

Sail Yardage Calculation Chart

Yardage Calculation Chart Based on Sail Area

Sail Area (sq. ft.) x Yardage Factor (chart figure based on fabric width) = Fabric Requirement (yards)

SAIL TYPE AND CUT	FABRIC WIDTH (YARDAGE FACTOR)		
	36"	54"	60"
Mainsail with Normal Roach (crosscut)	.18	.13	
Mainsail with Large Roach (crosscut)	.23	.168	
Mainsail without Roach (crosscut)	.148	.11	
Mainsail with Roach (radial cut)	.21	.14	
Lateen Sail	.148	.11	
Headsail out of Ripstop - Drifters, Reachers (crosscut)		.11	.105
Headsail - Jibsails, Genoas, Staysails (radial cut)	.20	.13	
Headsail (crosscut)	.148	.11	
Stormsail (crosscut)	.148	.11	
Cruising Spinnaker (radial cut)		.12	.115
Cruising Spinnaker (tri-radial or star cut)		.125	.12
Radial Head Spinnaker		.12	.115
Tri-Radial Spinnaker		.125	.12
Star-Cut Spinnaker		.125	.12
Horizontal & Spherical Spinnaker		.105	.1
Blooper		.125	.12

FORMULAS FOR COMPUTING SAIL AREA:

Main Area = Luff (P) x Foot (E) x .5

Headsail Area = Luff x Luff Perpendicular (LP) x .5

General Purpose (Running) Spinnakers = .85 x (1.8 J x I)

Reaching Spinnakers (Narrow Shoulders) = .83 x (1.8 J x I)

Cruising Spinnakers = .7 x (1.6 J x I)

*Note that the constants 1.8 and 1.6 in the above formulas should be changed if another LP is desired. Thus, 1.8 should be changed to 1.5 if the sail were to be 150% on the LP.

Compliments of Sailrite's Sail Design Services
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