

ISO 11812:2020 (E)

Small craft — Watertight or quick-draining recesses and cockpits

Contents

	Foreword
1	Scope
2	Normative references
3	Terms and definitions
4	Symbols
5	General
5.1	Loading and measurement conditions
5.2	Requirements for watertight and quick-draining recesses
6	Watertightness requirements
6.1	Watertightness requirements for watertight recesses
6.2	Watertightness requirements for quick-draining recesses
7	Requirements for companionway sills
7.1	Companionway sills
7.2	Quick-draining recess with a reduced risk of flooding
7.3	Sill height measurement
7.4	Minimum companionway sill height for quick-draining recesses
8	Height of recess bottom above waterline for quick-draining recesses
9	Quick-draining recesses — Single bottom recess drainage
9.1	Drainage general requirements
9.2	Drain requirements
9.2.1	Number and dimensions
9.2.2	Special provisions
9.2.3	Installation
9.3	Drainage calculation requirements
9.3.1	Drainage calculation principle and assessment methods
9.3.2	Simplified drainage assessment method
10	Quick-draining recesses — Multi-bottom recess drainage
10.1	Drainage general requirements
10.2	Drainage calculations
10.3	Drainage requirements for a foot basin
11	Owner's manual
11.1	General recommendation for use
11.2	Recommendation for use from Table 4 — Companionway opening
Annex A	(normative) Full calculation method for draining time
A.1	Preliminary
A.2	Calculation of a single-bottom recess
A.3	Calculation for a multi-bottom recess
A.4	Principle of calculation where the drain diameters are different
A.5	Determination of minor head loss coefficients, K
A.5.1	General
A.5.2	K coefficient for grid of holes and gratings
A.5.3	K coefficient for drains

Annex B (informative) Technical background — Source of the calculations used

- B.1 Calculations for a single-bottom recess**
 - B.1.1 General**
 - B.1.2 Calculation for a "perfect" fluid, i.e. no viscosity and no head loss**
- B.2 Calculation with "real" fluids and head losses — General**
- B.3 Calculation of the draining time of a two bottoms recess with "real" fluids and head losses**
 - B.3.1 General**
 - B.3.2 Major (frictional) head losses — For information only**
 - B.3.3 Minor head losses**
- B.4 Water flow in a foot basin**

Annex C (informative) Examples of "quick-draining" recesses

Page count: 32