

WATERCLIMBING®

Climbing walls for swimming pools

acc. to DIN 79001

“The wall is brilliant.”

“We only see smiling faces.”

“Visitors thank us for the wall with the fun they have using it.”

“It’s so cool! I want to do it again.”



WSO 600



WATERCLIMBING means adventure

CONTENTS

About WATERCLIMBING

5 - 13

Model series WS Fixed to pool wall

14 - 17

 Data sheet

28 - 29

Model series WU Fixed to pool deck


18 - 21

 Data sheet

30 - 31

Model series WD From water depth of 1.8m

22 - 25

 Data sheet

32 - 33

Special model WS-U

34 - 35

 Data sheet

34

Data sheets, colour charts, accessories, movie

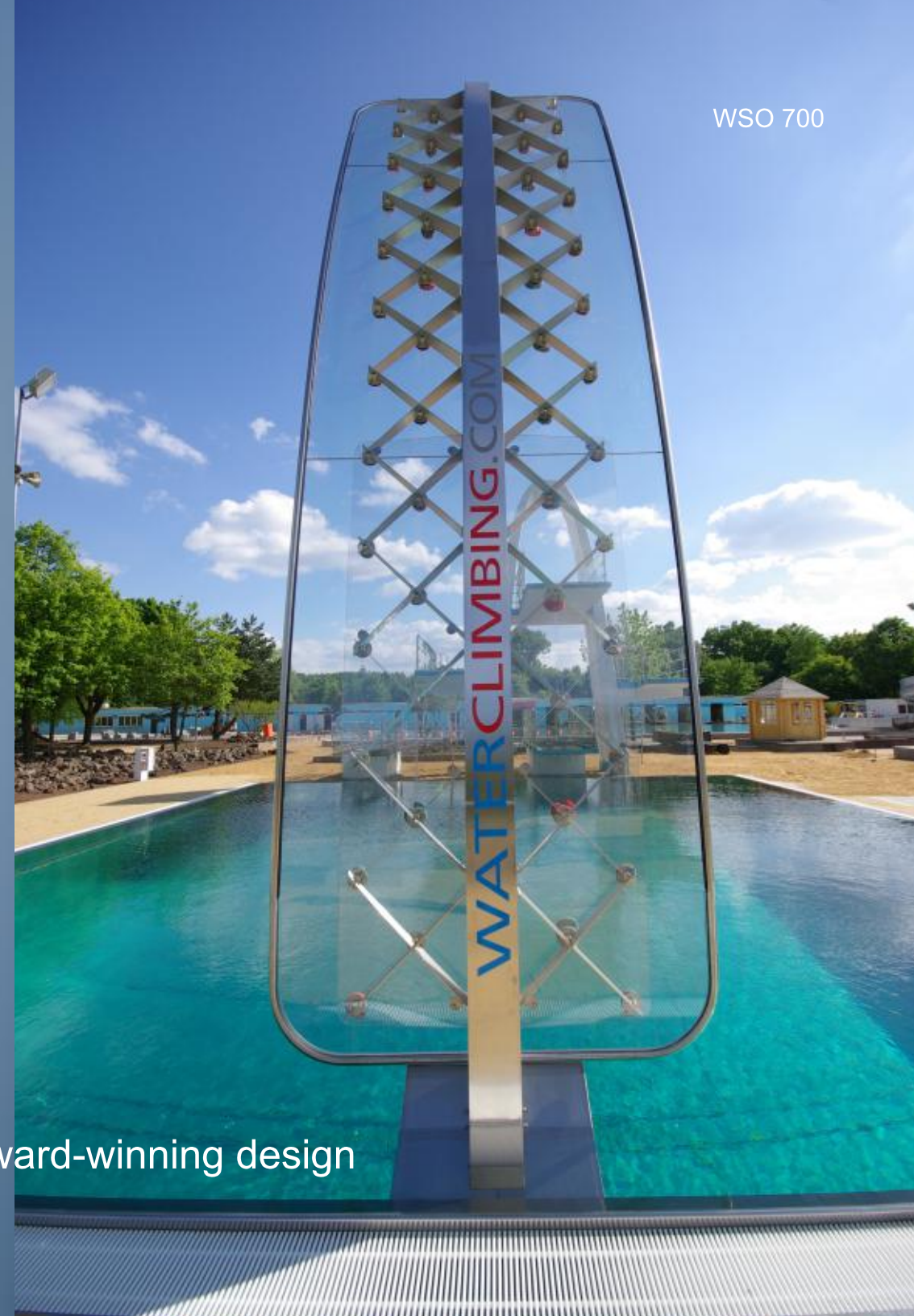
27 - 37

First steps, contact

39



WATERCLIMBING is award-winning design



WSO 700

THE SPORT

Rope-free climbing

WATERCLIMBING offers a unique link between the fascination of climbing, the world of water, and the challenges of a diving board.

Climbing without the use of ropes!

When you have reached the top of the wall, you jump. And if your strength gives out earlier, you fall into the water.

You don't need a safety partner, experience, or any special equipment. That is why WATERCLIMBING is the easiest and most straightforward way to try climbing.

WATERCLIMBING brings adventure to the pool!

Recommended by health insurance companies

Sports physician Dr Thomas Kurscheid, Generali Group:

“... The combination of strength required for climbing and movement in the water means that the entire body is used, and means that water climbing is brilliant fitness training. Climbing for the body and soul...”

PHILOSOPHY

Team

The WATERCLIMBING team is made up of experts in pool construction, sport climbing, usability, and product design.

Our motivation

Satisfied and sporty children, young people and adults who love moving and grow with their challenges.

In addition to walking and swimming, climbing is a basic means of human movement. We want to bring this (back) to as many people as possible in a simple and natural manner.

Our aspiration

It is our aspiration to offer the best, most secure, longest living, lowest maintenance, and most beautiful and joy-bringing product that state-of-the-art technology permits. And at a fair price.

EXPERTISE

Developed for swimming pools

We don't just put climbing wall next to pools. WATERCLIMBING equipment is specially developed for the high construction, architectural and technical safety demands in public swimming pools. Each WATERCLIMBING wall is a highly specialised and well thought out product.

The materials and construction are designed for longevity, a resistance to chlorinated water, and simple maintenance.

