

Rules for Classification and Construction

I *Ship Technology*

3 **Special Craft**

3 **Yachts and Boats up to 24 m**



The following Rules come into force on October 1st, 2003.

Alterations to the preceding Edition are marked by beams at the text margin.

"General Terms and Conditions" of the respective latest edition will be applicable
(see Rules for Classification and Construction, I – Ship Technology, Part 0 – Classification and Surveys).

Reproduction by printing or photostatic means is only permissible with the consent of Germanischer Lloyd.

Germanischer Lloyd AG

Head Office Hamburg

Vorsetzen 35, D-20459 Hamburg

Telefon +49 40 3 61 49-0

Telefax +49 40 3 61 49-2 00

Telex 212828 glhh d

headoffice@gl-group.com

http://www.gl-group.com

Table of Contents

Section 1	Hull Structures	
A.	General Rules for the Hull	1- 1
B.	Glass Fibre Reinforced Plastic Hulls	1- 15
C.	Advanced Composite Structures	1- 38
D.	Wooden Hulls	1- 41
E.	Cold-Moulded Wood Construction	1- 67
F.	Metal Hulls	1- 71
G.	Anchoring, Towing and Warping Gear	1- 85
Section 2	Mast and Rig	
A.	General	2- 1
B.	Basis for Calculation	2- 1
C.	Assessment Criteria	2- 2
D.	Construction Notes and Chainplates	2- 2
Section 3	Machinery Installations	
A.	General Rules and Notes	3- 1
B.	Internal Combustion Engines	3- 3
C.	Propeller Shafts, Propellers, Gearing, Couplings	3- 4
D.	Storage of Liquid Fuels	3- 7
E.	Piping, Fittings, Pumps	3- 8
F.	Cooking, Baking and Heating Appliances	3- 12
G.	Fire Extinguishing Equipment	3- 12
H.	Steering Gear	3- 14
I.	Anchor Windlasses	3- 15
J.	Operating Instructions, Tools, Spare Parts	3- 16
Section 4	Electrical Installations	
A.	General	4- 1
B.	Approval Documentation	4- 1
C.	Protective Measures	4- 1
D.	Electrical Machinery	4- 2
E.	Storage Batteries	4- 2
F.	Distribution Systems	4- 4
G.	Spares	4- 6
Section 5	Safety Requirements	
A.	Technical Requirements for Ship Safety	5- 1
B.	Fire Protection	5- 5
C.	Stability	5- 6

Annex A Series Construction Supervision of Pleasure Craft

A.	General	A- 1
B.	Approval of Manufacturer	A- 1
C.	Series Construction Supervision	A- 2
D.	Identification, Documentation	A- 2
E.	Documentation for Approval	A- 3

Annex B Requirements for FRP Materials and Production

A.	Definitions	B- 1
B.	Materials	B- 1
C.	Approval of Materials	B- 3
D.	Requirements Regarding Manufacturing Equipment	B- 3
E.	Regulations for Processing	B- 4
F.	Manufacturing Surveillance	B- 6

Annex C Excerpts from the Rules for Materials

A.	General	C- 1
B.	Steels and Non-Ferrous Metals	C- 1
C.	Wood and Timber Products	C- 6
D.	Testing Materials	C- 6

Annex D Excerpt from the Rules for Welding

A.	General Rules	D- 1
B.	Manufacturing Prerequisites, Proof of Qualification	D- 2
C.	Design and Dimensioning of the Welded Joints	D- 2
D.	Making and Testing the Welded Joints	D- 6

Annex E Workboats, Conversion Formulae

A.	Conversion Formulae	E- 1
----	---------------------------	------

Annex F Notes and Tables

A.	Lightning Protection	F- 1
B.	Example	F- 9

Annex G Cabins and Accommodation

A.	General	G- 1
B.	Cabins	G- 1
C.	Accommodation	G- 1
D.	Ventilation	G- 1

Annex H Number of Persons and Freeboard

A.	Permissible Number of Persons	H- 1
B.	Freeboard	H- 1