aquaClimb® SPORT

PLANNING GUIDE

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All documents, values and distances are subject to technical changes.

The values determined by the manufacturer, Bodan Schwimmbadbau GmbH & Co. KG, during the project progression are vital exclusively.

AquaClimb Sport Data Sheet

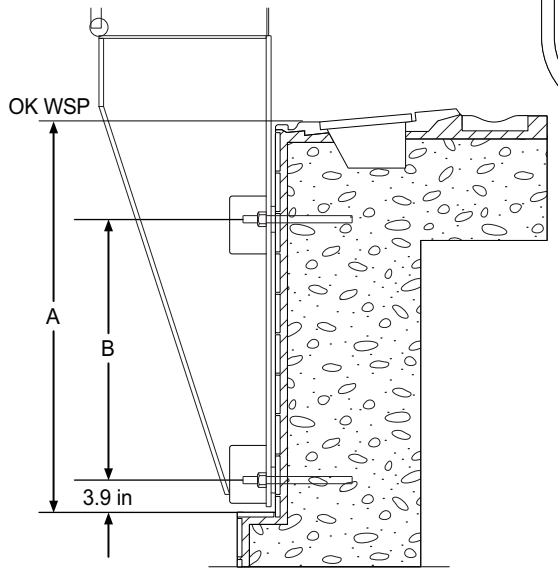
An installation is possible in all standard types of pools of all manufacturers: concrete, tiled concrete, stainless steel and plastic film pools.

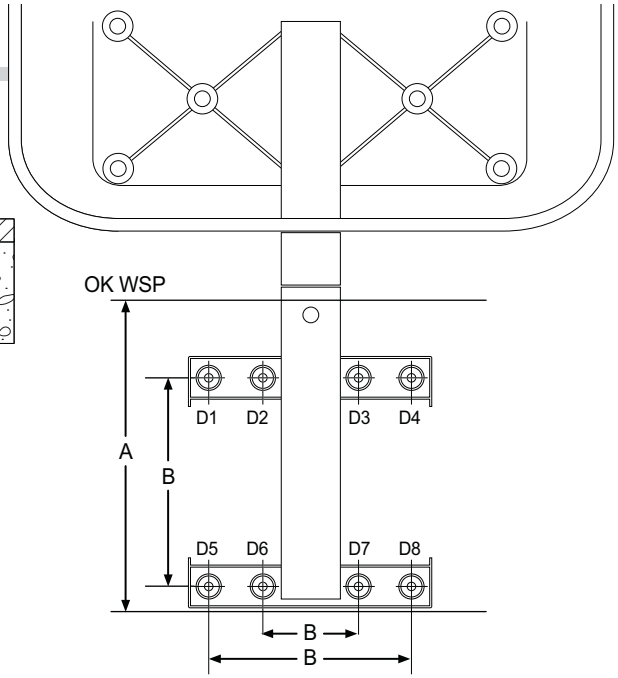
The anchor bolt presentation is systematic and it is dependent on the pool wall.

The standard axis dimensions as well as the entire underwater construction can be adapted to individual and different standing steps and standing step heights according the demands of the client.

All data and distances are subject to technical changes and the individual country regulations. The construction can be adapted from case to case. This could also have effects on the safety relevant loads and distances.

The values determined by the manufacturer, Bodan Schwimmbadbau GmbH & Co. KG, are vital exclusively during the project progression.