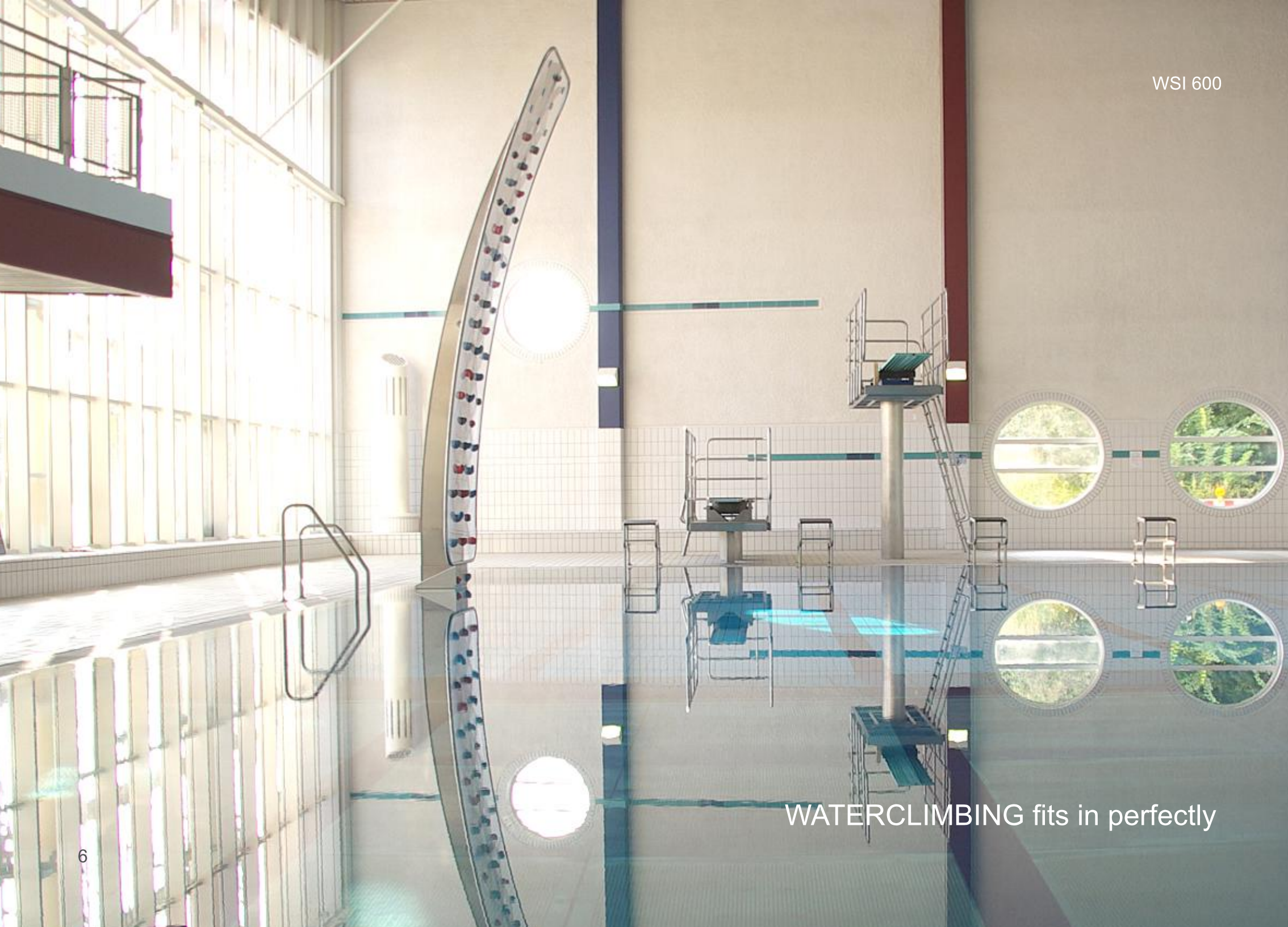
We constantly use our experience to improve our products and develop them further.

Award-winning design

WATERCLIMBING has been honoured at the famous “Stahl-Innovationspreis” for excellent design.

However, excellent design doesn't stop at the back – WATERCLIMBING is also a real eye-catcher from behind.





WATERCLIMBING fits in perfectly

ADDED VALUE

Extended target group

WATERCLIMBING extends the target group for a swimming pool and improves capacity uptake in the pool.

We know of guests who regularly travel over 100km to visit a pool that offers WATERCLIMBING.

High growth rates

WATERCLIMBING allows swimming pool operators to also benefit from the double-digit growth rates being enjoyed by climbing.

USP

In contrast to a diving board or a water slide, a WATERCLIMBING wall is usually a unique feature in a region. It attracts additional visitors.

Events

WATERCLIMBING is excellently suited for competitions and events, allowing additional opportunities to add value.

SAFETY

TÜV - DIN - EN - BFU DIN 79001

WATERCLIMBING equipment meets the latest DIN 79001, all other relevant DIN and EN standards, and BFU guidelines. Of course it is also TÜV-tested.

No accidents

There has not been a single reported accident at a WATERCLIMBING wall to date.

Pool operators report that WATERCLIMBING is simpler and safer to operate than diving boards.

Passive safety

Our strongest focal point for development is passive (construction-based) safety.

WATERCLIMBING equipment has a large number of well thought out details that improve safety. We have monopolised some of these with industrial property rights.

WHAT YOU NEED TO KNOW

Protected technologies

WATERCLIMBING is protected with numerous international patents, design rights, and brand rights.

Made in Germany

WATERCLIMBING equipment is produced entirely in Germany.

School sport

WATERCLIMBING is already a permanent feature in school sports in some areas.

Low investment

The cost of buying and maintaining WATERCLIMBING equipment is only a fraction of the costs required for the average water slide.

References

Currently (September 2017), about 60 WATERCLIMBING units have been installed in nine countries on two continents.



PRODUCT

Narrow, not wide

WATERCLIMBING walls are purposefully designed to be narrow. Even a wider climbing wall could only be operated safely with one climber at a time. However, the larger width would invite other climbers to start climbing the wall – with the undesired results of requiring more supervision and decreased safety.

This means that a simple but well thought out construction detail brings with it a significantly higher level of safety – and keeps the space required to a minimum.

70 people per hour

The frequency of use for a WATERCLIMBING wall is higher than you may initially think. On average, 70 people use the wall per hour.

Transparency

Indoors, the transparent climbing walls can even be installed in front of windows without losing any daylight..

This transparency provides charming and previously unknown perspectives of the climbers.

Special climbing grips for wet hands

In cooperation with a well-known climbing grip manufacturer, we have developed grips exclusive to WATERCLIMBING, which have been specially optimised for climbing with wet hands.

They are less rough than regular climbing grips, but still allow for an excellent grip. They are shaped to be particularly friendly to fingers and joints, and they dry quickly.

They have an integrated break protection system (BPS), twist blockers, and threadlock protection.

4 attractive, colour-coded, adjustable climbing routes

WATERCLIMBING walls have four colour-coded climbing routes of various difficulties.

These have been defined by climbers and are characterised by attractive sequences of movements. They cover the UIAA difficulty levels 3-8 and can be used by everyone – from beginners to ambitious sport climbers.

Delivery includes additional grips which can be used to modify the routes and a route definition – which guarantees long-term attractiveness.





CONSTRUCTION

Stainless steel frame

A central pylon with a stainless steel frame – this construction is not only a pleasure to look at, but also has two key functions:

All of the forces that impact the climbing grips are transferred directly to the bearing stainless steel frame (V4A). (Attaching the grips to the polycarbonate climbing surface would result in the plastic aging at an accelerated rate.)

The pylon includes the service system, invisible in normal operations.

This entire bearing construction is welded out of a single piece, which offers the following advantages:

- No crack corrosion at screw connections
- No protruding screws
- No sharp edges
- No clamping points

Special geometry for wall base

Model series WS

The patented design of the wall base means that the entry to the climbing wall is offset 45 cm into the pool.

This increases safety, as it increases the distance to the pool wall from the very start.

At the same time, it makes it easier to start climbing the wall, as this can be shaped to have a smaller overhang in the starting area. This ensures that the distances to the pool wall required by DIN 79001 can be observed, while also providing a gradual entry to the climbing wall.

This geometry is made possible by the particularly narrow construction for this model series – simultaneously offering a broader climbing area and greater safety.

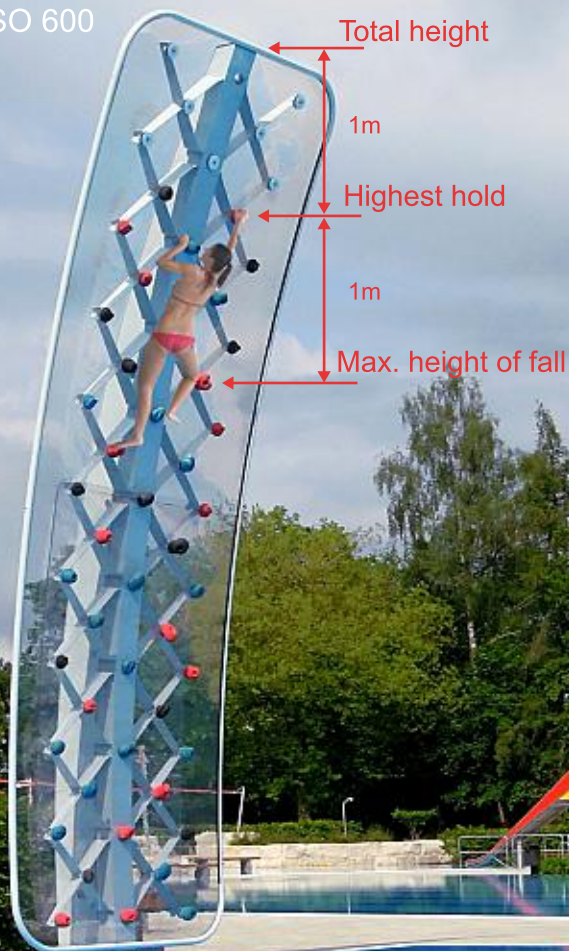
Minimal space requirement

The model series WS does not occupy any space or areas outside the pool, and does not obstruct the pool deck or escape routes. There are no tripping hazards.

