

Ceramic staircases

Attractive design of steps and stairs using ceramic tiles

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 requirements

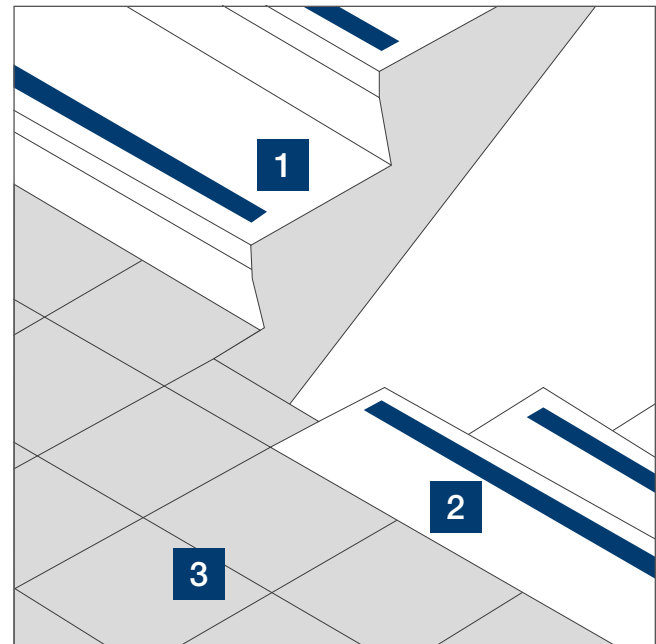
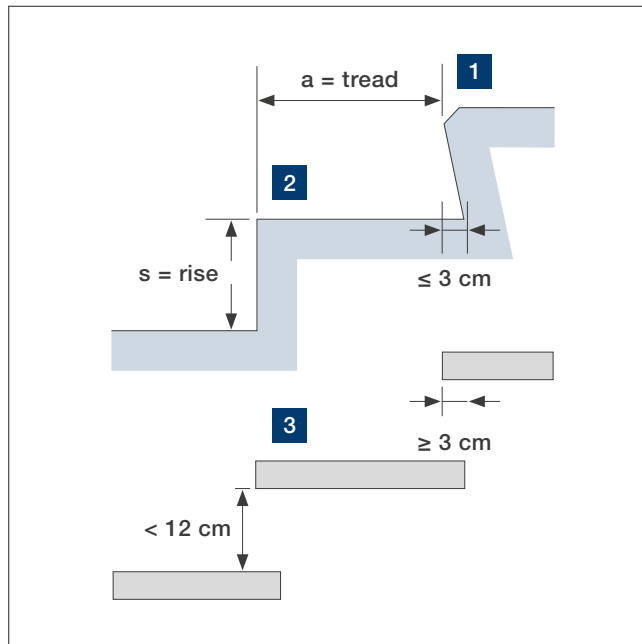
Substrate (gradient in outdoor areas)
Detailed solutions
Slip-resistant

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: $62 \text{ cm} \leq 2s + a \leq 65 \text{ cm}$

Safety formula: $45 \text{ cm} \leq a + s \leq 47 \text{ cm}$

Comfort formula: $a - s \approx 12 \text{ cm}$

Step designs

1. Closed risers with an undercut $\leq 3 \text{ cm}$ are among the safest types of steps.
2. 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 $\geq 3 \text{ cm}$ and openings $< \varnothing 12 \text{ cm}$

Stair treads

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

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

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.



Strata series



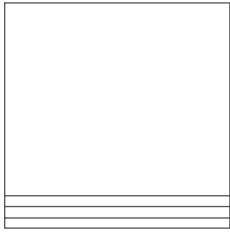


Beautiful and functional staircase design with just one tile

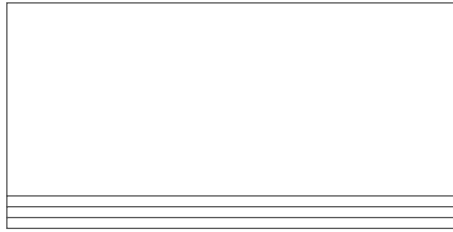
Agrob Buchtal stair tiles in a width of 145 cm cover a stair without joint and are easy to install. This makes the staircase appear more spacious and elegant.

Formats

Stair tiles



30 x 30 cm (with grooving)



30 x 60 cm (with grooving)



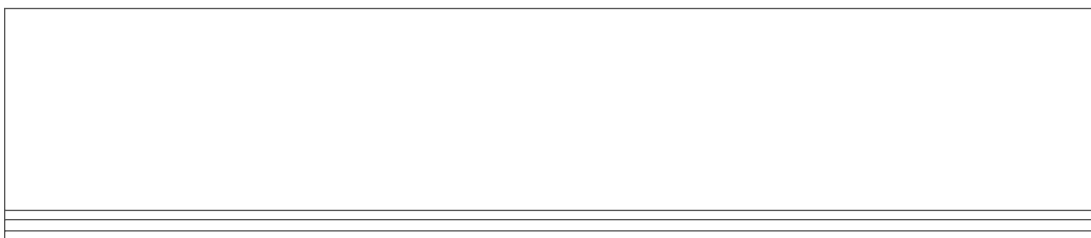
30 x 120 cm (with grooving)



60 x 120 cm (with grooving)