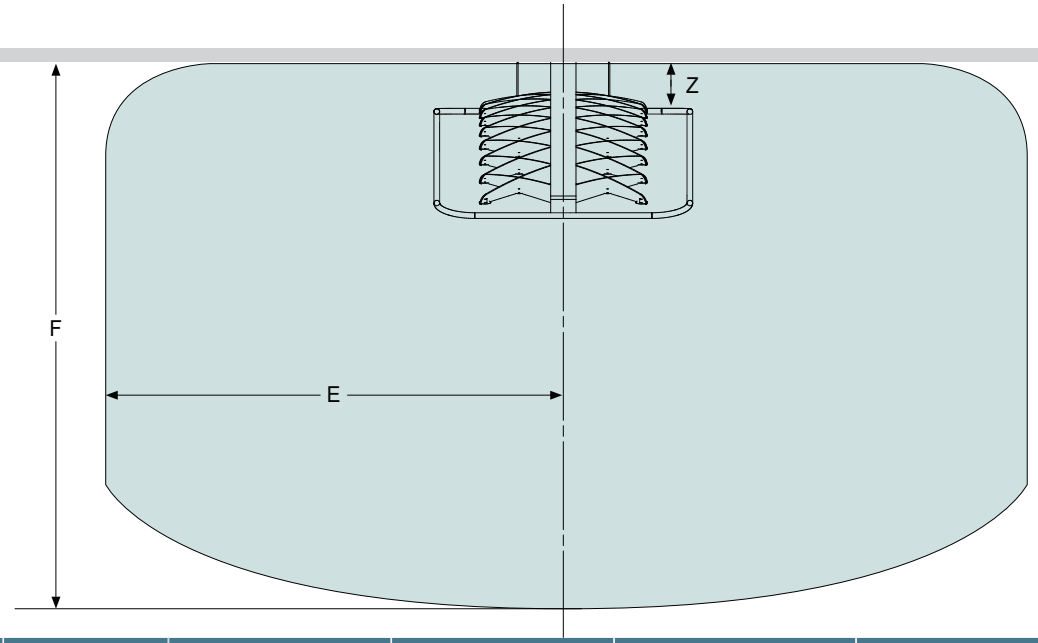


Model	Operation	Height above water	Max. handle height	Max. foot height	Total width	Total height	Total weight	Standard axis dimensions (if this is not possible, individually adaptable)	Anchor configuration (also see sheet on: load specifications)	Material	Equipment	Scope of delivery	Climbing handholds	Frequency of use	Maintenance intervals	Guarantee
								A, B, C1, C2	D1 - D8							
WSI500	Indoor	16.4 ft	13.1 ft	9.8 ft	6.8 ft	20.5 ft	1875 lbs	A = approx. 49 in B = 31 in C1 = 11.8 in C2 = 26 in	D1 – D8 alternative: D1, D4, D5, D8	Construction: polished stainless steel, optional powder coating of the upper part. Climbing surface: Makrolon		Climbing wall with preassembled climbing handholds incl. replacement handles, service box (content: torque wrench, harness for maintenance, security device, screw carabineer, replacement screws, small parts). CD with files for signs: usages notes, not in use sign, route definitions, detailed documentation	Handle set Nr.1 65 handles for 4 different climbing routes (incl. 25 addition handles to replace the routes)	80 Pers./h	General inspection: 12 months	2 years
WSO500	Outdoor								D1 – D8 alternative: D1, D4, D5, D8		UV-resistant Makrolon					
WSI600	Indoor	19.6 ft	16.4 ft	13.1 ft	6.8 ft	23.7 ft	2095 lbs	A = approx. 49 in B = 31 in C1 = 11.8 in C2 = 26 in	D1 – D8 alternative: D1, D4, D5, D8				Handle set Nr.2 75 handles for 4 different climbing routes (incl. 25 additiona handles to replace the routes)	75 Pers./h		
WSO600	Outdoor								D1 – D8		UV-resistant Makrolon					
WSI700	Indoor	22.9 ft	19.6 ft	16.4 ft	6.8 ft	27 ft	2315 lbs	A = approx. 49 in B = 31 in C1 = 11.8 in C2 = 26 in	D1 – D8				Handle set Nr.3 90 handles for 4 different climbing routes (incl. 30 additional handles to replace the routes)	70 Pers./h		
WSO700	Outdoor								D1 – D8		UV-resistant Makrolon					

AquaClimb Sport Data Sheet

All security distances were processed in cooperation with the TÜV Rheinland (technical inspection agency) taking into consideration the appropriate EN standard and through drop and jump tests.

All data and distances subject to technical changes and the individual country regulations.
The construction can be adapted from case to case. This could also have effects on the safety relevant loads and distances. The values determined by the manufacturer, Bodan Schwimmbadbau GmbH & Co. KG, are vital exclusively during the project progression.