For the WU and WD model series, the space used outside the pool is kept to a minimum. This is made possible by the unique pylon construction. No construction space is required within the pool itself.



WSO 600



HEIGHT

More height, more fun

The height gives climbers a real feeling of climbing and guarantees long-term attractiveness. The higher the climb, the higher the adrenaline levels, providing more fun and greater challenges.

We recommend fully exploiting the maximum wall height for the water depth available.

Total height, height of fall

The maximum height of fall is the total height (above water) minus 2m.

A 7m-high climbing wall thus corresponds to a 5m diving platform with regard to the height of fall.

See the example in the picture to the left:

Total height: 6m

-> Highest climbing hold: 5m

-> Max. height of fall: 4m

PLANNING

Location

Smaller walls can be mounted in all pool types depending on the water depth – sports pools, combined pools, etc.

For higher walls, a diving pool is the ideal location.

It is often the case that WATERCLIMBING walls can be integrated to allow simultaneous use with either all or some of the diving boards.

Public tenders

The full system and individual functional elements (integrated service system, entry aids, etc.) are protected by industrial property rights.

Usually a public tender is thus not required. (Interested parties must check this in individual cases).

INSTALLATION

Installation in all pool types

It is possible to install or retrofit the climbing walls in all pool types (concrete, concrete tiled, stainless steel, foil, etc.).

Installation generally takes two days.

We can also install the climbing walls using a helicopter in locations that are difficult for a crane or lifting gear to access.

MAINTENANCE

Service system

The patented services system saves maintenance costs by providing simple access to the water side of the climbing wall.

This is integrated into the pylon as a standard feature and thus makes it easier to clean the climbing areas and check the climbing routes as required by DIN 79001.

It is only possible to operate a water climbing wall at low cost thanks to the integrated service system.

(This means that there is no need for complex and expensive hydraulic platforms.)

OPERATION

Supervision

The transparent climbing areas mean that it is also possible to supervise the wall from the back. Depending on the location preferred by the pool's operating staff, this offers a substantial advantage – in particular when the diving boards and climbing wall are being used simultaneously.

Cleaning the gutter

WATERCLIMBING walls are attached to the pool wall or to the pool deck behind the gutter. Access to the gutter is therefore not impacted (DIN 19643).

Low operating costs

Operating costs are exceptionally low. In contrast to water slides, no electricity is required for pumps, and no energy is lost as a result of the heat-exchanger effect.

WSO 600

WATERCLIMBING is refreshing

WSO 600

WATERCLIMBING means quality
made in Germany



MODEL SERIES WS

Climbing wall with foundations at the pool wall

- No extra foundations
- No construction space outside the pool
- Best ratio of total width to climbable width
- Recessed underwater footholds
- Integrated service system

WSO 600

WATERCLIMBING looks good





WATERCLIMBING means sports and excitement

MODEL SERIES WS

WSO 600

No extra foundations

The model series WS is anchored directly at the pool wall. This has the advantage that, as a rule, no separate foundations are required.

No construction space outside the pool

This model does not occupy any space or areas outside the pool. The pool deck and escape routes are not restricted. There are no tripping hazards.

Narrow shape – wide climbing area

The special geometry of the wall's base makes it possible to achieve this model's particularly narrow shape and a wider climbing area at the same time. The ratio of the total width to the climbable width is unique.

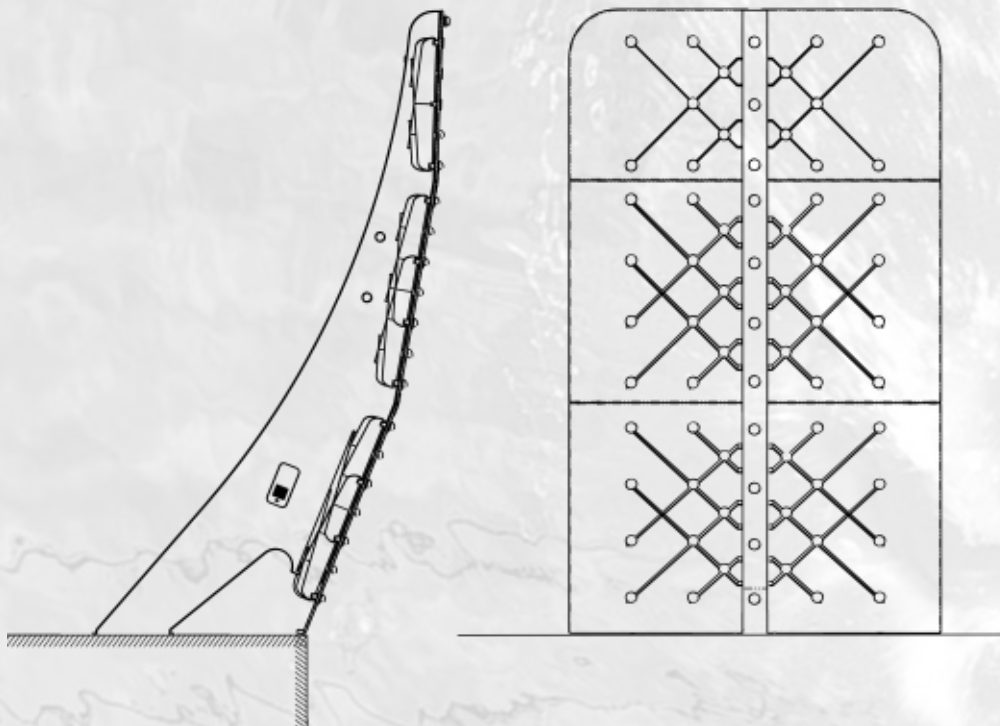
Entry aids

The recessed underwater steps integrated into the wall's base make it easy to enter the climbing wall. There are no protruding parts below water. The model series WS is the series with the least overhang when entering the wall.



MODEL SERIES WU

Climbing wall with foundations at the pool deck



- Ideal for sports pools
- No construction space within the pool
- Installation possible while pool is filled with water
- Integrated service system

WATERCLIMBING means
freedom from ropes





MODEL SERIES WU

Ideal for sports pools

The model series WU has its foundations outside the pool, at the pool deck behind the gutter. It is always used when anchoring at the pool wall is not desired – for example if it is a competition pool, or if the pool wall is not suitable for carrying the corresponding loads for static reasons.

No construction space inside the pool

No construction space is required inside the pool. Existing swimming lanes are not affected below the water's surface.

Installation

Outdoor pools:

An appropriate concrete foundation is cast before the wall is installed.

Indoor pools:

Anchoring is at the pool deck. A structural calculation is carried out for this.

