

ISO 11812:2001-12 (E)

Small craft - Watertight cockpits and quick-draining cockpits

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Symbols	5
5	General requirements	6
5.1	Loading and measurement conditions	6
5.2	Requirements for "watertight" cockpits and recesses	6
5.3	Requirements for "quick draining" cockpits and recesses	7
5.4	Closing appliances	7
6	Requirements for quick-draining cockpit bottom	7
6.1	Minimum cockpit bottom height, HB,min	7
6.2	Exception to 6.1 for recesses or lockers	8
6.2.1	Exception up to 10 % of cockpit bottom area	8
6.2.2	Lockers in the cockpit bottom	8
7	Requirements for drainage of quick-draining cockpits	8
7.1	Cockpit drainage	8
7.1.1	General	8
7.1.2	When the boat is upright	8
7.1.3	When the boat is heeled	8
7.2	Draining time	9
7.3	Number of drains	10
7.4	Minimum drain dimensions	10
7.4.1	Internal dimensions of the drain	10
7.4.2	Eventual protective grids	10
7.5	Centreboard housings and other types of drain	10
7.6	Drain fitting	11
7.7	Drain piping design and construction	11
7.8	Draining time assessment	11
7.8.1	General	11
7.8.2	Measurement of the draining time	11
7.8.3	Calculation of the draining time	12
7.8.4	Quick method of calculation for cockpit fitted with two drains	12
8	Requirements for sills	14
8.1	Sill height for watertight cockpits	14
8.2	Sill height and other requirements for quick-draining cockpits	14
8.2.1	Sill-height measurement	14
8.2.2	Requirements for sill height of quick draining cockpits	14
8.2.3	Requirements for companionway doors and appliances above sill height	14
8.2.4	Other requirements	15
9	Watertightness requirements	15

9.1	Watertightness requirements of watertight cockpits	15
9.2	Watertightness requirements of quick-draining cockpits	15
9.2.1	Watertightness of the cockpit	15
9.2.2	Permanently open ventilation openings	16
10	Owner's manual -- Documentation	16
	Annex A (informative) Examples of single-plane cockpit bottoms	17
	Annex B (normative) Analysis of multi-level cockpit bottom	19
	Annex C (normative) Draining time calculation using tables	26
	Annex D (normative) Alternative method of calculation -- Direct calculation with head losses	30
	Annex E (normative) Watertightness tests	33
	Bibliography	36