Model	Necessary depth of water required at the sounding line	lateral distance to the edge of the pool	Frontal distance to the edge of the pool	Distance of the climbing surface from the edge of the pool to the standard water surface	lateral axis distance between several AquaClimb walls	frontal distance between two AquaClimb walls opposite each other	lateral distance L and the local depth M where a 30° slant of the floor of the pool can begin (analogous to EN 13451)	frontal distance I and the local depth K where a 30° slant from the bottom of the pool can begin (analogous to EN 13451)	Distance to the ceiling of the building above the upper edge of the AquaClimb wall	Distance in the air space e.g. to a diving board/ diving platform
	H	E	F	Z	S	T	L/M	I/K	P	
WSI500 WSO500	min. 11.6 ft	min. 12.7 ft	min. 19.7 ft	min. 1.5 ft	min. 20 ft	min. 36 ft	L = min. 5.9 ft M = min. 11.2 ft	L = min. 14.8 ft M = min. 11.2 ft	Smooth ceiling: 0.1m. If there are configurations on the ceiling which could lead to the grasping or entanglement of fingers: 1m	Safety distance in air space according to drawings.
WSI600 WSO600	min. 12 ft	min. 13.3 ft	min. 21.4 ft	min. 1.5 ft	min. 23.3 ft	min. 39.4 ft	L = min. 7.9 ft M = min. 11.6 ft	L = min. 16 ft M = min. 11.6 ft	Smooth ceiling: 0.1m. If there are configurations on the ceiling which could lead to the grasping or entanglement of fingers: 1m	Safety distance in air space according to drawings.
WSI700 WSO700	min. 12.2 ft	min. 14 ft	min. 24.7 ft	min. 1.5 ft	min. 24.7 ft	min. 46 ft	L = min. 10 ft M = min. 12 ft	L = min. 18.7 ft M = min. 12 ft	Smooth ceiling: 0.1m. If there are configurations on the ceiling which could lead to the grasping or entanglement of fingers: 1m	Safety distance in air space according to drawings.

Dimensions And Safety Distances – WSI500, WSO500

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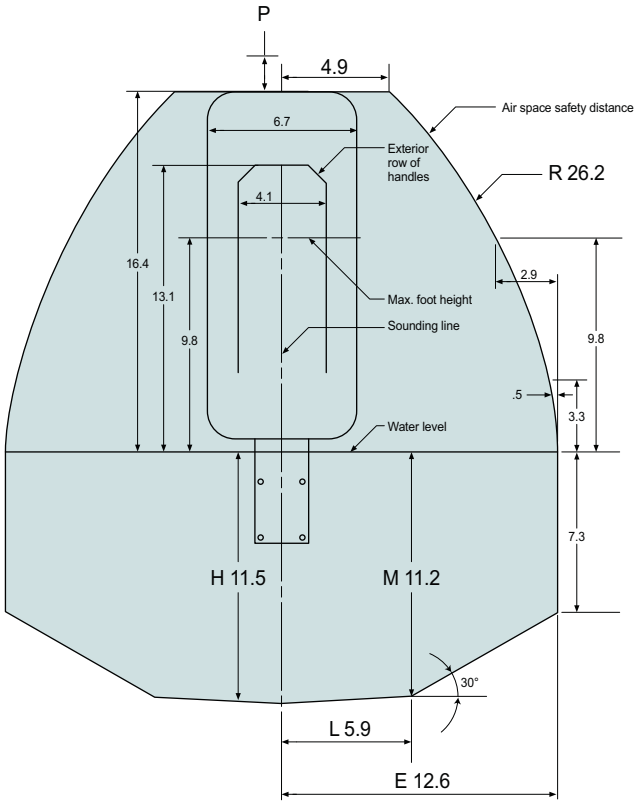

