

## Keel And Rudder Design Eric W Sponberg

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Keel and Rudder Design There is an art and science to good appendage design, with the emphasis on science. Here, the author reviews the basics of what's appropriate for modern cruisers, cruiser/racers, and pure raceboats. Editor's note: This article is the first of a two-part series, based on an IBEX 2004 session titled "Practical Methods for Keel and Rudder Design, presented by David Vacanti, naval architect Eric Sponberg (St. Augustine, Florida), and Kevin Milne, president Of Mars Metal ...

**Eric W. Sponberg** — Naval Architect  
Keels and Rudders: Engineering and Construction by Eric W. Sponberg Editor's note: This article is the Sec- Ond Of a two-part series, based on an IBEX 2004 session titled "Practical Methods for Keel and Rudder Design," presented by David Vacanti, (Renton, Washington), naval architect Eric Sponberg (St. Augustine, Florida), and Kevin Milne, president of Mars Metal Company (Burlington, Ontario, Canada).

**Eric W. Sponberg** — Naval Architect  
Any keel or rudder design can be rendered useless if the actual implementation or build of the design is not done with sufficient accuracy. A good example was a keel design I created for a Six Meter Sailing yacht named Steverino. The builder of the keel did a great job but at the last minute decided that the "look" of the keel was not ...

**Keel and Rudder Design Methodology** — Vacanti Yacht Design LLC  
Keel and Rudder Design, presented by David Vacanti, naval architect Eric Sponberg (St. Augustine, Florida), and Kevin Milne, president Of Mars Metal Company (Burlington, Ontario, Canada).

**Keel-And-Rudder-Design-Eric-W-Sponberg**  
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**Keel-And-Rudder-Design-Eric-W-Sponberg**  
The keel is the structural backbone of the vessel, and the fin hangs from it. Fish have both backbones and fins; so do yachts. A well-designed fin, in conjunction with a skeg-hung rudder, can provide excellent directional stability, handiness, reduced wetted area and improved weatherliness.

**Keel design-What's best?—Good-Old-Boat**  
1) Full Keels. This particular keel by design covers at least half of the boat's hull. It contains a forward edge which bends upwards while its aft edge usually links to a rudder. This type of keel has a key advantage of providing directional stability as well as safe and strong grounding of the boat or ship.

**Boat-Keels-&-Fins-7-Types-Explained-For-Beginners---**  
A boat with keel-attached rudder, carrying a small amount of weather helm, say 3° to 5°, does, in effect, cause the keel and rudder in combination to become asymmetrical on either tack, providing beneficial lift at the expense of slight detrimental drag. Robert Griffiths lives in Orinda, Calif. Eric Sponberg responds:

**More-on-keel-and-rudder-hydrodynamic-forces—Ocean-Navigator**  
Keel and Rudder Design, presented by David Vacanti, naval architect Eric Sponberg (St. Augustine, Florida), and Kevin Milne, president Of Mars Metal Company (Burlington, Ontario, Canada). Here, Voconti discusses the science of foil sections, planform shapes, lift and drag characteristics, and bulb and winglet keels. Eric W. Sponberg – Naval Architect Here, Eric Sponberg looks at keel and rudder engineering and construction.

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**Keel-And-Rudder-Design-Eric-W-Sponberg**  
Semi skeg rudder on Malo 46. Full skeg rudder. Full keel rudder. Yachts with long-keels, such as Island Packet and most classics, have a rudder which is hinged to the aft edge of the keel, forming a continuous surface. The engine's propeller is then usually positioned in an aperture at the aft end of the keel, but forward of the rudder blade.

**Choosing-a-Blue-Water-Yacht—Rudder-Type+Grabau---**  
Keel for 3-tonn sailing yacht : Falsekeel for 8.6m sailing yacht : Fin keel with bulb. shallow draft : Fin keel with bulb for yacht 7- 9 metres (300-900??) Rudder design : We offer steering system's building plans for any type of rudders for any type of yachts: Hanging rudder for centerboard and dinghy. Spade rudder and steering system

**Fin-keel-design-Rudder-dosing-Ballast-keel-and-rudder---**  
The keel bulb and rudder were manufactured last due to the tight curves and thickness of the material for the keel bulb. The keel bulb framing was assembled following the same system of interlocking slots as the hull floor girders. The thick centre strip was shaped and fully welded in.

**Nordkyn:Keel-and-rudder-construction+Nordkyn-Design**  
Recovering from a Stalled Keel. To recover move the rudder back to amidships. The water flow now meets the rudder at an angle from the downwind side, creating lift to windward and so turning the boat downwind. This turns the boat more into line with the water flow, reducing the angle of attack of the keel and bringing it out of the stall.

**keels\_rudders—Waypoint-Amsterdam**  
Keel design is constantly evolving and nowhere is this more apparent than in modern racing yachts such as the Imoca Open 60 class. These fast offshore monohulls use highly sophisticated canting keels to help them stay upright when sailing upwind. The boats are designed to be as light as possible while at the same time [ ...]

**Keel-design—options-to-consider-when-choosing-a-yacht---**  
Older designs with longer lower aspect keels have a much greater mounting area than modern high aspect ones and are more likely to survive a grounding without damage. I suspect we will see increasing keel problems with modern "performance oriented" boats as they get older, having been battered...

**KeelRudder-design+Page-3+YBW-Forum**  
A wealthy power couple are suing a top boatyard over a wobbly rudder and a smell of rotten eggs on their £500,000 luxury racing yacht. Elite financiers David Huber, 70, and Elena Lieskovska, 49, splashed out €562,533 (£504,693) in 2017 on the sleek X4.3 yacht, christened 'Silver X'. But their ...