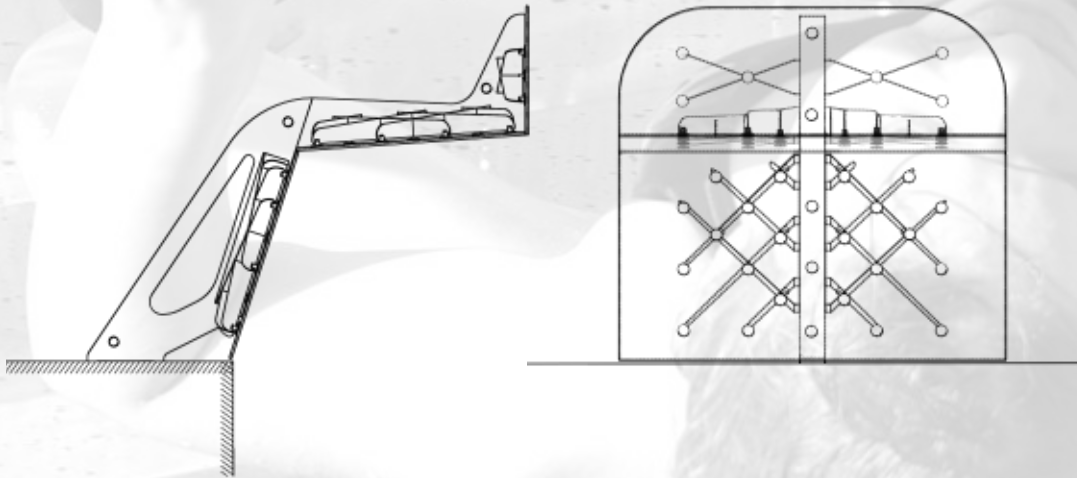
As a rule, installation is even possible while the pool is filled with water.



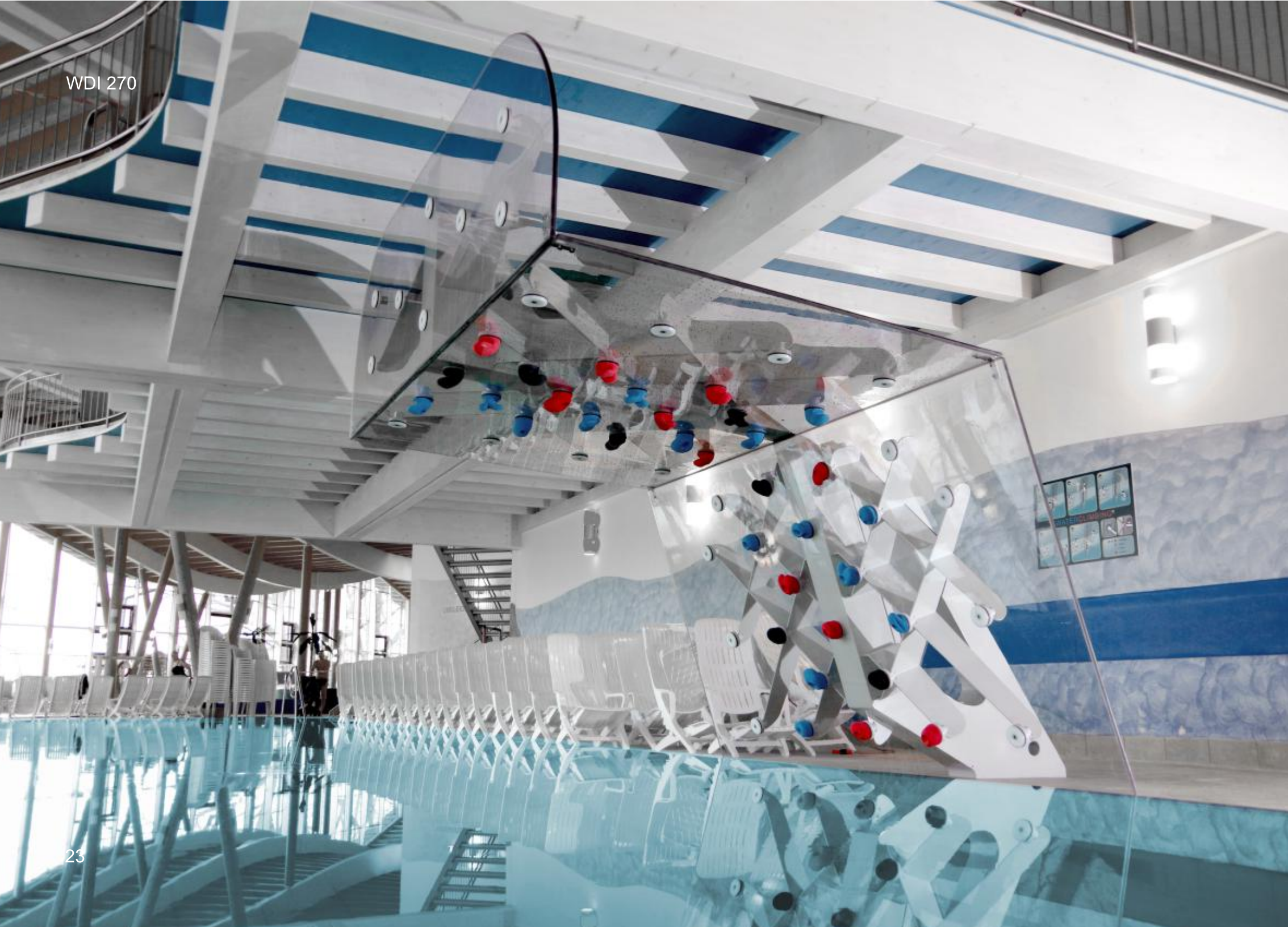
For low water depths:

MODEL SERIES WD

Climbing / boulder wall with a “roof”



- From 1.8m water depth
- Maximum length climbing route despite low height of fall
- No construction space within the pool
- Installation possible while pool is filled with water
- Fits in almost every pool



MODEL SERIES WD

From 1.8m water depth

This model series has been specially designed for low water depths.

Especially large climbing grips are attached to the almost horizontal part of the climbing wall (roof). This way, this initially daunting climbing route can be managed by less experienced climbers as well.

Long climbing route despite a low height of fall

Thanks to its “bent” construction, this climbing/boulder wall maximises the length of the climbing route. The length is comparable to a 5-6 meter high standard wall.

This guarantees maximum attractiveness – despite the low height of fall, giving users the real sensation of climbing!

Areas of use

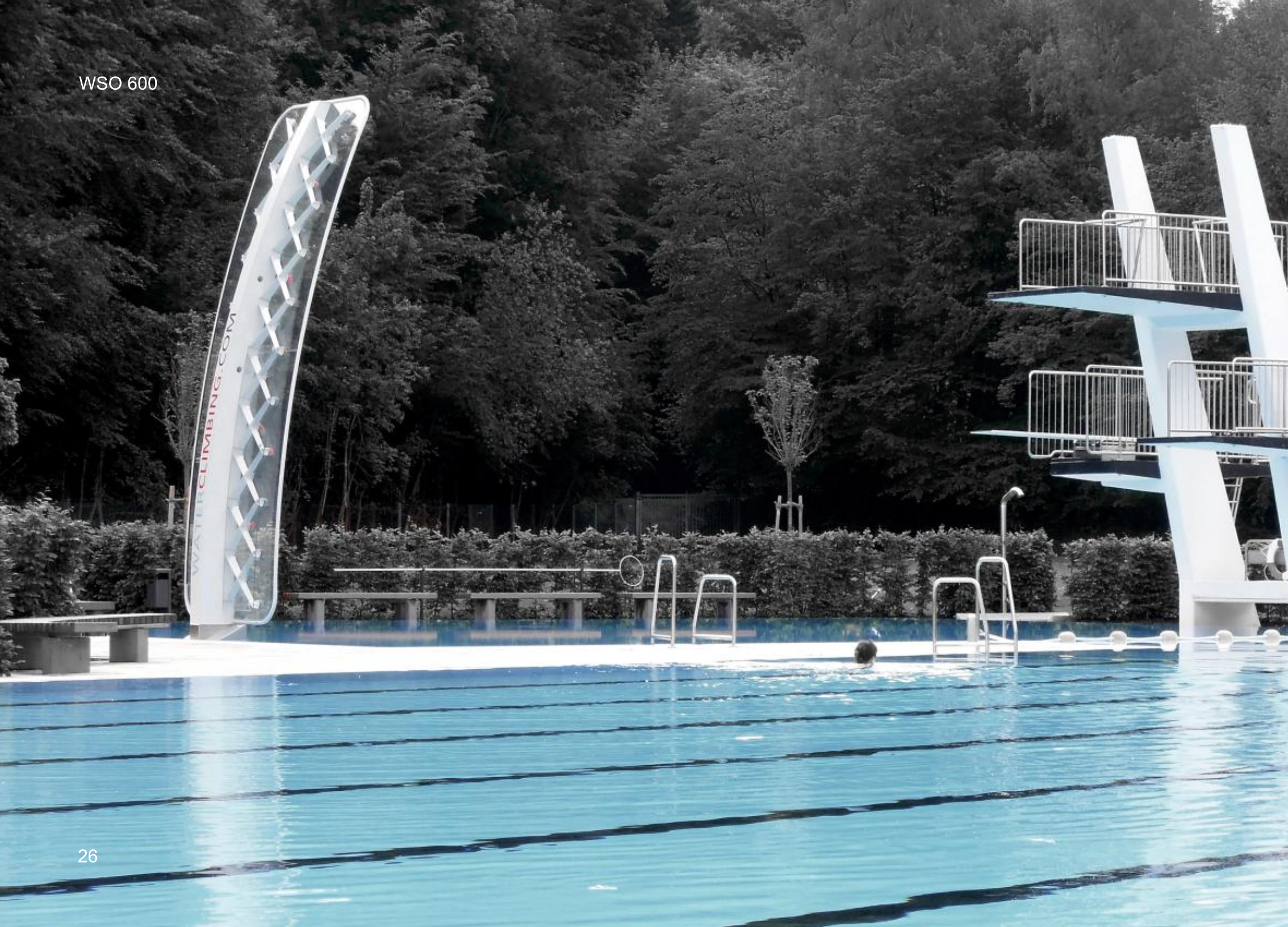
This model series is predestined for all pools with a water depth starting from 1.8 meters, in particularly swimming pools, sports pools, and combined pools.

