

KARLE & RUBNER

Decks 2024



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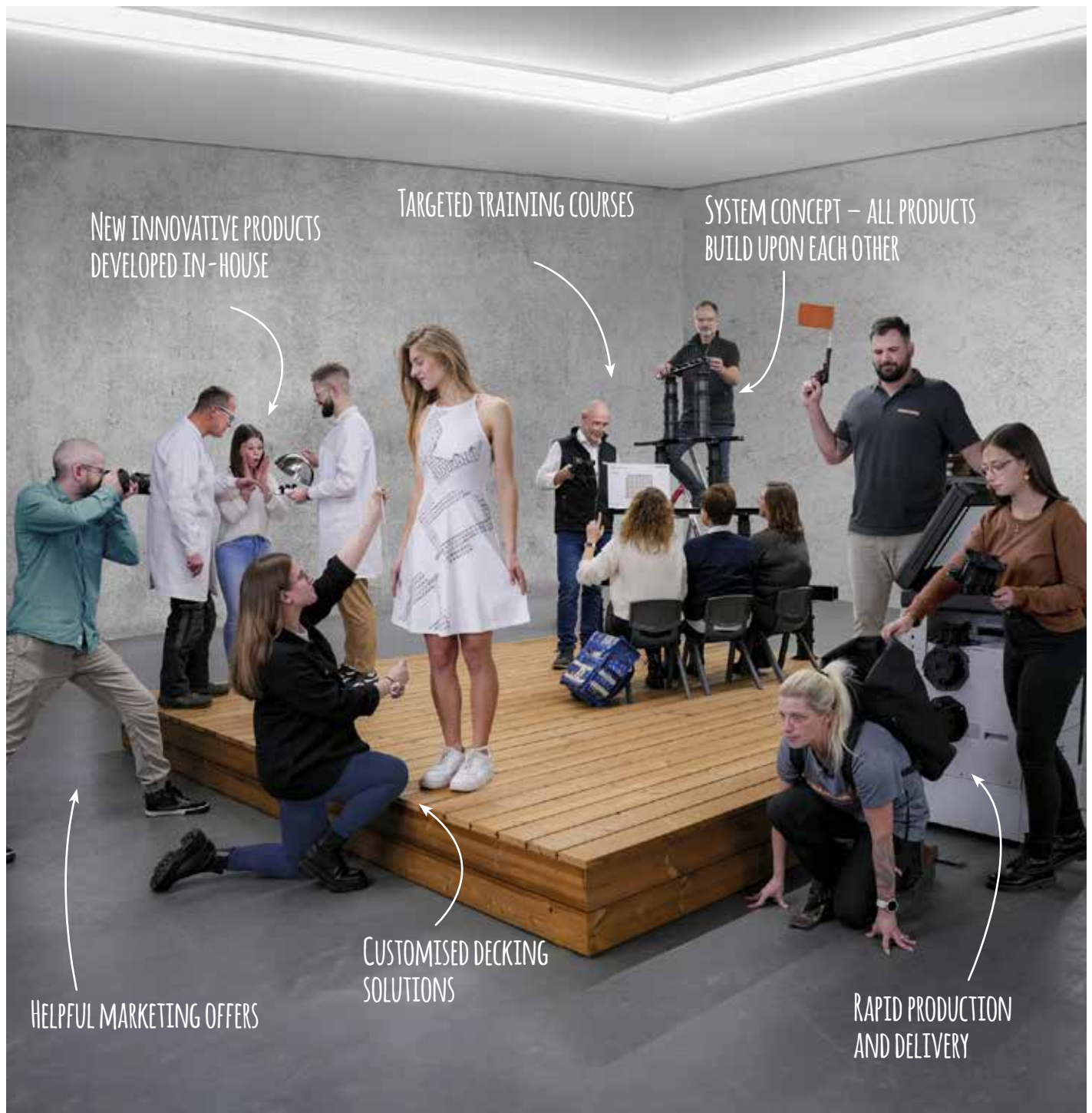
Illustrations in the catalogue may still correspond to previous models, as we reserve the right to make changes in the interest of product improvements at any time. Cover: Ceramic patio tile Athos Rock anthracite.

Welcome to the world of professional patio construction

This year we have again expanded our catalogue with new products and innovations for professional decking solutions. With the help of our in-house product development team we are once again providing you with important support in connection with decking construction that is compliant with current standards. The focus of our product development continues to be the system concept of our installation systems, in which the products build upon each other and thus ensure a particularly user-friendly installation. Simple and quick.

Our services, such as customised CAD planning, targeted training courses and helpful marketing offers, additionally support the specialist trade in the implementation of your patio projects.

We hope you enjoy browsing and reading our latest catalogue and that you find it inspiring.



INNOVATIONS 2024

Once again, we are delighted to present to you new items in this catalogue.

This includes a number of innovations in the accessories category such as the Flex support, the KL cross connector and the wind load carrier deep.

In addition, we have added new ceramic patio tiles to the existing product range and our facing holder as well as our drainage system have been supplemented with new variants.



KL cross connector


Quickly form a torsion-resistant and compliant substructure with the KL cross connector. This enables a time saving of over 30% compared to the conventional installation of substructures.



Flex support

The variable Flex support enables boards of individual lengths to be easily laid without additional substructure. This opens up completely new options to design the laying pattern without major installation effort.




 Wind load carrier deep Page 111

Wind load carrier deep

A supplement to the previous wind load carrier for roof terraces with particularly high wind suction loads. Tile support for concrete paving slabs up to 50 mm thick.




 Facing holder 239 Page 170

Facing holder 239

The facing holder 239 enables the problem-free fixing of side cladding of patio decking with higher construction heights.



 Drainage profile 100 mm Page 165

Drainage profile 100 mm

The new 100 mm drainage profile is suitable for the junction with facades and can be used wherever a drainage width of 150 mm is unnecessary to comply with the specialist rules.



 Drainage profile Pro Page 166

Drainage profile Pro

An alternative design to our standard drainage profiles. Especially suitable for splash protection and rainwater drainage.



New ceramic tiles „Athos Rock“

Our range of ceramic tiles is being expanded with a new series in four stylish colour variants. The large-format Athos Rock tiles make an impression not only with their colours but also through their size of 60 x 120 cm.



 New ceramic
Page 70

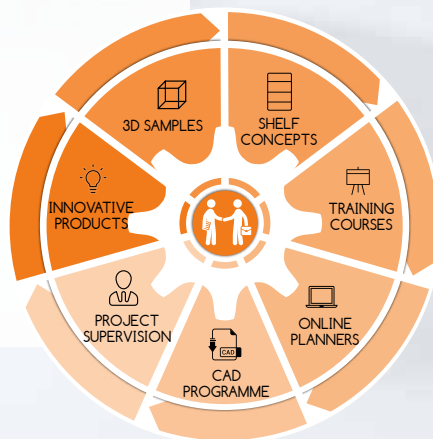
OUR SERVICES

The strengths of our ranges are rooted in the system concept: Everything is aligned starting from the products to all sales support services.

When developing our sales systems, the salesperson and the installer are always in the centre of our thoughts. We want to enable them with highly professional but easy-to-process products and a supporting marketing package to allow fast processing and to achieve optimal sales success.

Based on this, other important elements contribute to the success of the brand:

- Up-to-date communication
- Targeted training courses
- Planning aids for architects
- CAD programmes for projects
- Online planning tools for daily use
- And much more for optimal consulting at the point of sale



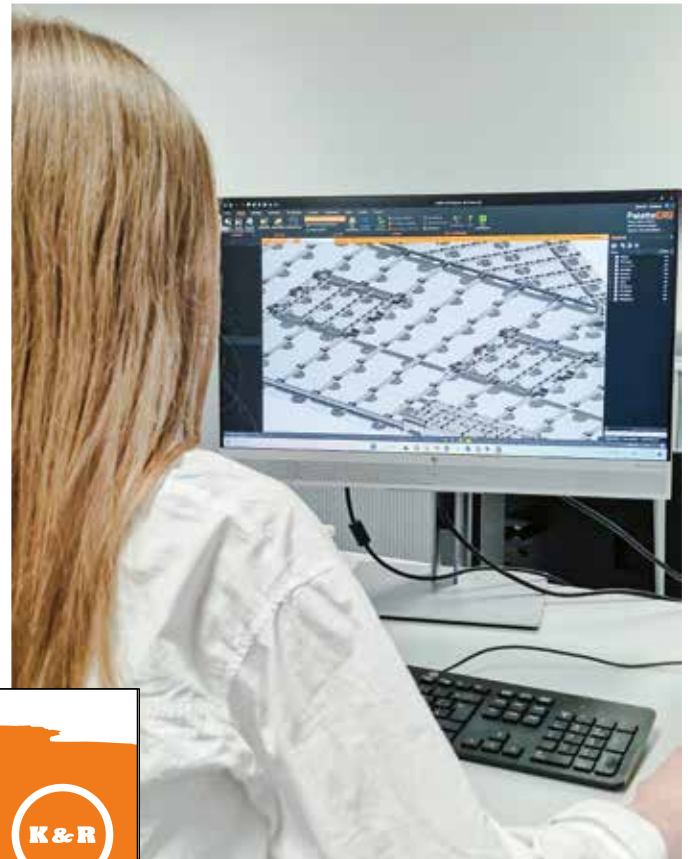
CAD project planning service

Precise planning in advance means that increasingly complex projects can also be realised within the shortest possible time. Our **CAD planning service** not only helps to realise technically demanding patio constructions, but also fulfils the requirement profiles of construction companies and architects.

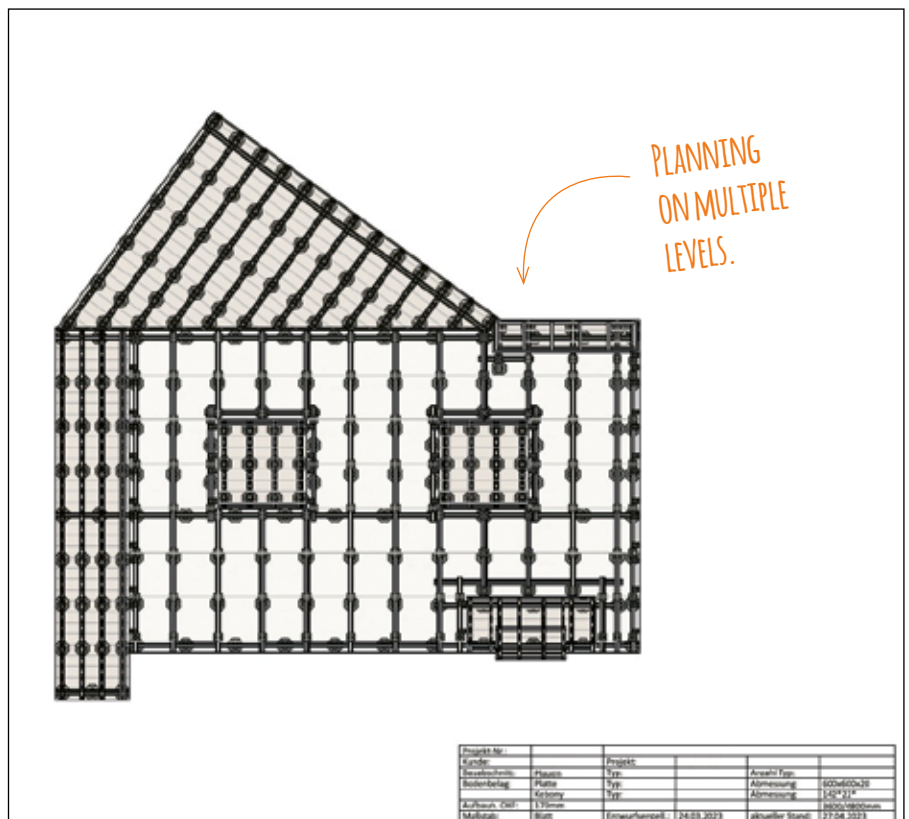
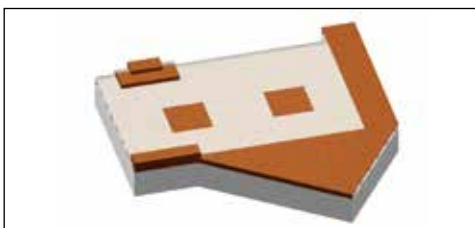
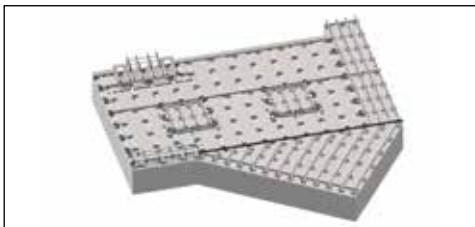
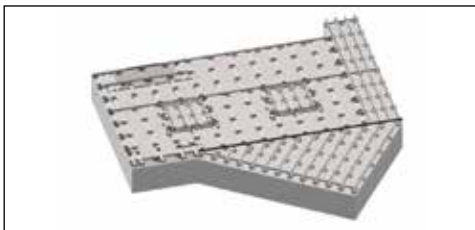
This is how we plan your terrace:

- Sketch/Checklist
 - Laying diagram
 - Quantity take-off
 - Detailed solutions
 - Installation steps
-
- = Project design

With increasing complexity, such as planning of stair treads, door and window reveals or special terrace constructions, a three-dimensional view with additional functions can be useful. For this purpose, the planning layout can be requested for a user-friendly online application.



CLICK AND DISCOVER
NEW POSSIBILITIES



Ideal representation thanks to 3D visualisation

Training courses

Professional advice and smooth installations are the craftsmanship for specialist retailers and installers. Our training courses help them to get to know the advantages of Karle & Rubner systems. When imparting the training content, it is most important to us that the training programme is tailored to the needs of the participants.

Therefore, we offer our training courses **on-site** at the retailer, in our **training centre** or online via **webinar**. Our training contents are:

- Introduction to the system
- Practical experience
- All about planning
- Important facts about patio construction

More about this topic:
karle-rubner.de/schulungen

CURRENT
TRAINING COURSES



Our training centre in Eschenburg



On-site training at the retailers



Webinar

On-site supervision

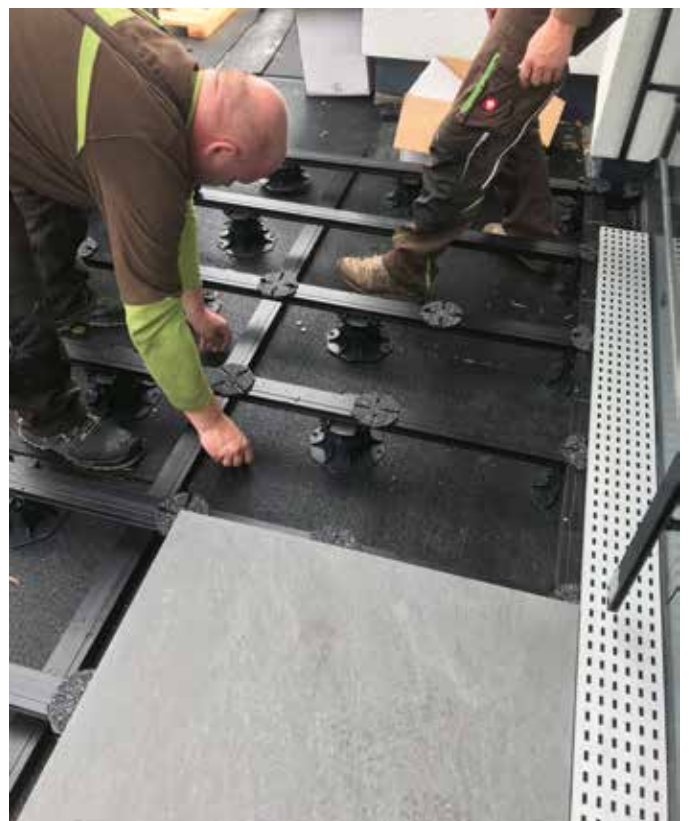
Following a project planned with CAD, we offer a compact **on-site instruction** session. The system and all its technical details are explained to the installers without taking up too much time. This means that neither the specialist retailer nor the installers require any previous knowledge of our system in order to realise complex projects together.

Elements of our project support service:

- Project briefing online / on site
- Introduction to the system
- Installation instruction
- Support throughout the project via WhatsApp, e-mail, telephone

Our support serves specialist retailers and installers as assistance for the successful implementation of projects and smooth project completion.

MORE DETAILS ABOUT
ON-SITE SUPERVISION



Online planning tools

Is it possible to plan a terrace, a privacy screen or a roofing without much prior knowledge within a few minutes with just a few clicks? Yes, it is! With the support of our planning tools, you are guided through your project step by step and after finalised planning you receive, among other things, a quotation template, a parts list, a technical drawing, installation plans as well as a cutting list.

The basis for the development of our planners is the feedback from our customers. We always strive to adapt the tools to the current requirements and therefore listen carefully to the ideas and requirements that the users bring to us for improvement. The continuous practical development is the main reason for the high acceptance of this sales and planning support.

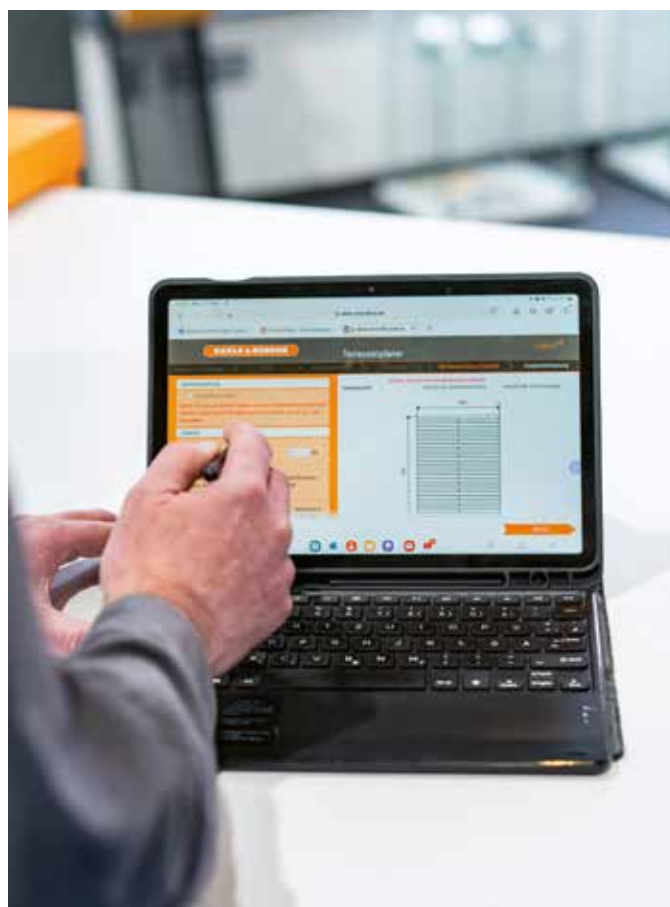
We offer planners for our product ranges:

- Patio construction with decking boards
- Patio construction with tiles
- Privacy screens
- Roofing

Our online planners are accessible to anyone interested. Here, projects of all ranges can be easily planned in common construction situations and are optimal for planning with the customer at the point of sale. This helps to speed up planning and processing overall, so that there is still time for the essentials even when demand is high.

Start planning right away:
karle-rubner.de/online-planer

CLICK AND
START PLANNING



Online planner for privacy screens



Decking planner for boards and tiles



Online planner for roofs

Online services

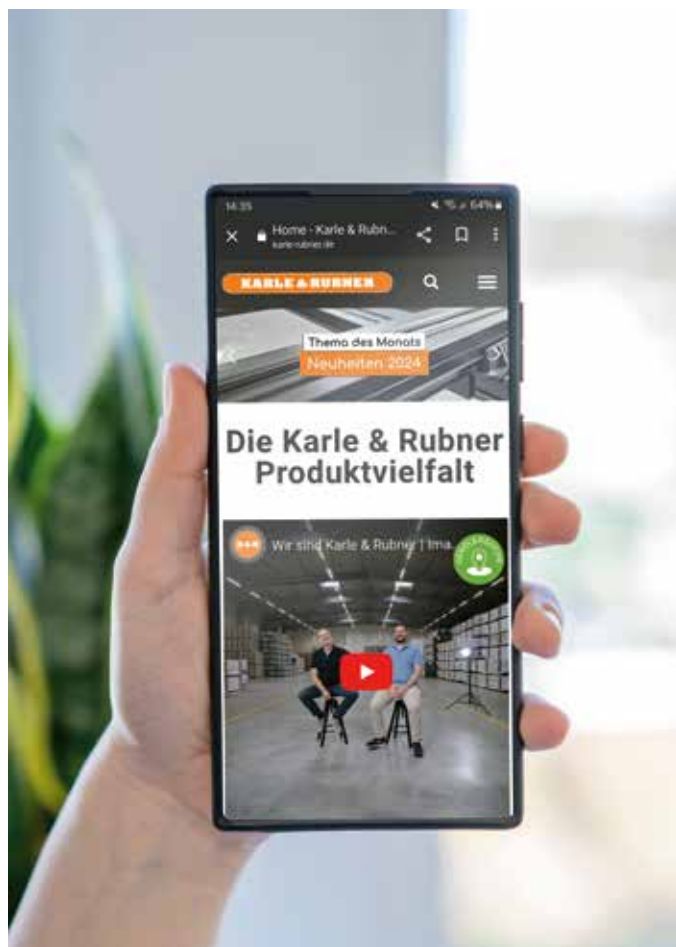
Do you want to dive deeper into the world of our products and services? You want to see what we are talking about? Or need more information on specific topics? Then take advantage of our wide range of online services:

Here you can find out everything about our range of services and get a glimpse behind the scenes. This includes everything from direct impressions on the construction site via the presentation of our team, practical installation videos and user-friendly online planners to inspiring images that simply make you want more. All of which, of course, can be accessed anywhere, at any time.

On our homepage, you will find not only current topics relating to our product range, but also a special user-friendly tour of the world of Karle & Rubner. We also offer a quick guide for existing customers so you can find what you are looking for in just a few clicks. Here you will find attractive visual material, detailed product descriptions as well as technical data sheets, catalogues, installation instructions, information on construction-specific solutions, a compilation of general expertise and details of our training courses.

Are you curious? Then visit us
unter karle-rubner.de

THIS WAY
TO OUR HOMEPAGE



Social Media Profile

Our profiles are all about new inspirations related to patios. We are happy to show current reference objects on the platforms and also provide practical insights into project management as well as our everyday activities.

Whether on the construction site, in training courses or in conversation with the installer: „Available anytime, anywhere!“

On top of that, our YouTube channel features up-to-date „step-by-step“ installation instructions, information on our products and more.



CHECK OUT OUR
SOCIAL MEDIA PROFILES



A man with glasses and a dark t-shirt is shown in profile, holding a black metal patio railing component. He is pointing at a specific part of the component with his right index finger. The component is a cross-section of a railing, showing internal white plastic or metal inserts. The background consists of vertical grey slats and a white wall with a black-framed screen.

PRODUCT DEVELOPEMENT „MADE IN GERMANY“

Through the close collaboration with all project participants such as specialist retailers, processors and architects we receive important feedback and new ideas direct from the construction site, so that our product development working group is always supplied with fresh ideas.

The implementation of these product ideas in cooperation with regional producers enables us to offer trend-setting product ranges that advance patio construction.

These components make TERRACON® patio accessories a professional and indispensable component in the laying of patio decking. The matched products offer solutions for a wide range of constructional situations and facilitate quick and convenient patio construction. For us, this all adds up to quality "Made in Germany".



Planning and construction



Test with 3D model on existing products



First application in practice



Quality control of samples



IMPORTANT FACTS ABOUT PATIO CONSTRUCTION

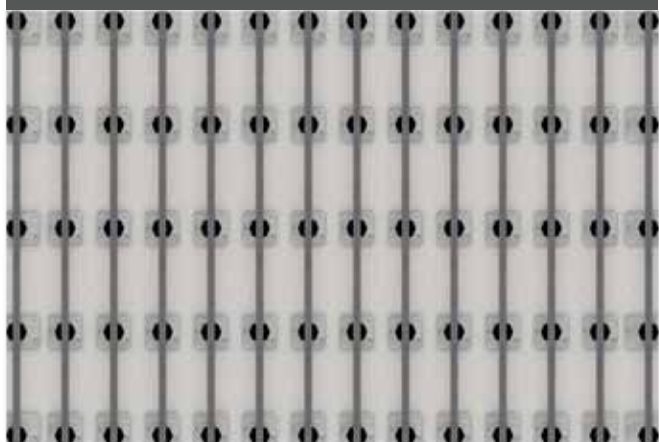
In the project sector, there is a shift from traditional single-family homes to owner-occupied or rental flats in apartment blocks. This change is having a significant impact on patio construction projects. This has resulted in a significant increase in clients' requirements and the specifications for substructures for roof terraces, balconies, stairs, etc. This brings old and new technical issues of patio construction into focus, as many properties have to meet requirements in terms of fire safety, protection against wind suction, compressive loading and drainage. Technically correct and professional patio construction is therefore the key to a sustainable project business, both in terms of proper planning and implementation through technical problem solvers and the necessary training of those involved.

The construction of a deck requires expert knowledge and is subject to generally recognised regulations, such as the brochure „Decking and Balcony Surfaces“ from GD-Holz. For successful planning and execution, be sure to inform yourself about local building regulations and pay attention to the installation instructions for the decking boards and fastening materials.

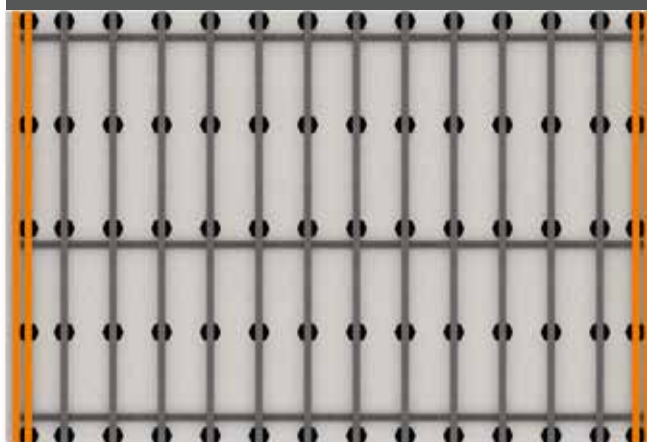
By walking on a terrace and with heavy-working planks, forces act that can shift the entire substructure. For this reason, a permanently stable fastening is essential. The following graphics show different ways of installing a terrace in a torsion-resistant manner:



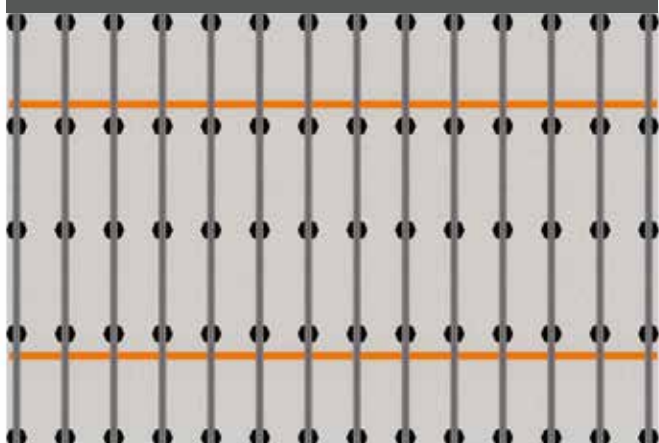
Construction with bolting to the ground
(e.g. concrete, asphalt or patio slabs)



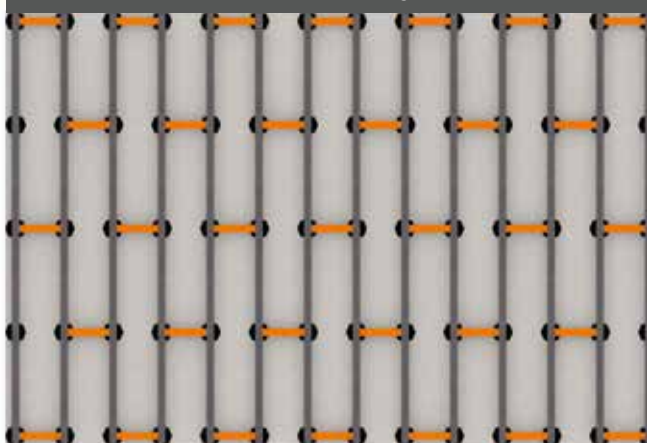
Construction with double substructure at front and end



Construction with counter battens



Construction with cross bracing



Appropriate protection from wind suction on roof decks

If the wind suction load is not taken into account when planning a patio, a roof deck that is too light may „lift off“ in high winds. The occurring forces are classified in wind load zones and differ depending on the region as well as the height of the building. In Germany, these are classified from 1 to 4, with the highest class 4 being in maritime areas*. In addition to the wind load zones, the building height must be taken into account in the determination. The rule applies here: the higher the building, the higher the wind suction load. The object-related values are determined by an architect.

Example: The total weight of a planned patio, consisting of decking boards and substructure, is 0.8 kN/m². Taking the wind suction load into account, however, the value would have to be 1.2 kN/m². To achieve this value, you could, for example, screw the construction to the floor of the building. This is often not practicable, as it would damage the waterproofing underneath and cause water to penetrate.

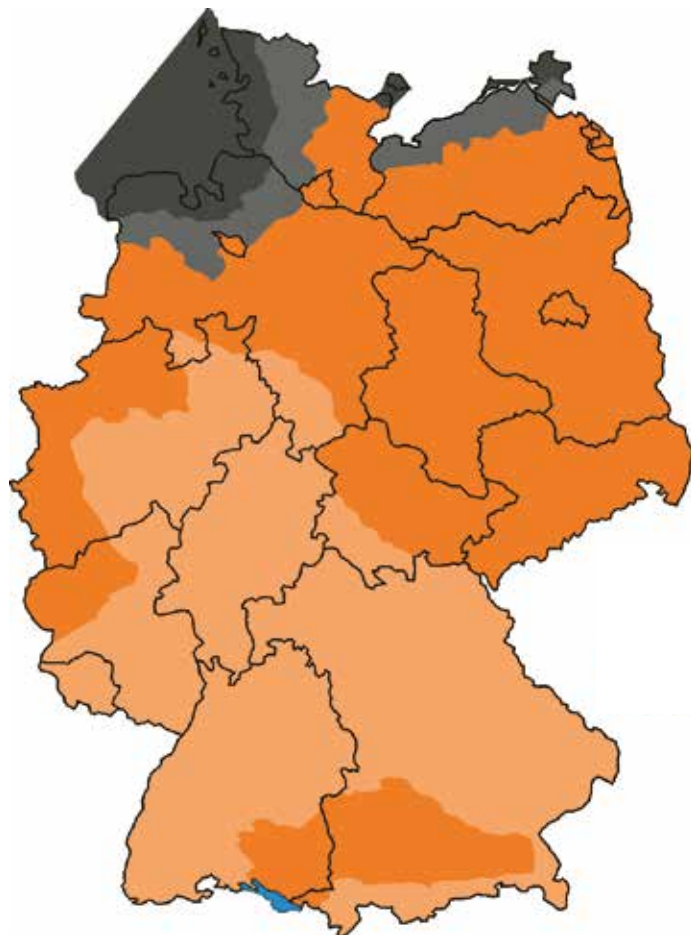
For this reason, with the wind load carrier we developed a system component, which is fixed below the system rail by simply snapping into place, thus serving as a holder for weights. Thus by laying in concrete paving slabs at various levels and with various weights, the specified value on the wind load carrier can be achieved.



Weighing down the structure e.g. by concrete or steel slabs 30x30 cm according to the required weight per unit area.



- Wind load categories are defined regionally and determined on a site-specific basis
- Wind load categories are classified from 1 - 4
- In addition to the different categories, the height of the building must also be taken into account
- Suitable measures are to be determined between planner and constructor



Simplified velocity compressions for buildings $h \leq 25$ m according to DIN EN 1991-1-4/NA

Wind load category and combined profiles		Velocity compressions $q(z_e)$ in kN/m^2 at the height h within the limits of		
		$h \leq 10$	$10 \text{ m} < h \leq 18 \text{ m}$	$18 \text{ m} < h \leq 25 \text{ m}$
1	Inland	0,50	0,65	0,75
	Coast and Islands of the Baltic Sea	0,65	0,80	0,90
2	Inland	0,65	0,80	0,90
	Coast and Islands of the Baltic Sea	0,85	1,00	1,10
3	Inland	0,80	0,95	1,10
	Coast and Islands of the Baltic Sea	1,05	1,20	1,30
4	Inland	0,95	1,15	1,30
	Coast and Islands of the Baltic Sea	1,25	1,40	1,55

- Wind load category 4
- Wind load category 3
- Wind load category 2
- Wind load category 1

Excerpt from „Flachdachrichtlinie“

Example for Wind loads:

Kebony 142x22 mm 15,0 kg / m^2
 Substruction Kebony 4,3 kg / m^2
 Decking support feet 0,3 kg / Stück 1,2 kg / m^2

Total weight: **20,5 kg / m^2**



Drainage profiles for junctions to door/window elements

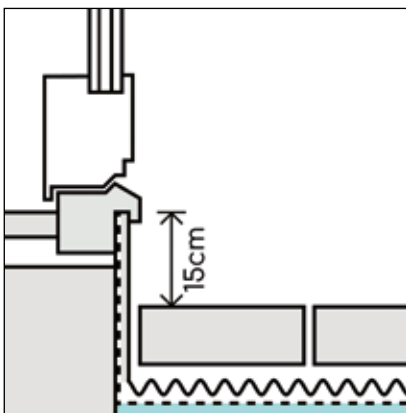
The issue of Drainage Systems for patios has gained increasing importance in the last few years, especially when it comes to junctions with door and window reveals. The water that accumulates on the terrace via rain, splash water or snow should be drained off as quickly as possible. Especially in the area of house connections and door reveals, waterlogging should be avoided at all costs. In this way, water penetration can be prevented, e.g. through door sealings.