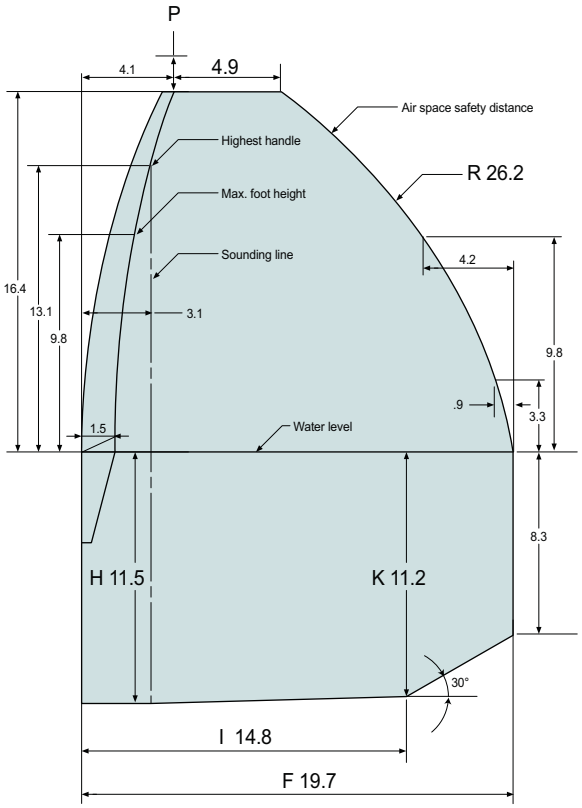

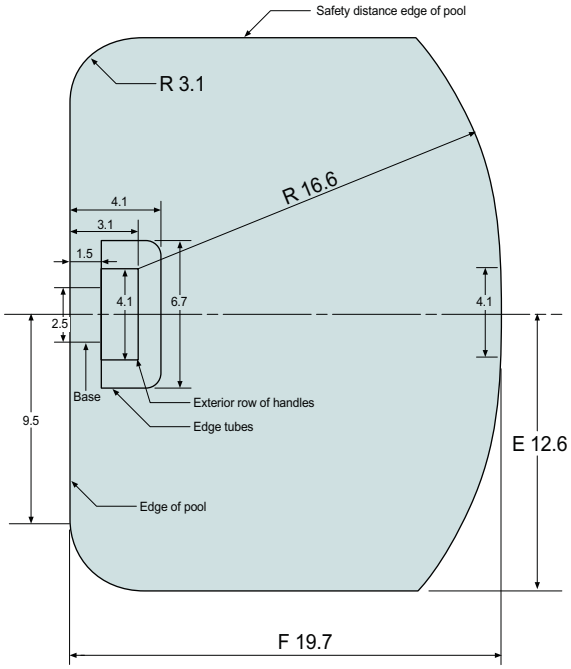

NOTE: ALL DIMENSIONS ARE LISTED IN FEET

Dimensions And Safety Distances – WSI600, WSO600

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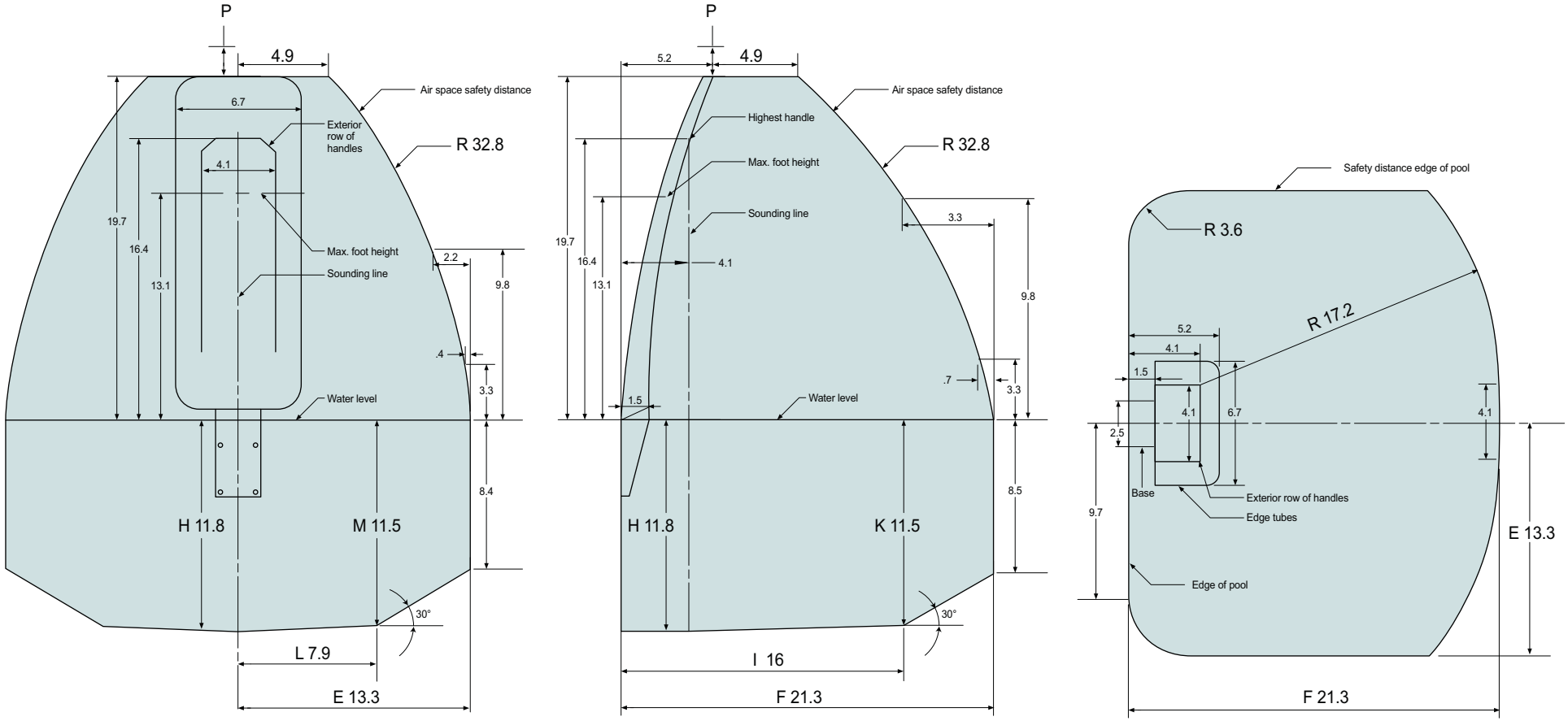

