

A tribute to the staircase

Essentially, stairs open up different areas of a building. From an aesthetic point of view, however, stairs are a gift for designers. They often have a truly sculptural character, which is skilfully accentuated by the right choice of tile covering. For example, with a 145-centimetre-wide stair tile, as offered by Agrob Buchtal in many collections.

Thanks to this large format, the steps can be completely covered using a single tile without intermediate joints. This is a real gain, both aesthetically and in terms of workmanship.

For the leading international supplier of architectural ceramics, modular tile series with a wide range of colors, formats and slip-resistant surfaces are part of its brand identity. In addition to flat products for walls and floors, the focus is on functional products with solutions for architecturally and technically demanding spatial ideas and conditions. Thanks to the variety of designs in the collections, different style worlds can be harmoniously realised.



Factory series





Physical building requirements

Frost-resistant Impact-resistant

Design requirements

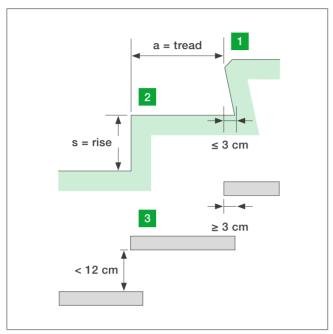
Variety of colors and shapes

Technical requirementsSubstrate (gradient in outdoor areas) Detailed solutions Slip-resistant

Environmental requirements Sustainable building material Resistant to environmental influences Increases the value of the property Low-maintenance thanks to Hytect coating

Regulations / Standards

Steps



Gradient ratio (s/a)

The dimensions of the treads and risers depend on the length of stride. For adults, this is between 59 and 65 cm. Ideally, all stairs in the building should have the same rise ratio. However, this should always be the case within individual flights of stairs.

Step dimension formula: $62 \text{ cm} \le 2 \text{ s} + a \le 65 \text{ cm}$

Safety formula: $45 \text{ cm} \le a + s \le 47 \text{ cm}$ Comfort formula: $a - s \approx 12 \text{ cm}$

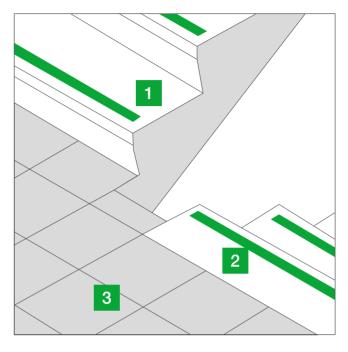
Step designs

- Closed risers with an undercut ≤ 3 cm are among the safest types of steps.
- Vertically closed steps with short treads can be dangerous when walking downstairs if the tread area is too small. When walking upstairs, they harbour the risk of tripping by getting stuck.
- 3. For open risers: undercut \geq 3 cm and openings $< \emptyset$ 12 cm

Stair treads

The following designs have proven to be effective in preventing tripping or injuries when falling on stairs:

- 1. Bevelled/chamfered leading edge ≤ 10 mm
- 2. Rounded leading edge; $2 \text{ mm} \le r \le 5 \text{ mm}$



Visibility of tread edges / leading edges

Highlighting the leading edges of steps using additional systems can help to prevent tripping or slipping on the edge as a safety measure. In addition, leading edges 1 and 2 should contrast with the rest of the floor covering 3.

Make visible through:

- · Color and light/dark contrasts
- Change of material

Non-slip and Hytect

Slip-resistance classes R10 and R11 as well as variants with grooves ensure a safe tread even in wet conditions. The Hytect surface finish reduces cleaning effort to a minimum, degrades air pollutants and odours, and has an antibacterial effect without chemical substances – an important criterion when stairs are not only walked on, but also used for lingering on or learning, for example in schools.