Its unique construction means that this is an attractive climbing wall, which fits into practically any pool.





WSO 600



DATA SHEETS COLOUR CHART ACCESSORIES FIRST STEPS

Movie



Climbing wall fixed to pool wall

WSO 600



Wall base with recessed steps and deflection area

WSI 600



WSO 700



WSO 600 in RAL 7035



Areas of use:

- Our tried-and-trusted, best-selling model
- Extensive areas of use

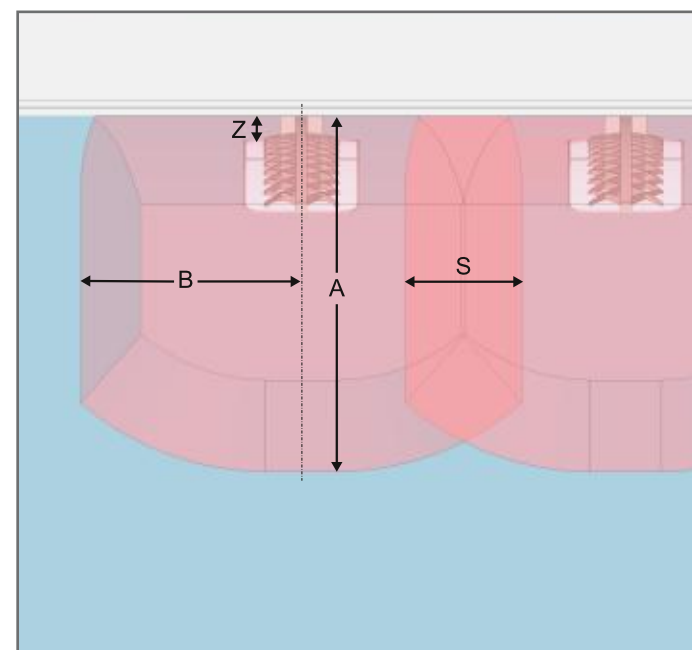
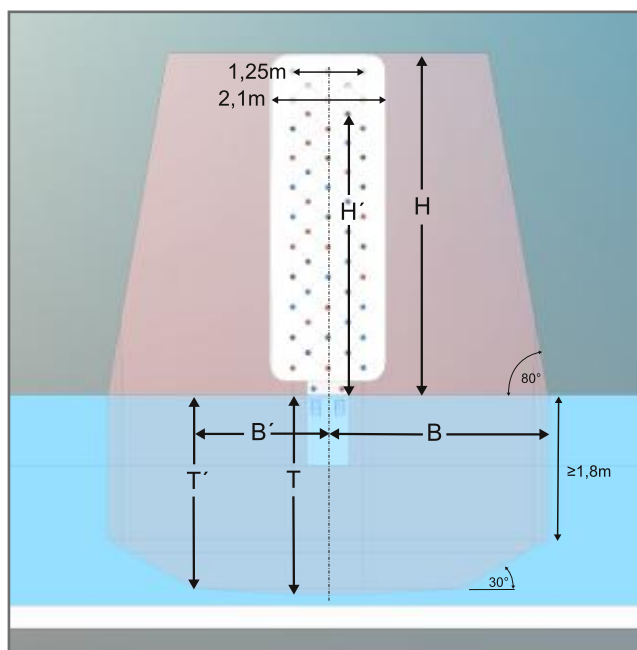
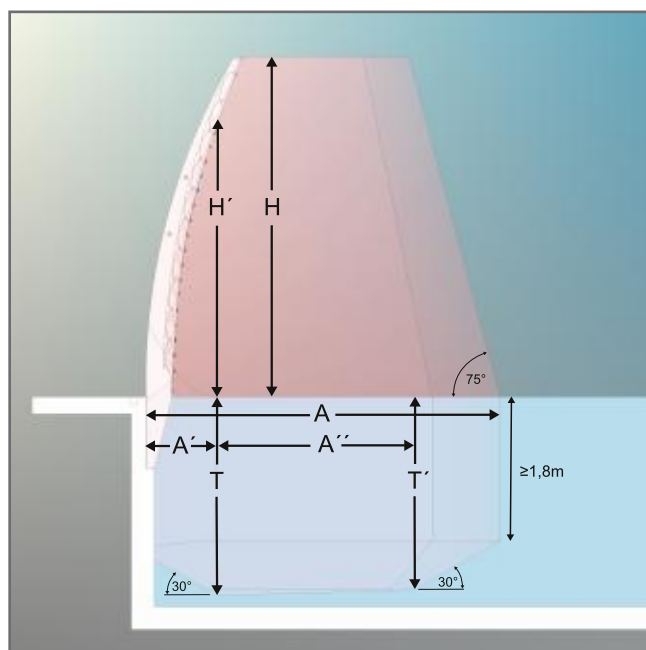
Special features:

- 2.1 m width (1.25 m climbing width)
- Best ratio of total width to climbable width
- No construction space used outside the pool
- In most cases no separate foundations required
- From 2.65 m water depth
- Concave climbing area

Specifications:

- Compliant with **DIN 79001**
- V4A stainless steel (powder coating optional)
- Polycarbonate climbing surface
- Climbing grips specially developed for wet skin
- 4 colour-coded climbing routes – from easy to difficult
- Includes extensive accessories
- Integrated, patented service system
- Underwater recessed steps
- Patented wall base geometry

All data and distances subject to technical changes and the individual country regulations.