The specifications as to when and how a drainage grid must be used along with the connection heights on the house are regulated by the Flat Roof Guideline and DIN 18531. These serve as reference works and list the different requirements, which are differentiated in the following steps. The connection height of the terrace at the building or reveal is used as the basis for assessment:

- ≥ 150 mm without drainage grid = connection complies with regulations
- between 150 and 50 mm with drainage grid = connection complies with regulations
- less than 50 mm is a „special sealing construction“ that can be regulated in consultation with all parties involved
- smaller than 20 mm to 0 mm is considered barrier-free according to DIN 18040 and is also a „special sealing construction“

Our drainage profile corresponds to the drainage grid required by the „Flachdachregel“ with a width of at least 150 mm.

 Drainage profile
from page 164



Use classes of wooden boards

Despite numerous maintenance-free alternatives such as WPC or BPC, decking boards made of solid wood are still very popular. The feel and grain of the wood planks are the main factors in the decision to choose this material.

When looking for suitable decking boards, the durability of the wood species is important besides its structure and colour. Therefore, tropical hardwoods are often chosen. However, the origin and thus the sustainability of a plank is currently more important than ever, which is why the importance of domestic woods such as larch, Douglas fir or also thermo-wood in pine and ash is increasingly growing. In order to achieve a high longevity with the choice of a more sustainable plank, the constructive wood protection also plays a decisive role in addition to the selection of the wood species. This is why during construction, you should make sure that the planks are protected from waterlogging. This is prevented by spacers between the decking boards and the substructure. As experience shows, the constructive wood protection according to DIN 68800 achieved in this way leads to a 20 - 30 % longer service life.

Example GK3: Classification of decking boards e.g. made of pine, larch, Douglas fir

Laying the boards without spacers means a classification in the lower service class 3.2 - by using spacers (Terraflex/Terrafox/Clipper) the same boards are upgraded to the higher GK 3.1 and are thus comparable with the durability of many tropical hardwoods.



Aluminium is more cost-effective than wood!

An average terrace area measures 15 m². The following example shows the effects of using substructures made of wood versus aluminium and their different static load capacities. The example is based on the following assumptions:

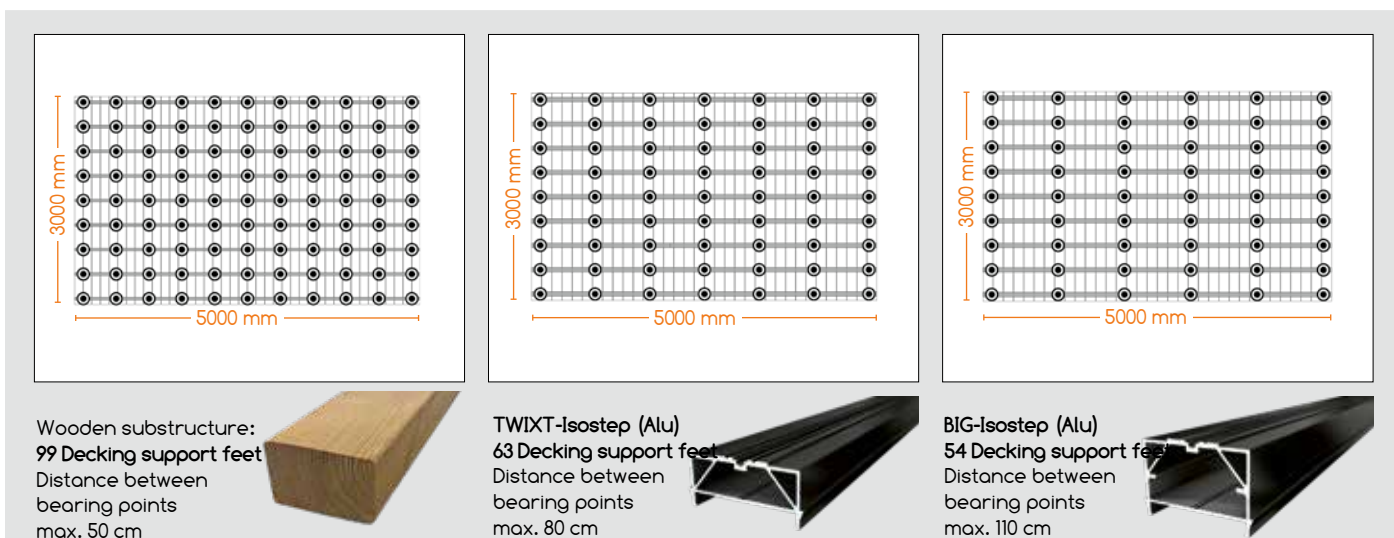
- the entire terrace requires height compensation and must be underpinned with Decking support feet
- the spacing between the substructures is 40 cm in width
- the boards are laid without a joint

- ✓ Less decking support feet
- ✓ Waste-optimised installation
- ✓ Less assembly effort
- ✓ Time saving due to less adjusting and aligning

= COST SAVINGS

PRICE ADVANTAGE: The cost saving due to the smaller amount of decking support feet the higher price of a substructure made of aluminium compared to wood starts at an area of 5 m²! Additionally, aluminium UK's allow a waste-optimised installation by using connectors!

TIME SAVING: Less decking support feet = less time for aligning a convenient installation base. When using the decking support feet with flexible top part, the installation surface does not even have to be aligned in a time-consuming manner, as it can be inclined by up to 8 %. The use of our decking support feet CLIP with the TWIXT-/BIG-Isostep rails saves additional tedious bolting by simply clicking them on.



By using an aluminium substructure, up to 45 decking support feet can be saved!

10 Years System Guarantee

We have developed, tested, trialled for you and it has proven itself in practice for years. From now on, we therefore give a 10-year guarantee on an entire substructure from our Karle & Rubner system! This system guarantee* includes the combination of the following products:

<p>CLIP Decking support feet</p>  <p>CLIP Decking support feet range of adjustable height: 25-40 mm 35-70 mm 65-155 mm 145-225 mm</p>	<p>CLIP rail</p> 	<p>Connector</p> 
<p>Isopad 20 mm</p> 	<ul style="list-style-type: none">· MEGA-Isostep· BIG-Isostep· TWIXT-Isostep· H-Isostep	<ul style="list-style-type: none">· Connector MEGA-Isostep· Connector BIG-/TWIXT-Isostep· Connector H-Isostep· Corner connector BIG-/TWIXT-Isostep· Corner connector H-Isostep· flexible corner connector for BIG-, TWIXT- and H-Isostep

=

10 Years
System Guarantee



* For information on the terms and conditions of the guarantee visit karle-rubner.de

SUSTAINABILITY THROUGH RECYCLED RAW MATERIALS

Our plastic products have been manufactured from regranulate for years. This regranulate consists of 98% recycled industrial plastic waste, which comes exclusively from German production. The raw material recovered in this way is comparable with new goods in 1A quality, i.e. the mechanical, thermal and chemical properties are almost identical.

Over 90% of the raw material for the high-quality granulates in our Isopads comes from recycled old tyres and technical rubber materials. This is processed according to our specifications in such a way that breathable products with high water permeability are created. Recovered raw materials (recycled label material, plastics from household waste or wood shavings from pallets) are also used in the manufacture of most of our WPC patio decking via technically sophisticated production processes with a share of up to 95%.

All Isopads, plastic products and WPC boards are fully recyclable.





Terraflex made of 98% PP regranulate



Aluminium substructures made of 30% alu scrap

„recycled material“ BUTTON

We use the “recycled material” button to mark all of the products with the percentage of recycled material used in the production process.

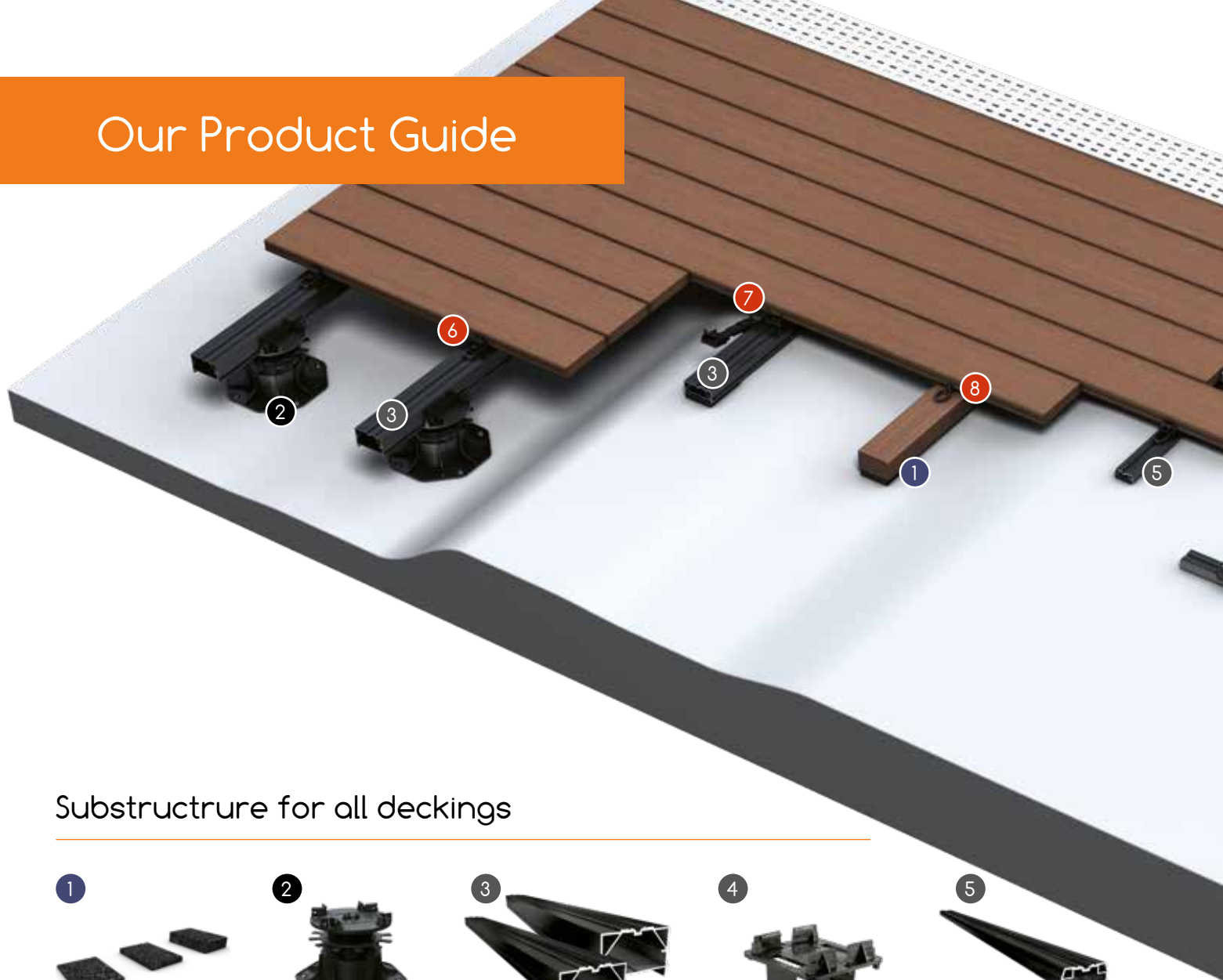


Isopads made of 95% discarded tyre granulate



WPC decking boards with recycled content of up to 95 % from plastic or label waste

Our Product Guide



Substructure for all deckings

1



Isopad, levels out unevenness and provides waterlogging protection.

P. 96

2



Decking support feet CLIP, height adjustable with gradient compensation up to 8 %.

P. 100

3



TWIXT-/BIG-Isostep, aluminium substructure for high construction height.

P. 108

4



KL cross connector, for quick and easy torsion-resistant installation of the substructure.

P. 112

5



SMART-Isostep, aluminium substructure for low construction height.

P. 116

Fastening of decking boards

6



Terraflax, invisible fastening for grooved boards.

P. 144

7



Clipper, invisible fastening for boards without groove.

P. 150

8



Terraflax, distance holder for visible screwing.

P. 154

The approved system for easy and quick installation of all common patio deckings.

ONE system for ALL decks: with only a few additional accessories, the same system can be used for the simple and quick installation of patio tiles and decking boards.

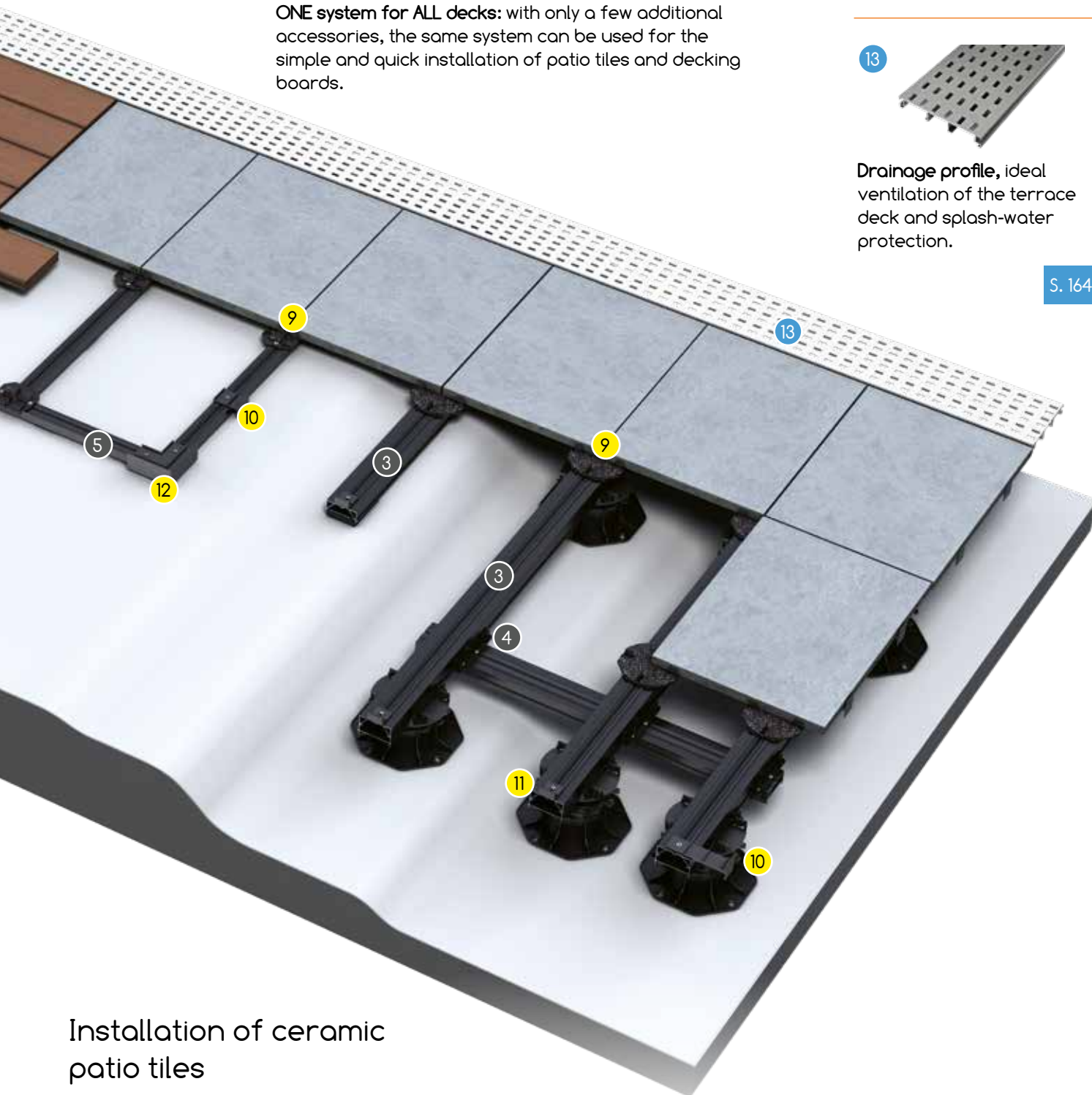
Patio trims

13



Drainage profile, ideal ventilation of the terrace deck and splash-water protection.

S. 164



Installation of ceramic patio tiles

9



M-Fix / M-Fix SMART, non-slip support for an even joint pattern (3 mm).

P. 134/136

10



S-Fix / S-Fix SMART, lateral attachment of patio tiles.

P. 135/137

11



Wall-Fix, front attachment of patio tiles.

P. 137

12



Corner-Fix SMART, prevents lateral slipping in the corner area for laying on SMART-Isostep.

P. 135

A close-up photograph of the Qlick system fasteners. The fasteners are black plastic components with a T-shaped profile, designed to be clicked into the grooves of a decking board. They are shown in a row, with some already installed and others being placed. The background is a blurred view of a keyboard, suggesting a modern, tech-oriented environment.

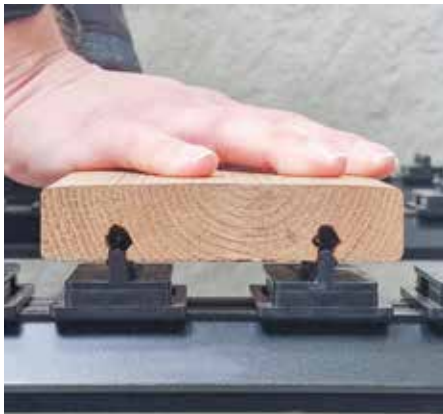
THE QCLICK SYSTEM

With the QCLICK laying system for bottom-grooved decking boards, the fastest way of installing decking boards so far is now possible: „Click instead of screw“ - now even faster!

The planks are installed on the aluminium substructure with pre-assembled fasteners using a click mechanism without screws. The system offers simple and error-free assembly and at the same time provides a harmonious and consistent joint pattern. Thanks to the predefined spacing of the fasteners, the special planks in widths of 120 mm and 140 mm are simply clicked into place without any time-consuming alignment.

More time cannot be saved, as the substructure of the QCLICK system can be combined with the tried and tested decking accessories from Karle & Rubner. Whether decking support feet, 20 mm Isopads or corresponding connectors of the system rails - you can use all the advantages of slope and height compensation during installation.

QUICK + KLIK = QCLICK



Pre-assembled fasteners



Screwless mounting



Harmonious and consistent joint pattern

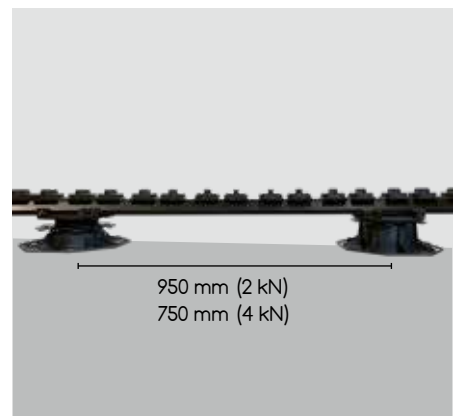
EASY - FAST



Can be combined with the proven K&R system



Statically loadable connectors



Wider spacing =
Less decking support feet

INNOVATIVE



The fastest way ...



... to remove ...



... and reinstall decking boards.



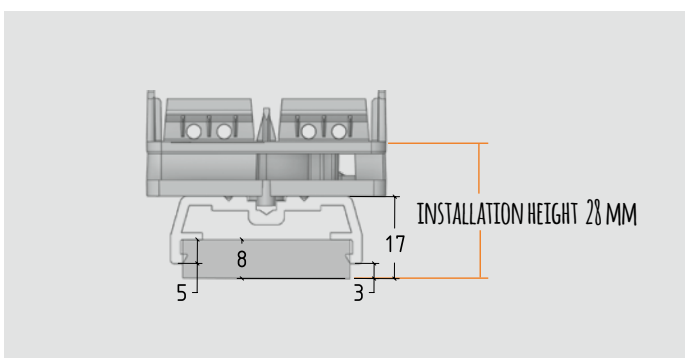
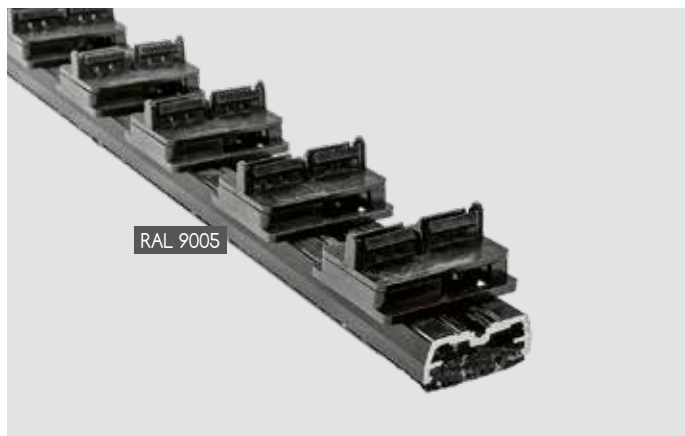
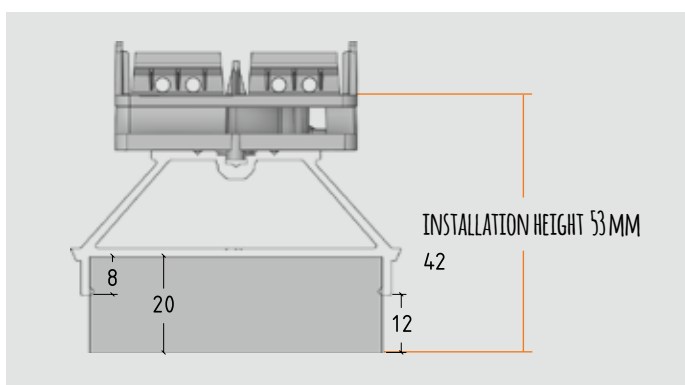
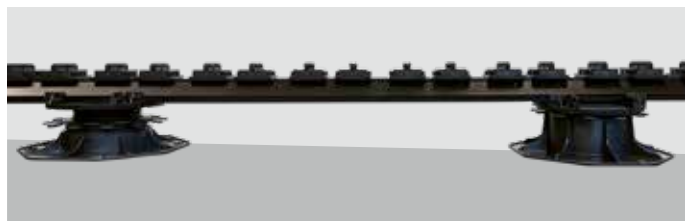
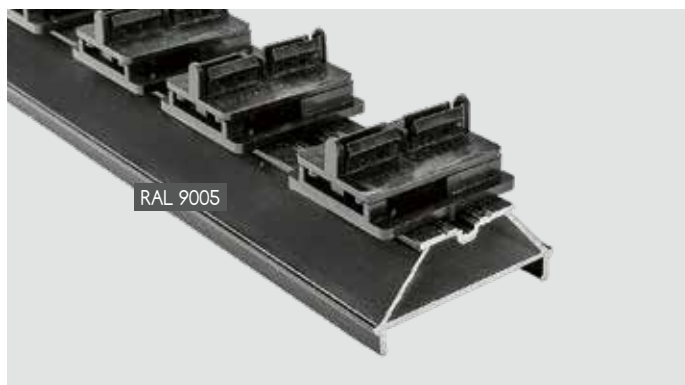
QLICK - the simply faster laying system

Advantages:

- ✓ Fastest way to lay floorboards, thanks to pre-assembled fasteners and screwless fixing
- ✓ easy and error-free assembly
- ✓ Permanently harmonious joint pattern, due to the fastening with bottom-side groove for uniform swelling and shrinkage behaviour of the planks
- ✓ can be combined with decking support feet, 20 mm Isopads or corresponding connectors of the system rails
- ✓ High statics through large intervals between support points with QCLICK Standard (up to 950 mm)
- ✓ Adjustable rotation range of the fastening for angled surfaces
- ✓ Trouble-free removal and reinsertion of individual planks in the area
- ✓ System fixing of side cladding







QCLICK rail

The QCLICK aluminium substructure with pre-installed fixing clips for boards with a groove on the underside ensures a harmonious joint pattern. There are two versions of the QCLICK aluminium substructure: for boards with widths 120 mm, 140 mm and 155 mm. The boards are attached by laying them down and clicking them into position from above. This special click-in technique also enables a rapid removal and re-laying of the boards. The high structural performance of the rail enables a span of 950 mm (2 kN), 750 mm (4 kN) and 650 mm (5 kN for commercial applications). The QCLICK aluminium substructure is suitable for construction heights above 53 mm. Separate rails and fasteners are also available for laying on slopes. These can be fitted on site to suit the surface.

Product	Part no.	Dimensions	Qty. boards	Qty. / PU	Qty. / pallet
QCLICK alu rail 120 mm	9676	68x41x1984 mm	16	1 Pc.	64
	9675	68x41x3968 mm	32	1 Pc.	64
QCLICK alu rail 140 mm	9680	68x41x1885 mm	13	1 Pc.	64
	9679	68x41x3915 mm	27	1 Pc.	64
QCLICK alu rail 155 mm	9122	68x41x1932 mm	12	1 St.	64
	9123	68x41x3964 mm	24	1 St.	64

Advantages:

- ✓ for installation heights from 53 mm
- ✓ high static for less bearing points (4 kN/750 mm)
- ✓ Pre-assembled fasteners save one work step
- ✓ can be combined with the K&R System such as decking support feet, 20 mm Isopads or corresponding connectors of the system rails

QCLICK light rail

The QCLICK Light rail for low construction heights over 28 mm also has the same advantages as the QCLICK aluminium substructure. Thanks to its low height, the rail is perfectly suited for use on level surfaces such as concrete floors, paving, and tiles and can be used wherever a low construction depth is required due to the installation situation (e.g. balconies).

Product	Part no.	Dimensions	Qty. boards	Qty. / PU	Qty. / pallet
QCLICK light alu rail 120 mm	9678	50x28x1984 mm	16	1 Pc.	50
	9677	50x28x3968 mm	32	1 Pc.	50
QCLICK light alu rail 140 mm	9682	50x28x1885 mm	13	1 Pc.	50
	9681	50x28x3915 mm	27	1 Pc.	50
QCLICK light alu rail 155 mm	9124	50x28x1932 mm	12	1 St.	50
	9125	50x28x 3964 mm	24	1 St.	50

Advantages:

- ✓ Pre-assembled fasteners save one work step
- ✓ for lower installation heights from 28 mm
- ✓ incl. integrated rubber granulate insert for direct installation on even subfloors



QLICK rails without drilling

The QCLICK aluminium substructure without drilling can be used for patios with sloping boards.

Product	Part no.	Dimensions	Qty. / PU	Qty. / pallet
QLICK alu rail without drilling	9674	68x42x4000 mm	1 Pc.	64
QLICK light alu rail without drilling	9684	40x17x4000 mm	1 Pc.	50



QLICK fastener

The individual QCLICK fasteners can be used, for example, to create patios with sloping boards. The special click-in technique also enables a rapid removal and re-laying of the boards.



Product	Part no.	Qty. / PU	PU / box
QLICK fastener incl. drilling screw for alu rails	9683	50 Pc.	8

Advantages:

- ✓ easy screw connection with the alu rails
- ✓ 360° rotation rate

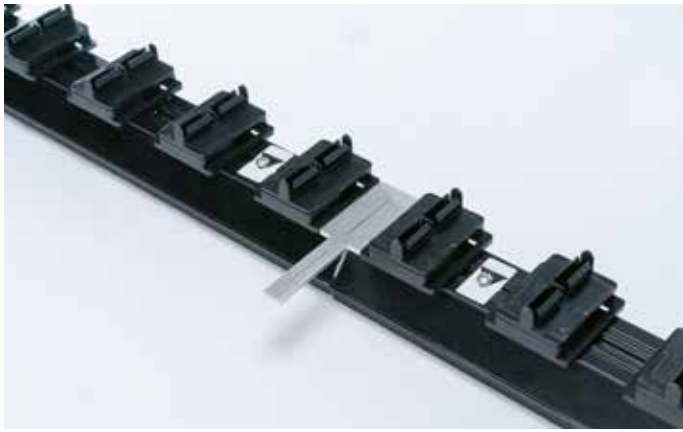


QLICK end support

The QCLICK end support serves as an additional bearing element for planks that have been cut to length. The plank, secured only by one fastener, sits firmly on top of the end support.

Product	Part no.	Qty. / PU	PU / box
QLICK end support incl. drilling screw for alu rails	9686	20 Pcs.	16





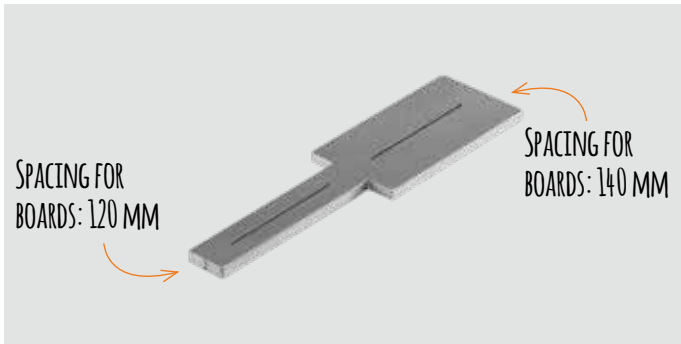
QCLICK template

Use the QCLICK aluminium substructure to minimize cutting. With the QCLICK template, the aluminium substructure can be quickly marked and perfectly cut to fit. The shape of the template ensures the necessary spacing between the QCLICK fasteners for the longitudinal connection of two QCLICK rails. The template is suitable for QCLICK 120/140 and QCLICK Light 120/140 aluminium substructures.

Product	Part no.	Qty. / PU	PU / box
QCLICK template	9097	2 St.	1

Advantages:

- ✓ Template for the precise marking of the saw cut
- ✓ Reduces waste through the use of offcuts
- ✓ Can be used with the QCLICK system rail for boards 120 or 140 mm wide



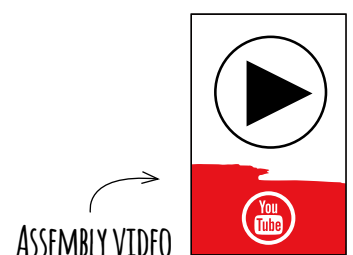
QCLICK facing holder

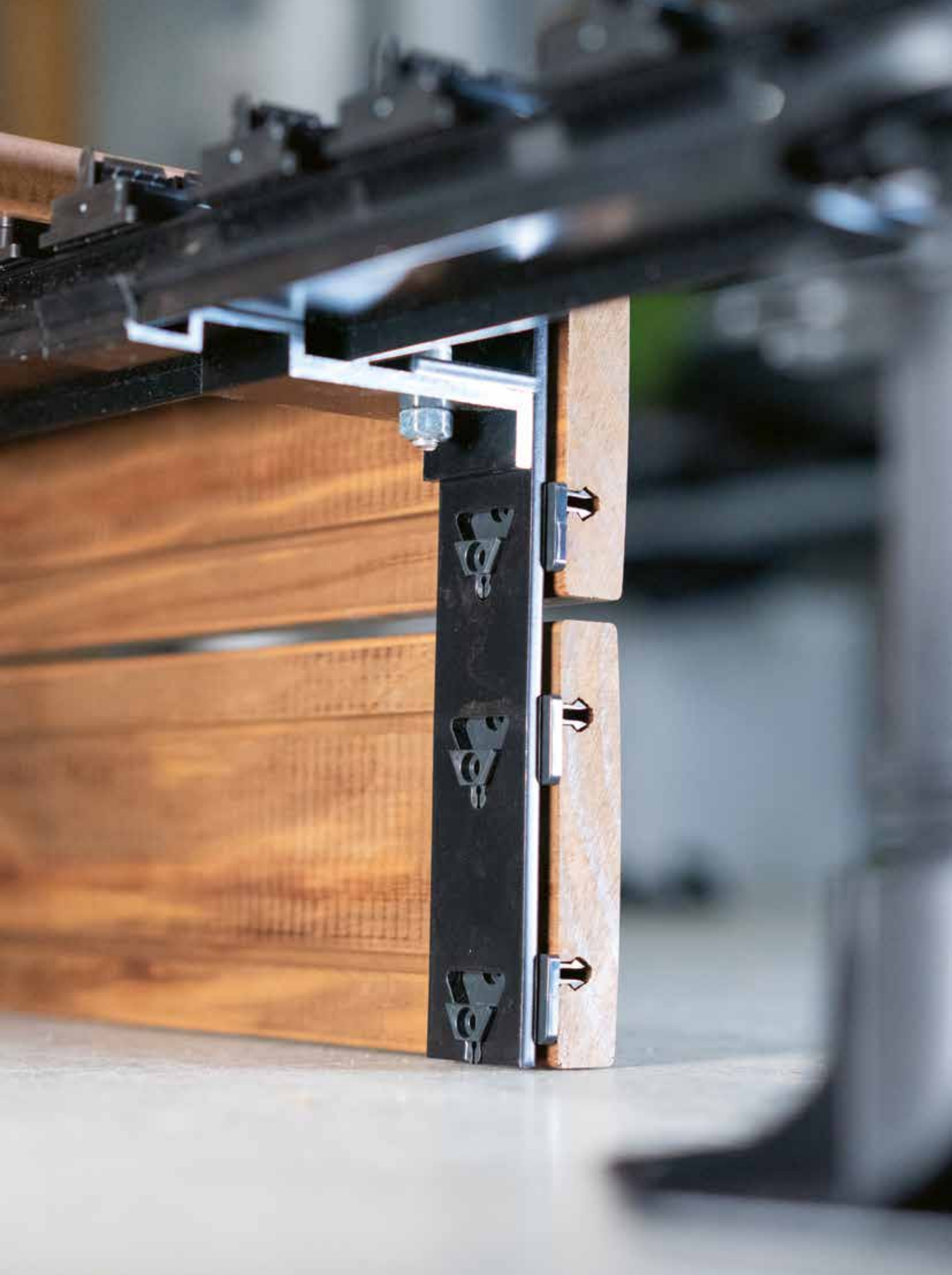
The QCLICK facing holder is used to hold QCLICK decking boards for side cladding of the terrace. Due to the simple and stable connection to the aluminium substructure, the side facing can be attached independently of the subfloor.

