

15,500 lb displacement.

SailCalculator.com - CATALINA 34 - X Sail Calculator - Tom Dove X Sail Calculator Pro v3.54 - 32004 - X Perform

Not secure | tomdove.com/sailcalc/sailcalc.html

Choose a type of boat:

All Boats ☒ Cruisers ☐ Racers ☐ Racer Cruisers ☐ Cruiser Racers ☐

Catalina 30	Catalina 310
Catalina 309	Catalina 320
Catalina 309 (wing Keel)	Catalina 34 SR/Fin
Catalina 30TRBS	Catalina 34 Shoal Keel
Catalina 310	Catalina 34 Wing Keel
Catalina 320	Catalina 315
Catalina 34 SR/Fin	Catalina 350
Catalina 34 Shoal Keel	Catalina 355 (winged keel)
Catalina 34 Wing Keel	Catalina 36
Catalina 315	Catalina 36 MK II TR/Fin Keel

Select one boat in each column above, and press **MAKE CHART** to compare.

Part 1B, Enter Measurements For Your Boat: Note that length overall, length of waterline, and beam are in feet, displacement in pounds, and sail area in square feet. Do not use , ' or " in your numbers, which should be in the form, for example, 1000.50. Note that this site uses the American standard, with a period instead of a comma as a decimal delineator.

*You can enter your values in metric units (meters, square meters, and kilograms). If you follow each number entered with the letter "m" and then click on the page anywhere outside the entry box. Doing this will convert each of your entries to the native units (feet, square feet, and pounds) used by the calculator. Thus if you enter 1000m for the displacement in kilograms, it will be converted to 2204.6 pounds.

Boat Name (e.g., Hunter 33.5): Catalina 34 MK 1									
LOA Hull Length or Length on Deck (LOD)	34.5	LWL	29.8	Beam	11.75	Disp	15500	Sail Area: Main plus 100% Fore Triangle*	564

*One-half the vertical distance from the deck to the point on the mast where the jib sail attaches multiplied by the horizontal distance from the base of the mast to the bow.

Press **COMPUTE** to see the derived quantities displayed below in Part 2.

Click **SUBMIT DATA** to e-mail the data on your boat to Tom: **SUBMIT DATA**

Part 2, Results: This area displays the parameters of the boat selected. Do not enter values here. Click on any of the Derived Quantities boxes for an explanation of the box.

Name: _____

Basic measurements

LOA	34.5	LWL	29.8	Beam	11.75	Displacement	15500	Sail Area	564
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Derived quantities. (Click on each box for an explanation in the box below.)

Displacement to LWL	261	Hull Speed	7.31	Sail Area to Displacement	14.52
LWL to Beam	2.54	Motion Comfort	28.6	Capsize Ratio	1.89
Sailing Category	cruiser	Pounds per inch	1251		

Displacement to LWL: A medium value would be 200. 300 would be high (Heavy Cruising Boat) and 100 would be low (Ultra Light Displacement-ULDB). Boats with low numbers are probably uncomfortable and difficult to sail.

After using the "compute" button send the full report to a friend's email address: kevelnat@sanrr.com by clicking here: **SEND TO A FRIEND**

11,950 lb displacement

All Boats ☒ Cruisers ☐ Racers ☐ Racer Cruisers ☐ Cruiser Racers ☐

Catalina 30	Catalina 310
Catalina 309	Catalina 320
Catalina 309 (wing Keel)	Catalina 34 SR/Fin
Catalina 30TRBS	Catalina 34 Shoa! Keel
Catalina 310	Catalina 34 Wing Keel
Catalina 320	Catalina 315
Catalina 34 SR/Fin	Catalina 350
Catalina 34 Shoa! Keel	Catalina 355 (winged keel)
Catalina 34 Wing Keel	Catalina 36
Catalina 315	Catalina 36 MK II TR/Fin Keel

Select one boat in each column above, and press **MAKE CHART** to compare.

Part 1B, Enter Measurements For Your Boat: Note that length overall, length of waterline, and beam are in feet, displacement in pounds, and sail area in square feet. Do not use , ' or " in your numbers, which should be in the form, for example, 1000.50. Note that this site uses the American standard, with a period instead of a comma as a decimal delineator.

! You can enter your values in metric units (meters, square meters, and kilograms), if you follow each number entered with the letter "m" and then click on the page anywhere outside the entry box. Doing this will convert each of your entries to the native units (feet, square feet, and pounds!) used by the calculator. Thus if you enter 1000m for the displacement in kilograms, it will be converted to 2204.6 pounds.

Boat Name (e.g. Hunter 33.5): Catalina 34 MK 1					
LOA Hull Length or Length on Deck (LOD)	34.5	LWL	29.8	Beam	11.75
Displ	11950	Sail Area Main plus	564	100% Pure Triangle*	

*One-half the vertical distance from the deck to the point on the mast where the jib sail attaches multiplied by the horizontal distance from the base of the mast to the bow.

Press **COMPUTE** to see the derived quantities displayed below in Part 2.

Click **SUBMIT DATA** to e-mail the data on your boat to Tom: **SUBMIT DATA**

Part 2, Results: This area displays the parameters of the boat selected. Do not enter values here. Click on any of the Derived Quantities boxes for an explanation of the box.

Name: Catalina 34 MK 1										
Basic measurements										
LOA	34.5	LWL	29.8	Beam	11.75	Displacement	11950	Sail Area	564	
Derived quantities. (Click on each box for an explanation in the box below.)										
Displacement to LWL		202	Hull Speed		7.31	Sail Area to Displacement				17.26
LWL to Beam		2.54	Monsoi Comfort		22.05	Capsize Ratio				2.06
Sailing Category		cruiser/racer				Pounds per foot				1251
Displacement to LWL: A medium value would be 300. 350 would be high (Heavy Cruising Boat) and 100 would be low (Ultra Light Displacement-ULDB). Boats with low numbers are probably uncomfortable and difficult to sail.										
After using the "compute" button send the full report to a friend's email address: kevelnat@san.rr.com by clicking here: SEND TO A FRIEND										