	H	H'	T	T'	A	A'	A''	B	B'	S	Z
Distances according to DIN 79001	Height above water level	Height of highest climbing hold	Water depth at sounding line of the highest / outermost climbing hold	Water depth at distance	Frontal distance (to pool wall or obstacle)	Frontal distance	Frontal distance	Lateral distance (to pool wall or obstacle)	Lateral distance	Max. overlap with safety zones of attractions or diving boards used at the same time	Distance of climbing surface to pool wall at water level
WS 400	4.0	3.0	2.65	2.55	5.25	0.75	3.0	3.65	2.15	2.0	0.45
WS 500	5.0	4.0	3.30	3.20	5.45	0.95	3.0	3.65	2.15	2.0	0.45
WS 600	6.0	5.0	3.50	3.40	6.25	1.25	3.5	3.90	2.40	2.0	0.45
WS 700	7.0	6.0	3.70	3.60	7.10	1.60	4.0	4.15	2.65	2.0	0.45

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

Climbing wall fixed to pool deck



WUI 500



WUI 500



WUI 500



WUO 700

Areas of use:

- Competition pools, sports pools, diving pools
- Unsupported stainless steel pools
- Wave pools, pools with lifting platforms

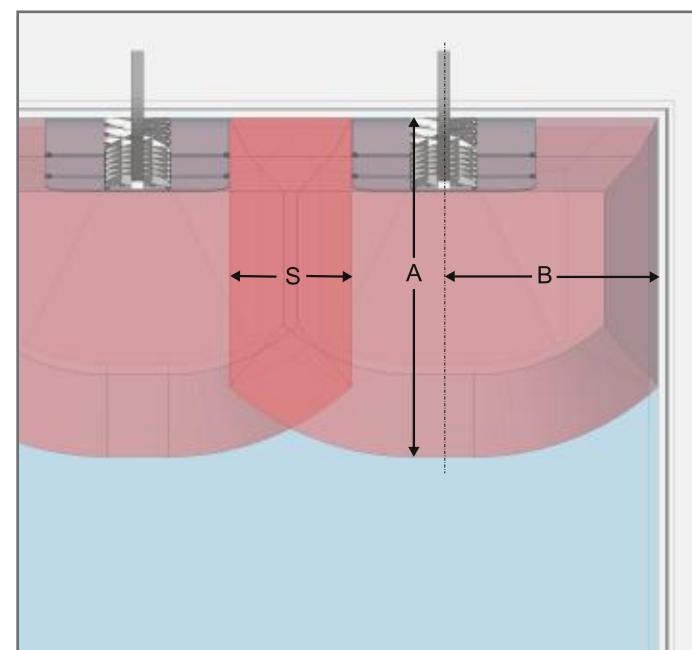
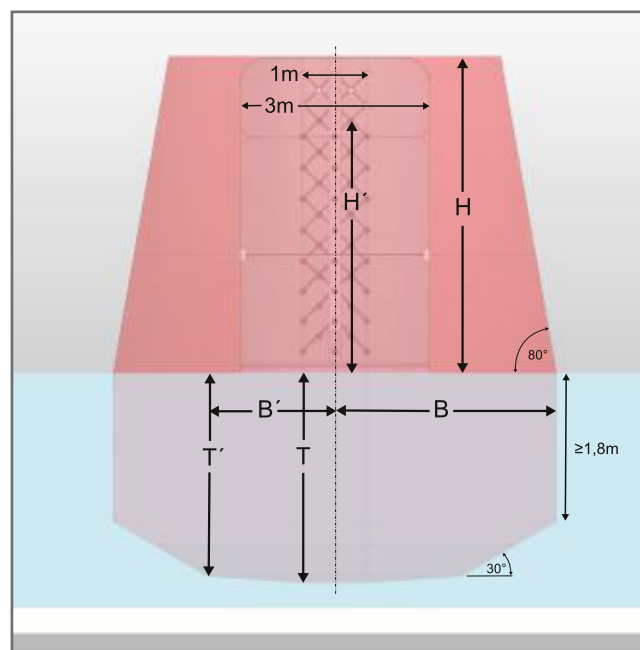
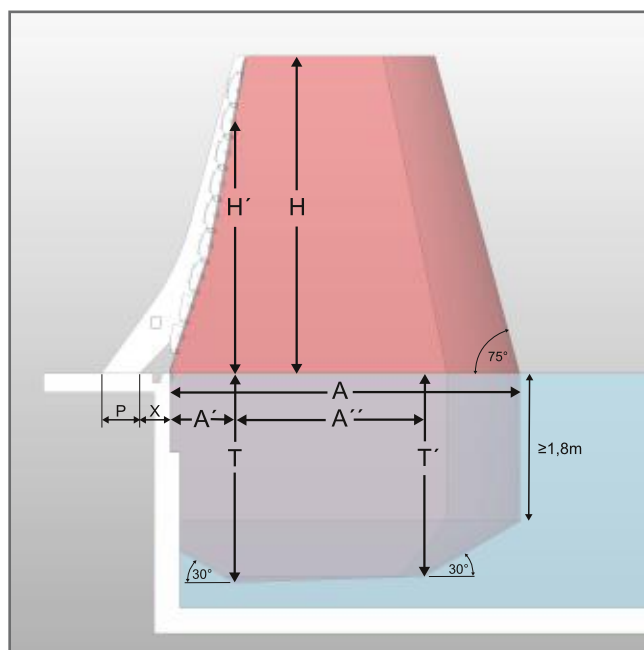
Special features:

- 3.0 m width (1.0 m climbing width)
- No construction space used inside the pool
- From 2.0 m water depth
- Quasi-convex climbing area

Specifications:

- Compliant with **DIN 79001**
- V4A stainless steel (powder coating optional)
- Polycarbonate climbing surface
- Climbing grips specially developed for wet skin
- 4 colour-coded climbing routes – from easy to difficult
- Includes extensive accessories
- Integrated, patented service system
- Patented entry aid
- Installation possible while pool is filled with water

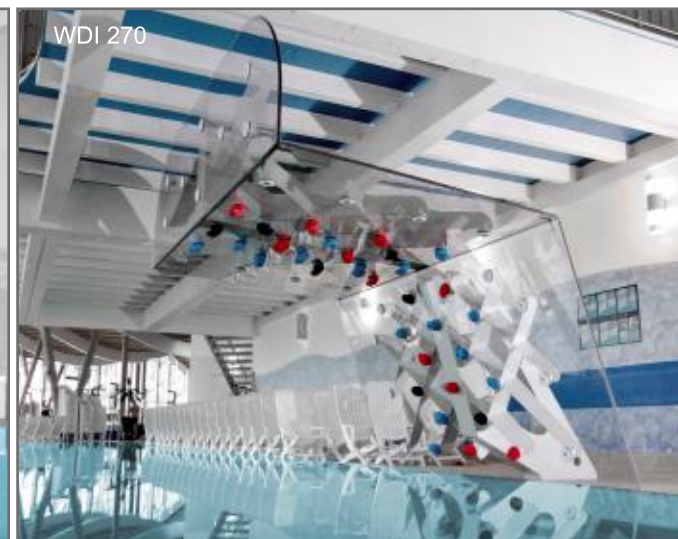
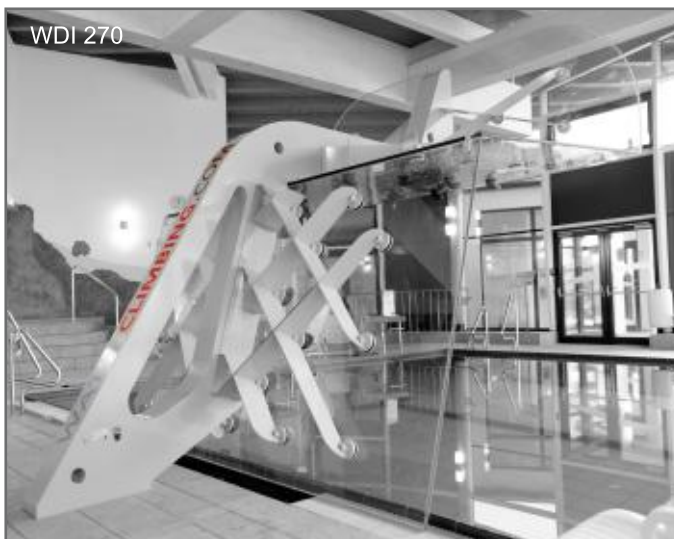
All data and distances subject to technical changes and the individual country regulations.