Product	Part no.	Qty. / PU	PU / box
QCLICK facing holder 120 incl. adapter and screws for two boards	7610	4 Pcs.	8
QCLICK facing holder 140 incl. adapter and screws for two boards	7611	4 Pcs.	8

Advantages:

- ✓ ideal for cladding the terrace with planks
- ✓ comfortable fastening on the alu rails
- ✓ easy removal and reinstallation of the planks





Kebony® Clear QCLICK



Kebony® Clear QCLICK, Solid profile				
Design	Part no.	Dimensions	Fixing	Qty. / pallet
Kebony® Clear QCLICK	7589	22x118x3000 mm	QCLICK System	144 Pcs.
	7595	22x118x3600 mm	QCLICK System	144 Pcs.
	7590	22x118x4200 mm	QCLICK System	144 Pcs.
	7594	22x118x4800 mm	QCLICK System	144 Pcs.



This board width results in a joint gap of 6 mm.

Thermo wood QCLICK



Thermo pine

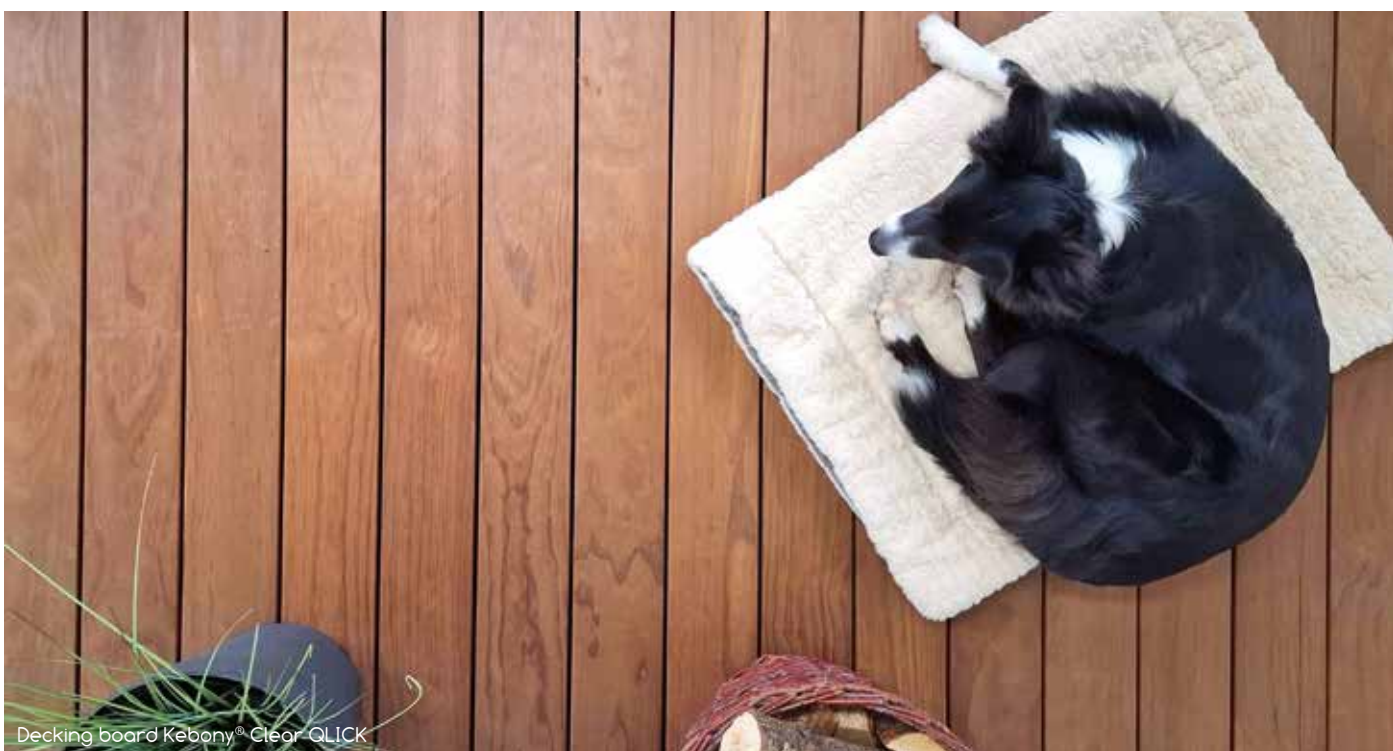


Thermo ash

Thermo wood QCLICK, Solid profile				
Design	Part no.	Dimensions	Fixing	Qty. / pallet
Thermo pine QCLICK	7591	26x118x3000 mm	QCLICK System	180 Pcs.
	7592	26x118x3900 mm	QCLICK System	180 Pcs.
	7588	26x118x4200 mm	QCLICK System	180 Pcs.
	7587	26x118x4500 mm	QCLICK System	180 Pcs.
	7593	26x118x5100 mm	QCLICK System	180 Pcs.
Thermo ash QCLICK	7586	21x118x2200 mm	QCLICK System	128 Pcs.
	7585	21x118x2500 mm	QCLICK System	128 Pcs.



This board width results in a joint gap of 6 mm.



Decking board Kebony® Clear QCLICK

Piazza Pro QCLICK



Piazza Pro QCLICK, Solid profile				
Design	Part no.	Dimensions	Fixing	Qty. / pallet
grey	7578	25x140x4000 mm	QCLICK System	49 Pcs.
	7577	25x140x5000 mm	QCLICK System	49 Pcs.
oak	7580	25x140x4000 mm	QCLICK System	49 Pcs.
	7579	25x140x5000 mm	QCLICK System	49 Pcs.
anthracite	7584	25x140x4000 mm	QCLICK System	49 Pcs.
	7583	25x140x5000 mm	QCLICK System	49 Pcs.
ceder	7582	25x140x4000 mm	QCLICK System	49 Pcs.
	7581	25x140x5000 mm	QCLICK System	49 Pcs.
light grey	7599	25x140x4000 mm	QCLICK System	49 Pcs.
	7598	25x140x5000 mm	QCLICK System	49 Pcs.

This board width results in a joint gap of 5 mm.





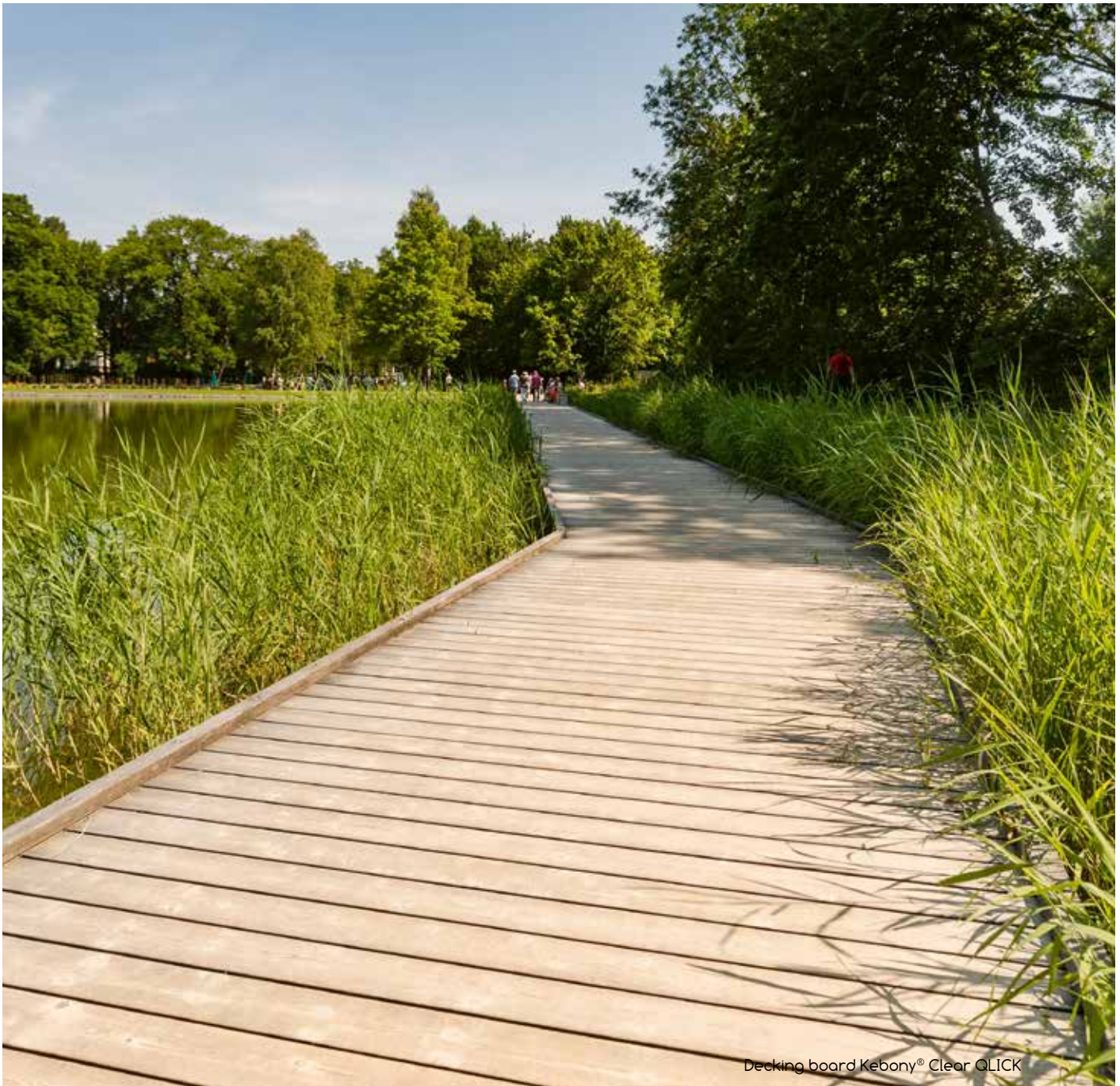
KEBONY DECKING BOARDS

Kebony is suitable for all applications where high performance coupled with attractive aesthetics is vital. The environmentally friendly Kebony® modification process using bio-alcohol improves the properties of sustainable and FSC-certified softwoods by permanently changing and strengthening their cell structure. The result: wood with premium features that convinces craftsmen and architectural offices alike. Kebony is extremely versatile and opens up a wide range of outdoor uses - for terraces, walkways, footbridges and more.

Decking boards made of Kebony wood are particularly durable and low-maintenance. Apart from normal cleaning, it does not require any additional treatment.

ke
bo
ny®

Decking board Kebony® Clear QCLICK



Decking board Kebony® Clear QCLICK



Decking board Kebony® Clear QCLICK

Advantages:

- ✓ sustainable and certified
- ✓ ecologically modified
- ✓ ohne Asteinschlüsse
- ✓ extremely durable and hard-wearing
- ✓ dimensionally stable
- ✓ ready for immediate use without pre-treatment
- ✓ easy to process
- ✓ assembly-friendly
- ✓ 20–35 years of guarantee



Decking board Kebony® Clear QCLICK

Kebony® Clear* QCLICK

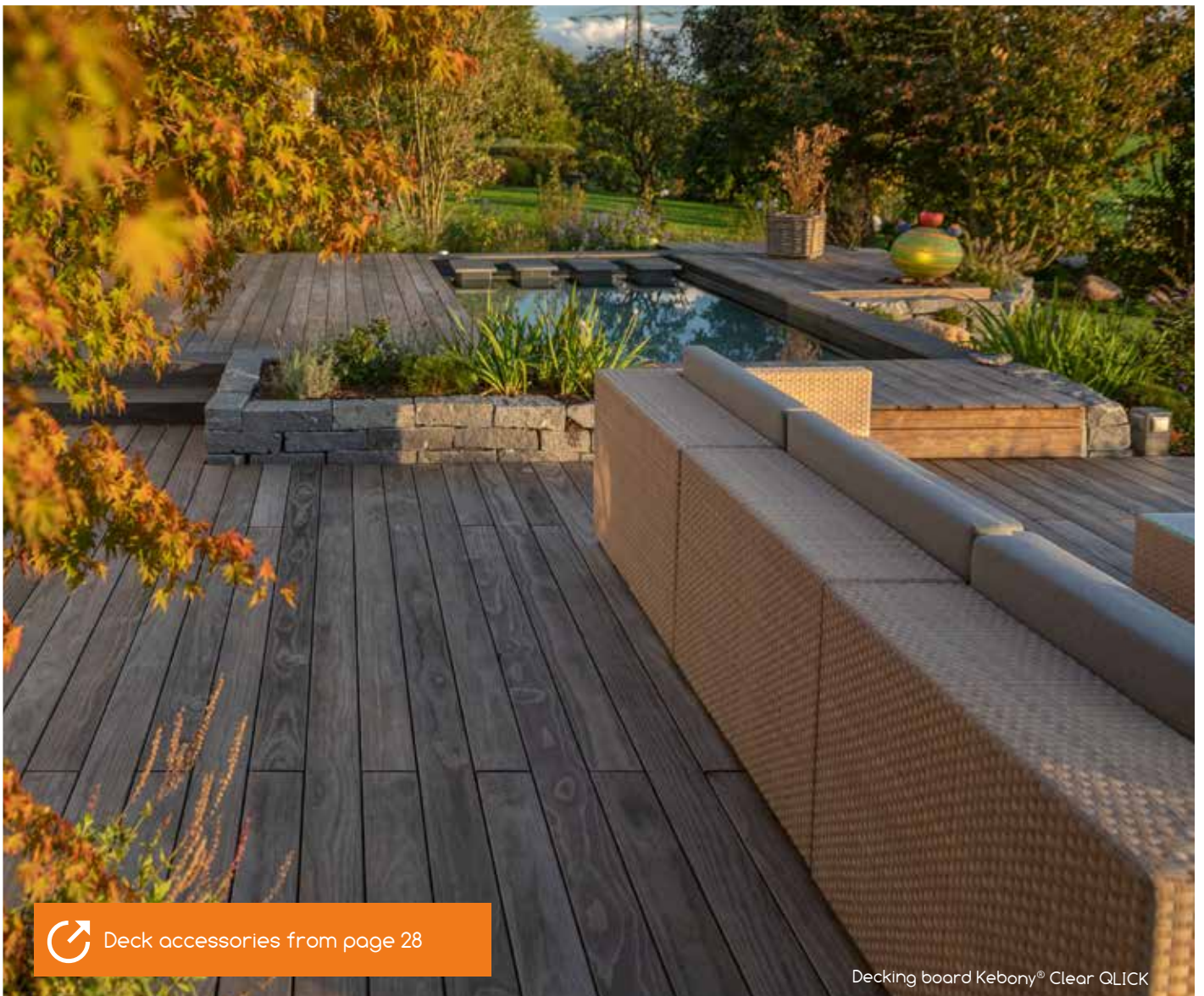


Kebony® Clear QCLICK, solid profile				
Design	Part no.	Dimension	Fixing	Qty. / pallet
Kebony® Clear* QCLICK	7589	22x118x3000 mm	QCLICK-System	144 Pcs.
	7595	22x118x3600 mm	QCLICK-System	144 Pcs.
	7590	22x118x4200 mm	QCLICK-System	144 Pcs.
	7594	22x118x4800 mm	QCLICK-System	144 Pcs.

* without knots



Due to the special preservation, Kebony takes on a beautiful dark brown, reminiscent of the colours of tropical woods. Over time, the surface develops a silver-grey patina when exposed to direct weathering, which attractively underlines its naturalness - without diminishing its excellent performance qualities. If desired, the original colour can be preserved with UV-protective oil.



Deck accessories from page 28

Decking board Kebony® Clear QCLICK

A close-up, high-angle photograph of a dog's head resting on a wooden deck. The dog has white fur with black and tan markings, particularly around its eyes and ears. Its eyes are closed, and it appears to be sleeping or resting peacefully. The wooden deck is made of wide, dark brown planks with a visible grain. The lighting is soft, creating a warm and cozy atmosphere.

PATIO DECKING FROM THERMO WOOD

Thermo wood is the ecological alternative to tropical hardwoods. Domestic woods, such as pine or ash, are subjected to a process without chemical additives. In this method, the cell structures become modified by high temperatures and humidity in a way that the water absorption capacity is greatly reduced. This makes the boards less prone to wood-damaging fungus or insect infestation, and they become similarly durable to tropical wood with a sharply reduced swelling/shrinkage behaviour.

Our thermo-wood boards have a long service life, and their smooth planed or brushed surfaces make them the visual highlight of every deck.

Thermo ash patio decking



Thermo pine decking boards, brushed



Greyed thermo ash decking

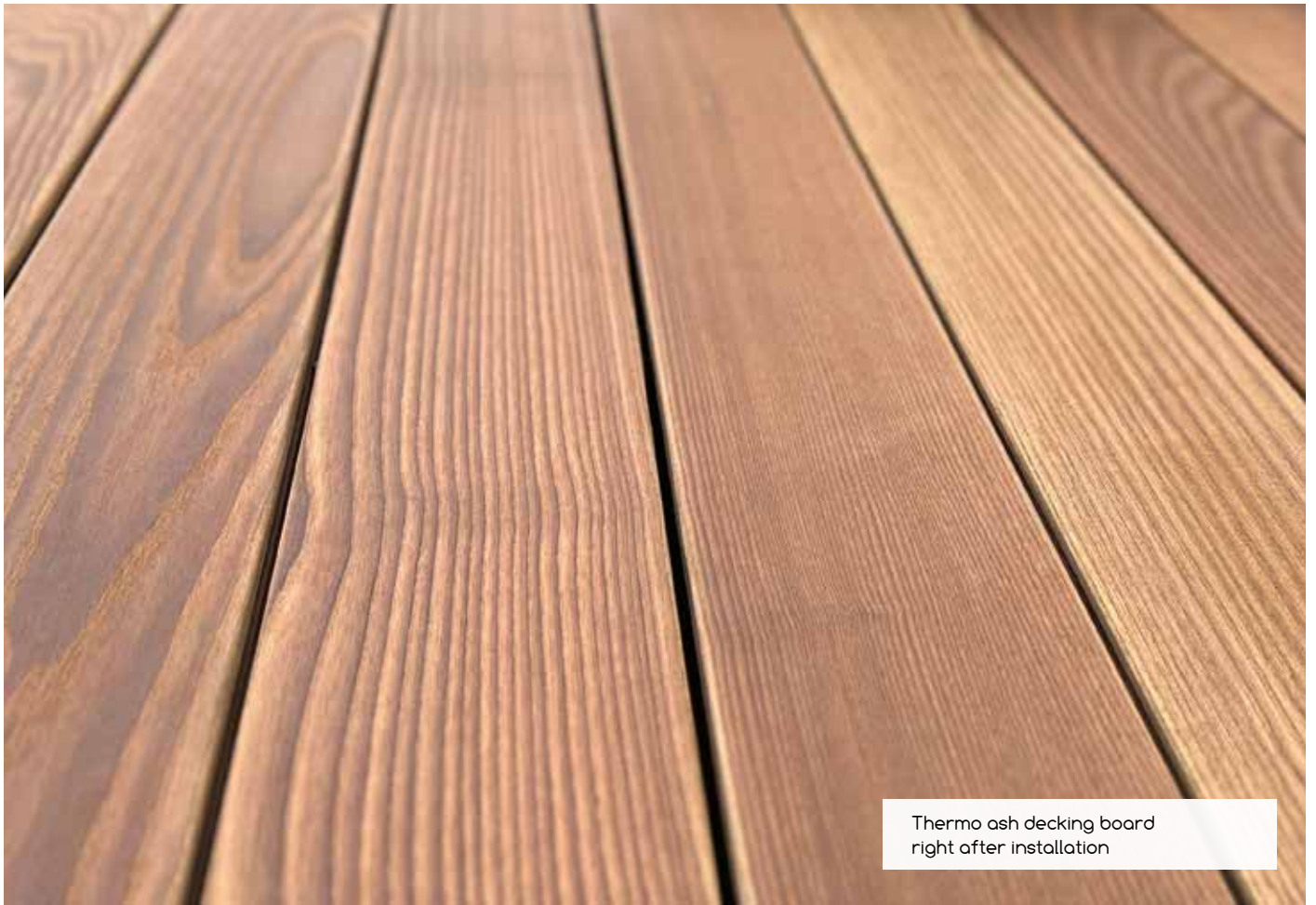
Advantages:

- ✓ Long service life
- ✓ High durability class
- ✓ Resistant to wood-damaging fungus or insect infestation
- ✓ High dimensional stability
- ✓ Weather-resistant
- ✓ Without chemical additives
- ✓ No bleeding or resination of the boards
- ✓ Invisible attachment possible (Terraflex, Terraflex Pro, Clipper)



Cracking: Minimal stress cracks are also possible in thermally treated wood. These are normally 1-2 mm wide and cannot be limited to a specific length.
Greying: A natural greying process occurs if the boards are not treated with decking oil.

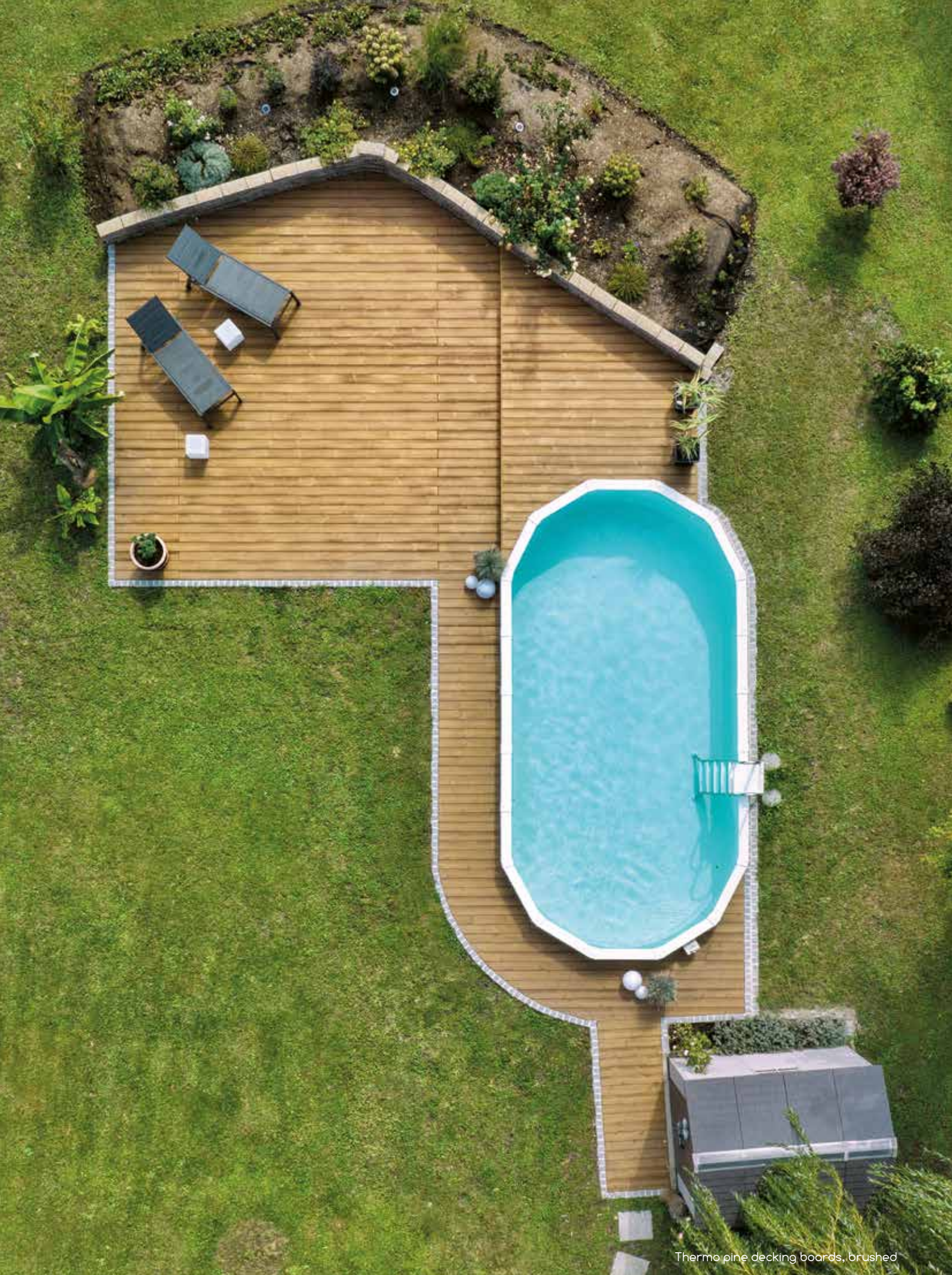
Thermo pine decking boards, brushed



Thermo ash decking board
right after installation




Untreated Thermo ash decking
one year after installation



Thermo pine decking boards, brushed

Thermo pine Decking boards




Thermo pine decking boards				
Design	Part no.	Dimension	Fixing	Qty. / pallet
with groove, brushed surface	6905	26x140x3000 mm	Terraflex / Terraflex Pro 	126 Pcs.
	6582	26x140x3900 mm		126 Pcs.
	6542	26x140x4200 mm		126 Pcs.
	6583	26x140x4500 mm		126 Pcs.
	7543	26x140x5100 mm		126 Pcs.
Wooden substructure				
Thermo pine	6950	42x68x4200 mm		120 Pcs.



Thermo ash Decking boards



Thermo ash decking boards				
Design	Part no.	Dimension	Fixing	Qty. / pallet
Thermo ash with groove, smooth surface	7234	20x115x1550 mm	Terraflex / Terraflex Pro 	144 Pcs.
	7235	20x115x1850 mm		144 Pcs.
	7236	20x115x2150 mm		144 Pcs.
	7237	20x115x2450 mm		144 Pcs.
Thermo ash with groove, brushed surface	7238	20x115x1550 mm		144 Pcs.
	7239	20x115x1850 mm		144 Pcs.
	7240	20x115x2150 mm		144 Pcs.
	7241	20x115x2450 mm		144 Pcs.
Wooden substructure				
Thermo pine	6950	42x68x4200 mm		120 Pcs.



 Overview of our fasteners suitable for decking boards on pages 204-205

 Suitable accessories from page 140



WPC DECKING BOARDS

Sustainability is a key issue for our WPC decking boards. That is why most of our WPC products are made from a high amount of recycled materials.

The advantages of the planks are not only limited to a 0% slope installation, grease and oil resistance and dimensional stability, but they also impress with unique surface structures, exclusive looks, hard-wearing surfaces and attractive, modern colours. Our range offers all you need for an individual terrace design - tailored to your project.

All features for each version can be found on the following pages.

TERRACON® Thermo WPC I37 walnut



Advantages:

- ✓ Installation with 0% gradient is possible
- ✓ Resistant to oil, grease stains and other soiling
- ✓ Unique surfaces
- ✓ Exclusive designs
- ✓ Scratch-proof and barefoot-friendly
- ✓ Modern Colors
- ✓ Dimensionally stable
- ✓ Free of splinters
- ✓ Durable against chlorinated and salty water
- ✓ Recyclable



TERRACON® WPC Piazza anthracite

TERRACON® WPC Piazza

A surface with a high-performance polymer coating in four attractive colours and lifelike hardwood embossing characterise this board. The high-quality coating ensures that the boards remain colour-stable and are resistant to almost all types of soiling. With up to 75% processed recycled material as well as full recyclability, the Piazza adds accents and scores points on the important topic of sustainability.

Advantages:

- ✓ Very high colour resistance thanks to polymer coating
- ✓ Up to 25 year warranty (colour, stain and material guarantee)
- ✓ Free of splinters and barefoot-friendly
- ✓ Scratch-proof
- ✓ Resistant to oil, grease stains and other soiling
- ✓ Durable against chlorinated and salty water
- ✓ Installation with 0% gradient is possible
- ✓ Slip-resistance R10 - A+B+C (according to DIN 51130 / DIN 51097)
- ✓ Fully recyclable
- ✓ Made in Germany
- ✓ Private and commercial use



Recycled material



The Piazza WPC board consists of 75% recovered raw materials (recycled label material and polyethylene). The board is therefore the product with the highest recycling rate of all European manufacturers and is fully recyclable, even after its guaranteed service life of 25 years.




TERRACON® WPC Piazza walnut



TERRACON® WPC Piazza grey

TERRACON® WPC Piazza One



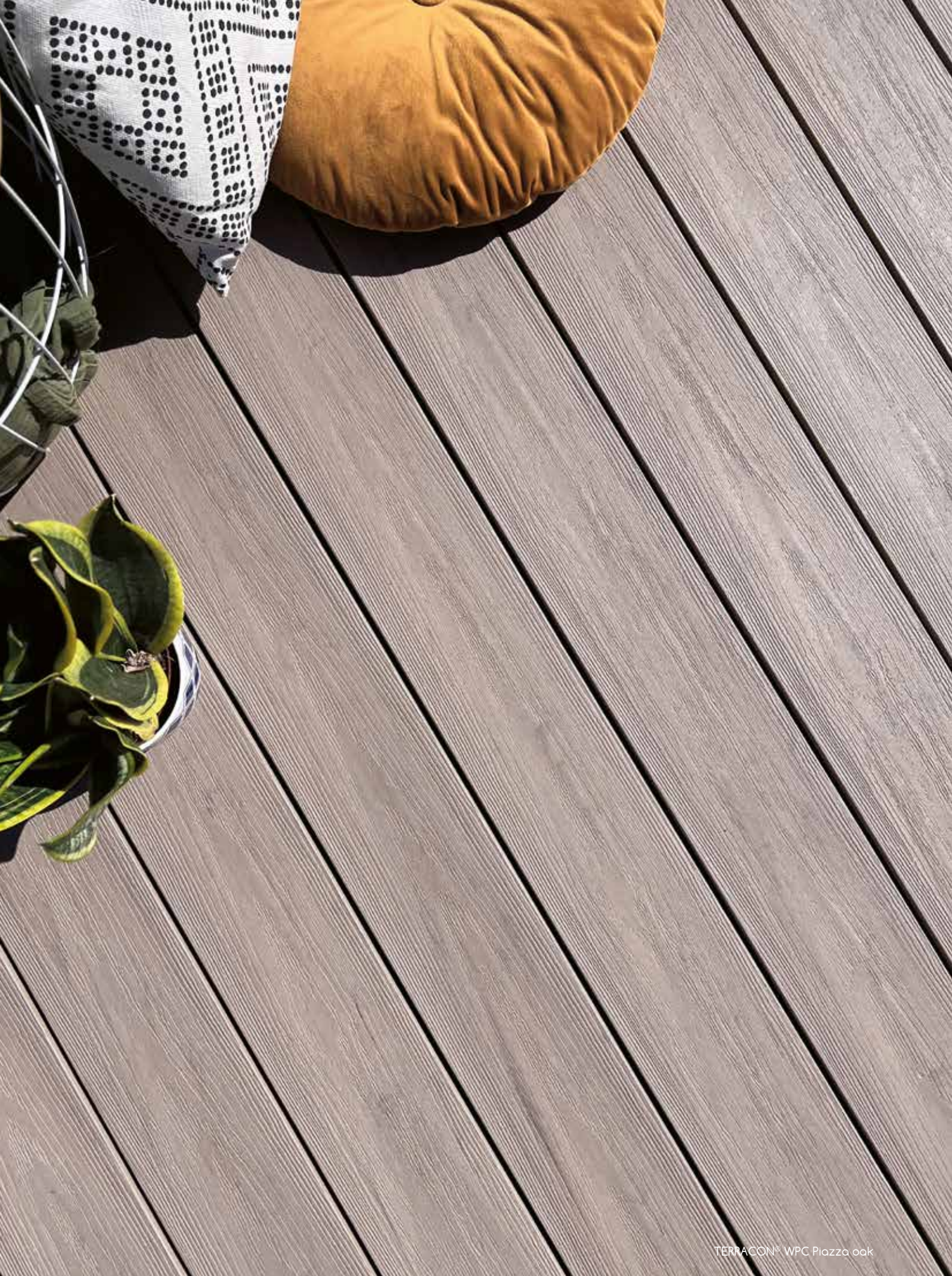
TERRACON® WPC Piazza One with groove, solid profile				
Design	Part no.	Dimensions	Fixing	Qty. / pallet
grey	7464	25x140x4000 mm	Terraflex / Terraflex Pro 	49 Pcs.
	7465	25x140x5000 mm		49 Pcs.
oak	7466	25x140x4000 mm		49 Pcs.
	7467	25x140x5000 mm		49 Pcs.
walnut	7462	25x140x4000 mm		49 Pcs.
	7463	25x140x5000 mm		49 Pcs.
anthracite	7460	25x140x4000 mm		49 Pcs.
	7461	25x140x5000 mm		49 Pcs.
mahagoni	7530	25x140x4000 mm		49 Pcs.
	7531	25x140x5000 mm		49 Pcs.
ceder	7534	25x140x4000 mm		49 Pcs.
	7535	25x140x5000 mm		49 Pcs.
light grey	7532	25x140x4000 mm		49 Pcs.
	7533	25x140x5000 mm		49 Pcs.



