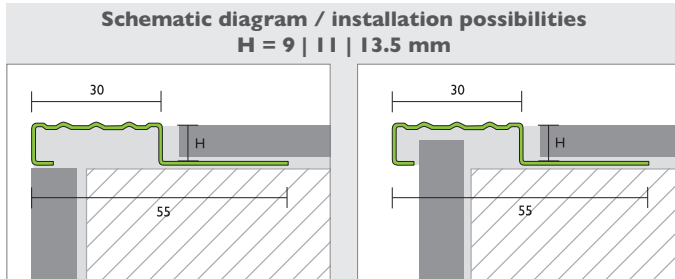


PROBASIC Stainless steel 1.4301 (V2A) & 1.4404 (V4A)
anti-slip R10/V4 with test certificate

Step Profiles



Fields of application:

The PROBASIC step profile made from stainless steel has a special profiled and embossed tread surface, thereby forming a sturdy, non-slip and decorative front edge for stairs.

The profile offers a high quality and positive-step version of stair covering in tile or natural stone finish using the thin-bed, medium-bed or thick-bed method.

The special profile geometry and also the stainless steel 1.4301 (V2A) or 1.4404 (V4A) material assure a high level of protection against mechanical and chemical load on the profiles and protect the tiles against knocks/impacts at the front edge of the stairs.

In accordance with DIN 51130 and BGR 181, the profile equates to rating group R10/V4 for work areas with increased slip hazards.

The design of the step profiles is adapted to the coverings in such a way that, with a high level of application safety during installation, the loads experienced on stairways in inside and outside domestic, commercial and industrial areas can be borne reliably and with lasting effect.

Typical areas of application are, e.g.:

- As front edge of stairs when fitting tiles or slabs
- As front edge of stairs when applying screed or coatings
- Steps and stairs in interior areas (also with moderate chemical load) with 1.4301 (V2A), brilliant.
- Steps and stairs in exterior areas, swimming pools, if necessary, that have low levels of chlorine or no chlorine, with 1.4404 (V4A).

Product advantages:

PROBASIC step profiles are easy to fit. The anti-slip version provides a broad spectrum of use, even in commercial areas with rating group R10 for crowded areas V4 (test certificate BGIA no. 200922877/3210).

Three different heights can be achieved for the coverings, which are located behind and thereby protected, of 9 mm, 11 mm and 13.5 mm.

Aside from the good physical properties, the embossed stainless steel appearance with high quality material rating 1.4301 (V2A) and 1.4404 (V4A) allows a nicely-shaped stepped formation. With the matching end caps, profile ends at open stairways can also be finished elegantly.

Specifications:

Material	Stainless steel	1.4301 (V2A)	1.4404 (V4A)
Length [m]		2.50 / 3.00	2.50 / 3.00
Height [mm]		9 – 13.5	9 -13.5

For details, see latest price list.

Delivery form:

Bound at the ends (also in the middle on 3 m lengths) with stretch foil, packed in a dispatch box

10 profiles	1 package
Packaging unit	10 / 40 items
Customs tariff number for stainless steel:	72224050

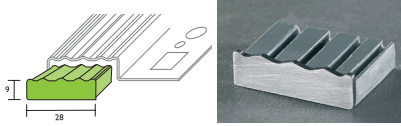
For the latest order quantities (KA) and packaging units (VPE), please refer to the price list, the relevant price sheets or product news sheets, or speak to your specialist dealer:

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Supplementary products:

End caps in stainless steel V4A, fine finish for PROBASIC step profiles, can be used universally on left and right of straight stairways
PROLINE cutting disc



Storage and transportation:

Store and transport in dry areas that are protected against dirt, impact, abrasion and other foreign matter.

To avoid any risk of deformation, do not place any load on the profiles and preferably store in the lying position.

Disposal:

Profiles that have been cleaned of foreign matter can be disposed of in a metal recycling container. Observe local authority regulations respectively.

Thermal degradation:

No degradation if used in the correct manner.
Avoid excessive heat.

Processing:

Preparatory measures:

The surface to which the product is being fitted must be sturdy, dry, level, straight, flush and horizontal, free of parting agents and solvents and suitable for the bonding substance.

Stairs must be prepared for the thin-bed or medium-bed method by levelling or other measures so that the line is at the desired height and depth.

The substrate must be solid and capable of bearing the intended loads.

The quality of the selected bonding screed should equate to at least C2 in accordance with DIN EN 12004.

Installation:

Select the PROBASIC stainless steel step profile to suit the thickness of the intended flooring/covering. For installation, the upper edge of the profile must always be at the same height or lower

than the adjacent covering edges. Check the profile for damage – use only undamaged profiles.

To cut to the required length, use suitable clamps, saws or cutting devices as well as personal protective equipment. Deburr the edges using a suitable tool.

Use cutting discs to cut PROLINE to size. Tools that have already been used for other metals must no longer be used for stainless steel. Cutting tools must be free of iron, chlorine and sulphur.

Measure stair heights and mark or create templates.

