Full
76.000%	421.5mm	-0.2mm	90.000w	
51.300%	602.1mm	-0.3mm	90.000w	
25.600%	501.8mm	-0.2mm	90.000w	

#### Luff Curve

Position	Length	Roach	Angle	Full
7150.0mm, 0.0mm	0.0mm	100% (7150.0mm) :	0.0mm	-0.0mm
5362.5mm, 2.8mm	2.8mm	90% (6434.9mm) :	-1.0mm	13.0mm
3575.0mm, 3.8mm	3.8mm	80% (5720.0mm) :	-2.1mm	25.8mm
1787.5mm, 2.8mm	2.8mm	70% (5005.0mm) :	-3.1mm	37.0mm
0.0mm, 0.0mm	0.0mm	60% (4290.0mm) :	-4.0mm	46.6mm
		50% (3575.0mm) :	-4.6mm	54.1mm
		40% (2860.0mm) :	-4.9mm	58.7mm
		30% (2145.0mm) :	-5.0mm	57.4mm
		20% (1430.0mm) :	-4.6mm	47.1mm
		10% (714.9mm) :	-3.3mm	29.7mm
		0% (0.0mm) :	0.0mm	0.0mm

#### Fanned Luff (@ 5.00% [11Before BSeam

# Genoa: J20 610 Raketa Yachts



#### Seam Allowances

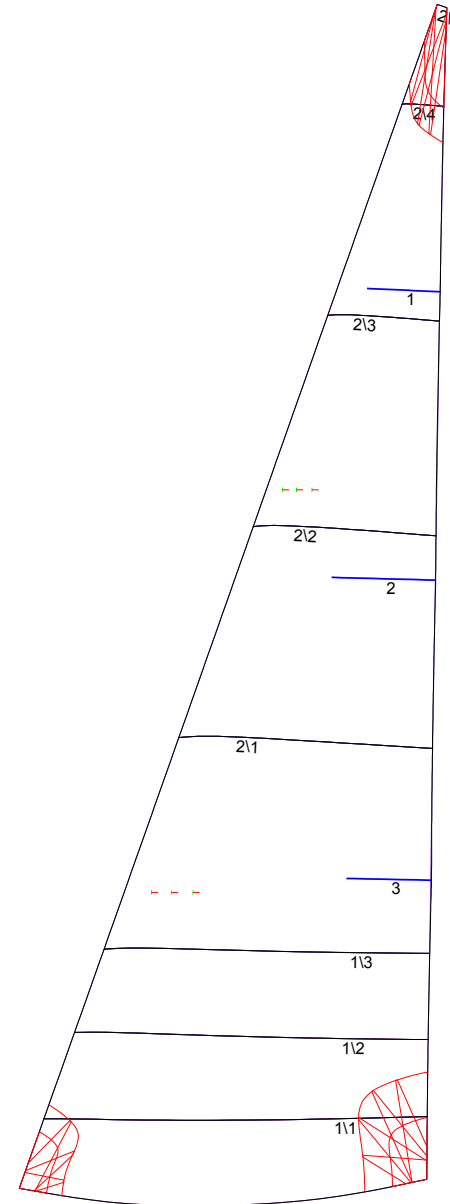
Zone	Split	Radial	Cross
Zone: 1	0.000mm	0.000mm	20.000mm
Zone: 2	0.000mm	0.000mm	20.000mm

#### Edge Excesses

Sail	Luff	Leech	Foot
Sail:	30.000mm	27.000mm	20.000mm

#### Materials

Material	Area (ml)	Panels
Material 1	8.54	11,112,113,211,212,213,214,215



# Mainsail: M20 610 Raketa yachts

## Design Info

Design File:  
E:\UllmanDesign\One Design\610\M20 610.des  
Project File:  
E:\UllmanDesign\One Design\610\610.prj

Job No: 3anpoc  
Initial Design Date: 4/2/2018  
Boat:  
One Design 610 sport boat  
Client:  
Raketa yachts

