

# DIN EN ISO 25649-5:2018-04 (E)

## Floating leisure articles for use on and in the water - Part 5: Additional specific safety requirements and test methods for Class C devices (ISO 25649-5:2017)

---

<b>Contents</b>		<b>Page</b>
<b>European foreword</b> .....		<b>4</b>
<b>Foreword</b> .....		<b>5</b>
<b>Introduction</b> .....		<b>6</b>
<b>1 Scope</b> .....		<b>8</b>
<b>2 Normative references</b> .....		<b>8</b>
<b>3 Terms and definitions</b> .....		<b>8</b>
<b>4 Safety requirements and test methods</b> .....		<b>10</b>
4.1 General .....		10
4.2 Test conditions .....		10
4.3 Design .....		10
4.3.1 General .....		10
4.3.2 Sizing, admissible number of users and maximum load capacity .....		11
4.3.3 C1 devices, space per person (passive user, including children) .....		11
4.3.4 C2 and C3 devices, space per person .....		11
4.3.5 Grab handles, availability and strength .....		12
4.3.6 Buoyancy and load capacity .....		12
4.3.7 Residual buoyancy .....		12
4.3.8 Foot, leg and torso entrapment .....		12
4.3.9 Valves and other protruding parts .....		13
4.3.10 Accessible protruding parts, entanglement .....		13
4.3.11 Strength of towing device attachment .....		13
4.3.12 Towing system .....		14
4.3.13 Colour of towing rope .....		14
4.3.14 Floatability of towing rope .....		14
4.3.15 Fittings .....		14
4.3.16 Elasticity of towing rope .....		14
4.4 In-water performance .....		15
4.4.1 General .....		15
4.4.2 Selection of test subjects .....		15
4.4.3 Assessment panel .....		15
4.4.4 Selection of watercraft and towing personnel for testing .....		15
4.4.5 Test conditions, test course, duration of test, test speed, wind speed .....		15
4.4.6 Manoeuvres .....		16
4.4.7 Efficiency of drainage system for inflatable chambers designed with an external cover .....		16
4.4.8 Entrapment, entanglement, additional practical in-water test during capsizing .....		16
4.4.9 Re-embarkation, practical in-water test .....		17
4.4.10 Residual buoyancy, additional practical in-water test .....		17
4.4.11 Pass/fail criteria .....		17
<b>5 Required capabilities of the test persons being towed</b> .....		<b>17</b>
<b>6 Consumer information</b> .....		<b>18</b>
6.1 General .....		18
6.2 Intended use .....		18
6.3 Responsibilities .....		18
6.3.1 General .....		18
6.3.2 Watercraft driver .....		18
6.3.3 Observer .....		18
6.3.4 Rider .....		19

<b>7</b>	<b>Written warnings in the manual</b> .....	<b>19</b>
7.1	General.....	19
7.2	Warnings.....	19
7.3	Instructions.....	20
<b>8</b>	<b>Signals</b> .....	<b>21</b>
8.1	General.....	21
8.2	Hand signals.....	21
8.3	Signal devices.....	23
<b>9</b>	<b>Exclusions</b> .....	<b>23</b>
	<b>Annex A (informative) Quick release system</b> .....	<b>24</b>
	<b>Annex B (informative) Examples of typical products forming Class C</b> .....	<b>25</b>
	<b>Bibliography</b> .....	<b>26</b>