DIN EN ISO 12217-3:2013-06 (E)

Small craft - Stability and buoyancy assessment and categorization - Part 3: Boats of hull length less than 6 m (ISO 12217-3:2 013)

Contents

Page

Foreword 4

Introduction 5

1 Scope 6

2 Normative references 7

3 Terms and definitions 7
3.1 Primary 7
3.2 Downflooding 9
3.3 Condition and mass 10
3.4 Other definitions 12

4 Symbols 14

5 Procedure 15
5.1 Maximum load 15
5.2 Sailing or non-sailing 15
5.3 Tests to be applied 15
5.4 Alternatives 16
5.5 Variation in input parameters 16

6 Tests to be applied to non-sailing boats 16
6.1 General 16
6.2 Habitable non-sailing multihull boats 16
6.3 Downflooding 17
6.4 Recess size 22
6.5 Offset-load test 24
6.6 Heel due to wind action 31
6.7 Level flotation test 31
6.8 Basic flotation test 32
6.9 Capsize-recovery test 32
6.10 Detection and removal of water 33

7 Tests to be applied to sailing boats 33
7.1 General 33
7.2 Downflooding 34
7.3 Recess size 34
7.4 Flotation tests 34
7.5 Capsize-recovery test 35
7.6 Knockdown recovery test 36
7.7 Wind stiffness test 37
7.8 Inverted buoyancy 39

8 Safety signs 40

9 Application 40
9.1 Deciding the design category 40
9.2 Meaning of the design categories 40

Annex A (normative) Full method for required downflooding height 42

Annex B (normative) Methods for calculating downflooding angle 45

Annex C (normative) Method for flotation tests 47

Annex D (normative) Flotation material and elements 52

Annex E (normative) Calculation method for basic flotation requirement 54

Annex F (normative) Information for owner's manual 56

Annex G (informative) Summary of requirements 60

Annex H (informative) Worksheets 62

Bibliography 79

Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 94/25/EC as amended by Directive 2003/44/EC 80