 Overview of our fasteners suitable for decking boards on pages 204-205

 Suitable accessories from page 140

TERRACON® WPC Piazza walnut



TERRACON® WPC Piazza oak

TERRACON® WPC Piazza Pro



TERRACON® WPC Piazza Pro with groove, solid profile				
Design	Part no.	Dimensions	Fixing	Qty. / pallet
grey	7472	25x140x4000 mm	Terraflex / Terraflex Pro N6	49 Pcs.
	7473	25x140x5000 mm		49 Pcs.
oak	7474	25x140x4000 mm		49 Pcs.
	7475	25x140x5000 mm		49 Pcs.
walnut	7470	25x140x4000 mm		49 Pcs.
	7471	25x140x5000 mm		49 Pcs.
anthracite	7468	25x140x4000 mm		49 Pcs.
	7469	25x140x5000 mm		49 Pcs.
mahagoni	7536	25x140x4000 mm		49 Pcs.
	7537	25x140x5000 mm		49 Pcs.
ceder	7540	25x140x4000 mm		49 Pcs.
	7541	25x140x5000 mm		49 Pcs.
light grey	7538	25x140x4000 mm		49 Pcs.
	7539	25x140x5000 mm		49 Pcs.



 Overview of our fasteners suitable for decking boards on pages 204-205

 Suitable accessories from page 140



TERRACON® WPC 140 bright beige

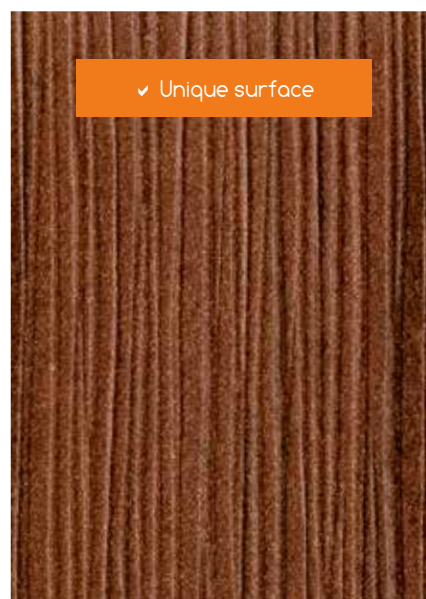
TERRACON® WPC 140

The wavy design of the TERRACON® WPC 140 with its colour embedding is unique and gives your deck a luxurious and exclusive look. The surface is embossed and not milled, which makes it much less prone to dirt or grease.

The TERRACON® WPC 140 patio decking consist of 70% of wood fibres and 30% environmentally friendly and food safe polymer. The wood fibres used are derived from timber of sustainable forestry. The material composition makes the decking boards very stable and easy to maintain. The special top coat makes the TERRACON® WPC particularly resilient, durable and also easy to maintain and process.

Advantages:

- ✓ Due to dark colour gradients on the surface each board is unique
- ✓ Dimensionally stable
- ✓ Free of splinters and barefoot-friendly
- ✓ Easy care, grease and oil resistant
- ✓ Durable against chlorinated and salty water
- ✓ Installation with 0% gradient is possible
- ✓ High skid resistance R11 (according to DIN 51130)
- ✓ Use of timber from sustainable forestry – tropical wood-free
- ✓ Fully recyclable
- ✓ Made in Germany
- ✓ Private and commercial use





TERRACON® WPC 140 hazel



TERRACON® WPC 140 grey

TERRACON® WPC 140

Surface 1	Surface 2*	Weather-related brightening**
		
bright beige		
		
hazel		
		
grey		
		
anthracite		

*Significantly more striking colour inclusions give surface 2 its characteristic appearance.

**Bleaching due to weather conditions, one year after installation.

TERRACON® WPC 140 with groove, solid profile				
Design	Part no.	Dimensions	Fixing	Qty. / pallet
bright beige	7317	21x140x4000 mm	Terraflex / Terraflex Pro N6	70 Pcs.
	7318	21x140x5000 mm		70 Pcs.
hazel	7311	21x140x4000 mm		70 Pcs.
	7312	21x140x5000 mm		70 Pcs.
grey	7314	21x140x4000 mm		70 Pcs.
	7315	21x140x5000 mm		70 Pcs.
anthracite	7431	21x140x4000 mm		70 Pcs.
	7432	21x140x5000 mm		70 Pcs.

With dark colour embedding



Overview of our fasteners suitable for decking boards on pages 204-205



Suitable accessories from page 140

TERRACON® WPC 140 hazel



TERRACON® WPC Vision CoolDeck beige

TERRACON® WPC Vision CoolDeck

The TERRACON® WPC Vision CoolDeck is particularly barefoot-friendly, as the terrace remains noticeably cooler even on hot summer days thanks to CoolDeck technology. The plank impresses with a unique, elegant and refined surface structure. The high-performance coating stands out for its light, stain and scratch resistance. In addition, Vision CoolDeck is suitable for permanent use on and under water.

Advantages:

- ✓ CoolDeck Technology: Surface absorbs up to 35% less heat!
- ✓ High light-, stain- and scratch-resistance due to special coating
- ✓ Natural touch thanks to embossed wood pore texture
- ✓ Vivid look by digital surface technology
- ✓ Barefoot-friendly
- ✓ Easy care, grease and oil resistant
- ✓ Up to 25 year warranty (colour, stain and material guarantee)
- ✓ Durable against chlorinated and salty water
- ✓ Can be used on the ground and under water
- ✓ Slip-resistance R11 (according to DIN 51130)
- ✓ Installation with 0% gradient is possible

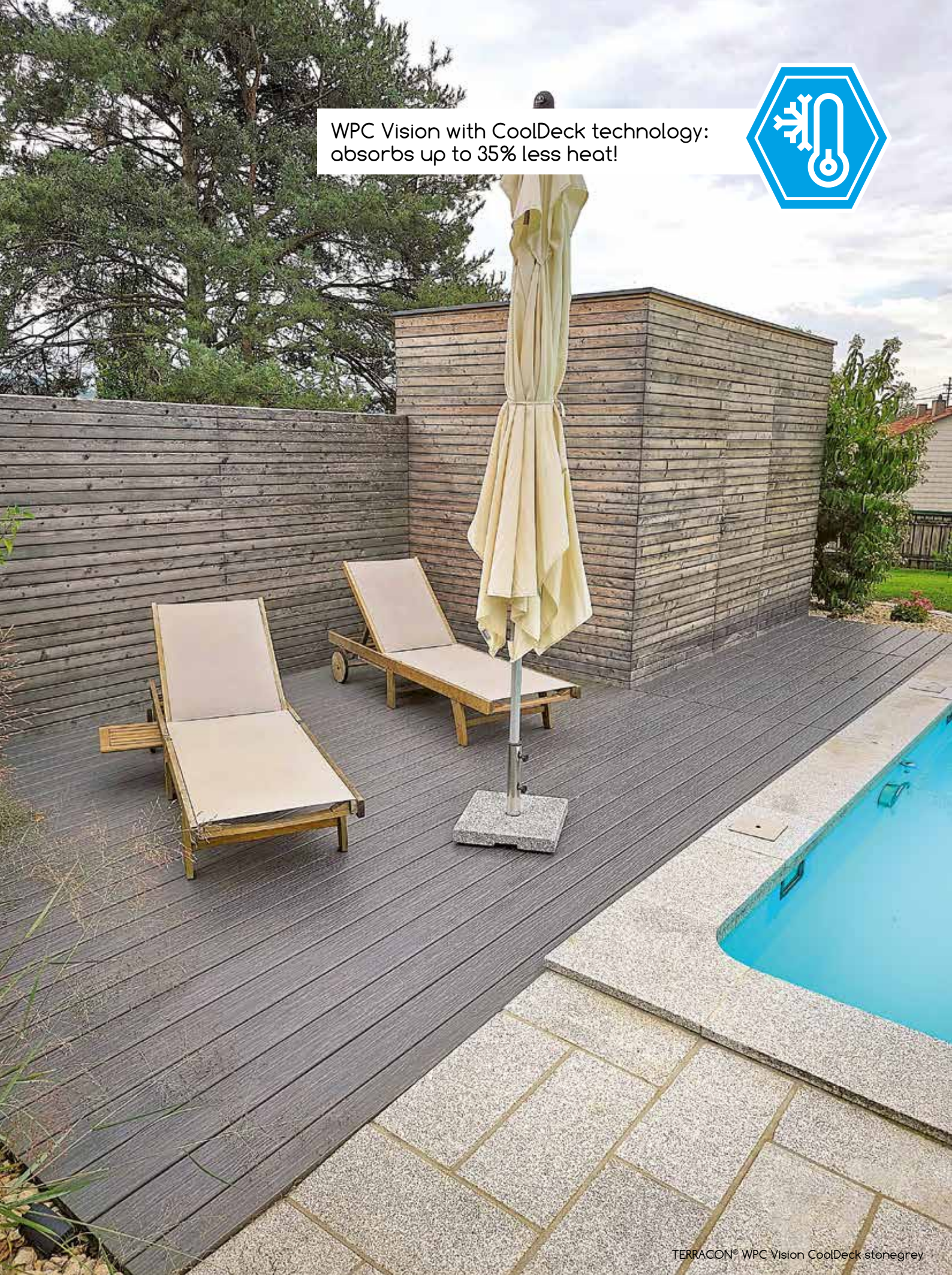
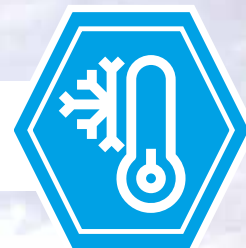


Recycled material



The material of the TERRACON® WPC Vision CoolDeck board is made from thermally treated oak chips from the flooring industry and recycled plastic from household waste. The board is made from 95% recycled material and is fully recyclable.

WPC Vision with CoolDeck technology:
absorbs up to 35% less heat!

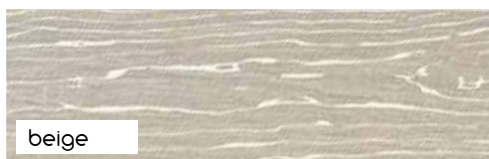


TERRACON® WPC Vision CoolDeck stonegrey

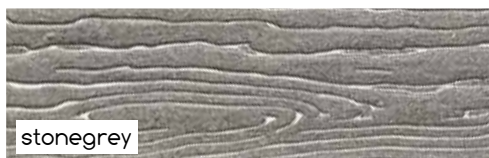


TERRACON® WPC Vision CoolDeck beige

TERRACON® WPC Vision CoolDeck*




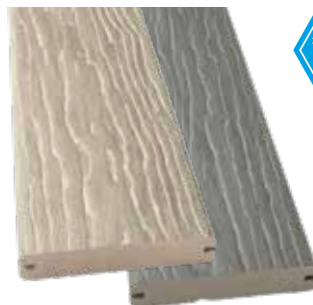
beige



stonegrey

*WPC Vision with CoolDeck Technology:
absorbs up to 35% less heat.

TERRACON® WPC Vision CoolDeck with groove, solid profile				
Design	Part no.	Dimensions	Fixing	Qty. / pallet
beige	7545	25x137x4880 mm	Terraflex / Terraflex Pro 	48 Pcs.
stonegrey	7544	25x137x4880 mm		48 Pcs.



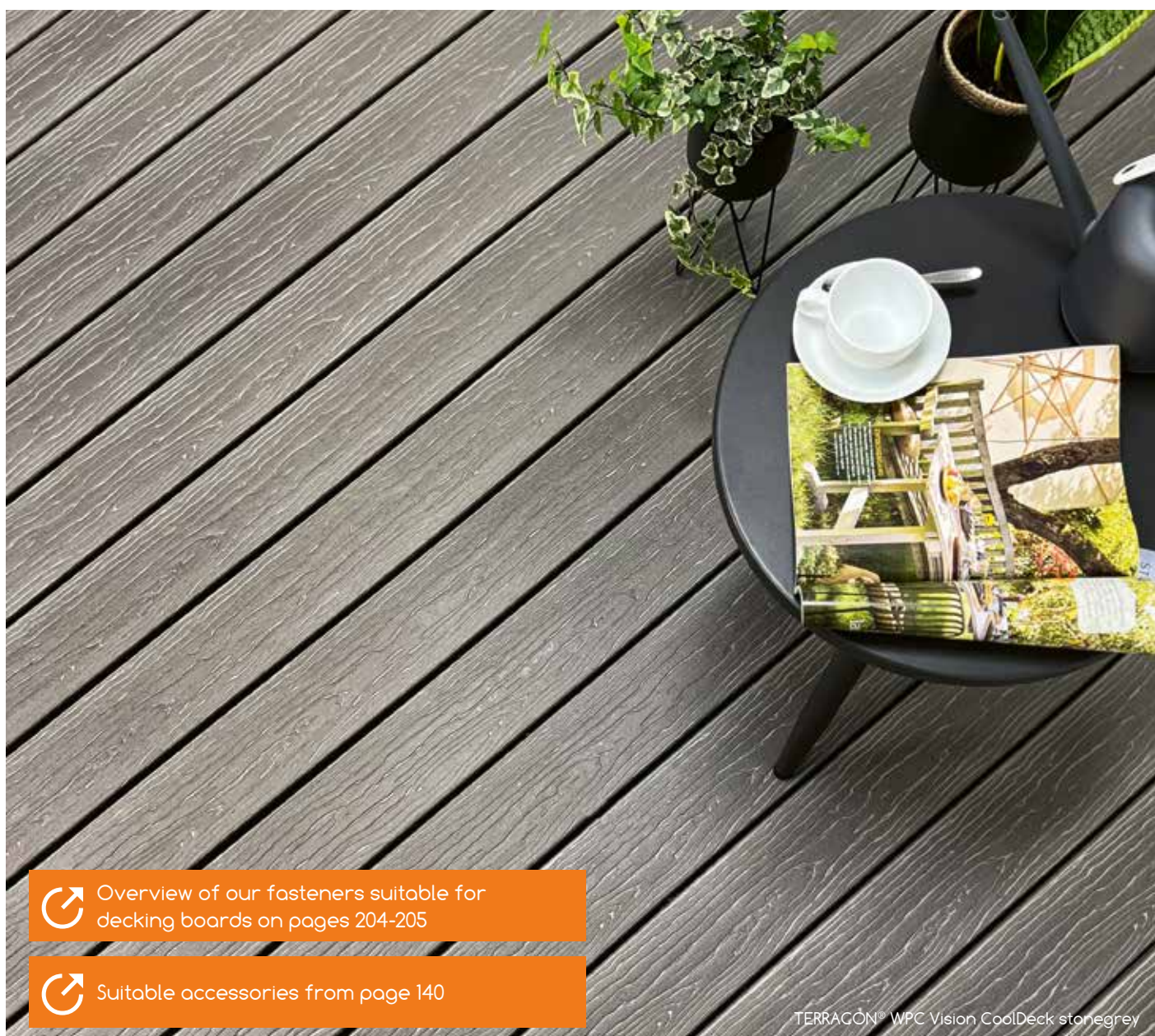
Example:



with CoolDeck
Technology



without CoolDeck
Technology



Overview of our fasteners suitable for
decking boards on pages 204-205



Suitable accessories from page 140

TERRACON® WPC Vision CoolDeck stonegrey



TERRACON® Thermo-WPC 137 cedar

TERRACON® Thermo WPC 137

The TERRACON® Thermo-WPC 137 boards have the equivalent look and feel of hardwood boards, while maintaining the appearance for a long time with minimal care. The natural look of this decking is achieved by the enrichment of the colour tones with darker streaks. A special manufacturing process makes the surface very resistant, thereby reducing the risk of damage and also makes it resistant to oil and grease. The plank, which consists of 95% recycled material, does not absorb moisture and can therefore be installed without a gradient.

Advantages:

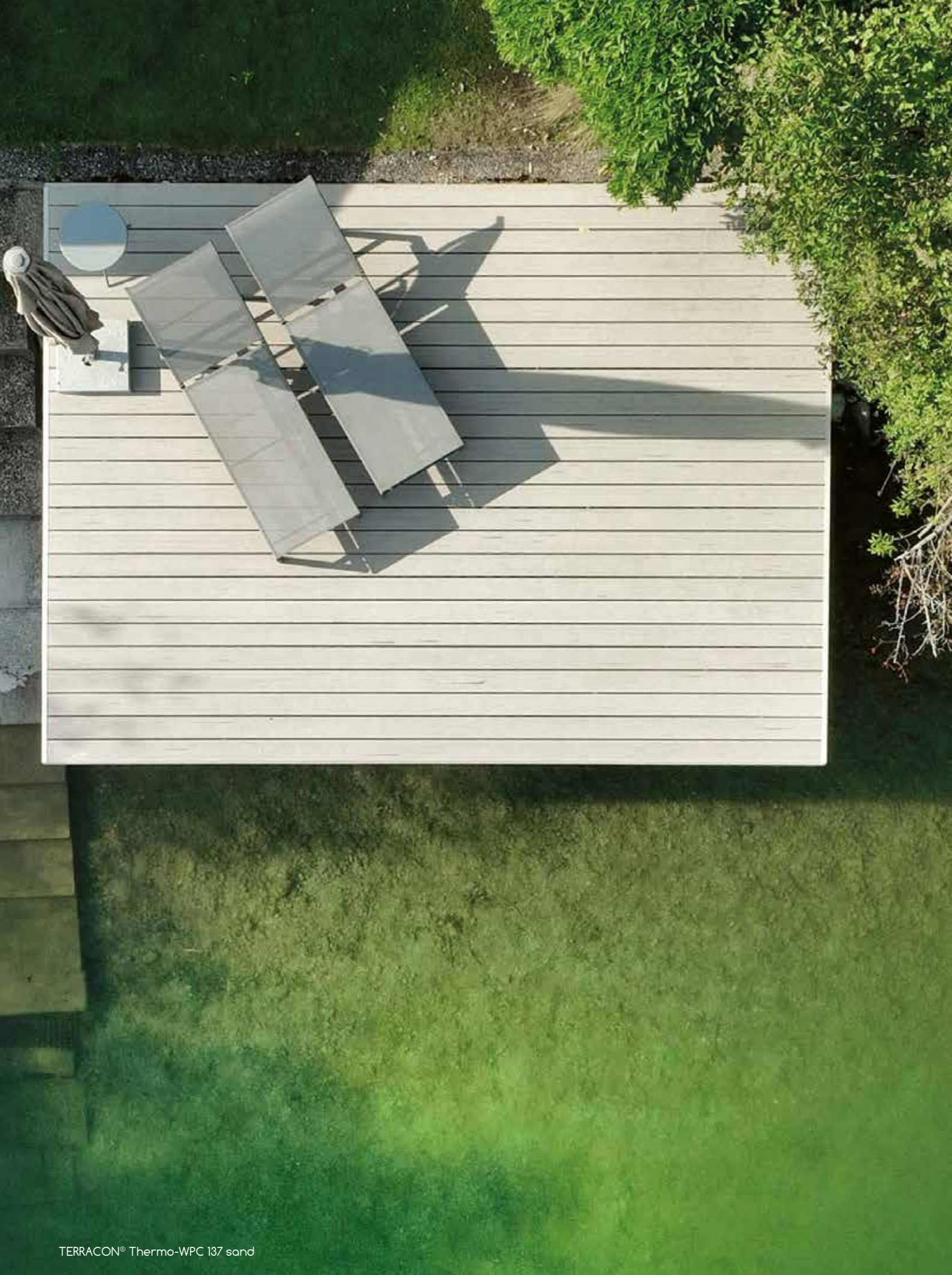
- ✓ Unique boards thanks to structure and dark colour gradient
- ✓ Natural touch thanks to embossed wood pore texture
- ✓ Easy care, grease and oil resistant
- ✓ Up to 25 years manufacturer's warranty against rot, decay and insect damage
- ✓ Barefoot-friendly
- ✓ Durable against chlorinated and salty water
- ✓ Installation with 0% gradient is possible
- ✓ High skid resistance R11 (according to DIN 51130)
- ✓ Around 95 % from recycled materials
- ✓ Extremely durable core of heat treated oak fibres fully encapsulated in Polyethylen – thereby minimised linear expansion
- ✓ Private and commercial use



Recycled material



The material of the TERRACON® thermally modified WPC 137 board is made from thermally treated oak chips from the flooring industry and recycled plastic from household waste. The board is made from 95% recycled content and is fully recyclable.



TERRACON® Thermo-WPC 137 sand



TERRACON® Thermo-WPC 137 walnut

TERRACON® Thermo-WPC 137

Surface

Weather-
related
brightening **



sand*



walnut*



ceder*




grey

*With dark colour embedding

**Bleaching due to weather conditions, one year after installation

TERRACON® Thermo-WPC 137 with groove, solid profile

Design	Part no.	Dimensions	Fixing	Qty. / pallet
sand	6584	25x137x3660 mm	Terraflex / Terraflex Pro 	48 Pcs.
	6585	25x137x4880 mm		48 Pcs.
walnut	6586	25x137x3660 mm		48 Pcs.
	6587	25x137x4880 mm		48 Pcs.
ceder	6588	25x137x3660 mm		48 Pcs.
	6589	25x137x4880 mm		48 Pcs.
grey	6590	25x137x3660 mm		48 Pcs.
	6591	25x137x4880 mm		48 Pcs.



Overview of our fasteners suitable for
decking boards on pages 204-205



Suitable accessories from page 140

TERRACON® Thermo-WPC 137 sand



CERAMIC PATIO TILES

Ceramic patio tiles in the latest design and with wood decors that are impressively close to the original in trendy sizes that offer the right format for every taste. Break new ground in patio design and discover the diverse possibilities that exist to plan and build a patio according to your individual needs.

The current product range of Karle & Rubner offers not only numerous ceramic patio tiles in top quality, but also all conceivable options for making their installation easy, quick and professional. With the innovative CLIP system you need only one substructure for boards and panels, giving total flexibility - **ONE** system for **ALL** coverings!

Ceramic tile Ardesia grey



Ceramic tile Flux concrete

ALL IMAGES OF THE
PRINT DECORS



Ceramic tile Flux coke

Advantages:

- ✓ Ultra-modern design
- ✓ Permanently impervious to all types of dirt
- ✓ UV-resistant, colourfast and lightfast
- ✓ Salt and frost resistant (water absorption below 0.5%)
- ✓ Large substructure distance possible (up to 60 cm in width)
- ✓ High dimensional stability (no perceptible arching)
- ✓ Maximum dimensional tolerance of only 0.3 mm, all edges are rectified
- ✓ High slip-resistance R11
- ✓ No pre- and post-treatment required
- ✓ Up to 40 different printed images are available per tile decor, thus ensuring a varied and natural laying pattern

Athos Rock sky blue
60x120x2 cm
Part no. 7628

NEW!

Athos Rock anthracite
60x120x2 cm
Part no. 7626

NEW!



Ceramic tile Athos Rock anthracite



Ceramic tile Athos Rock grey



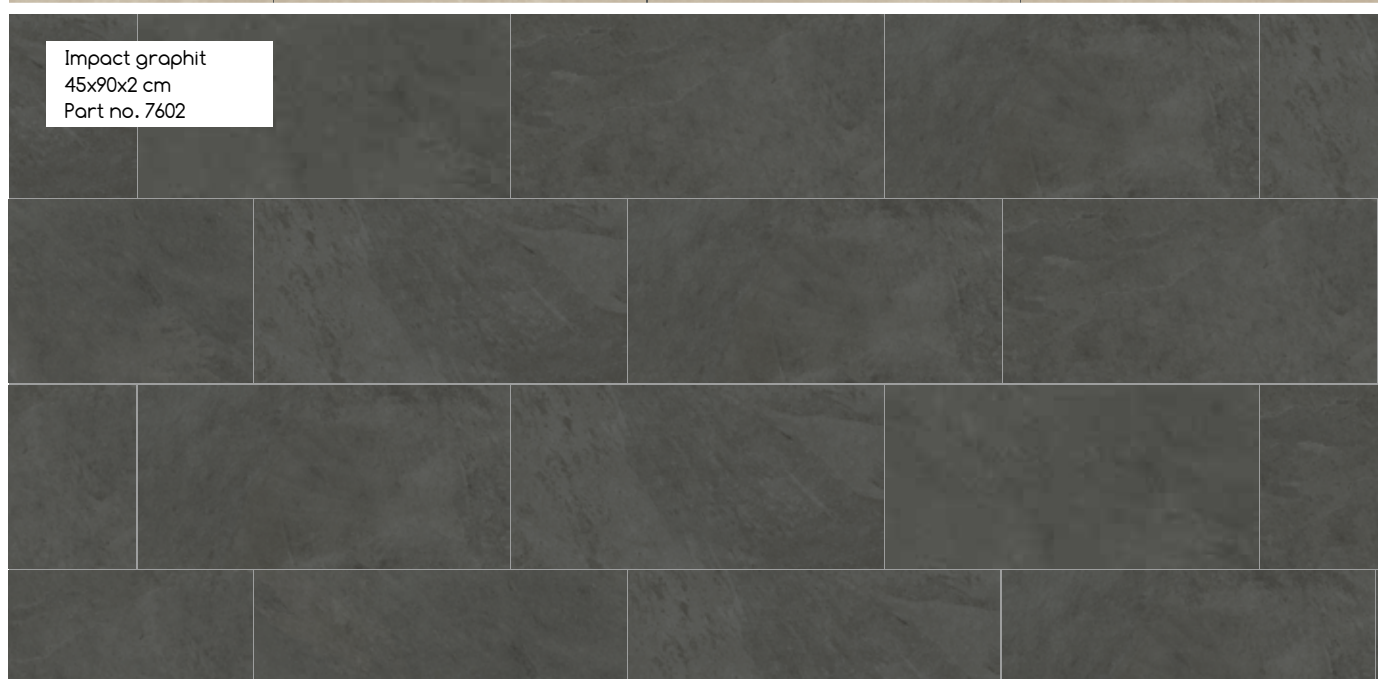
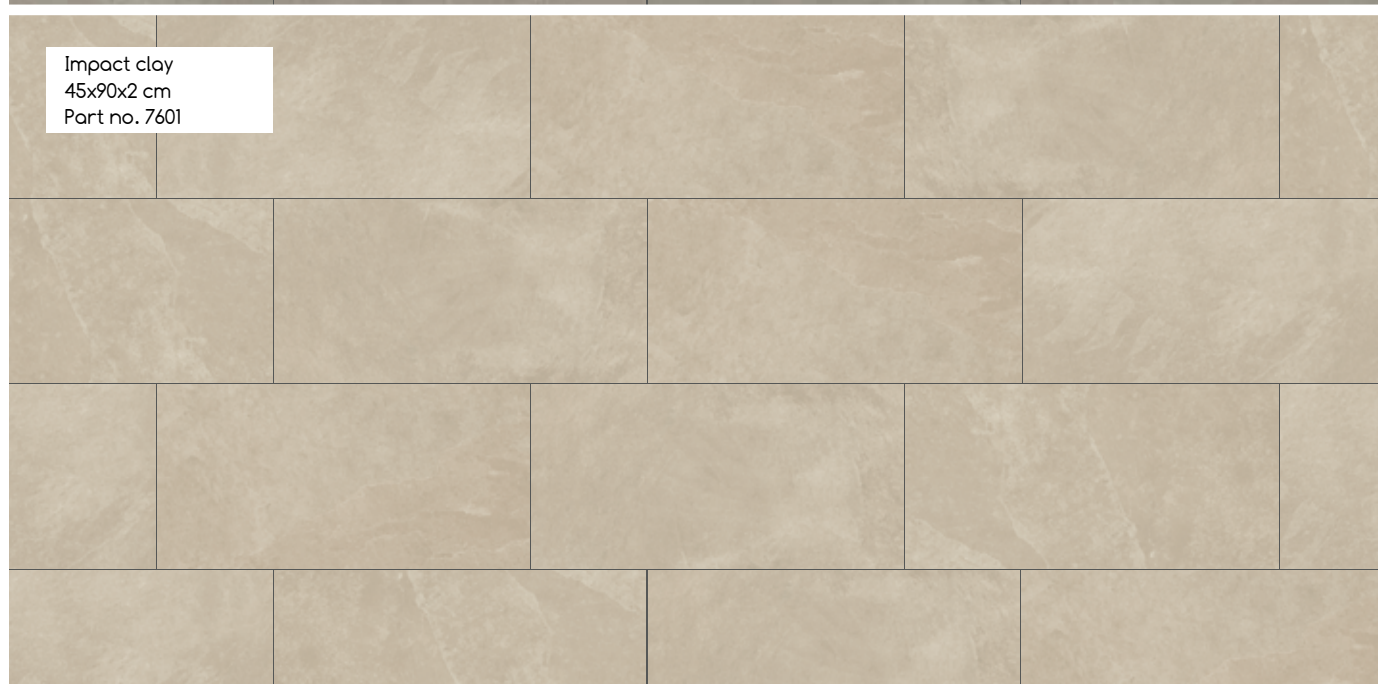
Athos Rock sand
60x120x2 cm
Part no. 7627

NEW!



Athos Rock grey
60x120x2 cm
Part no. 7629

NEW!





