

DIN EN ISO 12215-6:2020-05 (E)

Small craft - Hull construction and scantlings - Part 6: Structural arrangements and details (ISO 12215-6:2008)

Contents	Page
Foreword	6
Introduction	7
1 Scope	8
2 Normative references	8
3 Terms and definitions	8
4 Symbols	10
5 General	11
6 Structural arrangement	11
6.1 Stiffening	11
6.2 Hull girder strength	14
6.3 Load transfer	14
6.4 Determination of stiffener spans	18
6.5 Window mullions	20
6.6 Sailboat mast support	21
7 Specific structural details for FRP construction	21
7.1 Local reinforcement	21
7.2 Bonding	23
7.3 Major joints	28
7.4 Laminate transition	32
7.5 Sandwich construction	32
7.6 Attachment of fittings	32
7.7 Engine seatings and girders	32
7.8 Hull drainage	35
8 Specific structural details for metal construction	35
8.1 Design details	35
8.2 End connections	35
8.3 Increased hull plating	35
8.4 Protective keel	35
8.5 Hull drainage	36
8.6 Machinery spaces	36
8.7 Good practice welding standards	36
8.8 Good practice for riveting or adhesive bonding	36
9 Good practice on laminated wood	37
9.1 Edge sealing	37
9.2 Plywood orientation	37
9.3 Local scantlings	37
9.4 Alternative criteria	38
10 Consideration of other loads	38
11 Other structural components	38

11.1	General	38
11.2	Rudder structure and connection	38
11.3	Keel attachment	39
11.4	Introduction and distribution of rigging loads	39
11.5	Other structural components not considered in other parts	39
	European foreword	4
	Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of Directive 2013/53/EU aimed to be covered	5
	Annex B (informative) Determination of shear stresses within a stiffener with glued or riveted joints	42
	Annex C (informative) Good practice welding procedure	48
	Annex D (informative) Longitudinal strength analysis	54
	Bibliography	59
	Annex A (normative) Structural arrangements for category C and D boats	40