

# DIN EN 16582-1:2015-11 (E)

## Domestic swimming pools - Part 1: General requirements including safety and test methods

---

<b>Contents</b>		<b>Page</b>
European foreword .....		4
Introduction .....		5
1	Scope .....	6
2	Normative references .....	6
3	Terms and definitions .....	7
4	General requirements and test methods .....	11
4.1	General .....	11
4.2	Tolerances .....	12
4.3	Water leakage .....	12
4.4	Minimum performance requirements for structural materials .....	12
4.4.1	General .....	12
4.4.2	Specific requirements and testing for corrosion resistance .....	14
4.4.3	Osmosis resistance of composites and polymers .....	14
4.4.4	Wood .....	15
4.5	Injury risks .....	15
4.5.1	Small elements, edges and corners .....	15
4.5.2	Permissible openings .....	17
4.6	Accessibility .....	19
4.6.1	General .....	19
4.6.2	Secure access to the swimming pool .....	19
5	Requirements and test methods for means of access .....	20
5.1	General .....	20
5.2	Slip resistance .....	20
5.3	Crushing and entrapment hazards .....	21
5.4	Ladders .....	21
5.4.1	Dimensions .....	21
5.4.2	Load-bearing strength .....	25
5.4.3	Test for lateral stability of removable ladders .....	26
5.4.4	Specific requirements for secured access points to enter the pool .....	26
5.4.5	Other requirements .....	27
5.5	Bearing points .....	27
5.5.1	Recessed bearing points .....	27
5.5.2	Raised bearing points .....	28
5.6	Submerged stairs .....	30
5.6.1	General .....	30
5.6.2	Built-in stairs .....	32
5.6.3	Fitted stairs .....	32
5.7	Handrails .....	32
6	Instructions for the consumer .....	32
6.1	General principles .....	32
6.2	Self-built/installed pools .....	33
6.2.1	Point-of-purchase information .....	33
6.2.2	Installation and commissioning manual .....	33
6.2.3	Operating and maintenance manual .....	34

6.3	Constructed / installed pools by professionals .....	34
6.3.1	Point-of-purchase information .....	34
6.3.2	Operating and maintenance manual .....	35
6.4	Means of access .....	35
6.4.1	Point-of-purchase information .....	35
6.4.2	Operating and maintenance manual .....	36
6.5	Examples illustrating pool sizes .....	36
7	Safety signage .....	38
Annex A (informative) Swimming pool structures .....		40
Annex B (informative) Safety information in the owner's manual and instruction sheets accompanying the swimming pool .....		42
Annex C (normative) Methods of test for entrapment .....		45
C.1	Head and neck entrapment .....	45
C.1.1	Apparatus .....	45
C.1.2	Test method .....	46
C.2	Finger and toe entrapment .....	46
C.2.1	Apparatus .....	46
C.2.2	Test method .....	46
C.3	Foot and hand entrapment .....	46
C.3.1	Apparatus .....	46
C.3.2	Test method .....	47
Annex D (informative) Aesthetic aspects on composite shells .....		48
D.1	General .....	48
D.2	Scope .....	48
D.3	Operating requirements and maintenance .....	48
D.3.1	General .....	48
D.3.2	Operating requirements .....	49
D.3.3	Maintenance .....	49
D.3.4	Influence of water quality .....	49
D.4	Discolourations and possible origins .....	50
D.5	Stains and possible origins .....	50
D.6	Repair of the aesthetic coating .....	53
D.7	Mechanical disorders affecting only the aesthetic layer .....	53
D.7.1	Aesthetic cracks .....	53
D.7.2	Surface protuberances .....	53
Bibliography .....		54