Ceramic tile Impact ash



Ceramic tile Prism cloud

Prism cloud
80x80x2 cm
Part no. 7604



Prism suede
80x80x2 cm
Part no. 7605



Prism fog
80x80x2 cm
Part no. 7606



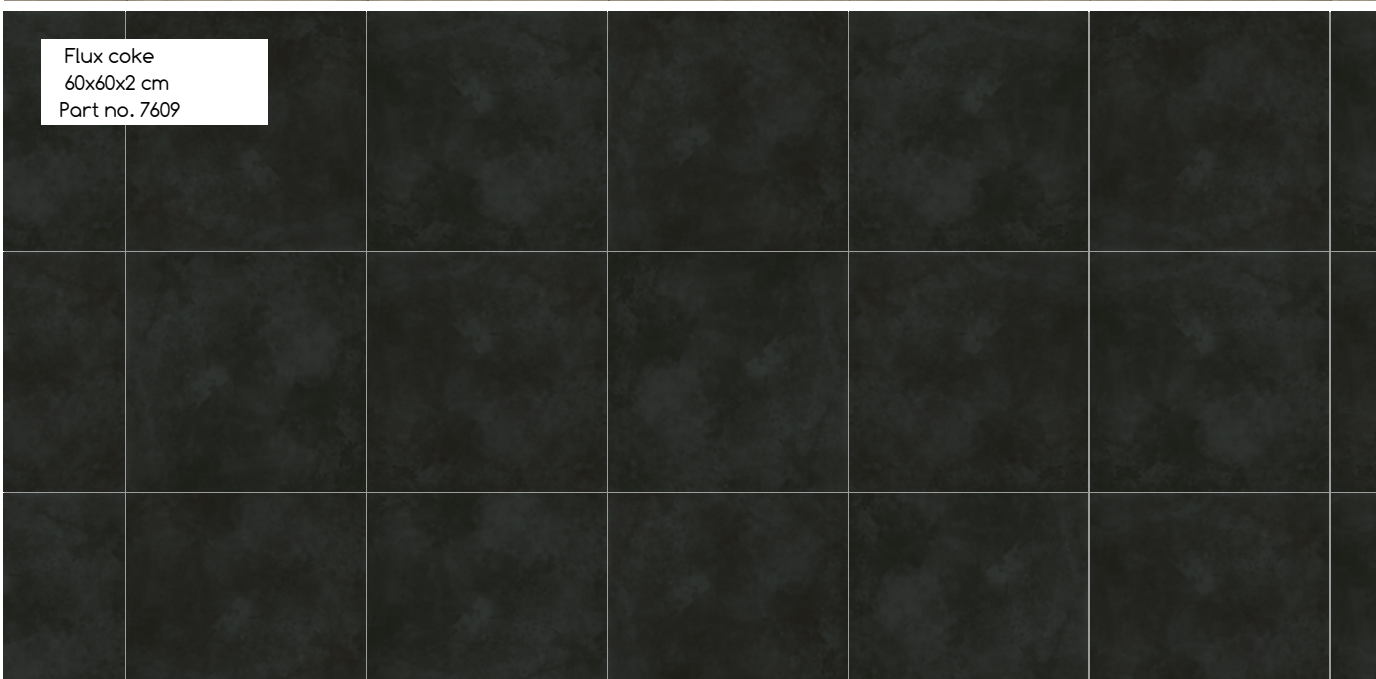
Flux bone
60x60x2 cm
Part no. 7607



Flux concrete
60x60x2 cm
Part no. 7608



Flux coke
60x60x2 cm
Part no. 7609



Bloze corten
60x60x2 cm
Part no. 7603

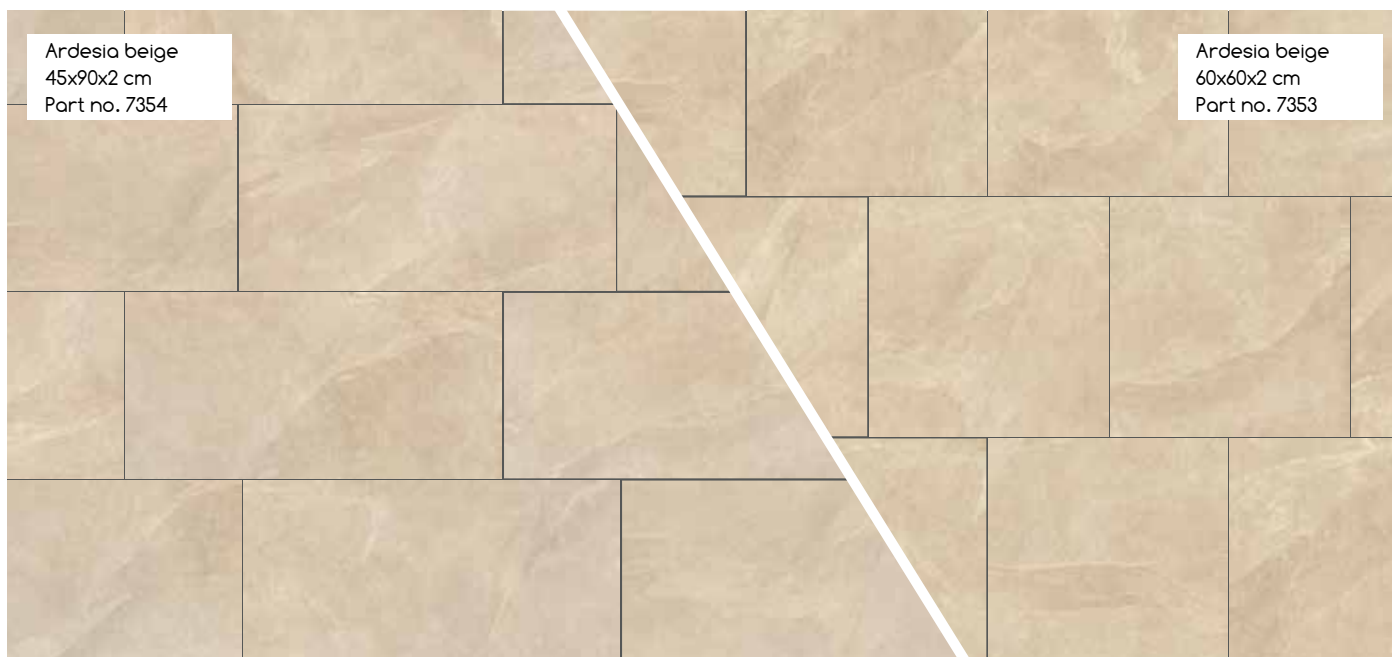


Ceramic tile Flux bone



Ceramic tile Crossing grey







Ceramic tile Ardesia beige



Ceramic tile Tavola old wood

Tavola quarzite
45x90x2 cm
Part no. 7421



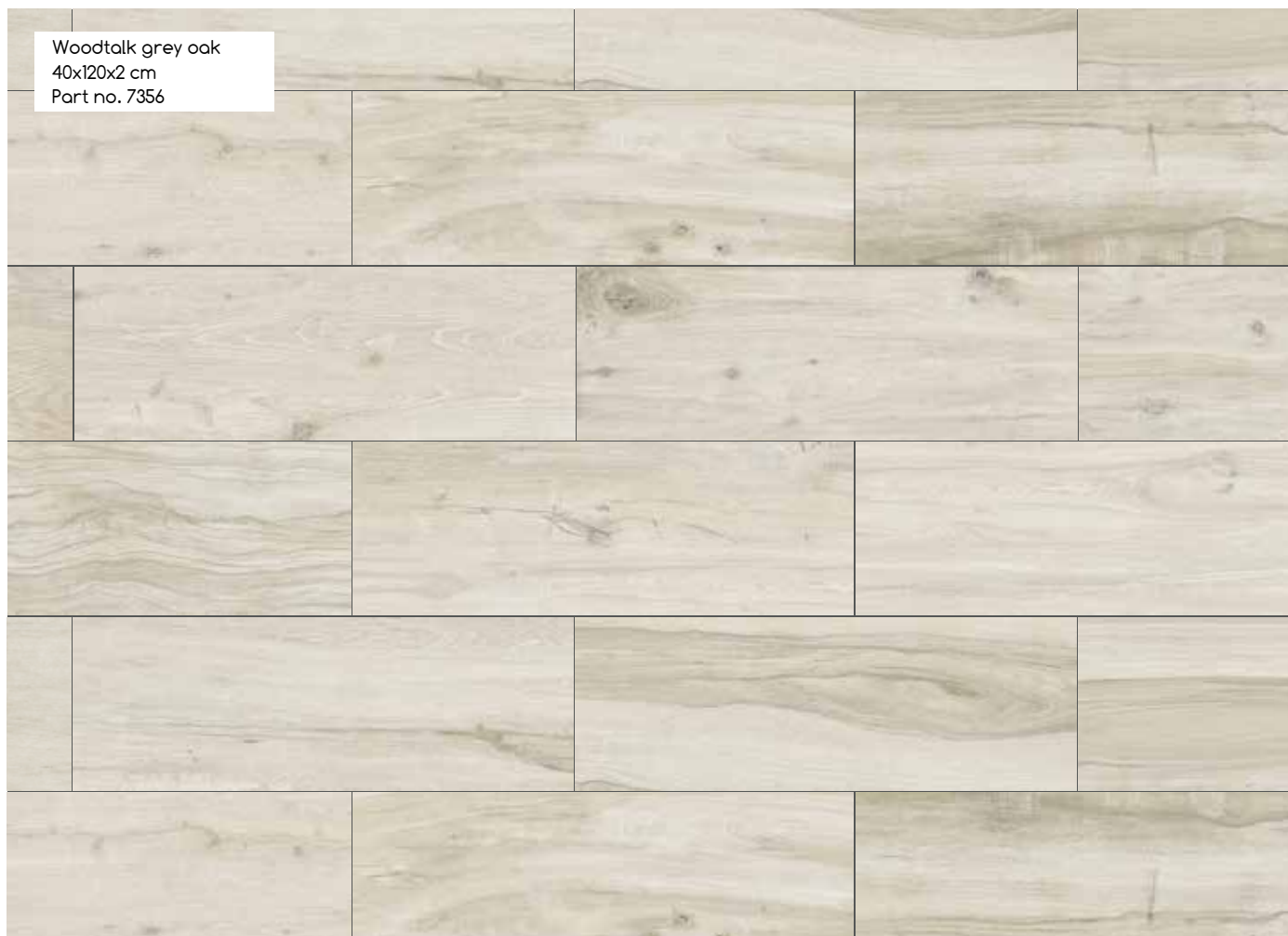
Tavola old wood
45x90x2 cm
Part no. 7359



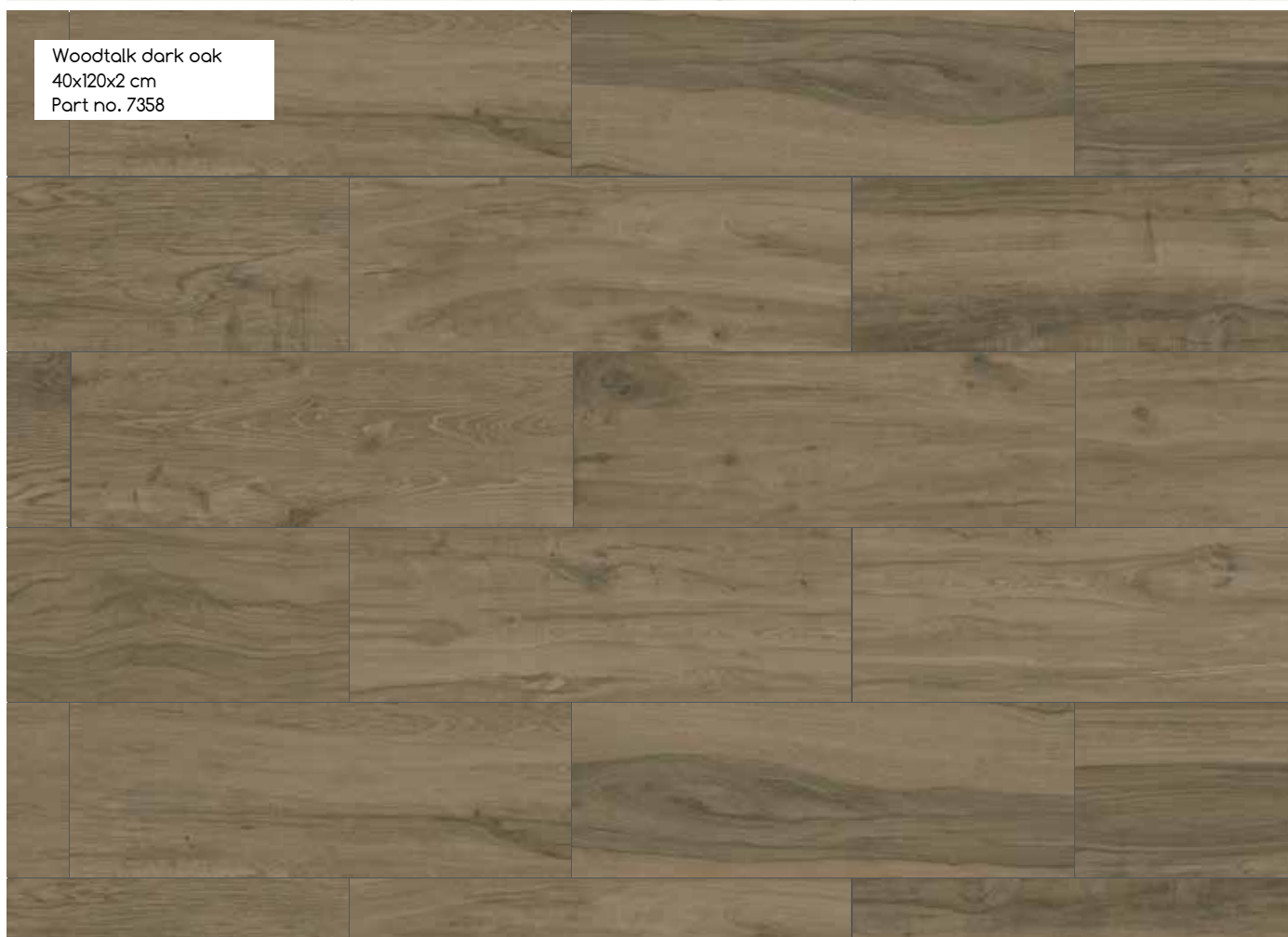
Tavola granit
45x90x2 cm
Part no. 7360



Woodtalk grey oak
40x120x2 cm
Part no. 7356



Woodtalk dark oak
40x120x2 cm
Part no. 7358

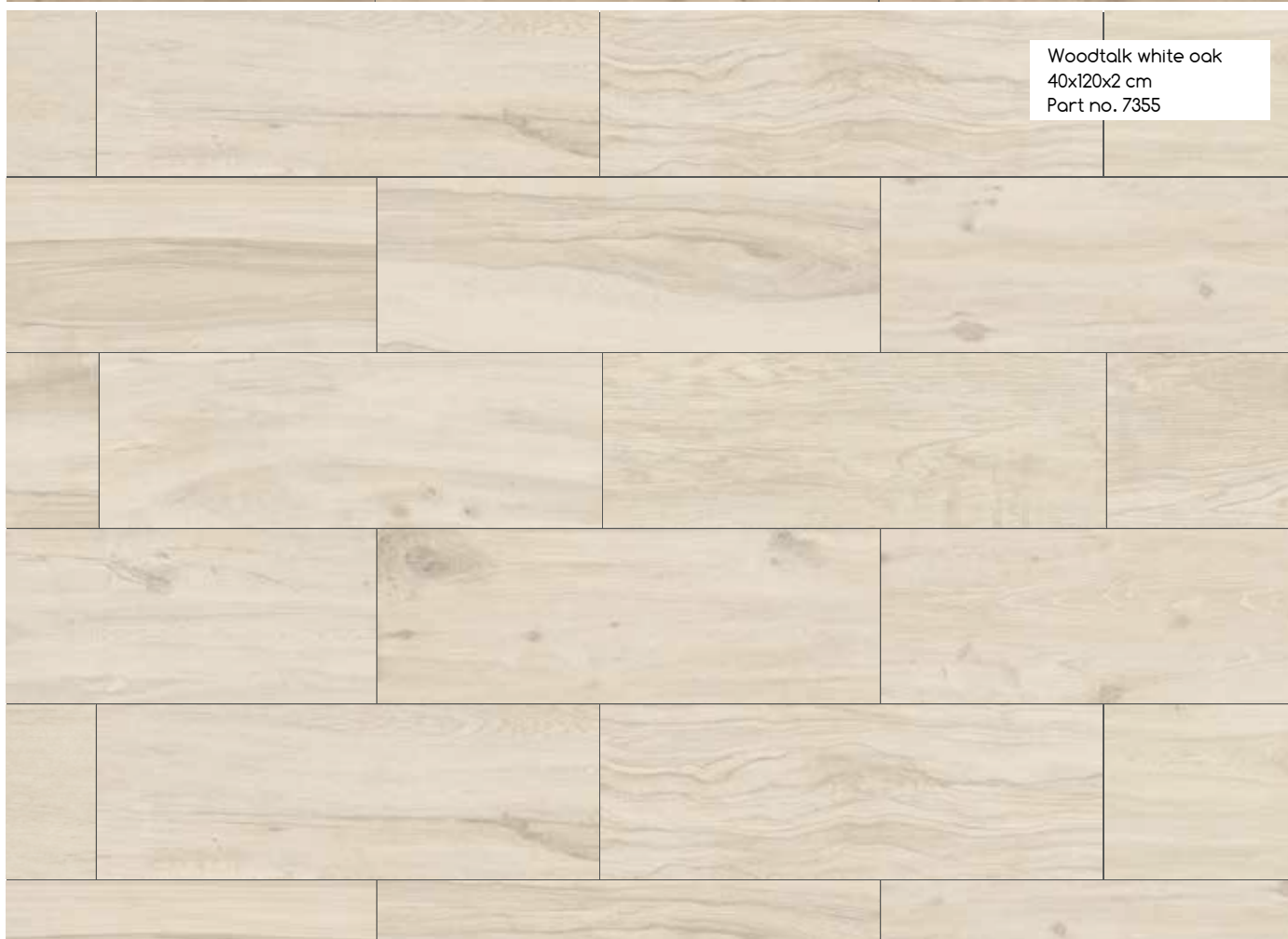
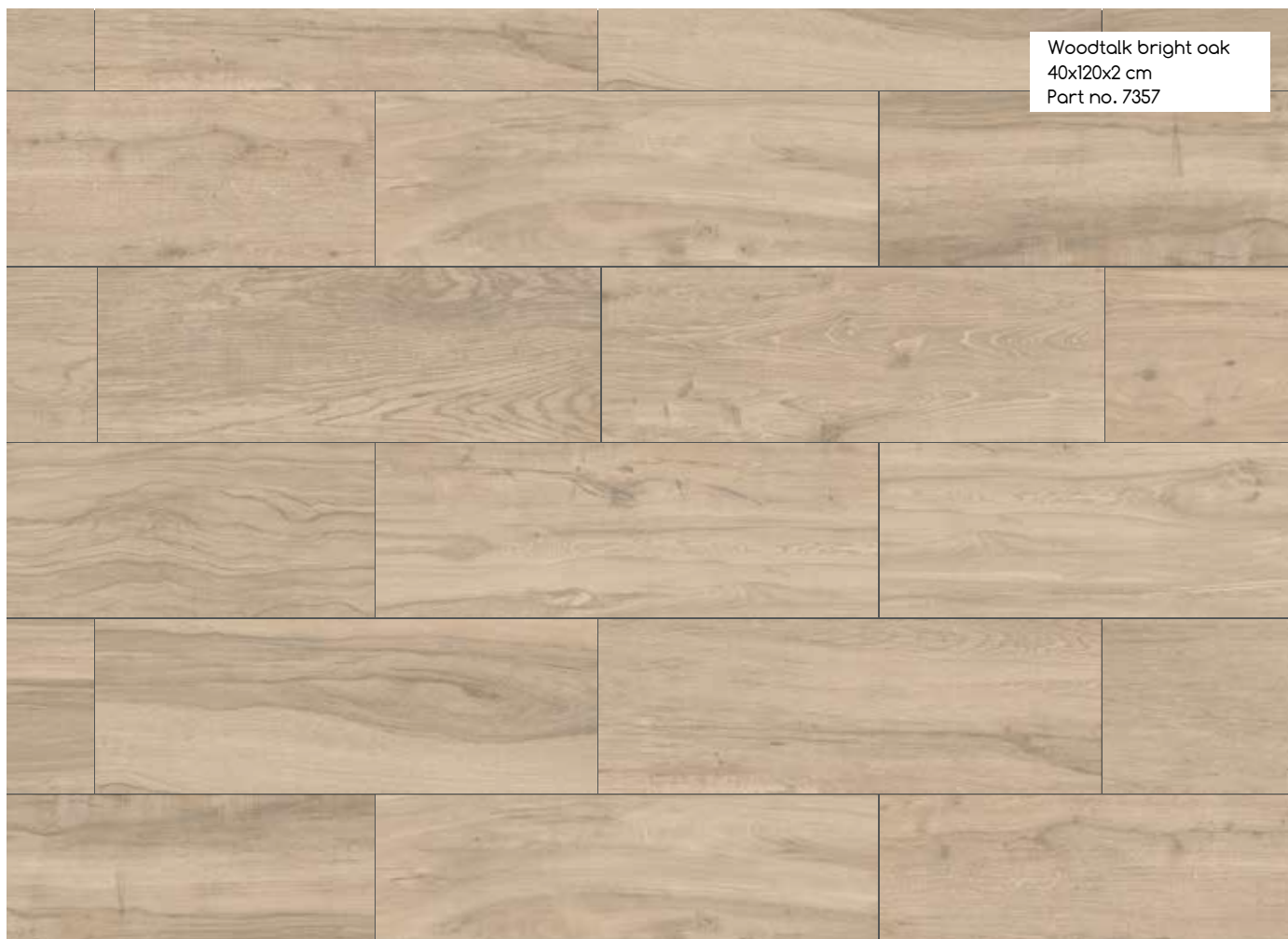




Ceramic tile Woodtalk grey oak



Ceramic tile Woodtalk bright oak





Ceramic tile Prism cloud

NEW!

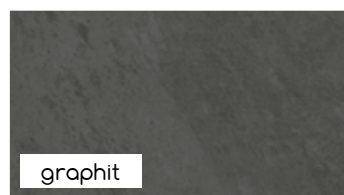
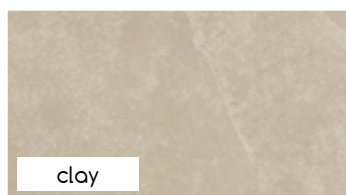
Ceramic tile Athos Rock

Design	Part no.	Dimensions*	PU / Carton	Qty. / pallet
Athos Rock sky blue	7628	600x1200x20 mm	1 Pc.	36 Pcs.
Athos Rock anthracite	7626	600x1200x20 mm	1 Pc.	36 Pcs.
Athos Rock sand	7627	600x1200x20 mm	1 Pc.	36 Pcs.
Athos Rock grey	7629	600x1200x20 mm	1 Pc.	36 Pcs.



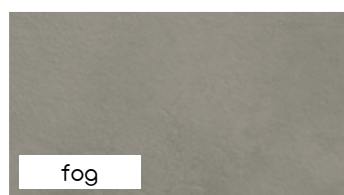
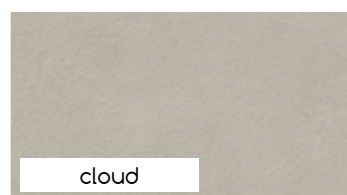
Ceramic tile Impact

Design	Part no.	Dimensions*	PU / Carton	Qty. / pallet
Impact ash	7600	450x900x20 mm	2 Pc.	54 Pcs.
Impact clay	7601	450x900x20 mm	2 Pc.	54 Pcs.
Impact graphit	7602	450x900x20 mm	2 Pc.	54 Pcs.



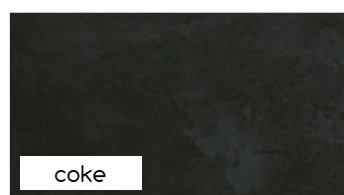
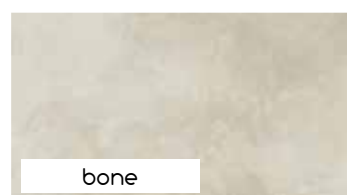
Ceramic tile Prism

Design	Part no.	Dimensions*	PU / Carton	Qty. / pallet
Prism cloud	7604	800x800x20 mm	1 Pc.	42 Pcs.
Prism suede	7605	800x800x20 mm	1 Pc.	42 Pcs.
Prism fog	7606	800x800x20 mm	1 Pc.	42 Pcs.



Ceramic tile Flux

Design	Part no.	Dimensions*	PU / Carton	Qty. / pallet
Flux bone	7607	600x600x20 mm	2 Pcs.	60 Pcs.
Flux concrete	7608	600x600x20 mm	2 Pcs.	60 Pcs.
Flux coke	7609	600x600x20 mm	2 Pcs.	60 Pcs.



Ceramic tile Blaze

Design	Part no.	Dimensions*	PU / Carton	Qty. / pallet
Blaze Corten	7603	600x600x20 mm	2 Pcs.	60 Pcs.



Suitable accessories
from page 130

*These dimensions refer to the nominal dimension, the exact dimensions may vary and are stated in the most recent price list.

Ceramic tile Crossing

Design	Part no.	Dimensions*	PU / Carton	Qty. / pallet
Crossing beige	7457	800x800x20 mm	1 Pc.	45 Pc.
Crossing grey	7458	800x800x20 mm	1 Pc.	45 Pc.
Crossing anthracite	7459	800x800x20 mm	1 Pc.	45 Pc.



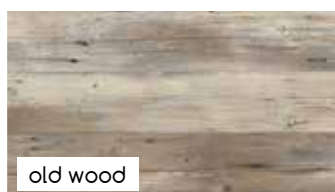
Ceramic tile Ardesia

Design	Part no.	Dimensions*	PU / Carton	Qty. / pallet
Ardesia beige	7353	600x600x20 mm	2 Pcs.	64 Pcs.
Ardesia beige	7354	450x900x20 mm	2 Pcs.	48 Pcs.
Ardesia grey	7351	600x600x20 mm	2 Pcs.	64 Pcs.
Ardesia grey	7352	450x900x20 mm	2 Pcs.	48 Pcs.
Ardesia anthracite	7349	600x600x20 mm	2 Pcs.	64 Pcs.
Ardesia anthracite	7350	450x900x20 mm	2 Pcs.	48 Pcs.



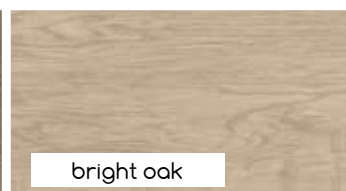
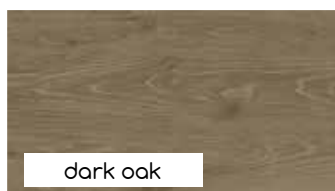
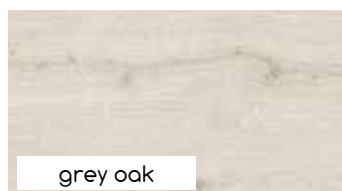
Ceramic tile Tavola

Design	Part no.	Dimensions*	PU / Carton	Qty. / pallet
Tavola quarzite	7421	450x900x20 mm	2 Pcs.	48 Pcs.
Tavola old wood	7359	450x900x20 mm	2 Pcs.	48 Pcs.
Tavola granit	7360	450x900x20 mm	2 Pcs.	48 Pcs.



Ceramic tile Woodtalk

Design	Part no.	Dimensions*	PU / Carton	Qty. / pallet
Woodtalk grey oak	7356	400x1200x20 mm	1 Pc.	48 Pcs.
Woodtalk dark oak	7358	400x1200x20 mm	1 Pc.	48 Pcs.
Woodtalk bright oak	7357	400x1200x20 mm	1 Pc.	48 Pcs.
Woodtalk white oak	7355	400x1200x20 mm	1 Pc.	48 Pcs.



*These dimensions refer to the nominal dimension, the exact dimensions may vary and are stated in the most recent price list.

 Suitable accessories
from page 130



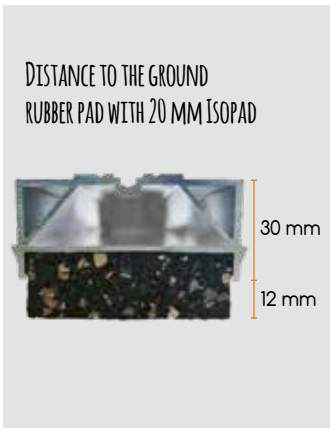
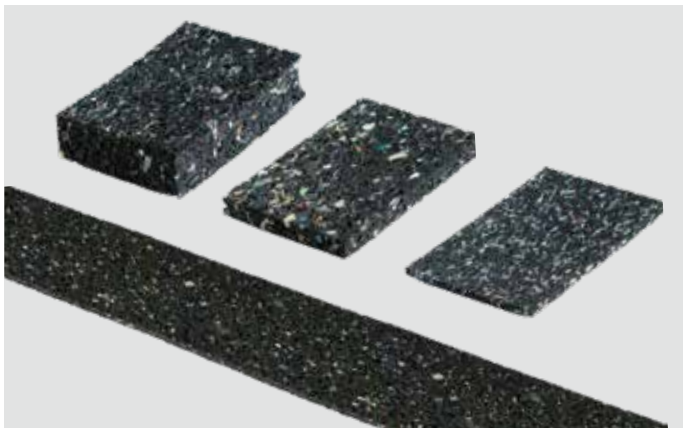


TERRACON® ACCESSORIES

Our range of accessories offers numerous possibilities to build a terrace according to your individual needs, even for various conditions. This sophisticated system also provides you with possible solutions for unusual construction situations without complicating the installation.

Our understanding of professional terrace construction? ONE system for ALL coverings: a simple and quick installation of patio slabs and/or planks is possible with only a few accessories on the same substructure system.





Isopad / Loftis

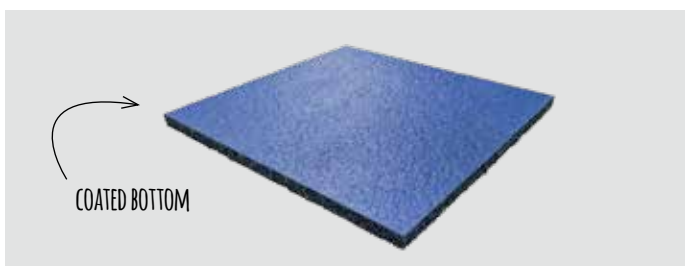
The special vapour-permeable rubber granulate pads ensure a long service life of the deck flooring. By selectively underlying the substructure, direct contact to the substrate is prevented, which allows water to run off unimpeded and also attenuates the impact sound of footsteps. Also perfectly suited to level out surface irregularities. With the Loftis roll, the rubber granulate is also available in a length of 2300 mm.

Product	Part no.	Dimensions	Qty. / PU	PU / box
Isopad 3 mm	6515	60x90x3 mm	60 Pcs.	16
Isopad 8 mm	6507	60x90x8 mm	24 Pcs.	16
	6520	60x90x8 mm	48 Pcs.	12
Isopad 20 mm	6514	60x90x20 mm	12 Pcs.	16
	6521	60x90x20 mm	30 Pcs.	8
Isopad for decking support feet	6610	192x192x8 mm	10 Pcs.	10
Loftis	6501	77x2300x8 mm	1 Roll	20



Advantages:

- ✓ Prevention of water logging
- ✓ Levels out minor surface irregularities
- ✓ Fits in the K&R CLIP system
- ✓ Wood protection towards the top, structural protection towards the bottom
- ✓ Dampens footstep sounds on the deck flooring
- ✓ Rot-proof materials
- ✓ Non-slip



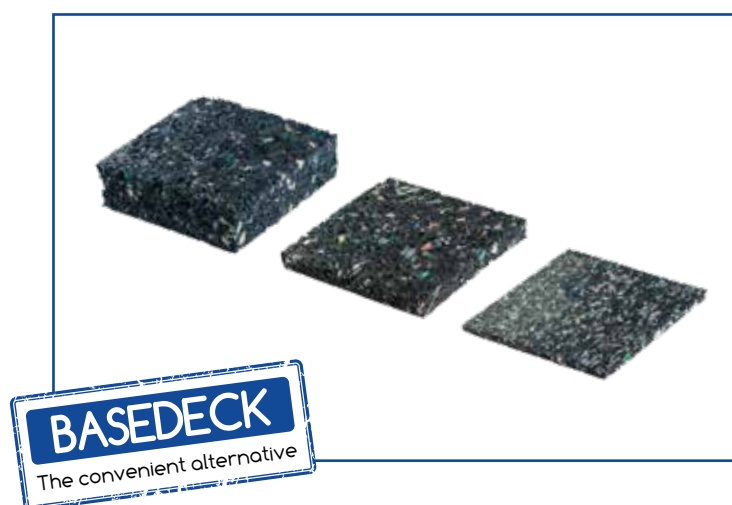
Isopad with coating

Durable and resistant protection against pressure or impact loads on high-quality seals such as roofing film or balcony waterproofing. The 3-layer composite film system is used as an integrated separation barrier for PVC seals to prevent incompatibility (plasticiser migration) of the materials. In addition, the Isopad is even more durable and tear-resistant.

Product	Part no.	Dimensions	Qty. / PU	PU / box
Isopad for decking support feet	7198	192x192x8 mm	10 Pcs.	10
Isopad 3 mm support feet	7199	60x90x3 mm	20 Pcs.	12

Advantages:

- ✓ Prevents plasticiser migration through multi-layer laminated foil (PVC-compatible)
- ✓ Protects high-quality floor seals against pressure and impact loads
- ✓ Very durable
- ✓ Will not rot
- ✓ Prevention of water logging



BASEDECK rubber pad

The water-permeable rubber pads protect the patio against moisture accumulation and can be used to compensate for small height differences.