	H	H'	T	T'	A	A'	A''	B	B'	S	P	X
Distances according to DIN 79001	Height above water level	Height of highest climbing hold	Water depth at sounding line of the highest / outermost climbing hold	Water depth at distance	Frontal distance (to pool wall or obstacle)	Frontal distance	Frontal distance	Lateral distance (to pool wall or obstacle)	Lateral distance	Max. overlap with safety zones of attractions or diving boards used at the same time	Width of pylon	Distance pool wall to pylon (depending on circumstances)
WU 300	3.0	2.0	2.00	1.90	5.20	0.70	3.00	3.50	2.00	2.0	0.5	0.75 / 1.2
WU 400	4.0	3.0	2.65	2.55	5.38	0.88	3.00	3.50	2.00	2.0	0.5	0.75 / 1.2
WU 500	5.0	4.0	3.30	3.20	5.50	1.00	3.00	3.50	2.00	2.0	0.6	0.75 / 1.2
WU 600	6.0	5.0	3.50	3.40	6.20	1.20	3.50	3.75	2.25	2.0	0.6	0.75 / 1.2
WU 700	7.0	6.0	3.70	3.60	6.85	1.35	4.00	4.00	2.50	2.0	0.6	0.75 / 1.2
WU 800	8.0	7.0	3.90	3.80	7.50	1.50	4.50	4.25	2.75	2.0	0.6	0.75 / 1.2
WU 950	9.5	8.5	4.10	4.00	8.35	1.60	5.25	4.65	3.15	2.0	0.6	0.75 / 1.2

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

Climbing/boulder wall with “roof” (fixed to pool deck)



Areas of use:

- Swimming pools
- If no higher climbing wall is possible due to the water depth
- Fits in almost every pool

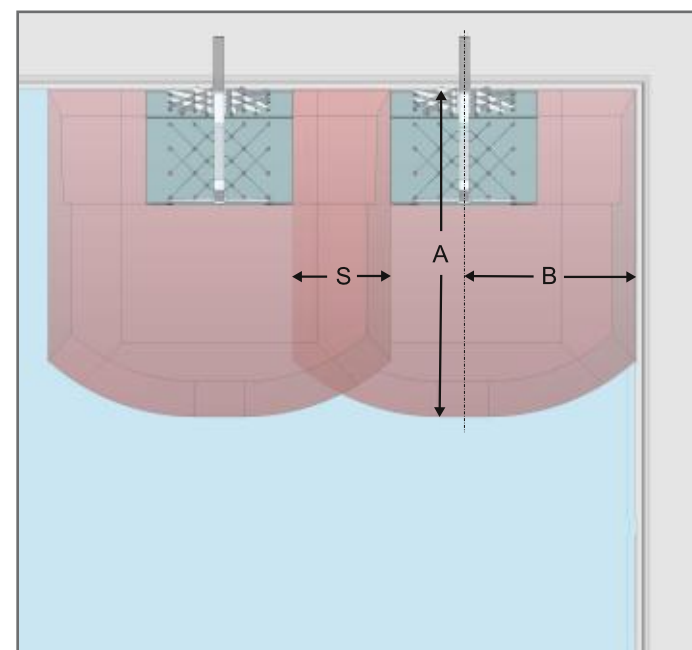
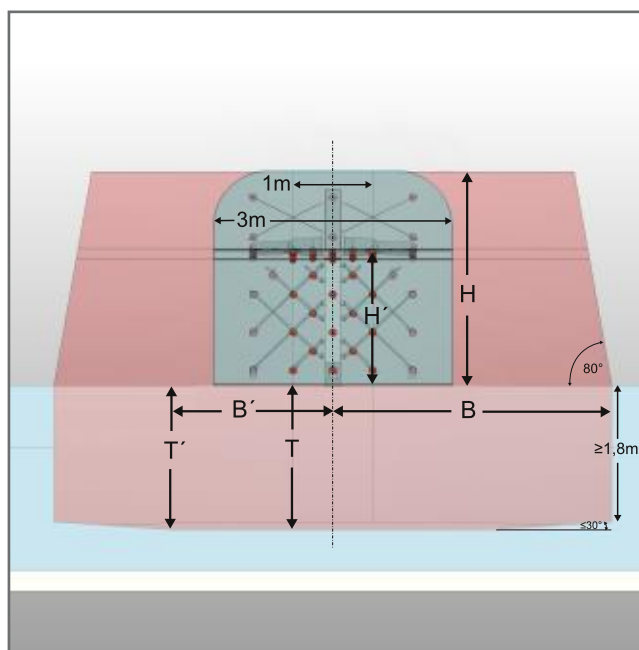
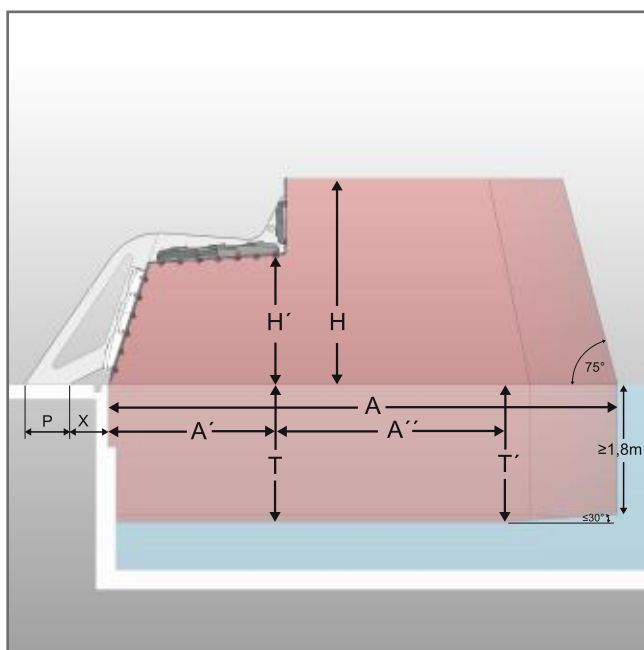
Special features:

- 3.0 m width (1.0 m climbing width)
- No construction space used outside the pool
- From 1.8 m water depth
- Bent construction with “roof”
- Maximum climbing route length despite low construction height

Specifications:

- Compliant with **DIN 79001**
- V4A stainless steel (powder coating optional)
- Polycarbonate climbing surface
- Climbing grips specially developed for wet skin
- 4 colour-coded climbing routes – from easy to difficult
- Includes extensive accessories
- Patented entry aid
- Installation possible while pool is filled with water

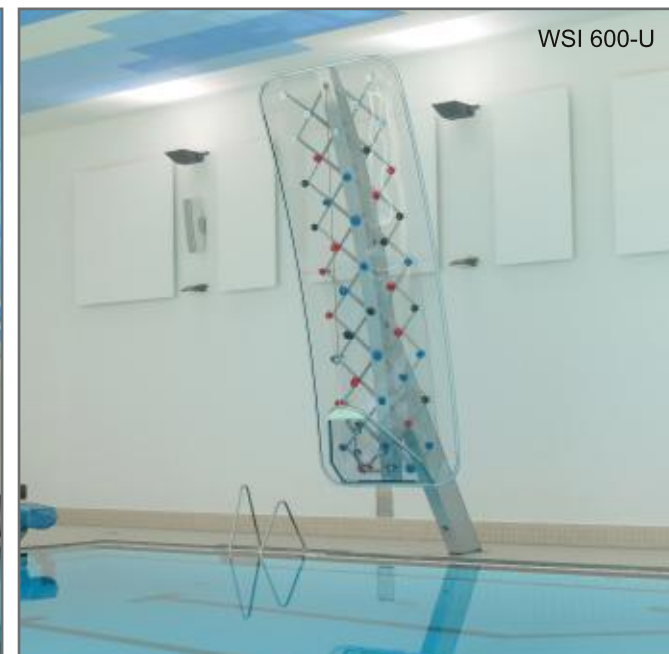
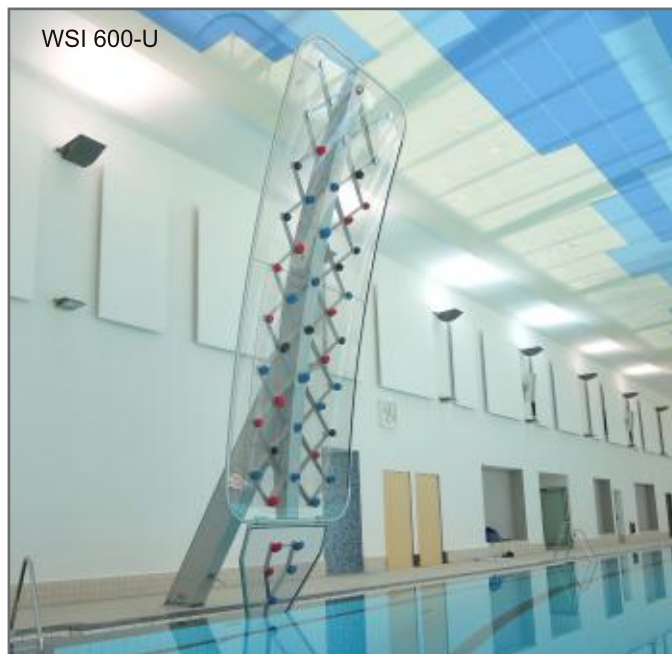
All data and distances subject to technical changes and the individual country regulations.