Comments:  
6 oz  
Доделка по инструкции

## Design Data

### Main

#### Measurements

Luff geodesic: 7390.0mm  
Leech geodesic: 7800.0mm  
Foot geodesic: 3000.0mm  
Head geodesic: 700.0mm  
Upper width (MUW): 1043.1mm  
Three-quarter width (MTW): 1632.3mm  
Half width (MHW): 2339.3mm  
Quarter width (MQW): 2741.2mm  
Foot median: 7601.3mm  
ORC Mainsail area: 15.706m<sup>2</sup>  
Surface area: 16.683m<sup>2</sup>

#### Battens

Position	Length	Roach	Angle	Full
100.000%	971.0mm	0.0mm	113.000°	Full
89.000%	1406.2mm	260.8mm	96.630°	Full
73.000%	1954.8mm	426.5mm	88.688°	Full
49.719%	1333.9mm	379.4mm	85.298°	Full
26.003%	1333.9mm	211.8mm	83.486°	Full

#### Luff Curve

Position	Length	Fanned Luff (@ 5.00% [14Before BSeam])
7388.8mm,	0.0mm	100% (7390.2mm) : 0.0mm 0.0mm
6720.4mm,	-31.7mm	90% (6651.3mm) : 24.2mm 63.5mm
5894.0mm,	-62.0mm	80% (5912.6mm) : 44.7mm 109.7mm
4423.5mm,	-88.5mm	70% (5173.4mm) : 57.9mm 138.9mm
2722.2mm,	-84.1mm	60% (4434.3mm) : 65.1mm 152.1mm
1513.0mm,	-57.4mm	50% (3695.1mm) : 67.2mm 154.5mm
856.6mm,	-34.5mm	40% (2956.0mm) : 64.1mm 145.1mm
0.0mm,	0.0mm	30% (2216.8mm) : 55.3mm 124.7mm
		20% (1477.9mm) : 40.6mm 90.3mm
		10% (738.6mm) : 20.6mm 43.8mm
		0% ( 0.0mm) : 0.0mm 0.0mm

#### Section Data

Position	Camber	Draft	Twist	Entry	Exit	Roach
100.00%	0.170%	38.466%	10.511°	2.177°	-0.665°	0.000mm
94.87%	7.278%	38.613%	10.064°	25.187°	-11.365°	0.000mm
87.18%	10.373%	38.191%	9.379°	33.283°	-16.669°	0.000mm
80.00%	11.461%	38.544%	8.713°	35.350°	-18.224°	0.000mm
60.00%	12.186%	39.613%	6.688°	35.910°	-19.383°	0.000mm
40.00%	11.396%	40.187%	4.493°	33.122°	-18.474°	0.000mm
20.00%	8.893%	40.760%	2.256°	26.293°	-14.688°	0.000mm
9.95%	6.103%	41.048%	1.124°	18.877°	-10.437°	90.950mm
0.00%	2.074%	41.334%	0.000°	8.666°	-4.088°	0.000mm

#### Chord Data

Luff P : 7388.7700mm  
Foot E : 2994.7700mm  
Leech : 7793.0500mm  
Headboard width : 700.0000mm

Include Headboard in Diagonal: Diagonal from Outer End of Headboard

#### Fanned Foot Curve Depths

25.0% 50.0% 75.0%  
42.2021mm 55.5252mm 41.8766mm

# Mainsail: M20 610 Raketa yachts

#### Seam Allowances

Zone	Split	Radial	Cross
Zone: 1	0.000mm	0.000mm	20.000mm
Zone: 2	0.000mm	0.000mm	20.000mm

#### Edge Excesses

Sail	Luff	Leech	Foot
Sail:	0.000mm	27.000mm	25.000mm

#### Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	16.70	11, 112, 113, 114, 115 116, 117, 118, 119, 1110 21, 22, 23, 24, 25 216