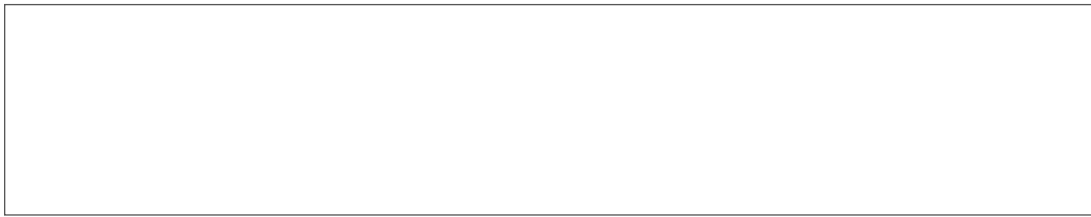


31 x 145 cm (with bevel)



31 x 145 cm (with bevel and grooving)

Step riser



28 x 145 cm

Stair edges



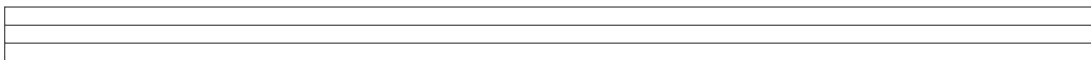
4 x 60 cm



7.2 x 60 cm



7.2 x 120 cm



7.2 x 145 cm (with bevel)

Internal angle



10.2 x 2.0 cm

External angle



10.2 x 3.5 cm

Sockel



10 x 20 cm, skirting with bevel (Emotion Grip)



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



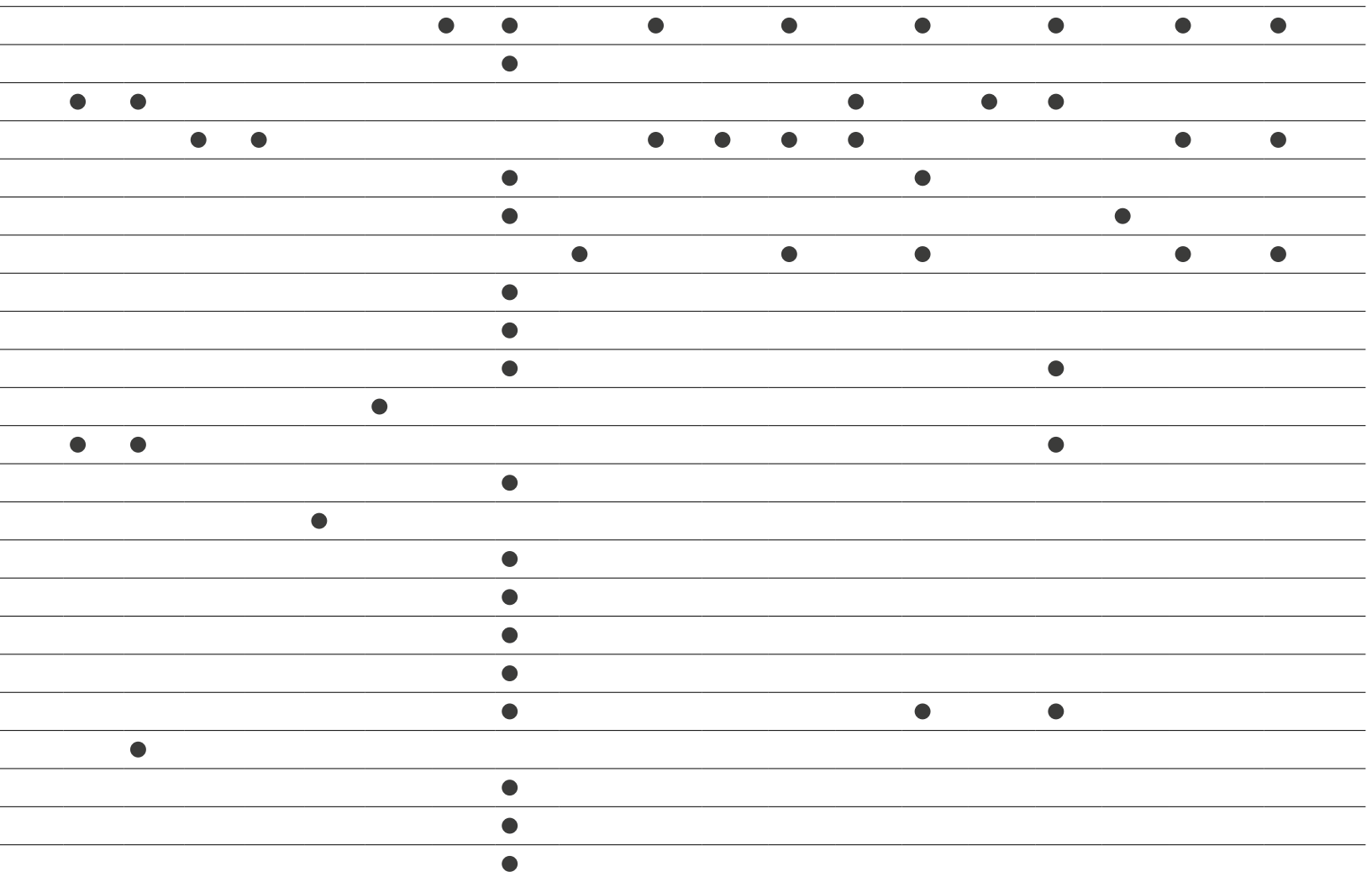
15 x 60 cm

Matrix

Formats in cm	Stair tiles with grooving				Stair tiles with bevel	Stair tiles with bevel and grooving	Step riser	Stair edges		Stair edges with bevel	
	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			●								
Trio		●	●								
Unique		●									
Valley		●									



Skirting, cut		Skirting, rounded						Skirting, with bevel	Cove skirting, decorative							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



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