Product	Part no.	Dimensions	Qty. / PU	PU / box
Gummipad 3 mm	7128	70x70x3 mm	40 Pcs.	32
Gummipad 8 mm	7129	70x70x8 mm	24 Pcs.	26
Gummipad 20 mm	7130	70x70x20 mm	12 Pcs.	24

Advantages:

- ✓ Protects the patio against moisture accumulation
- ✓ Water permeability
- ✓ For levelling of small height differences
- ✓ Rot-proof rubber granulate

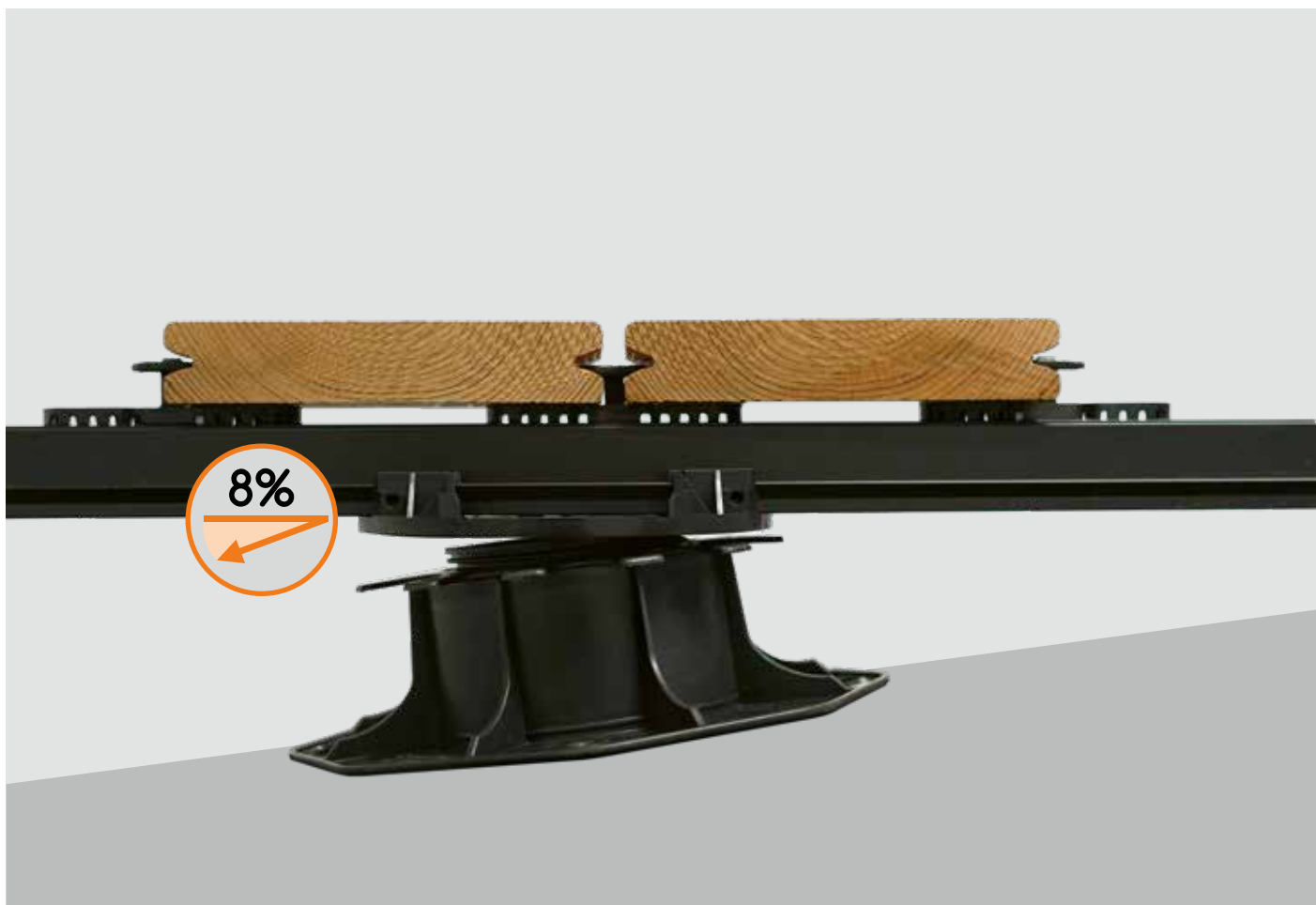


DECKING SUPPORT FEET

When building a deck, the construction of the substructure can be very time consuming, especially if the suitable installation surfaces (e.g. concrete slabs) must be adjusted for the decking support pads. This problem has been solved by the new generation of decking support pads whose movable head permit these areas to slope up to 8%.

The CLIP decking support feet, in combination with the CLIP rails, ensure a quick assembly of the substructure.

All our terrace bearings incl. adapter are manufactured in Germany under constant quality control.



Advantages:

- ✓ The patented head piece, which is moveable in all directions, can compensate for substrate slopes of up to 8%
- ✓ The double thread allows for millimetre-accurate height adjustments by continuously turning to the right or left
- ✓ In the CLIP system, the substructure can be mounted virtually without screws by simply snapping it on
- ✓ On the levelling feet, all components are connected to each other and locked to prevent unintended unscrewing
- ✓ All decking support feet are produced in Germany
- ✓ This decking support bearings have been tried and tested in practice for years. This is a high-quality product line for professional, safe and time-saving deck construction
- ✓ Only four support pads cover an adjustment range of 25 to 225 mm





Decking support feet standard

With the standard top, the decking support pads offer a support surface for any substructure profile. Screwing on the substructure on the lateral stud ensures a firm hold, while the double thread allows the entire structure to be comfortably adjusted in height.

Product	Part no.	Height adjustment	Qty. / PU	PU / Box
Decking support feet standard	7206	25 - 40 mm	1 Pc.	54
	7242	35 - 70 mm	1 Pc.	42
	7243	65 - 155 mm	1 Pc.	32
	7244	145 - 225 mm	1 Pc.	24

Carrying capacity*:

Product	Part no.	Newton / Support feet	kg / Support feet
Decking support feet standard	7206	7.982	814
	7242	8.149	831
	7243	8.228	839
	7244	11.718	1.195

*The specified values correspond to the maximum load capacity. With higher loads, the left/right thread may slip into underlying threads.

CLIP decking support feet

With the special CLIP top, all Isostep CLIP rails can be connected quickly and without screws by simply clicking on the decking support pads. In this combination, the CLIP components make the assembly of the entire substructure even easier and faster.

Product	Part no.	Height adjustment	Qty. / PU	PU / Box
CLIP decking support feet	7207	25 - 40 mm	1 Pc.	54
	7245	35 - 70 mm	1 Pc.	42
	7246	65 - 155 mm	1 Pc.	32
	7247	145 - 225 mm	1 Pc.	24

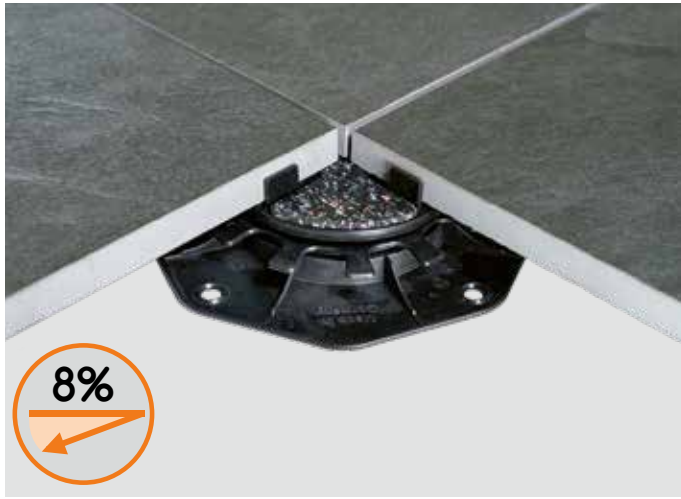
Carrying capacity*:

Product	Part no.	Newton / Support feet	kg / Support feet
CLIP decking support feet	7207	7.982	814
	7245	8.149	831
	7246	8.228	839
	7247	11.718	1.195

*The specified values correspond to the maximum load capacity. With higher loads, the left/right thread may slip into underlying threads.

Advantages:

- ✓ Quick substructure configuration through connection with Isostep CLIP rails
- ✓ Installation almost completely without screws



Decking support feet with tile spacer

The decking support feet with the special tile spacer top are perfectly suited for levelling when laying flagstones. The joint width is 3 mm, and surface irregularities are easily levelled thanks to the flexible head, as with any of the decking support feet.

Product	Part no.	Height adjustment	Qty. / PU	PU / Box
Decking support feet with tile spacer	7208	25 - 40 mm	1 Pc.	54
	7248	35 - 70 mm	1 Pc.	42
	7249	65 - 155 mm	1 Pc.	32
	7250	145 - 225 mm	1 Pc.	24

Carrying capacity*:

Product	Part no.	Newton / Support feet	kg / Support feet
Decking support feet with tile spacer	7208	7.982	814
	7248	8.149	831
	7249	8.228	839
	7250	11.718	1.195

*The specified values correspond to the maximum load capacity. With higher loads, the left/right thread may slip into underlying threads.



Isopad for decking support feet with tile spacer, M-Fix and P-Fix

This support pad made from rubber granulate is tailored to three products. Due to its quality, it is a perfect and indispensable add-on product when laying patio tiles.

Product	Part no.	Dimensions	Qty. / PU	PU / Box
Isopad for: -Decking support feet with tile spacer - M-Fix / M-Fix-H - P-Fix	7197	110x3 mm	15 St.	36

Advantages:

- ✓ Stone tiles will not slide
- ✓ Sound insulation
- ✓ Height compensation
- ✓ Splittable
- ✓ Flexible use with three products



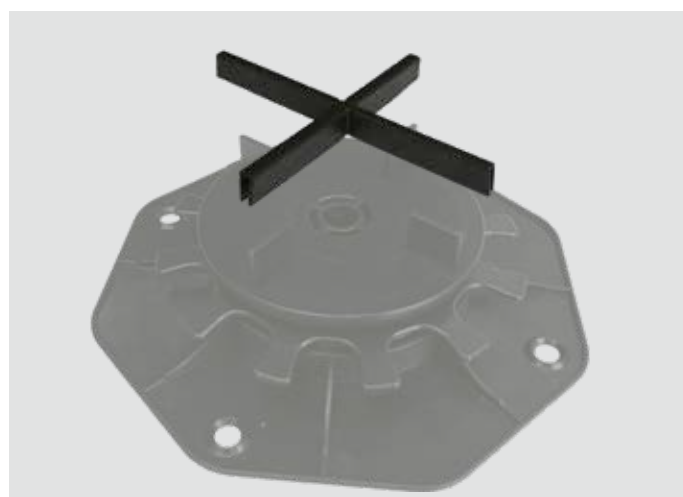


Edge-Fix

The three-part Edge-Fix prevents slippage of the panels in the edge area when laying patio tiles on the decking support feet with tile spacer.

In addition, it stabilises the decking support feet in the edge area by fixing the flexible head.

Product	Part no.	Qty. / PU	PU / Box
Edge-Fix for decking support feet with tile spacer (including support plate, stabilising panel and pad)	7390	15 Pcs.	1
Edge-Fix for decking support feet with tile spacer (including support plate, stabilising panel and pad) 5 pieces = 1 PU)	7006	5 Pcs.	16
Stabilising panel for decking support feet	7417	15 Pcs.	8



Tile spacer adapter

The tile spacer adapter is suitable for increasing the bridge width for decking support pads with tile spacer and/or M-Fix from 3 mm to 5 mm. Exclusively intended for the installation of concrete slabs from 40 mm thickness in accordance with DIN 18333.

Product	Part no.	Qty. / PU	PU / Box
Tile spacer adapter for: -Decking support feet with tile spacer - M-Fix / M-Fix-H	7209	60 Pcs.	10



Height adapters for decking support feet

The adapter can be bolted to any standard, CLIP and tile spacer decking support pad, giving the levelling feet an additional adjustment height of 80 mm. It is possible to mount more than one adapter at the same time. When doing so, make sure that sufficient cross bracing is ensured. This can be achieved, for example, by fixing the construction to adjoining buildings or walls.

Product	Part no.	Height	Qty. / PU	PU / Box
Height adapters for decking support feet*	6955	80 mm	1 Pc.	30

*Suitable for all TERRACON® decking support feet, except for BASEDECK und Flex / Flex-CLIP decking support feet.



Flex / Flex-CLIP decking support feet for use in spiked post holders

Flex decking support pads feature a special receptacle for ground sleeves 91 x 91 mm. The height and the horizontal deviations can be compensated for thanks to the flexible head and moveable turntable.

Height adjustability: 42 - 87 mm

Horizontal adjustability:

20 mm off centre to the right or left

Maximum angle of inclination:

5% to each side (corresponds to about 8 cm to 1 metre)



Product	Part no.	Qty. / PU	PU / Box
Flex decking support feet	6957	1 Pc.	24
Flex-CLIP decking support feet	6967	1 Pc.	24

Carrying capacity*:

Product	Part no.	Newton / Support feet	kg / Support feet
Flex / Flex-CLIP decking support feet	6957 / 6967	5.935	605

*The specified values correspond to the maximum load capacity. With higher loads, the left/right thread may slip into underlying threads.

Advantages:

- ✓ Precise fit for standard ground socket 91 x 91 mm
- ✓ Not required to precisely prepare the substrate
- ✓ Horizontally adjustable

We recommend: After the drive-in sleeves have been pounded into the ground, the distance between their head and the ground level should be 4 cm. If the ground is too soft, the hole for the drive-in sleeve will need to be pre-drilled with an auger and filled with concrete before the embedding. This guarantees a more stable base.





Decking support feet BASE

With the top, the decking support pads offer a support surface for any substructure profile. They are screwed on the lateral stud.

Product	Part no.	Height adjustment	Qty. / PU	PU / Box
Decking support feet BASE	7122	40 - 70 mm	1 Pc.	48
	7123	70 - 130 mm	1 Pc.	36
	7124	130 - 250 mm	1 Pc.	24

Advantages:

- ✓ Easy height adjustment from 40 - 250 mm
- ✓ Adjustable with rotating ring



40-70 mm

70-130 mm

130-250 mm



Decking support feet BASE with tile spacer

The decking support pads with tile spacer top are perfectly suited for levelling when laying flagstones. The joint width is 3 mm.

Product	Part no.	Height adjustment	Qty. / PU	PU / Box
Decking support feet BASE with tile spacer	7190	40 - 70 mm	1 Pc.	60
	7191	70 - 130 mm	1 Pc.	40
	7192	130 - 250 mm	1 Pc.	24

Advantages:

- ✓ Easy height adjustment from 40 - 250 mm
- ✓ Adjustable with rotating ring



40-70 mm

70-130 mm

130-250 mm



P-Fix

For easy laying of ceramic tiles on a firm level substrate such as asphalt or a paved surface.

The P-Fix is stackable for levelling minor unevenness and separable for laying in the area next to the house wall. The P-Fix can be used to solve many installation situations on a flat surface with a solid substrate.

Product	Part no.	Height	Qty. / PU	PU / Box
P-Fix	7368	10 mm	15 Pcs.	9



Advantages:

- ✓ Easy laying of patio tiles
- ✓ Stackable and divisible for any installation situation
- ✓ Joint width 3 mm, installation height 10 mm



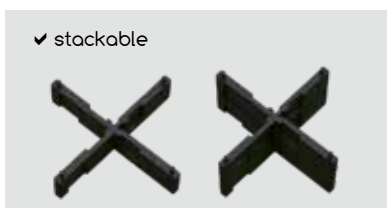
Tile spacer

The tile spacer is a classic aid to evenly lay patio tiles in mortar or chipped gravel beds. Due to the stackable function of the tile spacer, almost any tile thickness can be laid.

Product	Part no.	Height	Qty. / PU	PU / Box
Tile spacer	7369	10 mm	100 Pcs.	10

Advantages:

- ✓ Even assembly pattern
- ✓ Stackable
- ✓ Joint width 3 mm





ALUMINIUM SUBSTRUCTURE

An aluminium substructure is now a recognized technical standard when constructing a patio. In addition to its higher load capacity, aluminium offers many advantages compared to timber, such as waste-optimised and faster installation through fewer support points, as well as dimensional stability and longer durability of the rails.

The CLIP rails (BIG- and TWIXT-Isostep as well as H-Isostep), in combination with the decking support feet CLIP, allow for quick, uncomplicated and almost screw-free assembly with a simple click. The SMART-Isostep rail, which is only 23 mm high, is the ideal solution if only very low construction heights are possible.

Decking boards and/or ceramic tiles can be laid on these rails using the appropriate accessories, according to our claim: ONE system for ALL coverings.



Aluminium substructure with MEGA-Isostep



Advantages:

- ✓ Suitable for all patio coverings
- ✓ Screw-free and therefore fast assembly possible using the CLIP system
- ✓ High durability due to rot-proof materials
- ✓ Dimensionally stable
- ✓ Powder-coated surface in black RAL 9005
- ✓ Resistant to tannic acid



MEGA-Isostep



Distance between two bearing points: up to 3000 mm

BIG-Isostep



Distance between two bearing points: up to 1100 mm*

TWIXT-Isostep



Distance between two bearing points: up to 800 mm*

H-Isostep



Distance between two bearing points: up to 750 mm*

CLIP rails

The Isostep CLIP rails made from powder-coated aluminium ensure a durable, stable and professional construction of the deck. Thanks to the very large span of the rails, fewer pedestal centres are required when preparing the substrate. To make the construction of the entire substructure as easy and quick as possible, all rails are equipped with lateral latches to easily snap on the units to the decking support pad CLIP. In addition, the rails feature a special receptacle for underlying with TERRACON® Isopads 60 x 90 mm.

Product	Part no.	Dimensions	Qty. / PU	PU / pallet
MEGA-Isostep	9103	64x95x4000 mm (68 mm incl. lateral latches)	1 Pc.	64
BIG-Isostep	9101	64x45x4000 mm (68 mm incl. lateral latches)	1 Pc.	64
TWIXT-Isostep	9102	64x30x1900 mm (68 mm incl. lateral latches)	1 Pc.	64
	9100	64x30x4000 mm (68 mm incl. lateral latches)	1 Pc.	64
H-Isostep	7125	64x40,5x3000 mm (68 mm incl. lateral latches)	1 Pc.	64

Advantages:

- ✓ Fewer bearing points of the substructure required due to the large span
- ✓ Screw channel for an up to 30% faster installation compared to conventional aluminium rails
- ✓ Endless and waste-optimised extension with mating connectors
- ✓ Special receptacle for Isopads
- ✓ CLIP system: simple snap-on system instead of laborious bolting

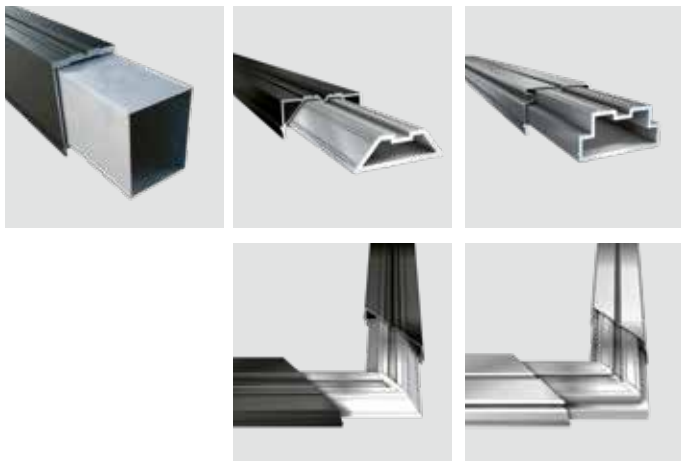
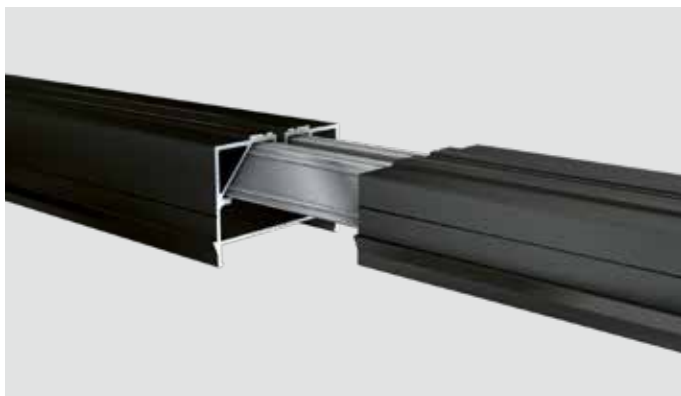
*These data apply to a construction with a surface load of 400 kg/m² and a UK spacing of 400 mm in-between the profiles. If the loading is less or the distances between the profiles are smaller (e.g. in private sector), the distance between two contact points can be chosen larger eventually. The exact specifications can be found in the data sheets at karle-rubner.de/datenblaetter.



Information on surface load
on pages 200-203

CLICK HERE TO FIND
DATA SHEETS





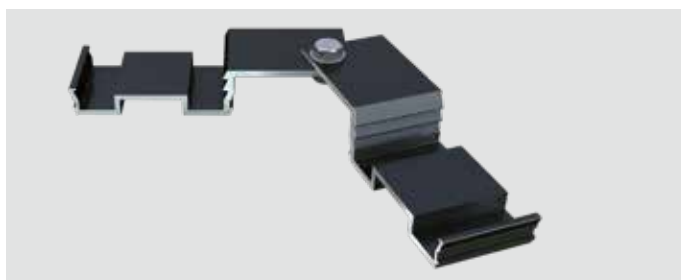
Connector / corner connector for Isostep CLIP rails

The right connector for every Isostep CLIP rail. By simply plugging into the rail, the substructure can be extended waste-optimised without compromising the load capacity. The corner connectors are ideally suited for a substructure frame in case it is not possible to fix the substructure to the ground on site.

Product	Part no.	Dimensions	Qty. / PU	PU / pallet
Connector MEGA-Isostep	9107	74,5x58,5x500 mm	4 Pcs.	8
Connector BIG-/TWIXT-Isostep	6961	18x59x196 mm	4 Pcs.	8
Connector H-Isostep	7204	Length: 196 mm	4 Pcs.	8
Corner connector BIG-/TWIXT-Isostep	6966	18x59 mm, limb length: 180 mm	2 Pcs.	4
Corner connector H-Isostep	6989	29x60 mm, limb length: 180 mm	2 Pcs.	4

Advantages:

- ✓ Waste-optimised assembly of the substructure
- ✓ Preservation of the complete rails statics
- ✓ Quick and easy installation of a frame construction



Variable corner joint for Isostep CLIP Rails

The variable corner connector is a problem-solver for all angles outside 90° that must be formed with Isostep Clip rails (BIG / TWIXT / Isostep H). With the help of the corner connector, any angle (obtuse to acute) can be created professionally and quickly.

Product	Part no.	Dimensions	Qty. / PU	PU / pallet
Variable Corner joint for BIG-, TWIXT- and H-Isostep	7419		set	8

Advantages:

- ✓ Corner solution for angles outside 90°
- ✓ Universally applicable for all Isostep Clip rails
- ✓ Convenient clip mounting on the underside of the clip rails



DA connector for the construction of a diagonal bracing

The DA connector is used to brace the substructure if no decking support feet can be used (e.g. with low installation height). Suitable for laying decking boards and tiles on Isostep-CLIP rails.

Product	Part no.	Dimensions	Qty. / PU	PU / pallet
DA connector	9081	Ø 110 x 5 mm	1 Pc.	20

Advantages:

- ✓ simple cross bracing of the CLIP rails
- ✓ made of recycled materials



DA adapter

The DA adapter is used to support the substructure in the edge area. It has been specially developed for the installation of tiles on Isostep-CLIP rails with low installation height. The DA adapter stabilises the outer rows of tiles.

Product	Part no.	Dimensions	Qty. / PU	PU / pallet
DA adapter	9825		2 Pcs.	8

Advantages:

- ✓ for the lateral bracing of the construction in the edge area (for tile application)
- ✓ for low installation heights without decking support feet
- ✓ compatible with TWIXT-, BIG- and MEGA-Isostep
- ✓ easy and fast assembly

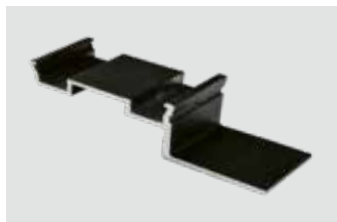




Wind load carrier / Wind load carrier low

The ability of the wind load carrier to accept concrete paving slabs allows regulation-compliant construction of timber-boarded decks with high wind suction loads. Thanks to the wind load carrier deep, a concrete paving slab can now be used for weighing down a TWIXT-Iso-step substructure. This will prevent the deck from 'lifting' (see more on pages 18–19).

Product	Part no.	Dimensions	Qty. / PU	PU / pallet
Wind load carrier	7517	116x40x14 mm	4 Pcs.	8
Wind load carrier low	7618	116x40x36 mm	4 Pcs.	8



Advantages:

- ✓ Carrier for concrete slabs, for example for weighting the entire construction (constructions with decking boards)
- ✓ quick and easy assembly by clicking under the system rail
- ✓ compatible with all our CLIP rails



Wind load protection
on pages 18-19



YouTube

NEW!



KL cross connector

The torsion-resistant KL cross connector makes possible the rapid and precise installation of the substructure in compliance with technical standards! It fastens the load-bearing CLIP rails directly to the counter batten (TWIXT-Isostep) by means of a simple click action and simplifies the work steps during the assembly and alignment of the substructure by more than 30% compared to a conventional counter batten assembly.

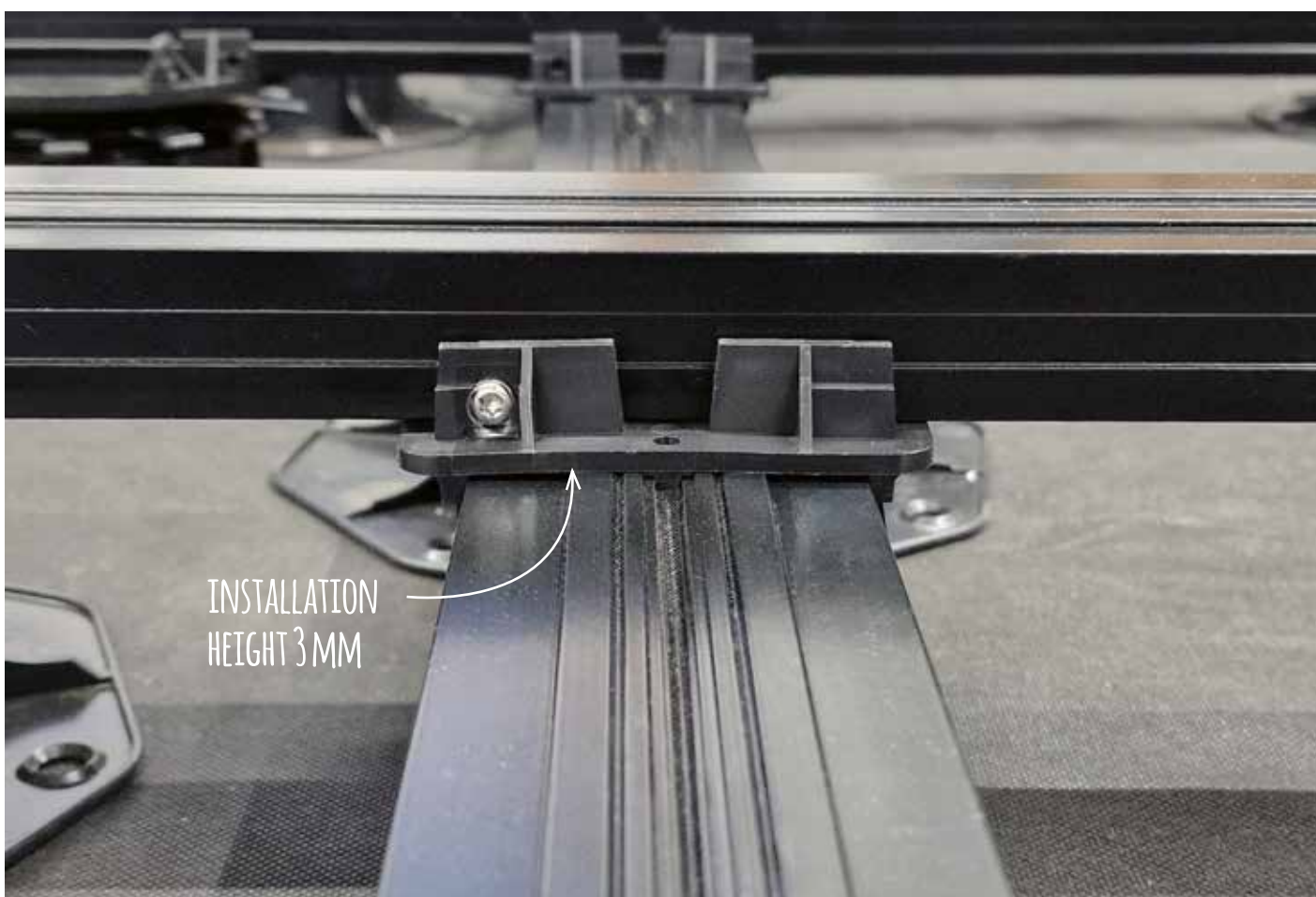
Product	Part no.	Dimensions	Qty. / PU	PU / pallet
KL cross connector	9096	92x86x50x3mm	24 Pcs.	6

Advantages:

- ✓ Rapid and convenient setting out and installation simply by clicking on to the substructure
- ✓ Over 30% time saving compared to the conventional installation with counter battens
- ✓ Create a compliant substructure in just a few steps
- ✓ Suitable for all CLIP rails and the QCLICK system



For compliant construction of substructure see page 17



INSTALLATION
HEIGHT 3 MM

Over 30% quicker installation of the substructure with the cross connector



click the KL cross connector on to the aligned counter battens



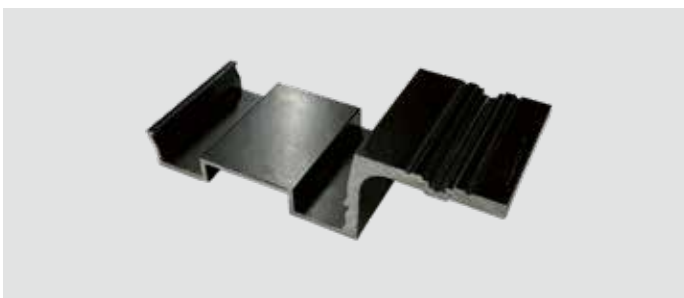
click the aluminium substructure on to the KL cross connector



simply slide the fixed aluminium substructure into the exact position

ASSEMBLY VIDEO

NEW!



TWIXT / QCLICK Flex support BIG flex support

Structural timber protection and compliant with regulations. With the flex support, the decking board joints can be installed with just one substructure profile. Thanks to the CLIP fitting, this can be done anywhere across the surface. The installation of the decking boards can be optimised for cutting, allowing the creation of new and creative decking designs.