	H	H'	T	T'	A	A'	A''	B	B'	S	P	X
Distances according to DIN 79001	Height above water level	Height of highest climbing hold	Water depth at sounding line of the highest / outermost climbing hold	Water depth at distance	Frontal distance (to pool wall or obstacle)	Frontal distance	Frontal distance	Lateral distance (to pool wall or obstacle)	Lateral distance	Max. overlap with safety zones of attractions or diving boards used at the same time	Width of pylon	Distance pool wall to pylon
WD 270	2.70	1.69	1.80	1.80	6.70	2.20	3.0	3.5	2.0	2.0	0.6	0.6
WD 300	3.00	2.00	2.00	1.90	6.85	2.35	3.0	3.5	2.0	2.0	0.6	0.6
WD 375	3.75	2.75	2.50	2.40	6.85	2.35	3.0	3.5	2.0	2.0	0.6	0.6

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

Climbing wall with foldable base (fixed to pool deck)



Areas of use:

- Competition pools, sports pools
- Combines the advantages of model series WS and WU
- Best ratio of total width to climbable width

Special features:

- 2.1 m width (1.25 m climbing width)
- Foldable base
- No construction space used inside the pool
- From 3.3 m water depth
- Concave climbing area

Specifications:

- Compliant with **DIN 79001**
- V4A stainless steel (powder coating optional)
- Polycarbonate climbing surface
- Climbing grips specially developed for wet skin
- 4 colour-coded climbing routes – from easy to difficult
- Includes extensive accessories
- Integrated, patented service system
- Patented foldable wall base, which allows the climbing wall to be blocked for use. When blocked it does not take up any space inside the pool.

All data and distances subject to technical changes and the individual country regulations.

SPECIAL MODEL WS-U

Foldable wall base

Model with foldable entry to climbing wall

If the lower part of the climbing wall is folded up, the climbing wall is automatically blocked for use and protected from undesired climbing.

The external dimensions for this model series are narrower than for the WU model series, and the usable climbing width is slightly larger.

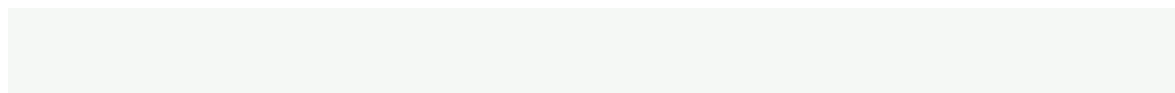
Standard colours for optional powder coating

The entire bearing construction is made of ground stainless steel.
 In outdoor areas, a powder coating is not technically necessary, but can be added as an option.
 For indoor pools we recommend powder coatings.
 Underwater parts are not coated.

Additional RAL colours available on request.

RAL

9003 signal white



7035 light grey



6034 pastel turquoise



6018 yellow green



5024 pastel blue



5015 sky blue



1023 traffic yellow



Accessories

WATERCLIMBING®

Barrier cover

Area of use: Outdoor pool

Material: PVC

Blocked sign

Area of use: Indoor pool

Material: Rigid foam
Size: 540 x 400mm

Rail with sign

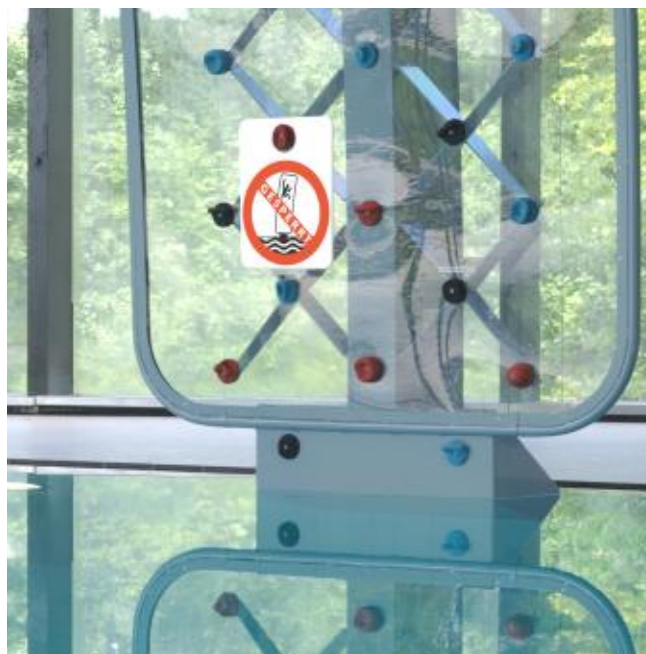
Area of use: universal

The "Instructions for use" sign can also be used on other surfaces, for example as an adhesive film on the wall.

Printable files are included in the standard scope of delivery.

Material: stainless steel, plastic

Size: 1400 x 845mm



All data and distances subject to technical changes and the individual country regulations.



WATERCLIMBING - on its way to you?

WSO 600



WSO 500

First steps to your WATERCLIMBING wall

Do you want to find out more?

Do you have any questions?

Do you need help planning your wall?

Please get in touch with us:

Mail: info@waterclimbing.com

Web: www.waterclimbing.com

Fax: +49 (0) 911 66 46 96 - 18

Phone: +49 (0) 911 66 46 96 - 20

Ideally you should have the following available:

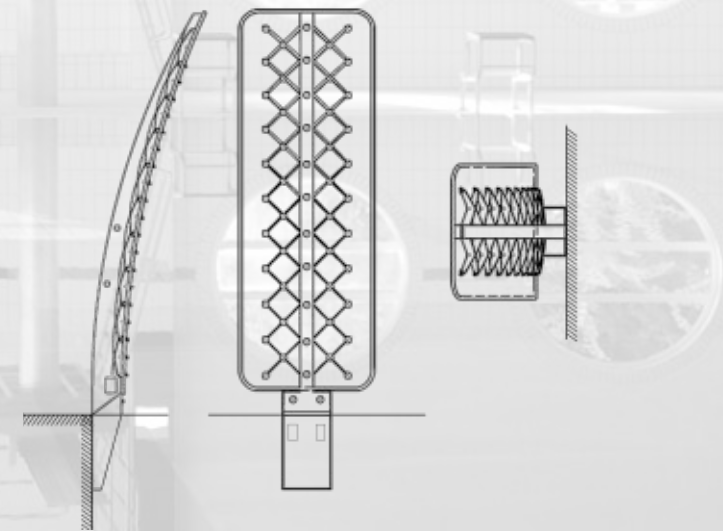
- Pool plan
- Cross section of pool wall and gutter
- Photos of the planned installation location
- Photos of the access

For architects and planners:

We are happy to support you. If required we can also provide you with digital data:

- High resolution photos
- 2-D CAD data
- 3-D CAD data

Website





info@waterclimbing.com
www.waterclimbing.com
+49 (0) 911 66 46 96 - 20