NOTE: ALL DIMENSIONS ARE LISTED IN FEET

Dimensions And Safety Distances – WSI700, WSO700

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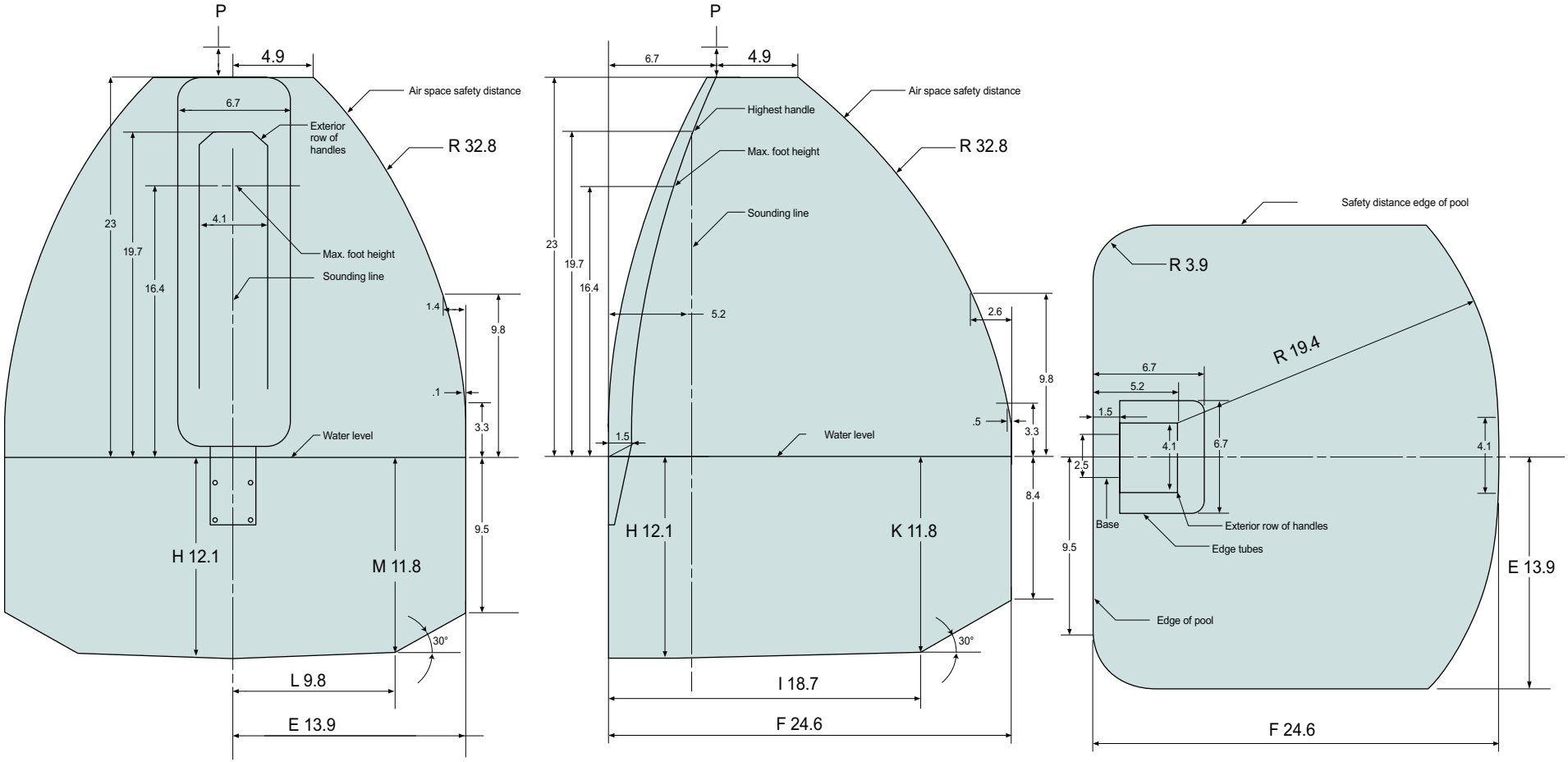
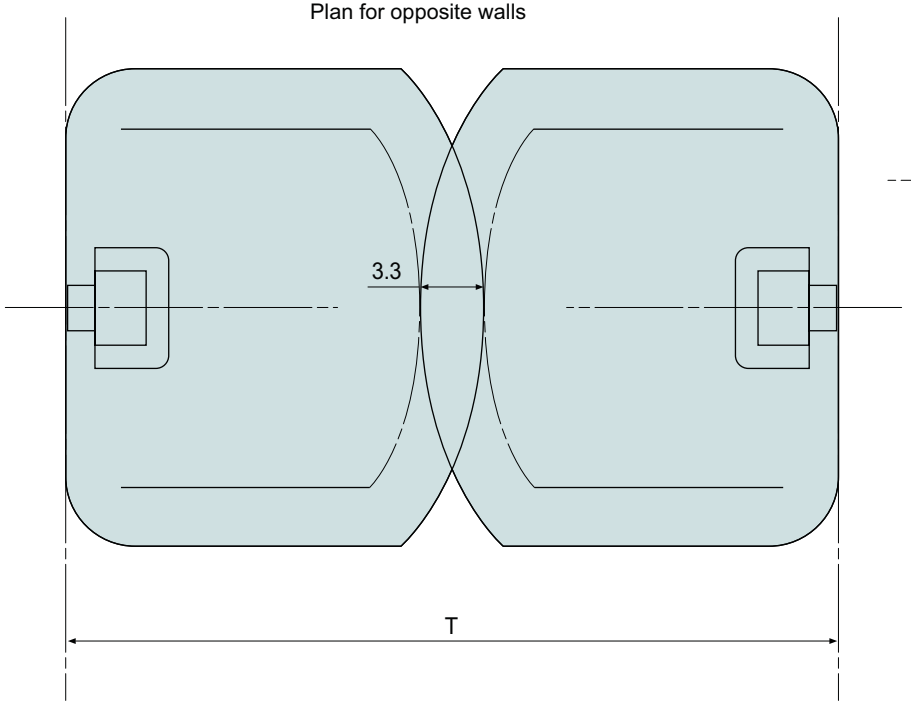