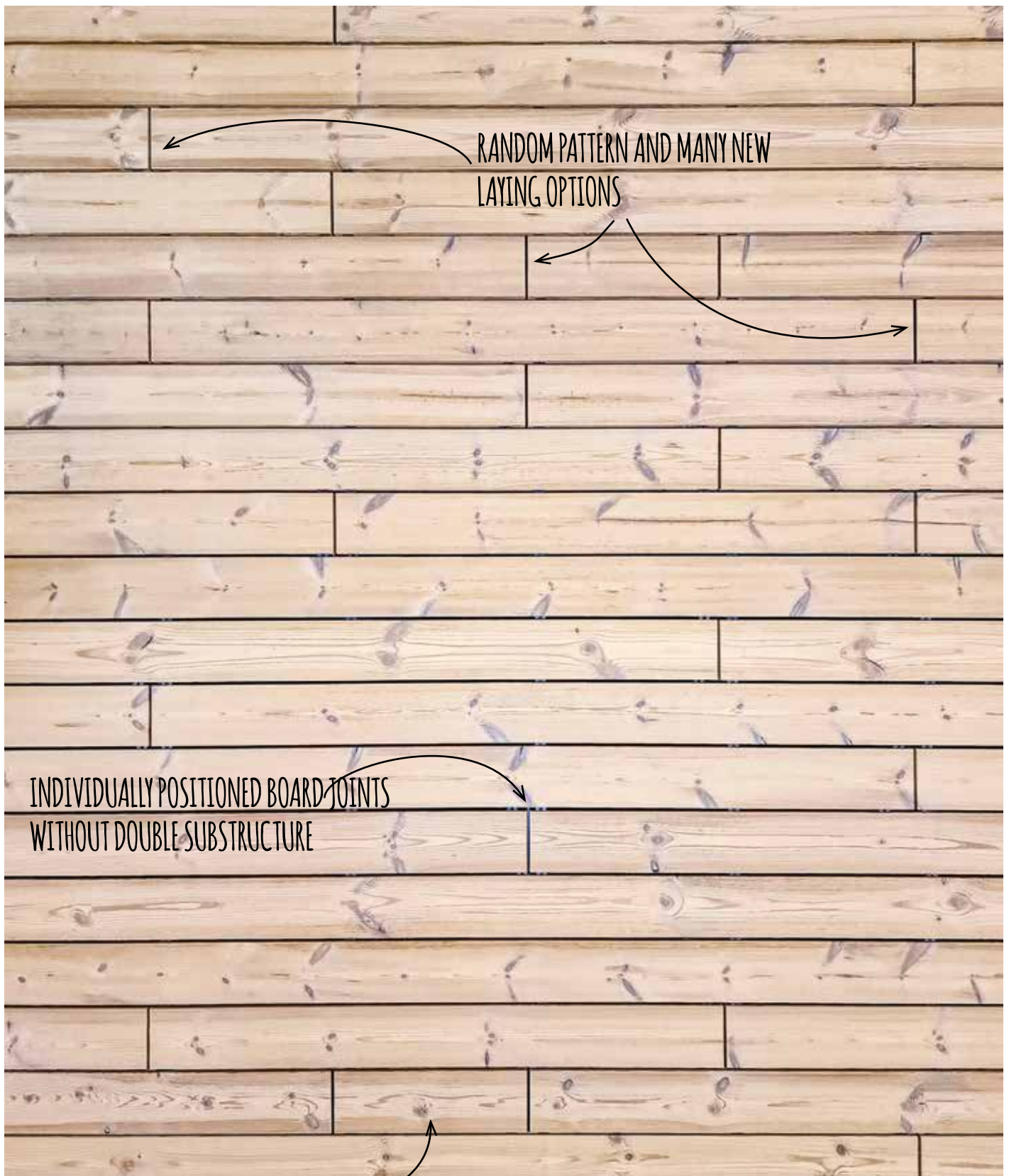
Product	Part no.	Dimensions	Qty. / PU	PU / pallet
TWIXT / QCLICK Flex support	7625	112x45x32 mm	4 Pcs.	8
Flex support BIG	7647	112x47x45 mm	4 Pcs.	8

Advantages:

- ✓ Board joints with only one substructure profile
- ✓ Waste-optimised laying of decking boards
- ✓ Structural timber protection
- ✓ Standard-compliant installation
- ✓ For BIG- and TWIXT-Isostep and QCLICK aluminium substructure
- ✓ Suitable for all fasteners and the QCLICK system



The Flex support enables new designs in board laying



RANDOM PATTERN AND MANY NEW
LAYING OPTIONS

INDIVIDUALLY POSITIONED BOARD JOINTS
WITHOUT DOUBLE SUBSTRUCTURE

WASTE-OPTIMISED
LAYING OF DECKING BOARDS



Suitable for all fasteners
Board laying from page 140



SMART-Isostep

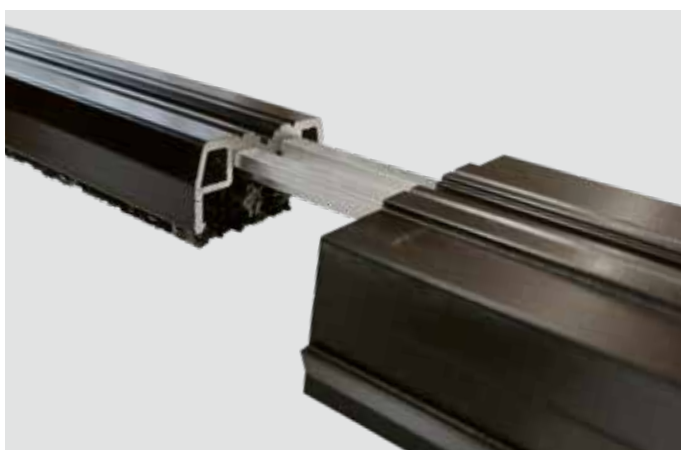
With a total height of just 23 mm, the SMART-Isostep substructure profile is the solution for flat superstructural parts. Thanks to its low height, the rail is perfectly suited for use on level surfaces such as concrete floors, paving, and tiles and can be used wherever a low structure is required due to the installation situation (e.g. balcony).

SMART-Isostep is a powder-coated aluminium substructure with an integrated rubber granulate insert.

Product	Part no.	Dimensions	Qty. / PU	PU / pallet
SMART-Isostep	9104	40x23x1800 mm	1 Pc.	10
SMART-Isostep	9105	40x23x3600 mm	1 Pc.	50 (pallet)

Advantages:

- ✓ Low installation height increase of only 23 mm
- ✓ Continuously extendible
- ✓ Suitable for all patio coverings
- ✓ Sound insulation
- ✓ Non-slip



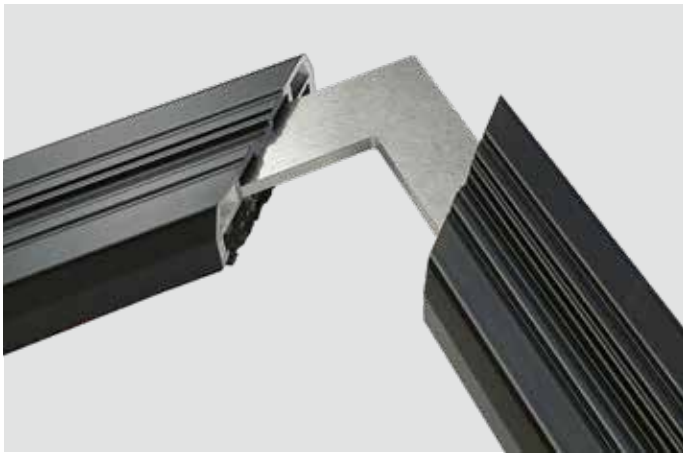
Connector SMART-Isostep

Serves as a longitudinal connector for use at low installation heights between two SMART-Isostep rails. Can also be used for large height differences as a combi-connector from SMART-Isostep to BIG-/TWIXT-Isostep. The joint area must be underlaid.

Product	Part no.	Dimensions	Qty. / PU	PU / pallet
Connector SMART-Isostep	7009	19,5x5,9x196 mm	4 Pcs.	8

Advantages:

- ✓ longitudinal and combi-connector at once
- ✓ ONE product for the connection between SMART-Isostep and all other system rails of the range
- ✓ easy installation



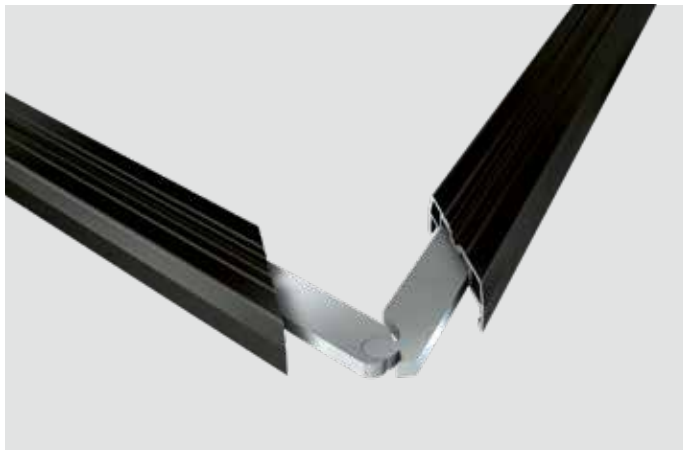
Corner joint for SMART-Isostep

The 90° corner connector facilitates the creation of a frame construction for Isostep.

Product	Part no.	Dimensions	Qty. / PU	PU / pallet
Corner joint for SMART-Isostep incl. screws	7422	limb length: 80 mm	4 Pcs.	4

Advantages:

- ✓ Corner solution for angles of 90°



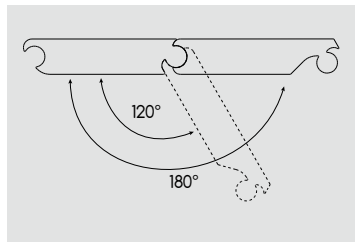
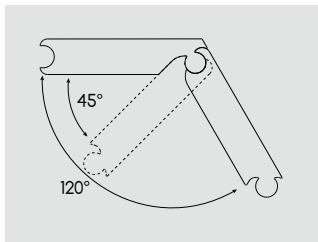
Variable Corner joint for SMART-Isostep rails

The specially developed corner connector for Isostep can easily form corners with angles ranging from 45° - 180°. The variable adjustability allows the Isostep substructure to be adapted individually to suit the local conditions.

Product	Part no.	Dimensions	Qty. / PU	PU / pallet
Variable corner joint for SMART-Isostep	7418	limb length: 95 mm	set	8

Advantages:

- ✓ Corner solution for angles from 45° - 180°
- ✓ No impairment when laying the patio covering





BASE-Isostep

The Isostep base is an aluminium substructure in alublack with proven lower clamping receptacle for Isopads.

Product	Part no.	Dimensions	Qty. / PU	PU / pallet
BASE-Isostep uncoated	6508	64,5x35x4000 mm	1 Pc.	80

Advantages:

- ✓ Special receptacle for Isopads
- ✓ 3 mm wall thickness in the screw area
- ✓ Endless and waste-optimised extension with mating connectors



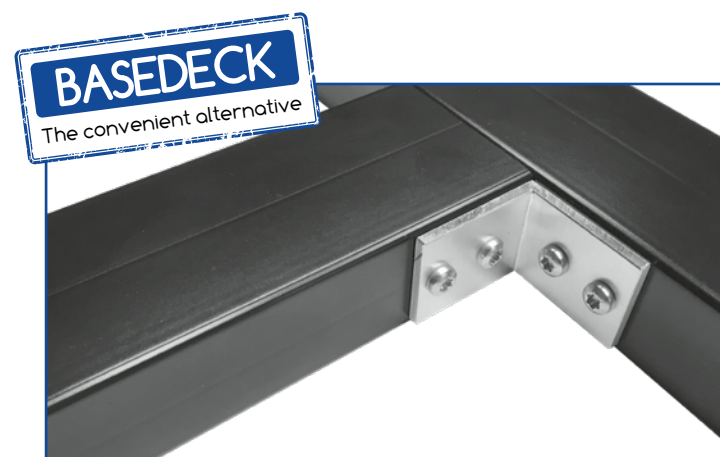
50x30 Alu-UK

A simple aluminium rail as a permanent solution for the substructure of the deck. The 50 x 30 mm profile is available un-coated and coated in black powder.

Product	Part no.	Dimensions	Qty. / PU	PU / pallet
50x30 Aluminium substructure uncoated	7170	50x30x3000 mm	1 Pc.	150
50x30 Aluminium substructure RAL 9005	7171	50x30x3000 mm	1 Pc.	150

Advantages:

- ✓ Durable material for the substructure
- ✓ Endless and waste-optimised extension with mating connector



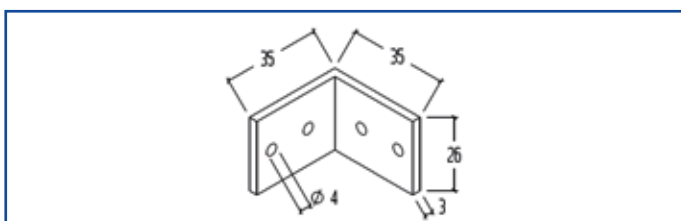
DA angle

Aluminium bracket for diagonal bracing of 50x30 aluminium substructure and BASE-Isostep.

Product	Part no.	Dimensions	Qty. / PU	PU / pallet
DA angle	7393	26x3 mm limb length: 35 mm	30 Pcs.	8

Advantages:

- ✓ The easy way to fasten a diagonal bracing





Connector / corner connector

Matching connectors for the BASE-Isostep and 50 x 30 mm aluminium substructure. By plugging into the substructure, the rails can be extended waste-optimised without compromising the load capacity. The corner connectors are suitable for a substructure frame.

Product	Part no.	Dimensions	Qty. / PU	PU / pallet
Connector BASE-Isostep	7173	Length: 196 mm	4 Pcs.	8
Corner connector BASE-Isostep	7391	Limb length: 180 mm	2 Pcs.	4
Connector 50x30 Alu-UK	7172	Length: 196 mm	4 Pcs.	5
Corner connector 50x30 Alu-UK	7392	Limb length: 180 mm	2 Pcs.	4

Advantages:

- ✓ Waste-optimised assembly of the substructure
- ✓ No additional underlay in the longitudinal joint of the rail





VARIO SYSTEM

PATIO CONSTRUCTION ON A NEW LEVEL

Thanks to its versatility, the VARIO system offers a wide range of possibilities for constructing patio structures. Whether steps, platforms, planter boxes, benches or an additional level on the terrace - all this can be easily implemented with the VARIO system.

The special feature of the VARIO system - almost all constructions can be realised with only two components!

The construction profile, which is equipped with a screw channel on 4 sides, combines all the advantages of our system rails. This way, the fastening systems for decking boards or tiles, for example, can be mounted on VARIO constructions. The high static of up to 900 mm between the support points makes the construction particularly stable.



Advantages:

- ✓ two components for many possibilities
- ✓ compatible with all of our system rails with screw channel and the decking support feet CLIP
- ✓ high static with up to 900 mm distance between two bearing points
- ✓ fastening of decking boards and patio tiles with our proven TERRACON® accessories
- ✓ no obstructive brackets: the entire profile surface can be used for mounting
- ✓ screw channel provides the construction profile with all the advantages of our system rails

CREATIVE PATIO DESIGN - made easy with the VARIO system!

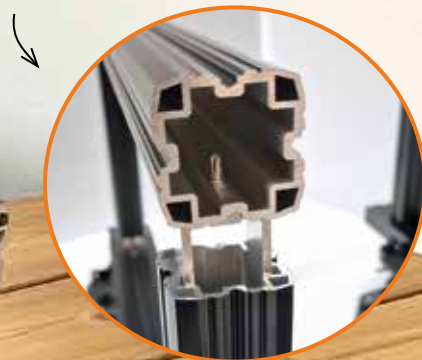
ONLY TWO COMPONENTS -
FOR MANY POSSIBILITIES!



1

2

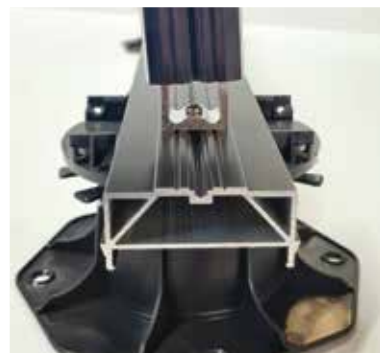
NO OBSTRUCTIVE BRACKETS:
THE ENTIRE PROFILE SURFACE
CAN BE USED FOR MOUNTING



3

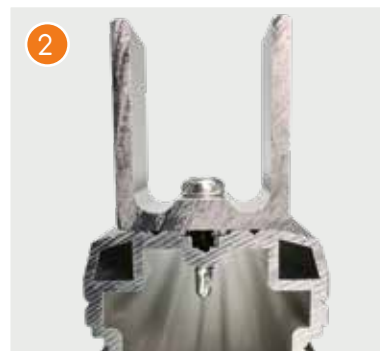
ALL IN ONE SYSTEM!

1



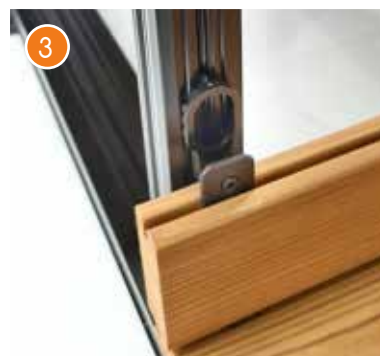
Compatibel with all of our
system rails with screw channel
and decking support feet CLIP

2



Precise fit of the adapter in
the guide groove of the rail

3



Fastening of decking boards and
tiles with our common accessories

Decking board brushed thermo pine



Low and high planters clad in brushed thermo pine



Planters and bench made from VARIO construction



Steps constructed using the VARIO system



VARIO construction profile

The sophisticated VARIO profile is perfect for individual constructions when it comes to building decks. Equipped with a screw channel on all four sides, there is always a possibility to connect the profiles, which allows an easy and stable installation. With a span of 900 mm between two support points, the profile provides the best requirements for a professional and robust construction. The profile is compatible with our fastening systems for decking boards or tiles.

Product	Part no.	Dimensions	Qty. / PU	PU / Box
VARIO construction profile	7510	40x40x1900 mm	1	10
	7520	40x40x4000 mm	1	50

Advantages:

- ✓ high static for stable constructions
- ✓ the profiles sides are all identical and equipped with a screw channel, which simplifies assembly
- ✓ ideal base for our fastening systems for decking boards and patio tiles



VARIO connector

With the connector, the construction profiles can be laid endlessly. The rail retains its full structural integrity even in the joint area and therefore there is no additional underlay required.

Product	Part no.	Dimensions	Qty. / PU	PU / Box
VARIO connector	7511	27,8x27,8x196 mm	4	8



Advantages:

- ✓ waste-optimised assembly
- ✓ remains its full structural integrity
- ✓ easy mounting, as the connector can be fixed from any side of the profile



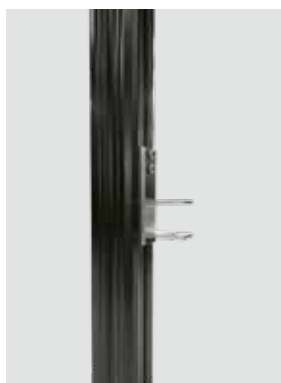
VARIO adapter

The adapter enables a simple and flexible connection to and with the construction profile. The special groove guide of the adapter on the profile prevents it from twisting during the fastening. In addition, the VARIO construction can be connected directly to any of our aluminium substructures with screw channel using the adapter.

Product	Part no.	Dimensions	Qty. / PU	PU / Box
VARIO adapter	7512	27,8x19,5x33 mm	10	4
	7513	27,8x19,5x33 mm	50	4

Advantages:

- ✓ easy screw connection with the construction profile
- ✓ compatible with the VARIO construction profile and all our system rails



VARIO intermediate adapter

The VARIO intermediate adapter enables a VARIO construction to be attached to an existing substructure. Subsequent installation of a construction profile to an existing VARIO system is also possible with the intermediate adapter.

Product	Part no.	Dimensions	Qty. / PU	PU / Box
VARIO intermediate adapter	7597	72,5x19,5x33,7 mm	10	4

Advantages:

- ✓ suited for retrofitting on VARIO construction profiles and all system rails
- ✓ simple screw connection to the construction profile



VARIO variable corner connector

The variable corner connector offers a solution for assemblies where the construction has to be adjusted for all angles outside 90°. The joint of the two-part connector is smoothly adjustable and secured with an M8 bolt with nut.

Product	Part no.	Dimensions	Qty. / PU	PU / Box
VARIO variable corner connector incl. cylinder head screw and hexagon nut M8	7515		1	8

Advantages:

- ✓ solution for corner constructions outside of 90°
- ✓ full use of the profile surface, as the connector is intended to be inserted into the profile





VARIO extension for support feet

The extension enables the connection of a VARIO construction with our decking support feet CLIP for an easy compensation of height differences and slopes up to 8 %. Due to its design, the VARIO construction profile can be effortlessly screwed to the provided lateral web to obtain a firm connection between the construction and the patio bearing.

Product	Part no.	Dimensions	Qty. / PU	PU / Box
VARIO extension for support feet	7514	64x30x124 mm	1	24



Advantages:

- ✓ precisely fitting adapter for the VARIO construction profile
- ✓ easy attachment to the decking support feet CLIP by simply snapping it on
- ✓ therefore all advantages of the support feet can be used for the construction process (see page 90 onwards)



VARIO adjustment feet

The adjustable base is developed as a solving tool in the edge area. It is mainly used in situations where the VARIO construction cannot be installed on a system rail or where the decking support CLIP cannot be used due to a lateral protruding part. The height compensation of 17 to 30 mm is steplessly adjustable by using the setscrews. After pre-drilling, the adjustment feet are inserted through the construction profile and secured with the hexagon nuts.

Product	Part no.	Dimensions	Qty. / PU	PU / Box
VARIO adjustment feet incl. hexagon nuts M8 and washers	7516	M8x80 mm base diameter 45 mm	1	16



Advantages:

- ✓ millimetre-precise levelling of 17-30 mm
- ✓ an ideal pedestal for the edge area of constructions

INSTALLATION OF CERAMIC PATIO TILES

The laying of ceramic patio tiles on an aluminium sub-structure offers many advantages over traditional sub-structures such as decking support pads or a mortar or crushed gravel bed. The weight is significantly less than with a comparable substructure with crushed stone. The system offers optimal solutions for difficult construction situations such as balconies with low construction heights, patios on a gradient and roof terraces.

Installation is time-saving and temperature independent. The laying pattern is permanently even without tripping hazards, settling of individual tiles is not possible, and, thanks to the floating installation, they can be replaced easily at any time. As the panels are fixed laterally and thus cannot slip, the joints are permanently dimensionally accurate over the entire surface.

The system is rounded off by a simple and quick side facing that can even compensate for gradients.

ASSEMBLY VIDEO





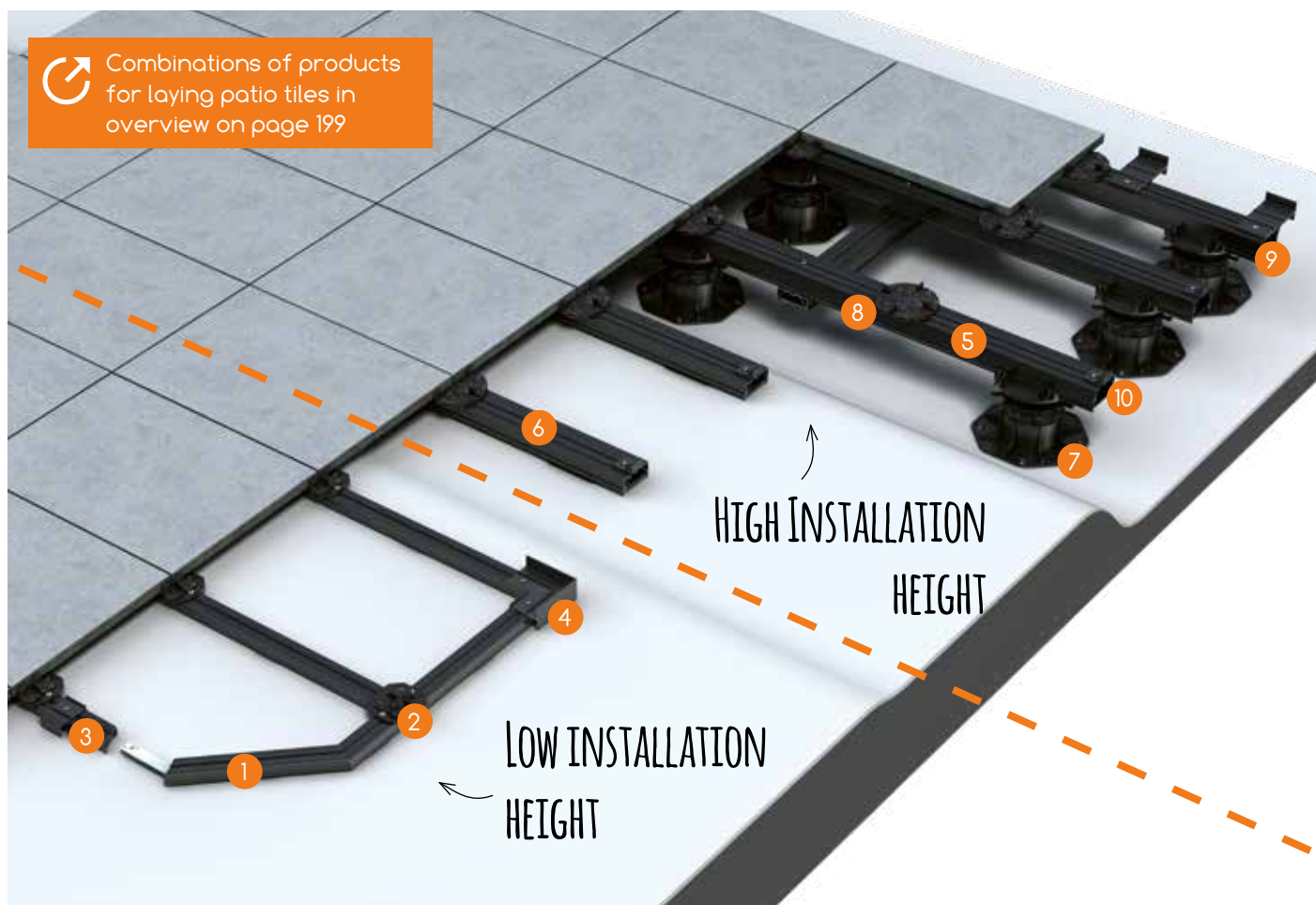
Advantages:

- ✓ Time-saving and temperature-independent installation, can be walked on immediately
- ✓ Permanently even laying pattern without tripping hazards
- ✓ Optimal solution for difficult construction situations such as balconies or roof terraces
- ✓ Easy replacement of individual tiles at any time
- ✓ Simple and fast side facing with gradient compensation





Combinations of products
for laying patio tiles in
overview on page 199



Installation of ceramic patio tiles with a low structure height:

1



SMART-Isostep

2



M-Fix SMART

3



S-Fix SMART

4



Corner-Fix SMART

Installation of ceramic patio tiles with a high structure height:

5



BIG-Isostep

6



TWIXT-Isostep

7



CLIP Decking
support feet

8



M-Fix

9



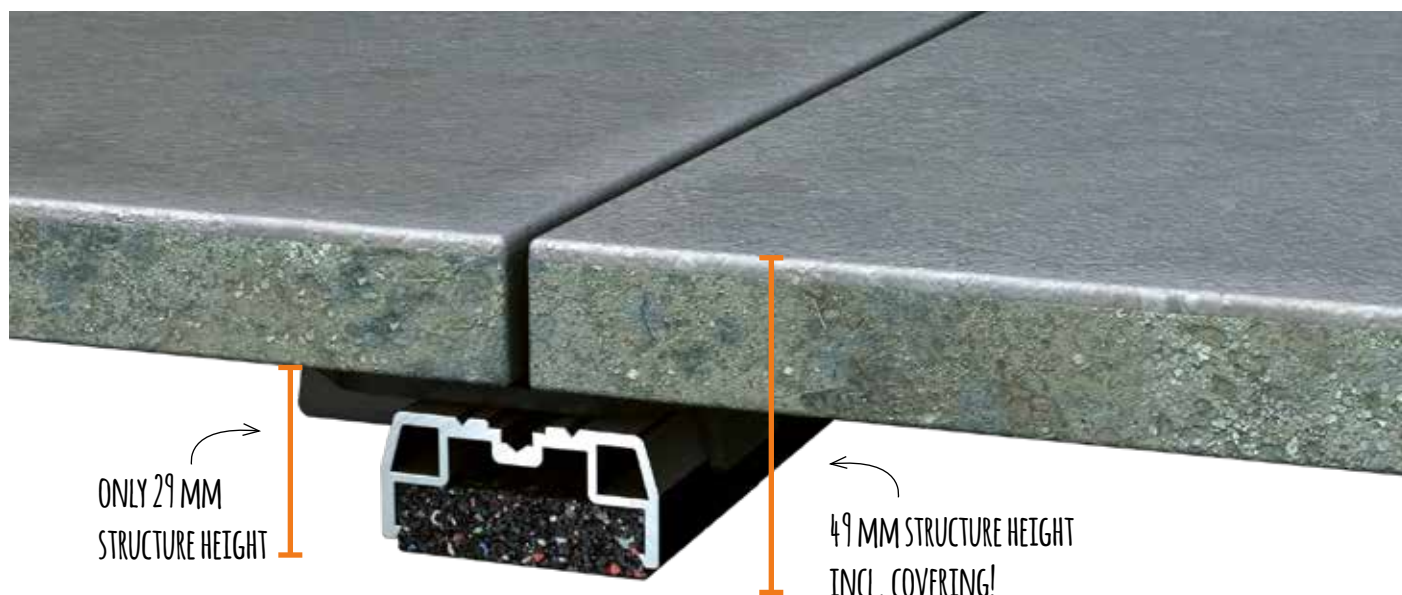
S-Fix

10



Wall-Fix





Laying of patio tiles with a low construction height:

Even with a low construction height, such as on a balcony, there is no need to lose out on the benefits offered by installation on an aluminium substructure. This is why we have developed an installation system for ceramic patio tiles using the SMART-Isostep system rails, which is ideal for these kinds of installation situations thanks to a construction height of just 29 mm. Supplemented by the products M-Fix I, S-Fix I and Eck-Fix I, it is possible to precisely install patio tiles even with a low height of just 49 mm including the tiles. Balcony renovations as well as patio modernisations, if construction should take place on an existing covering, can thus be implemented optimally.



M-Fix SMART

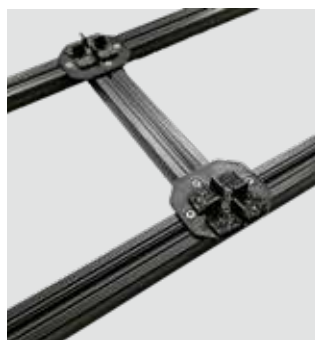


The M-Fix SMART offers an even joint and installation pattern (3 mm) for the installation of tiles on Isostep rails. With the corresponding rubber pad, the tile has non-slip support and damping to feel pleasant under your feet. In addition to its function as a tile support, the M-Fix i also serves as a connecting element between the inner lower edge and the frame lower edge.

Product	Part no.	Qty. / PU	PU / Box
M-Fix SMART including pad and drilling screws	7411	30 Pcs.	1
	7412	100 Pcs.	1

Advantages:

- ✓ Even joint pattern when laying tiles
- ✓ Non-slip layer and damping for panels with rubber pad
- ✓ Connecting element for the inner lower edge with the frame lower edge
- ✓ Installation height including pad 6 mm, joint width 3 mm





S-Fix SMART



With the S-Fix SMART, patio tiles are laterally fixed to the Isostep rail during installation and are thus secured against slipping. What's more, the S-Fix i offers stable support for patio tiles in the edge area. The lateral overhang of the S-Fix i can be used, among other things, to install a facing profile.

Product	Part no.	Qty. / PU	PU / Box
S-Fix SMART incl. drilling screw	7413	10 Pcs.	4
	7414	50 Pcs.	1

Advantages:

- ✓ Lateral fixing for patio tiles; prevents lateral displacement
- ✓ Support and stabilisation of the tiles at the edge
- ✓ Offers possibilities for fixing side and facing profiles in place



Corner-Fix SMART



With the Corner Fix SMART, patio tiles are fixed to the Isostep rail in every corner during installation and are thus secured against slipping. What's more, the Corner Fix SMART offers stable support for patio tiles in the corner area. The lateral overhang of the Corner Fix i can be used, among other things, to install a facing profile.

Product	Part no.	Qty. / PU	PU / Box
Corner-Fix SMART, 2-part	7415	set	8

Advantages:

- ✓ Fixing the patio tiles in the corners
- ✓ Prevents tilting movements of the panels from edge loads
- ✓ Offers possibilities for fixing side and facing profiles in place





Laying of patio tiles with a high construction height:

On severe slopes and difficult substrates, installation is made considerably easier by using a substructure that only requires a small number of support points and can also compensate for large differences in height. In combination with the CLIP system, decking support pads can be connected to our system rails in various profile thicknesses in an adjustment range of 25 to 225 mm almost without any screws. This makes it possible to respond individually to the given terrain, yet also guarantee a quick and stable structure.

The proven CLIP system, supplemented by M-Fix, S-Fix and Wall-Fix, ensures that ceramic tiles can also be laid professionally on a substructure. A substructure incorporating counter battens offers additional stability and is easier to install by fixing to the aluminium rails that are already in place.

The high construction height with the system rails TWIXT, BIG and MEGA-Isostep allows sufficient space under the decking for pipes and cables to be concealed without any problems, whilst also offering easy access thanks to the individually removable tiles.



✓ incl. Isopad support



M-Fix / M-Fix-H



The M-Fix ensures a uniform joint pattern (3 mm) and, in conjunction with the rubber pad, an insulated and non-slip overlay of the panels.

Product	Part no.	Qty. / PU	PU / Box
M-Fix (for use on aluminium substructure BIG-/TWIXT-Isostep) incl. pad and drilling screws	7400	30 Pcs.	1
	7365	100 Pcs.	1
M-Fix H (for use on aluminium substructure H-Isostep) including pad and drilling screws	7401	30 Pcs.	1
	7375	100 Pcs.	1

Advantages:

- ✓ Uniform joint pattern when laying boards
- ✓ Non-slip support and insulation for boards with rubber pad
- ✓ Installation height including pad 6 mm, joint width 3 mm



S-Fix / S-Fix H

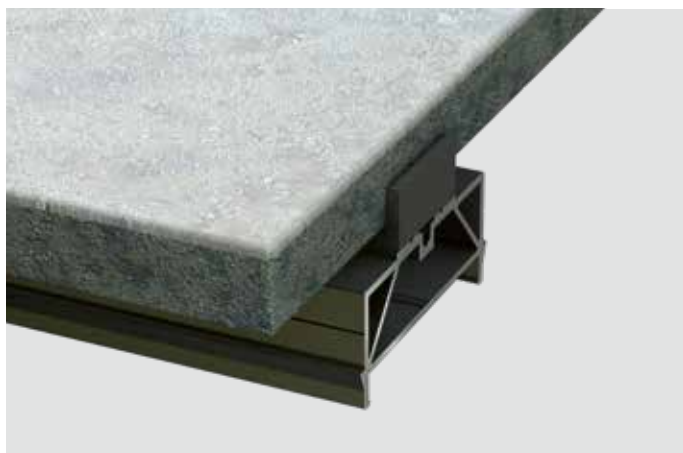


S-Fix / S-Fix-H for lateral fixation of the boards. The 5-mm thick aluminium angle prevents the boards from tilting when loads are applied to the edges. It has the same depth as the decking support foot, which therefore does not have to be shortened when connecting to the wall.

