

DIN EN 1069-1:2017-11 (E)

Water slides - Part 1: Safety requirements and test methods

Contents		Page
	European foreword	4
	Introduction	6
1	Scope	7
2	Normative references	7
3	Terms and definitions	8
4	Classification	11
4.1	Type 1	11
4.2	Type 2	11
4.3	Type 3	11
4.4	Type 4	12
4.5	Type 5	12
4.6	Type 6	12
4.7	Type 7	12
4.8	Type 8	12
4.9	Type 9	12
4.10	Type 10	12
5	Materials and construction	13
5.1	General	13
5.2	Selection of materials	13
5.3	Certificates	13
5.4	Manufacturer and installer	13
5.5	Durability	13
5.6	Electrical installations	13
6	Design	14
6.1	Design guidelines	14
6.2	Design analysis	14
6.3	Static calculations	15
7	Safety requirements for water slides	21
7.1	General	21
7.2	Entrapment	21
7.3	Surfaces	21
7.4	Corners and edges	21
7.5	Access to water slides	21
7.6	Start section for Types 2 to 10	24
7.7	Slide proper	25
7.8	Tubes and covered sections	25
7.9	Final part	25
7.10	Splashdown areas	27
7.11	Accessories	27
7.12	Water supply	29
7.13	Interference between users	30
7.14	Interference between users and non-users	30
8	Additional safety requirements for Types 1 to 10	31

8.1	Slide proper	31
8.2	Splashdown area	35
8.3	Clearance zones	38
9	Check and test runs	39
9.1	General	39
9.2	Technical and physical checks	39
9.3	Practical test	39
9.4	Test report	40
10	Designation and marking	41
10.1	Designation	41
10.2	Marking	41
Annex A (normative) Splashdown areas		42
Annex B (normative) Use of stainless steels for water slides		47
B.1	General	47
B.2	Indoor swimming pools with disinfection with chlorine	47
B.3	Coatings and paintings	49
Annex C (normative) Design loads, accesses and platforms		50
C.1	Vertical imposed loads	50
C.2	Horizontal imposed loads	50
C.3	Stiffness	51
C.4	Stairs	51
D.1	Test devices	53
D.2	Description of the acceleration test method	53
Bibliography		54
Annex D (informative) Acceleration and speed measurements		53