NOTE: ALL DIMENSIONS ARE LISTED IN FEET

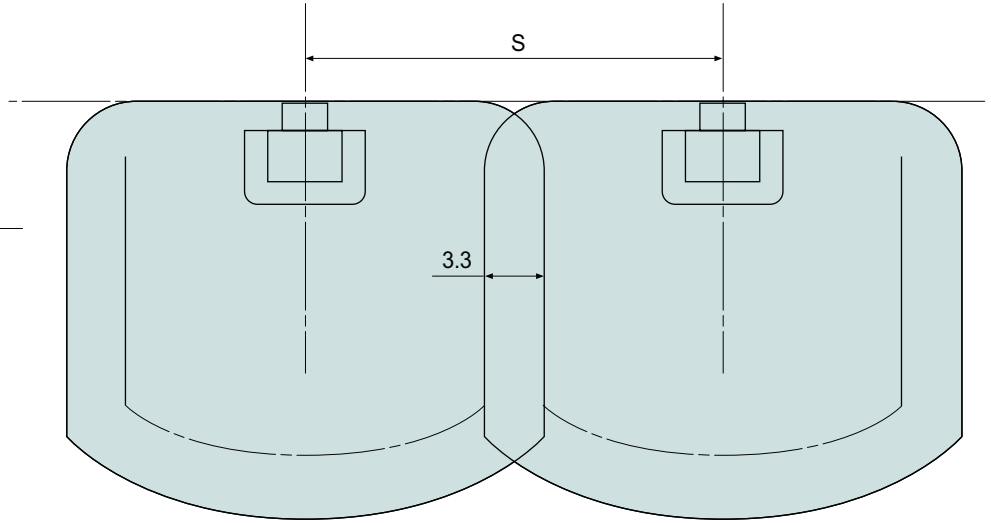
Safety Distances Between Multiple Walls

All security distances were processed in cooperation with the TÜV Rheinland (technical inspection agency) taking into consideration the appropriate EN standard and through drop and jump tests.

