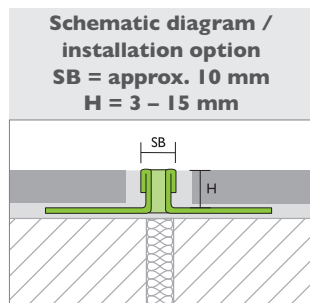


PROCONNEX

Stainless steel 1.4301 (V2A) with silicon insert

Thin-bed profile



Fields of application:

The stainless steel PROCONNEX thin-bed profile is a flexible joint profile for creating aesthetically demanding expansion and boundary joints when laying tiles and boards using the thin-bed principle.

PROCONNEX thin-bed profiles are fitted to allow for horizontal tension.

The high quality silicon is approx. 6 mm wide can be coloured according to requirement. It seals the joint and absorbs movements up to about 25% of the filled width.

The angled and flanged profile edges are made from stainless steel and protect the edge of the laid material on the left and right from mechanical stress. The stamped fitting strips are anchored under the adjacent coverings in their bonding compound (adhesive). The profile is engineered for joints in the substrate of up to 10 mm wide.

The design of the PROCONNEX thin-bed profiles has been adapted to the flooring/covering in such a way that, with a high level of application safety during installation, the assigned functions and loads on inside surfaces, which are submitted to traffic during domestic and commercial use (e.g. shops, storerooms/warehouses, underground garages workshops, commercial kitchens, etc.) are possible without chemical burden.

Driving loads from the wheels of vehicles with pneumatic tyres or industrial trucks with super elastic, full rubber or Vulkollan tyres are possible.

The typical areas of application inside buildings equate to load group I and III, such as those in the ZDB bulletin 'Ceramic flooring with high mechanical loads', though they are specified for compression forces under 4 N/mm².

Product advantages:

PROCONNEX thin-bed stainless steel profiles are easy to fit. The materials used and their formation enable a high level of functionality and elasticity for the allocated movement.

The straight lateral guide made from stainless steel profiles and the numerous colour options for filling fulfil high aesthetic demands by design. They blend in with the laid surfaces harmoniously.

Due to different geometries, varying height situations can be catered for. The profiles can be shortened to length on-site. The silicon inlay has a concave surface, thereby preventing it from sticking to wheels through negative pressure and reducing potential maintenance and repair measures. The silicon inlay can also be replaced years later by cutting it out and applying new silicon.

PROCONNEX thin-bed profiles are designed to be long lasting and safely minimise influences (e.g. bangs, knocks, etc.) in areas where flooring sections join.

The neutrally cross-linked S 110 filler material from Otto-Chemie is very elastic and, according to TÜV Rheinland's list of building materials, is 'a highly recommended low impact building product' and, at the same time, conforms with LEED® in accordance with IEQ-Credits 4.1 Adhesives and sealants.

For commercial or industrial flooring/covering with a particularly high level of traffic, the profiles can be sealed with the higher rated Ottoseal S 34.

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Specifications:

Material	Stainless steel with silicon inlay
Length [m]	2.50 (3.00 m from 100 m in relation to object on request)
Height [mm]	3 / 4.5 / 6 / 8 / 10 / 11 / 12.5 / 15 (other profile heights from 100 m in relation to object on request)
Face width [mm]	approx. 10
Standard colour	Ottoseal S 110 concrete grey * (Ottoseal S 34 sanitary grey * from 100 m in relation to object on request)
Custom colours	Colours available on request from Otto-Chemie in accordance with Ottoseal S 110 or Ottoseal S 34 * colour selection from 100 m in relation to object

For details, see current price list

* For Ottoseal S 110 and S 34

sealant, see also data sheets at www.otto-chemie.de

Delivery form:

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

5 profiles	1 package
Packaging unit	10 / 40
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.

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 and silicon can be disposed of in a metal recycling container.

Profiles that are contaminated or still have silicon on them can be disposed of through the non-recyclable or commercial waste system. Observe local authority regulations respectively. Seals manufactured through complete vulcanisation are not easily biologically degradable.

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. The fitting strips must always lie beneath a hard covering, tiles or boards which are firmly bonded.

Installation:

Select the PROCONNEX thin-bed stainless steel profiles 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. Always install the profiles with equal coverage centrally above the boundary joints formed in the substrate. Place the PROCONNEX thin-bed profile with the stamped fitting strip equally in the freshly 'combed' bonding compound and align. Then plaster over the fitting strip, covering it completely. The flooring/covering material adjacent to the fitting strip must be laid so it is completely embedded.

Tiles cut or made to fit the profile must be at least 10 cm wide. If necessary, lay a reinforcement strip measuring approx. 20 cm in width over the fitting strip in the thin-bed mortar layer. Mortar should not be allowed to find its way into the gap in the flooring/covering substrate.

If the profile joints are diagonal, do not allow the profile ends to overlap. If necessary, cut an angled joint or make recesses and fill in the open gap by elastic means. Profile joints can be covered on completion of the gap filling measures using Ottoseal S 110 or S 34 silicon sealant in the same colour.

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.

Clean away any mortar/grout and adhesive residue immediately and completely using clean water and a non-abrading sponge pad or cloth from the sides of the profile on display.

Bonding and joint filling substances should not dry onto the surface. Use non-abrasive bonding and joint compound.

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Cleaning:

Use copious amounts of clear water and commercially available non-moisturising household cleaners.

Ensure that there is no sanding or grinding effect. Always make sure that there are no remnants of cleaning agent and dirt. Perform routine cleaning regularly in accordance with local conditions.

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. 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. Such loads could be from vehicles with pneumatic tyres and electric lift trucks with full rubber, super elastic or Vulkolan tyres. Loads from steel wheels have a damaging and possibly also corrosive effect.

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

Important information:

- In conjunction with the profiles, use only neutrally cross-linked sealing and filling substances, preferably Ottoseal S 110 or Ottoseal S34.
 - Heavily soiled surfaces can have an abrasively destructive or penetrative effect on the upper side of the profile and the filling. Ensure that regular cleaning is carried out.
 - Profiles do not provide a seal in terms of joint sealing or from the perspective of DIN 18195.
 - If joining with reaction resins, check first if these could damage the surfaces of the profile that joining material can be removed completely.
 - Iron particles from tools, scaffolding, transportation devices, etc. must be removed without delay. Sanding/grinding 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. Resistance to corrosion should therefore be checked and scrutinised for each individual case.
 - 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 are applied briefly, a concentration of 250 mg/ltr should not be exceeded.

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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