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Eric W Sponberg

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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

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Methods for Keel and Rudder Design," presented by David Vacanti, (Renton, Washington), naval architect Eric Sponberg (St. Augustine, Florida),

www.ericwsponberg.com

LOFT makes the design of typical keels and rudders a quick and pleasant task. A planform is designed by simply entering the desired keel or rudder

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span, leading edge sweep angle, then root and tip chord lengths and thicknesses. Click on one of 5 NACA or NASA foil types from the list included with LOFT.

Articles - Eric W. Sponberg

The keel bulb and rudder were manufactured last due to the tight curves and thickness of the material for the keel

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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.

Saint Barbara - Eric W. Sponberg

After hull integrity, rudder integrity is the most vital component of a seaworthy vessel, yet most sailors pay

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more attention to LED lighting or smartphone apps than they do to their boat's rudder.

Before you shrug off rudder failure as a remote concern, consider that the incidence of mid-ocean rudder failures is close to 1 percent.

Nordkyn: Keel and rudder construction | Nordkyn Design

A fin keel and spade rudder configuration

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Eric W. Sparberg
gives high pointing but can be sensitive on the helm Credit: Graham Snook/YM TAGS: Keel type Practical seamanship premium sailing skills. How keel type affects performance. James Jermain has tested hundreds of yachts in his 30 years as Yachting Monthly's chief boat tester.

Catalina Direct
Clubhouse Forums

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Eric W. Schnitzler

A rudder is a primary control surface used to steer a ship, boat, submarine, hovercraft, aircraft, or other conveyance that moves through a fluid medium (generally air or water). On an aircraft the rudder is used primarily to counter adverse yaw and p-factor and is not the primary control used to turn the airplane. A rudder operates by redirecting

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the fluid past the hull
(watercraft) or...

Design Tips | Competition Composites Inc.

Eric herself has
amazed more than a
few people with her
good manners and
determination when
the going gets tough.
Since none of these
"inshore"
characteristics detracts
from the type's safety
in more typical

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offshore conditions, I think Eric and her kin may well be "the best boat for the worst weather."

Eric: The Best Boat for the Worst Weather

But like most things in yacht design there are a few compromises and in the case of a trailing rudder it often means not being able to utilize a balanced rudder blade. With a

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spade rudder design a designer can have up to 10% of the surface area in front of the shaft.

Eric W. Sponberg - Naval Architect

The notable features of this design were the lifting keel and rudder with shapes similar to those of Bagatelle.

Both keel and rudder employ the LS-(1) aerofoil section which is one of my favorites

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because it has a maximum thickness position at 40% of the chord instead of the more common 30% of chord.

Know Your Rudder - Sail Magazine

The information found here is a collection of tips to help with your foil design, whether you are starting from scratch or modifying a pre-existing design.

This will not make you

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an expert, but should help you understand some of the tradeoffs in foil design (all designs are a compromise after all, as for any given boat there is no one perfect design for all sailing conditions and sailing styles).

Rudder and Skeg - Gozzard Yachts

Create new discussion:

Discussion: Replies :

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Date: Rope instead of
wire for keel cable? 12:

Paul David: 3549:

10/24/2011 5:13 PM:

why keel cable wears

Keel And Rudder Design Eric

"Practical Methods for
Keel and Rudder
Design, presented by
David Vacanti, naval
architect Eric Sponberg
(St. Augustine, Florida),
and Kevin Milne,
president Of Mars

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Metal Company (Burlington, Ontario, Canada). Here, Voconti discusses the science of foil sections, planform shapes, lift and drag characteristics, and bulb and winglet keels.

LOFT Keel and Rudder Design

Keel and Rudder Design Professional Boatbuilder, Jun/Jul 2005, Issue No. 95.

David Vacanti, Kevin

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Erin W. Spierberg

Milne, and I presented a session at IBEX (International Boatbuilders Exhibition) in 2004 on keel and rudder design, engineering and construction.

Rudder - Wikipedia

In the old days, the rudder on a typical blue water cruiser was hung on the back of a long keel. Indeed the occasional retro-design still has this feature.

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Then in the '60s leading yacht designers such as Sparkman & Stephens moved to fin keels and hung the rudder on a skeg.

How keel type affects performance - Yachting Monthly

Welcome to my website. I am Eric W. Sponberg, retired naval architect, once owner of Sponberg Yacht Design Inc., lately of

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Eric M Sponberg

St. Augustine, FL. I am no longer in professional practice, and my old company and website, Sponberg Yacht Design Inc., no longer exists.