Plan for opposite walls



Plan for next to each other



NOTE: ALL DIMENSIONS ARE LISTED IN FEET

AquaClimb Sport Load Specifications

Model	Operation	Direction of force (in fastening axis)		Direction of force (horizontal to the fastening axis)		Direction of force (vertical to the fastening axis)	

Permissible values valid up to wind zone 2 (without coasts)

		Fx in kN		**Fy** in kN		**Fz** in kN	
		Fastening point pursuant to data sheet		Fastening point pursuant to data sheet		Fastening point pursuant to data sheet	
		D1, D2, D3, D4	D5, D6, D7, D8	D1, D2, D3, D4	D5, D6, D7, D8	D1, D2, D3, D4	D5, D6, D7, D8
WSI500	Indoor	**20.3** (D1, D4: **40.5**)	**10.3** (D5, D8: **20.5**)	**0.4** (D1, D4: **0.7**)	**0.4** (D5, D8: **0.7**)	**7.5** (D1, D4: **15**)	**3.5** (D5, D8: **7**)
WSO500	Outdoor	**25** (D1, D4: **50**)	**14** (D5, D8: **28**)	**0.4** (D1, D4: **0.7**)	**0.4** (D5, D8: **0.7**)	**8** (D1, D4: **16**)	**4.3** (D5, D8: **8.5**)
WSI600	Indoor	**27** (D1, D4: **54**)	**15** (D5, D8: **30**)	**0.4** (D1, D4: **0.7**)	**0.4** (D5, D8: **0.7**)	**9** (D1, D4: **18**)	**5** (D5, D8: **10**)
WSO600	Outdoor	**32.5**	**20**	**0.4**	**0.4**	**10**	**6**
WSI700	Indoor	**34**	**20**	**0.4**	**0.4**	**11**	**6**
WSO700	Outdoor	**41.5**	**27.5**	**0.4**	**0.4**	**12.5**	**7.5**

Permissible values valid up to wind zone 3

		Fx in kN		**Fy** in kN		**Fz** in kN	
		Fastening point pursuant to data sheet		Fastening point pursuant to data sheet		Fastening point pursuant to data sheet	
		D1, D2, D3, D4	D5, D6, D7, D8	D1, D2, D3, D4	D5, D6, D7, D8	D1, D2, D3, D4	D5, D6, D7, D8
WSI500	Indoor	**37.0**	**22.5**	**0.4**	**0.4**	**10.3**	**6.0**

For the types WSI500, WSI600 and WSO500 at the installation site in zone 2, the fastening is also allowed to be done on fastening points D1, D4, D5 and D8 only.

In this case, the comprising strengths for the measurements of the fastening device must be doubled. (data in brackets)

Remarks:

Maximum diameter for the fastening device D=24mm

If fastening devices greater than D=24mm are used, compensator sleeves must be used.

Models FHB dyn A4 (Manufacturer Fischer) are recommended when using anchor bolts.

When using tension anchors and/or screws, material A4 must be used.

The measurement and the selection of the fastening device must take place with an authorised specialist (structural designer)

For the measurements the information from statics pt. 6 and 7 must be taken into consideration.

Color Chart – Standard colors for the powder coating

The entire supporting structure is manufactured from polished stainless steel. For the interior area we recommend a powder coating. In the exterior area it is not absolutely necessary.

The upper part is coated in powder, the lower part of the construction in the water remains uncoated.

If desired both edge tubes of the Aqua Climb system can be coated in colour different to that of the system (e.g. signal colour).

RAL	
9003	Signal white
9002	Grey white
7035	Light grey
7001	Silver-grey
6034	Pastel turquoise
5024	Pastel blue
5015	Sky blue
5012	Light blue
3024	Luminous red

The following colours are available with a 15% additional charge:

1028	Melon yelow
1003	Signal yellow