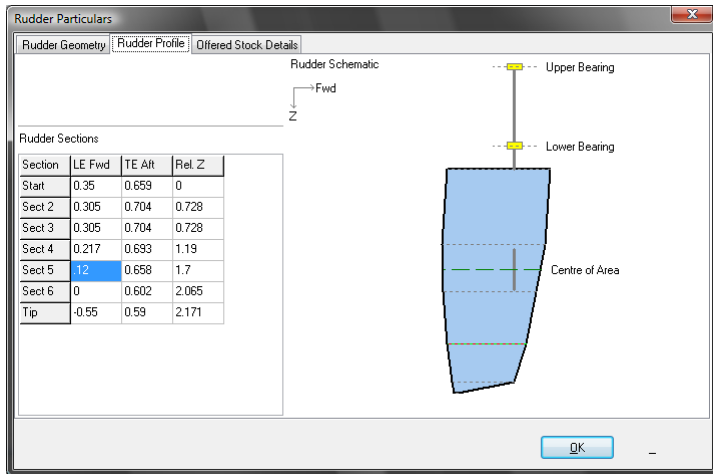


HullScant is the Wolfson Unit's Hull Scantlings program. It has been developed in collaboration with the International Sailing Federation and Royal Yachting Association.

HullScant Rudder is an additional module within HullScant, which calculates the structural properties of a vessel's spade rudder, and compares it to the requirements of ISO 12215 Part 8. The module uses the boat definition from HullScant.

HullScant Rudder is used to evaluate the spade rudder scantlings for motor and sailing vessels under 24 metres. User defined rudder particulars and geometry are assessed against the requirements set out in ISO standard 12215, Part 8.

The **HullScant** software is specifically designed for all builders and designers conducting a scantling assessment and will greatly simplify the process of design category assessment for pleasure craft under the Recreational Craft Directive.



HullScant Rudder calculates requirements and properties for spade rudders constructed of aluminium alloys, steel, and fibre reinforced plastic laminates.

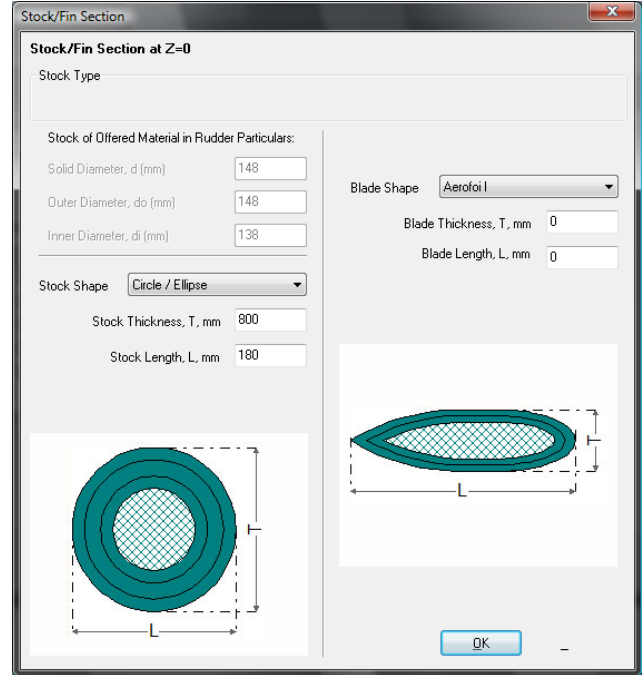
HullScant Rudder features include:

RUDDER PARTICULARS

- Input of rudder particulars, geometry and materials produces design moments and other requirements based on the ISO12215-8 standard.
- A representative rudder view is produced from the input particulars for ease of use, access and validation.

STOCK DETAILS

- Input type and dimensions.
- Allows solid, tubular or laminated stock.
- Laminated stock can be circular or rectangular, and is specified via the laminate dialog used with HullScant.

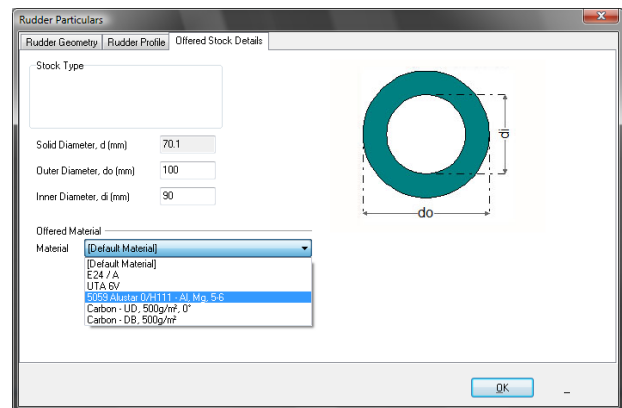


ISO STANDARD 12215, PART 8

- The program incorporates the calculations and methods from the ISO12215-8 standard.
- The program features scope and limit checking of input data.

MATERIALS LIBRARY

- The program includes the complete materials library from the ISO12215-8 standard, including mechanical properties for mild and stainless steel, aluminium alloys, titanium alloys and copper alloys.



- Custom material properties can be entered, from ones own test data or other sources.
- A complete materials library can be stored for use in other vessels.

CALCULATIONS

- Calculates requirements and produces reports of ISO12215-8 standard, and delivers a pass / fail ratio comparison with actual structure.

RESULTS OUTPUT

- Results are in HTML format with a built in results browser to produce neat, readable and quickly navigable tables with hyperlinks to set conditions.
- Results tables can be manipulated and customised to suit the desired report format.

COMPATIBILITY

- Results can be saved in HTML format or pasted into other programs such as word processors.

HELP SYSTEM

- A full online help system is provided, describing the rudder scantlings definition process and calculation methods.
- A full glossary of terms is included.
- Please note the program should be used in conjunction with the ISO12215-8 standard.

PRICE INFORMATION

Windows XP/Vista/7 32-bit and 64-bit:

please see www.wolfsonunit.com/pricelist.html

Second copies available at 65%, subsequent copies at 50% of price.

Educational discount of 33% on total price.

Price includes full technical support from WUMTIA engineers.

ACKNOWLEDGMENTS



HullScant development and validation is in association with the International Sailing Federation (ISAF).



The RYA contribution has been facilitated through the significant assistance of Dr Robin Loscombe, member of ISO/TC 188/Working Group 18, with ISO12215 standard interpretation and validation.