Fit the PROBASIC step profile over the stair so it is flush with the front edge of the stair or fit it so that the reinforcement lip overlaps slightly along the upper edge of the stair.

Depending on the intended load and how often the stairs are used, apply enough thin-bed or medium-bed screed over the stair or to the underside of the profile so that bedding is achieved between the stair and/or front edge of the stair to the underside of the profile in sections or in full. The greater the load, the more and tighter the space needs to be filled.

Ideally, use low-shrinkage screed for the filling. In the same way, apply thin-bed or medium-bed screed over the fresh screed bed or the ready substrate of the stair; insert the stamped fitting strip equally in the fresh bonding compound and align.

Then plaster over the fitting strip, covering it completely. Thereafter, lay the tiles on the stair surface. The flooring/covering material adjacent to the fitting strip must be laid so it is completely embedded.

If the surface as a whole has a joint pattern, the joint to the profile can be formed to match the joint width, though it should be no wider than 2 mm. The joint between the flooring/covering and the profile should be filled completely with grout.

Butting up step profiles should occur with a gap of 3 mm and, on completion of work, sealed professionally using elastic colour-coded filling material. Avoid dividing into sections if possible.

During the course of installation at the open ends, push the end caps (can be fitted on the left and right) in the profile chamber of the step profile in the still fresh thin-bed or medium-bed screed.

The screed filling in the profile chamber should only have enough screed to allow good sealing and encasing of the end cap and prevent any screed from being pressed out to the front passed the end cap.

On completion of the work, seal the narrow openings around the end cap to the end of the profile in addition using colour-coded, neutrally cross-linked silicone.

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Cleaning:

Use clean water, pH-neutral cleaning agent, a sponge or cleaning cloth.

Ensure that there is no sanding or grinding effect.

If necessary, use an alcohol-based cleaner or a cleaner especially developed for stainless steel or polishing paste.

Chemical and physical resilience:

Before using cleaning agent or collected water, check whether it has a corrosive or damaging effect on the profiles. This also applies to correct dosage during use.

Never use agents containing hydrochloric or hydrofluoric acid on the profile. Any contact with agents containing chloride ions (e.g. found in some cement residue cleaners, road grit, chlorine treated swimming pool water, brine water), strong acids or alkaline should be avoided.

Stainless steel reacts with oxygen in the air and forms a protective layer that becomes damaged upon abrasive contact with normal steel or iron and flying sparks from welding and cutting work, thereby resulting in corrosion.

Once the adhesive, grout and filling compound has hardened completely, the profile can take mechanical loads as per its intended use.

Abrasive influences or the use of equipment or execution of activities on the profile with damaging effect should be avoided as a rule. Check cleaning tools and equipment with bristles and abrasive polishing pads to see if they scratch the surface.

Standards and regulations:

In addition to the observation and consideration of relevant specialist rules, standards and generally recognised rules of technology, attention is drawn in particular to the following regulations:

- ATV DIN 18352 Tile laying work
- ATV DIN 18332 Natural stone work
- ATV DIN 18157 Fitting ceramic trim using thin-bed method.
- ATV DIN 18202 'Tolerances in surface construction'
- ZDB bulletin 'Expansion joints' (last version)
- ZDB bulletin 'Flooring/covering subjected to high loads' (last version)
- DIN 18065 Building stairs
- Information in English can be found at <http://www.bssa.org.uk>, particularly: <http://www.bssa.org.uk/topics.php?article=77>

Important information:

- In conjunction with the profiles, ideally use only neutrally cross-linked silicone.
- If joining with reaction resins, check first if these could damage the surfaces of the profile that adhesive that adhesive and joining material can be removed completely.
- The step profiles are intended for steps/stairs with pedestrian traffic.
- Iron particles from tools, scaffolding, transportation devices, etc. must be removed without delay. Grinding/sanding dust, swarf and welding splashes from structural steel work could lead to corrosion.
- For the chemical / physical resistance of the profiles, the concentration, formulation, temperatures and compositions of the affecting substances are generally responsible. Their diversity cannot be covered here. The resistance to corrosion should therefore be checked and scrutinised in individual cases
- Colour variations between the profiles and end caps cannot be ruled out due to the manufacturing process.
- Chloride ions present in fluids, condensation and chemicals have a corrosive effect. These loads should be avoided as often as possible or eliminated by thorough cleaning. If loads occur only briefly, do not exceed a concentration of 250 mg/ltr.

All information, references, instructions, basic engineering principles, regulations, standards and expertise are based on German and largely equivalent European regulations and training standards, irrespective of additional country-specific supplements and amendments.

All our specifications are based on our experience and careful analysis. We are unable to examine or influence the diversity of associated materials used and the various construction site and processing conditions in detail. The quality and function of your work is therefore dependent on your professional construction site evaluation and utilisation of the products. In case of doubt, carry out your own tests or seek technical application advice. Please refer to the laying and processing guidelines of the floor covering manufacturers or the manufacturers of associated products. All previously published product data sheets cease to apply on publication of this product data sheet.

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