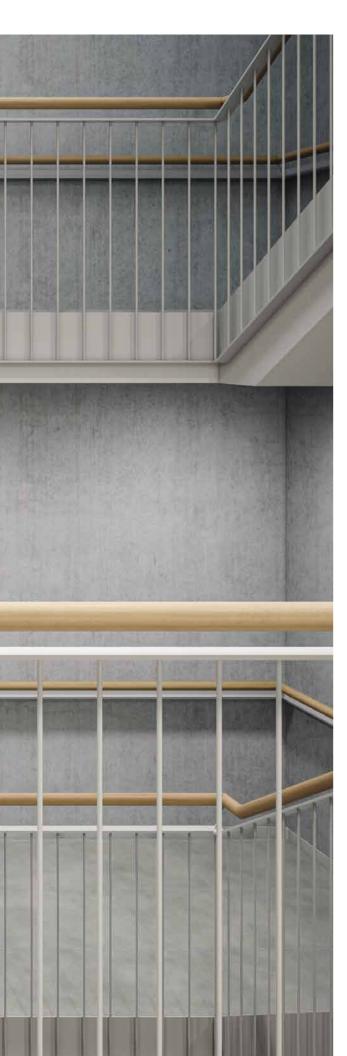
Standards (D)
The individual stair elements must be easily recognisable for visually-impaired people.

This is achieved, for example, by step markings:
• 4 cm to 5 cm wide on treads
• min. 1 cm, better 2 cm, on risers

A tactile guide tile should be positioned at the beginning and end.









Beautiful and functional staircase design with just one tile

Agrob Buchtal stair tiles in a width of 145 cm cover a stair without joint and are easy to install. This makes the staircase appear more spacious and elegant.

Formats

Stair tiles		
30 x 30 cm (with grooving)	30 x 60 cm (with grooving)	
30 x 120 cm (with grooving)		
60 x 120 cm (with grooving)		
31 x 145 cm (with bevel)		

Step riser	
28 x 145 cm	
Stair edges	
4 x 60 cm	
7.2 x 60 cm	
7.2 x 120 cm	
7.2 x 145 cm (with bevel)	
Internal angle External angle	
U 10.2 x 2.0 cm	
Sockel	
7 x 20 cm (cut) 7 x 30 cm (rounded, cut)	
6 x 50 cm (cut) 6 x 60 cm (rounded, cut) 7 x 60 cm (rounded, cut)	
Cove skirtings, decorative	
10 x 10 cm 10 x 15 cm 10 x 20 cm 10 x 25 cm 10 x 30 cm	_
10 x 50 cm 10 x 60 cm 15 x 60 cm	

Matrix

	Stair tiles wit	h grooving			Stair tiles with bevel	Stair tiles with bevel and grooving	Step riser	Stair e	dges	Stair edges with bevel		
Formats in cm	30 x 30	30 x 60	30 x 120	60 x 120	31 x 145	31 x 145	28 x 145	4 x 60	7.2 x 60	7.2 x 120	7.2 x 145	
Area Pro	•	•		•	•	•	•	•	•	•	•	
Aruba		•										
Ascona					•	•	•					
Basis 3	•											
Basis Pro		•										
Emotion		•										
Emotion GRIP	•											
Factory			•									
Like		•										
Nova		•			•		•					
Oak			•									
Quarzit					•		•					
Sierra		•										
Skill		•	•									
Solid Ground		•			•		•					
Solid Rock		•										
Stone Duo		•		,								
Stories		•										
Strata		•		•	•	•	•	•	•	•	•	
Streetlife Metallic	0		•									
Trio		•	•									
Unique		•										
Valley		•										



Skirting, cut				Skirting, rounded			with bevel	Cove sk	irting, de	corative						Internal angle	External angle		
	6 x 50	6 x 60	7 x 20	7 x 30	7 x 60	6 x 60	7 x 30	7 x 60	10 x 20	10 x 10	10 x 15	10 x 20	10 x 25	10 x 30	10 x 50	10 x 60	15 x 60	10.2 x 2.0	10.2 x 3.5

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Agrob Buchtal Solar Ceramics GmbH Buchtal 1, D-92521 Schwarzenfeld Tel.: +49 (0) 94 35-391-0 Fax: +49 (0) 94 35-391-34 52

E-mail info@agrob-buchtal.de Internet www.agrob-buchtal.de