Product	Part no.	Qty. / PU	PU / Box
S-Fix (for use on aluminium substructure BIG-/TWIXT Isostep) including drilling screw	7402	10 Pcs.	4
	7366	50 Pcs.	1
S-Fix H for use on aluminium substructure H-Isostep) including drilling screw	7403	10 Pcs.	4
	7367	50 Pcs.	1

Advantages:

- ✓ Lateral fixation for patio tiles
- ✓ High stability due to 5 mm material thickness
- ✓ Prevents tilting movements of the panels from edge loads



Wall-Fix / Wall-Fix longitudinal profile



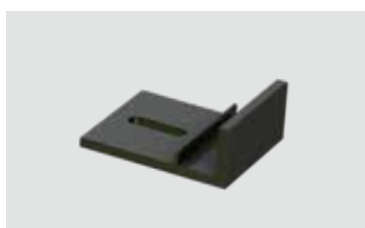
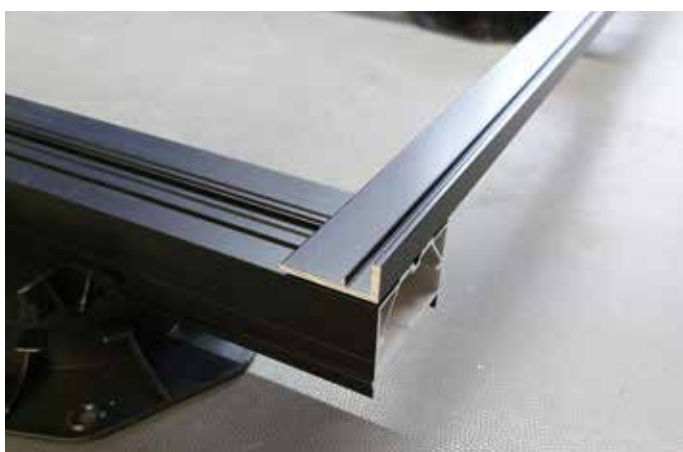
For fixing the very last tiles at the front side of the substructure. Can be used in areas where it is not possible to frame the substructure.

The approved Wall-Fix for the lateral fixing of patio slabs is now also available as a longitudinal profile. In addition to the usual advantages, the 400 cm long profile can be aligned and installed even faster. Especially suitable for long, straight sections.

Product	Part no.	Qty. / PU	PU / Box	VPE / Karton
Wall-Fix incl. drilling screw	9106		50 Pcs.	4
Wall-Fix longitudinal profile	7490	38x15x4000 mm	1 Pc.	

Advantages:

- ✓ Lateral fixing of patio tiles
- ✓ Especially made for the assembly at the front side of the construction
- ✓ Flexible positioning while fastening thanks to a slotted hole
- ✓ Wall-Fix as a longitudinal profile simplifies the alignment of tiles in the edge area and thus ensures a faster installation





Wall-Fix T profile

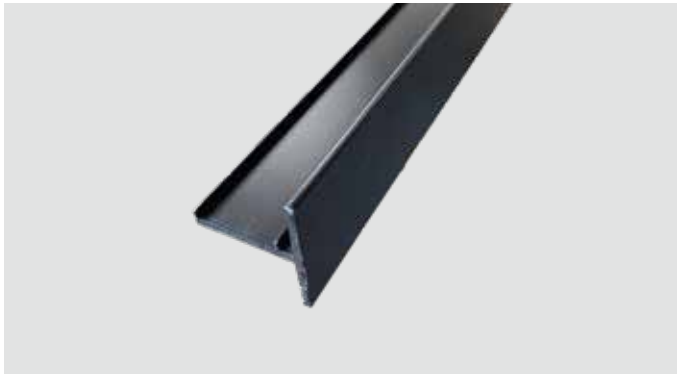


The Wall-Fix T profile is used to secure tiles laterally when laid on aluminium substructures. Due to the high static strength of the profile, it shows its benefits in diagonal areas that are not fitted at a right angle.

Product	Part no.	Dimensions	Qty. / PU	PU / Box
Wall-Fix T profile	7489	42,5x38x4000 mm	1 Pc.	

Advantages:

- ✓ Lateral securing of patio tiles
- ✓ Ideal for laying tiles on non-rectangular areas
- ✓ For mounting at the front side of the aluminium profiles
- ✓ Profile with high static
- ✓ Lateral web for the attachment of a side panel



Example application
Wall-Fix T profile



Panel lifter

The panel lifter and professional panel lifter are the perfect tool for laying any ceramic panel size.

Product	Range	Part no.	Qty. / PU	PU / Box
Panel lifter	300-500 mm	7376	1 Pc.	6
Professional panel lifter	200-620 mm Load capacity: 60 kg	7377	1 Pc.	2

Advantages of professional panel lifter:

- ✓ Flexible width adjustment
- ✓ Laying aid







FASTENING OF DECKING BOARDS

The optimally coordinated TERRACON®-decking system offers several mounting systems for decking boards onto the various substructures. Terraflex or Terraflex Pro in combination with Terrastart, as well as the Clipper, are the solutions to your problem when invisible board fastening is needed. When they can be fastened in full view, our Terrafix and system bars with bolts are the right choice.

All mounting parts will present a uniform looking installation and guarantee built-in wood protection because of the ventilation under the boards.

All our fastening systems are manufactured in Germany under constant quality control.



Advantages:

- ✓ Even assembly pattern
- ✓ Constructive wood protection via underside ventilation of the boards
- ✓ Optimal solution for different boards and construction situations





All fasteners in
overview on
pages 204-205



Installation of patio boards on an aluminium substructure:

1



BIG-Isostep

2



TWIXT-Isostep

3



SMART-Isostep

4



CLIP decking
support feet

5



Terraflex

6



Clipper

7



Terrafix







Terraflex

The invisible, fast board assembly for grooved boards. Simple fitting, even laying pattern.

The Terraflex ensures an laying pattern with a 7 mm joint spacing between the boards and provides constructive wood protection due to the 6 mm gap inbetween substructure and decking.



Advantages:

- ✓ Invisible fixing, no screws visible in the board from above
- ✓ Uniform installation pattern, distances between the boards is 7 mm
- ✓ A predetermined breaking point that permits a flexible clamping range and is therefore adaptable to different groove wall thicknesses
- ✓ As experience has shown, constructive wood protection according to DIN 68800, due to 6 mm spacing inbetween decking and substructure, leads to 20 - 30 % longer service life
- ✓ Made of fibreglass reinforced Polyamide

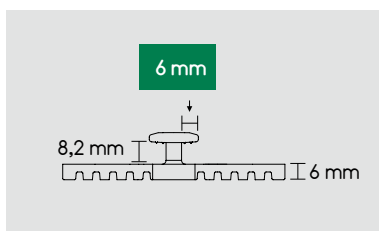
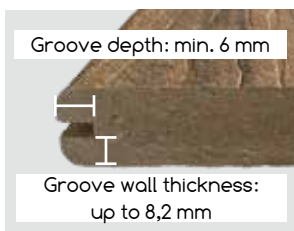


Suitable for decking boards made of WPC, BPC, Thermo wood and other wooden boards (according to page 204-205).

ASSEMBLY VIDEO



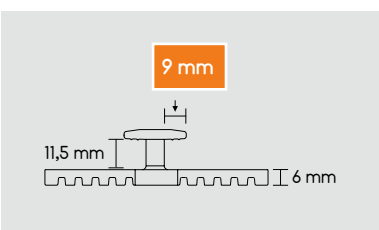
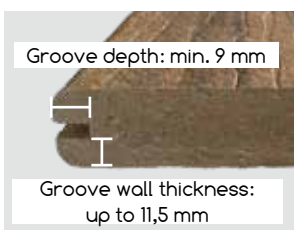
Flexible clamping range of 5 mm due to predetermined breaking point. Screw specially made for application with Terraflex (also available separately).



Terraflex N6

The Terraflex N6 is best suited for boards made of WPC, BPC and thermo wood boards with a maximum groove wall thickness of 8.2 mm and a minimum groove depth of 6 mm.

Product	Part no.	Qty. / PU	PU / Box
Terraflex with stainless steel screws C1 black 5 x 50 mm for wood substructure	7112	30 Pcs.	16
	7118	120 Pcs.	8
	7002	600 Pcs.	1
Terraflex with stainless steel screws A4 black 5 x 50 mm for wood substructure	7115	30 Pcs.	16
	7119	120 Pcs.	8
	7004	600 Pcs.	1
Terraflex with stainless steel drilling screws C1 black 5 x 35 mm for aluminium substructure	7113	30 Pcs.	16
	7120	120 Pcs.	8
	7003	600 Pcs.	1
Terraflex with stainless steel drilling screws A4 black 5 x 35 mm for aluminium substructure	7114	30 Pcs.	16
	7121	120 Pcs.	8
	7005	600 Pcs.	1



Terraflex N9

The Terraflex N6 is best suited for boards made of WPC, BPC and thermo wood boards with a maximum groove wall thickness of 11,5 mm and a minimum groove depth of 9 mm.

Product	Part no.	Qty. / PU	PU / Box
Terraflex with stainless steel screws C1 black 5 x 50 mm for wood substructure	6965	30 Pcs.	16
	6559	120 Pcs.	8
	6564	600 Pcs.	1
Terraflex with stainless steel screws A4 black 5 x 50 mm for wood substructure	6592	30 Pcs.	16
	6593	120 Pcs.	8
	6594	600 Pcs.	1
Terraflex with stainless steel drilling screws C1 black 5 x 35 mm for aluminium substructure	6408	30 Pcs.	16
	6560	120 Pcs.	8
	6565	600 Pcs.	1
Terraflex with stainless steel drilling screws A4 black 5 x 35 mm for aluminium substructure	6562	30 Pcs.	16
	6563	120 Pcs.	8
	6566	600 Pcs.	1

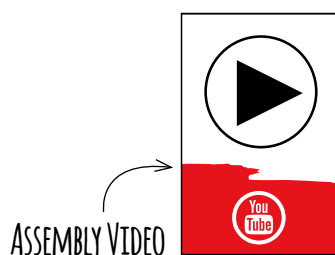
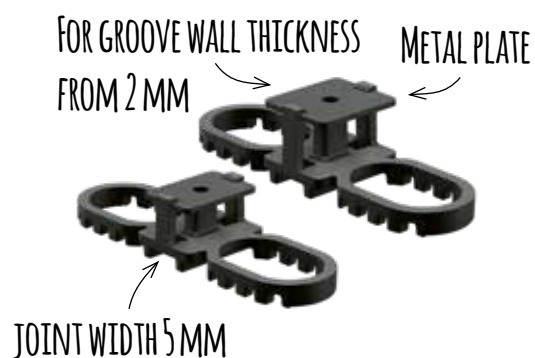




Terraflex Pro

The Terraflex Pro is an invisible attachment for grooved boards, which serves as a spacer between the boards and offers structural wood protection.

The metal plate of the Terraflex Pro enables an installation from a groove thickness of 2 mm.

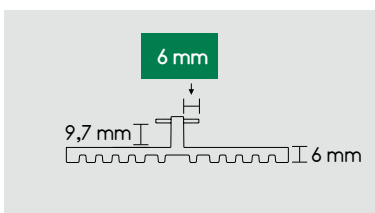


Advantages:

- ✓ Invisible fixing, no screws visible in the board from above
- ✓ Uniform installation pattern, distances between the boards is only 5 mm
- ✓ Fixes boards with a minimal groove wall thickness of only 5 mm
- ✓ A predetermined breaking point that permits a flexible clamping range and is therefore adaptable to different groove wall thicknesses
- ✓ As experience has shown, constructive wood protection according to DIN 68800, due to 6 mm spacing inbetween decking and substructure, leads to 20 - 30 % longer service life
- ✓ Made of fibreglass reinforced Polyamide including metal plate (A2 stainless steel)



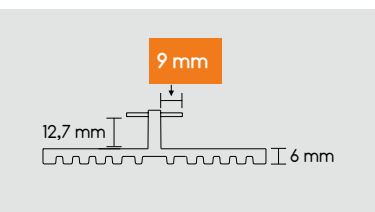
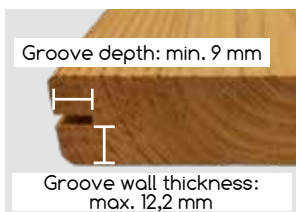
Suitable for decking boards made of WPC, BPC, Thermo wood and other wooden boards (according to page 204-205).



Terraflex Pro N6

Best suited for boards made of WPC, BPC and thermo wood boards with a groove wall thickness of 4,2 - 9,2 mm and a minimal groove depth of 6 mm. Fixing of boards with a minimal groove thickness of 2 mm.

Product	Part no.	Qty. / PU	PU / Box
Terraflex Pro N6 with C1 stainless steel screws black 4,2 x 50 mm for wood substructure	7014	30 Pcs.	16
	7015	120 Pcs.	8
	7047	600 Pcs.	1
Terraflex Pro N6 with A4 stainless steel screws black 4,2 x 50 mm for wood substructure	7030	30 Pcs.	16
	7031	120 Pcs.	8
	7050	600 Pcs.	1
Terraflex Pro N6 with C1 stainless steel drilling screws black 4,2 x 33 mm for aluminium substructure	7016	30 Pcs.	16
	7017	120 Pcs.	8
	7046	600 Pcs.	1
Terraflex Pro N6 with A4 stainless steel drilling screws black 4,2 x 33 mm for aluminium substructure	7032	30 Pcs.	16
	7033	120 Pcs.	8
	7051	600 Pcs.	1



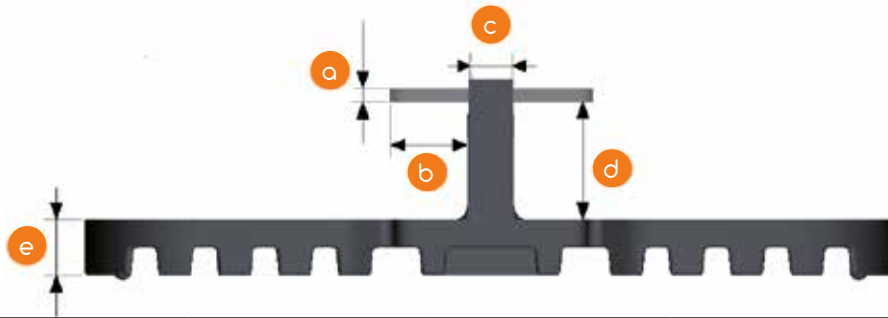
Terraflex Pro N9

Best suited for boards made of WPC, BPC and thermo wood boards with a groove wall thickness of 7,2 - 12,2 mm and a minimal groove depth of 9 mm. Fixing of boards with a minimal groove thickness of 2 mm.

Product	Part no.	Qty. / PU	PU / Box
Terraflex Pro N9 with C1 stainless steel screws black 4,2 x 50 mm for wood substructure	7010	30 Pcs.	16
	7011	120 Pcs.	8
	7049	600 Pcs.	1
Terraflex Pro N9 with A4 stainless steel screws black 4,2 x 50 mm for wood substructure	7025	30 Pcs.	16
	7026	120 Pcs.	8
	7052	600 Pcs.	1
Terraflex Pro N9 with C1 stainless steel drilling screws black 4,2 x 33 mm for aluminium substructure	7012	30 Pcs.	16
	7013	120 Pcs.	8
	7048	600 Pcs.	1
Terraflex Pro N9 with A4 stainless steel drilling screws black 4,2 x 33 mm for aluminium substructure	7027	30 Pcs.	16
	7028	120 Pcs.	8
	7053	600 Pcs.	1



Terraflex in overview



Specifications and dimensions (mm)	Terraflex N6	Terraflex N9	Terraflex Pro N6	Terraflex Pro N9
				
a	3,8	3,8	1,5	1,5
b	6,0	8,5	6,0	8,5
c	7,0	7,0	5,0	5,0
d	8,3	11,6	9,7	12,7
e	6,0	6,0	6,0	6,0
Joint spacing while assembly	7,0	7,0	5,0	5,0
Minimal groove depth	6,0	9,0	6,0	9,0
Maximum height upper groove wall	7,8	11,1	9,2	12,2
Minimal height lower groove wall	2,8	6,1	4,2	7,2
Minimal height wooden substructure	40,0	40,0	40,0	40,0
Minimal height aluminium substructure	23,0	23,0	23,0	23,0



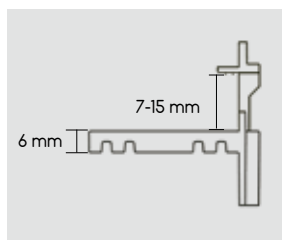
Terrastart

Invisible start/end fastening system for decking boards of wood or aluminium substructures when installing with Terraflex or Terraflex Pro.

Product	Part no.	Qty. / PU	PU / Box
Terrastart with A4 stainless steel drilling screw for aluminium substructures and A4 stainless steel screw for wood substructures	7378	20 Pcs.	16

Advantages:

- ✓ No visible screw fastening
- ✓ Ideal supplement for the installation of Terraflex
- ✓ For all boards with a centre groove of 2 mm or wider
- ✓ Including stainless steel screws for wood/WPC or Aluminium substructure
- ✓ Made of fibreglass reinforced Polyamide







*Please observe the processing notes at: karle-rubner.de

Clipper

Clipper is an invisible attachment for grooveless boards, which serves as a spacer between the boards and offers structural wood protection.



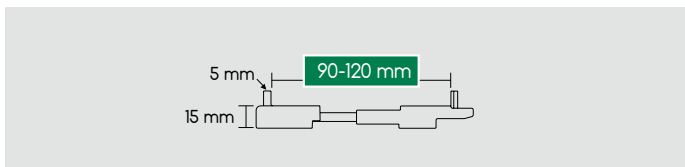
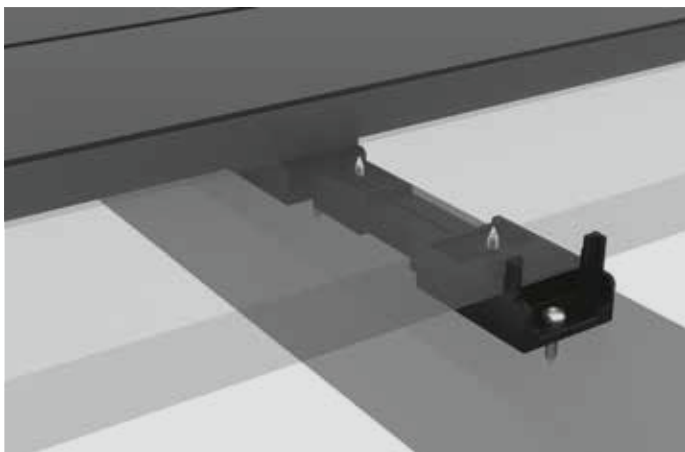
Advantages:

- ✓ Invisible fastening, no screws visible on the top of the boards
- ✓ Variable adjustments depending on the board width
- ✓ Thanks to its special design fromle to absorb the swelling or shrinking of the wood
- ✓ Even pattern, joint spacing between the boards only 5mm
- ✓ As experience has shown, constructive wood protection according to DIN 68800, due to 15 mm spacing inbetween decking and substructure, leads to 20 - 30 % longer service life
- ✓ Its height absorbs tension from the patio construction, which significantly minimises the risk of shearing off the screws
- ✓ Made of fibreglass reinforced Polyamide

ASSEMBLY VIDEO

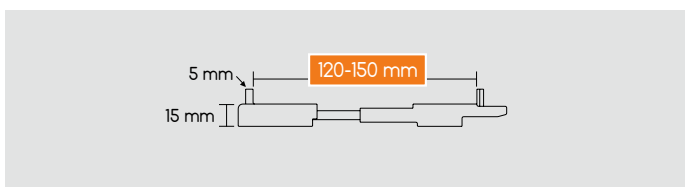
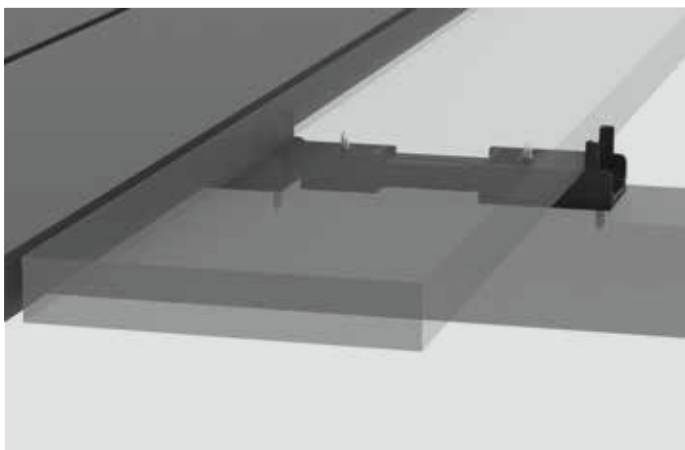


Clipper is approved for all patio decking made from thermally modified wood, thermally modified WPC, WPC, softwood and commercially available chamber-dried hardwoods* (according to page 204-205).



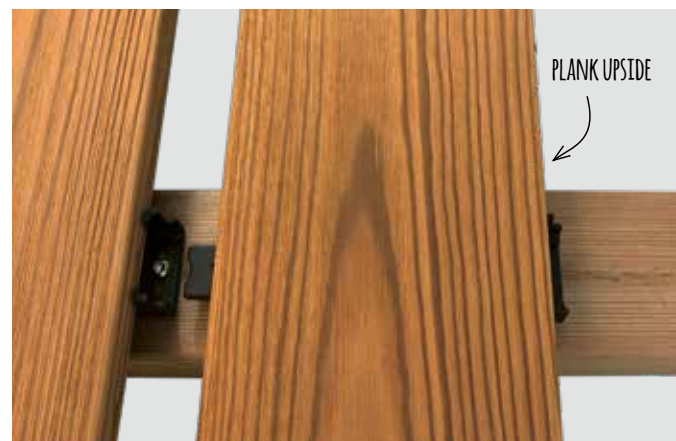
Clipper 90-120 mm

Product	Part no.	Dimensions	Qty. / PU	PU / Box
Clipper incl. C1 stainless steel screws for wood substructure	6968	Board thickness from 25 mm	30 Pcs.	8
	6972	Board thickness 20 to 24 mm	30 Pcs.	8
Clipper incl. A2 stainless steel screws for aluminium substructure	7140	Board thickness from 25 mm	30 Pcs.	8
	7141	Board thickness 20 to 24 mm	30 Pcs.	8
Clipper without screws	6969		30 Pcs.	8
	7055		500 Pcs.	1

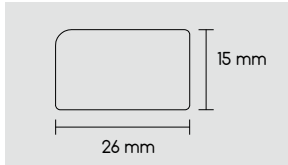


Clipper 120-150 mm

Product	Part no.	Dimensions	Qty. / PU	PU / Box
Clipper incl. C1 stainless steel screws for wood substructure	6888	Board thickness from 25 mm	20 Pcs.	16
	6889		50 Pcs.	8
	6901	Board thickness 20 to 24 mm	20 Pcs.	16
	6896		50 Pcs.	8
Clipper incl. A2 stainless steel screws for aluminium substructure	7142	Board thickness from 25 mm	20 Pcs.	16
	7143		50 Pcs.	8
	7144	Board thickness 20 to 24 mm	20 Pcs.	16
	7145		50 Pcs.	8
Clipper without screws	6926		20 Pcs.	16
	6927		50 Pcs.	8
	7054		500 Pcs.	1



Flexible range of use from 90-150 mm board width due to locked construction made of two parts. Especially manufactured screw for the use with Clipper (also available separately).



Clipperstart

The Clipperstart is an invisible starting aid and perfect addition for installing decking boards with the Clipper fixation system. Thanks to the variable adjustment range of the Clipper and the clever plug/screw fastening system, the Clipperstart enables convenient and invisible bolting at the top of the mounted deck surface.

Product	Part no.	Qty. / PU	PU / Box
Clipperstart with C1 stainless steel drilling screw for aluminum substructure and C1 stainless steel screw for wood substructure	7379	20 Pcs.	16

Advantages:

- ✓ Invisible start-fastening, no screws visible on the top of the boards
- ✓ Ideal supplement for installation of Clipper
- ✓ Constructive wood protection
- ✓ Including stainless steel screws for wood/WPC or aluminium substructure
- ✓ Made of fibreglass reinforced Polyamide







Terrafix

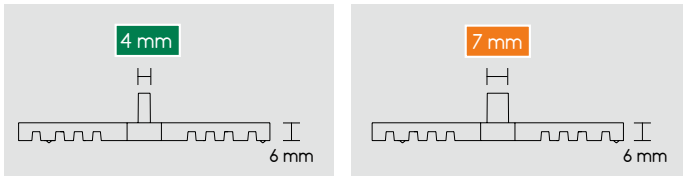
Terrafix is a spacer for the visible screw connection, which ensures that the space between the individual decking boards and the underlying substructure is adequate. Without the need for any additional aids, this ensures an even laying pattern and constructive wood protection, as no waterlogging occurs and ventilation is guaranteed.



Advantages:

- ✓ Even joint spacing: 7 or 4 mm
- ✓ Constructive wood protection via underside ventilation of the boards
- ✓ As experience has shown, constructive wood protection according to DIN 68800, due to 6 mm spacing inbetween decking and substructure, leads to 20 - 30 % longer service life
- ✓ Significantly minimises the risk of shearing off the screws
- ✓ Including drill template
- ✓ Made of fibreglass reinforced Polyamide

Product	Bolt	Part no.	Dimensions	Qty. / PU	PU / Box
Terrafix	4 mm	6952	88x25x6 mm	50 Pcs.	16
		6864	88x25x6 mm	100 Pcs.	8
	7 mm	6951	88x25x6 mm	50 Pcs.	16
		6818	88x25x6 mm	100 Pcs.	8
		6819	88x25x6 mm	600 Pcs.	1



 Suitable boards on pages 204-205.





Drill template

Drill marking template for the visible screw connection of patio boards and substructure. Ensures quicker fastening when laid with our system rails, as the precisely fitted marking guarantees a screw connection into the screw channel. The uniform spacing also ensures an even screw pattern after installation. Suitable for decking boards with a width of 120 up to 150 mm. Supplied as part of every Terrafix package as well as separately available.

Product	Part no.	Dimensions	Qty. / PU	PU / Box
Drill template	7042	158x20x50 mm	2 Pcs.	4



Advantages:

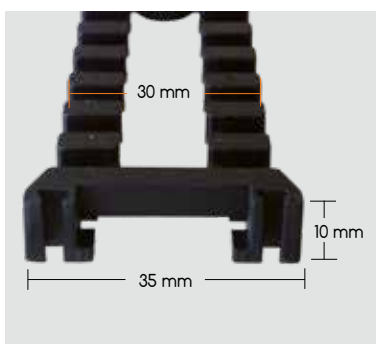
- ✓ Drill marking template for the precise marking of the drill position
- ✓ Variably adaptable for boards with a width of 120 up to 150 mm
- ✓ Optimal support for installation with Terrafix 4 or 7 mm
- ✓ Even laying pattern



Spacer bar

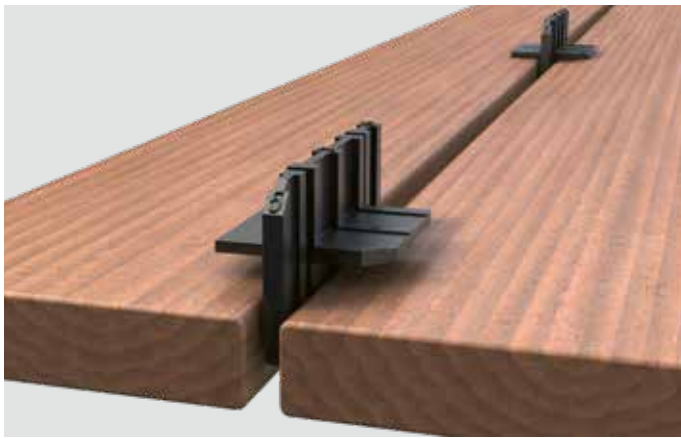
Spacer between the boards. Ensures structural wood protection and an even installation pattern thanks to full-surface support of the decking board. During assembly on the substructure, the bolts are simply clicked into place as spacers. Optimal for visible fastening of decking boards.

Product	Part no.	Dimensions	Qty. / PU	PU / Box
Spacer bar	9060	40 cm	60 Pcs.	4
Bolts 4 mm	9061		200 Pcs.	16
Bolts 7 mm	9062		200 Pcs.	16



Advantages:

- ✓ The boards are in full contact with the spacer
- ✓ Simple and precise mounting of patio boards
- ✓ Even installation pattern
- ✓ As experience has shown, constructive wood protection according to DIN 68800, due to 10 mm spacing inbetween decking and substructure, leads to 20 - 30 % longer service life
- ✓ Made of fibreglass reinforced Polyamide



Spacer cross

Universal assembly aid for installing decking boards or flagstones. TERRACON® spacer cross with its six different levels: with just one item it is possible to produce individual joint widths between boards and plates.

Product	Part no.	Dimensions	Qty. / PU	PU / Box
Spacer cross 3-8 mm	7213	85x43x43 mm	12 Pcs.	16

Advantages:

- ✓ For six different joint widths from 3 to 8 mm
- ✓ Assembly aid for visible screw fastenings of patio decking and patio tiles
- ✓ Universally usable



BASEDECK
The convenient alternative



For quick and easy installation of patio decking on wooden or aluminium substructure.

Minimum depth of the groove 8 mm, joint width: 8 mm

Product	Part no.	Qty. / PU	PU / Box
T Clip including stainless steel screw for wooden substructure	9082	30 Pcs.	48
T Clip including drilling screw for aluminium substructure	7280	30 Pcs.	48

*Not suitable for WPC Piazza One / Pro decking boards



BASEDECK
The convenient alternative



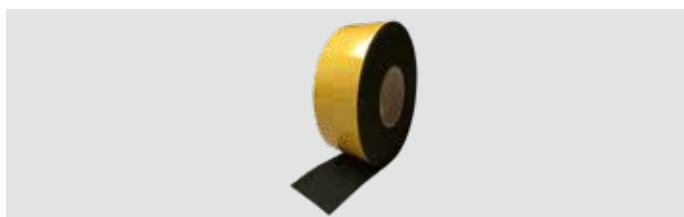
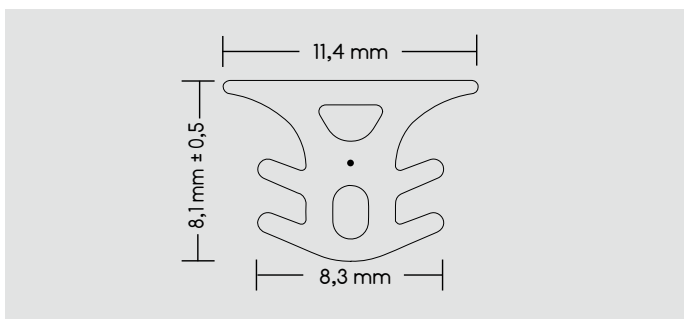
Start / End Clip

For start and end fastening of patio decking when installing with T-Clip.

Minimum depth of the groove 8 mm, joint width: 8 mm

Product	Part no.	Qty. / PU	PU / Box
Start and end clip including stainless steel screw for wooden substructure	9083	10 Pcs.	40
Start and end clip including drilling screw for aluminium substructure	7281	10 Pcs.	40

*Not suitable for WPC Piazza One / Pro decking boards



Terraprotect: deck joint tape

Terraprotect prevents large debris and superficial dirt such as leaves or pine needles from getting below the decking.

The UV-resistant joint tape is suitable for a joint width from 6 mm to 7.5 mm. Application is only possible for patio decking that has been laid with WPC or thermally treated boards. The laid boards should not display any swelling or shrinkage. It should also be ensured that the decking has sufficient underside ventilation (min. 8 cm).

Product	Part no.	Joint width	Board thickness	Qty. / PU	PU / Box
Terraprotect for Thermo wood WPC 140 WPC Vision CoolDeck Thermo-WPC 137*	7304	6-7,5 mm	from 20 mm	roll á 50 m	5

*When using Terraprotect WPC137, the distance between the rails has to be 30 cm.

Advantages:

- ✓ Prevents dirt from getting below the deck surface
- ✓ Resistant to deck oil
- ✓ UV resistant

Protective tape 75 x 2 mm for wooden substructure (self-adhesive)

The tape made from cellular rubber protects the top of the wood substructure from the weather.

The highly adhesive glue allows for easy attachment of the substructure. Every standard substructure profile is optimally covered thanks to the 75-mm width. The elastic and water-repellent material of the cover tape also encloses and seals the inserted deck screw, providing additional protection for the drill holes.

Product	Part no.	Dimensions	Qty. / PU	PU / Box
Protective tape	7212	75x2 mm, length 10 m	1 Pc.	16

Advantages:

- ✓ Protects wooden substructures from weather
- ✓ Encloses the decking screw that has been screwed in place
- ✓ Self-adhesive, thus easy to install
- ✓ Water-resistant
- ✓ Resistant to UV radiation

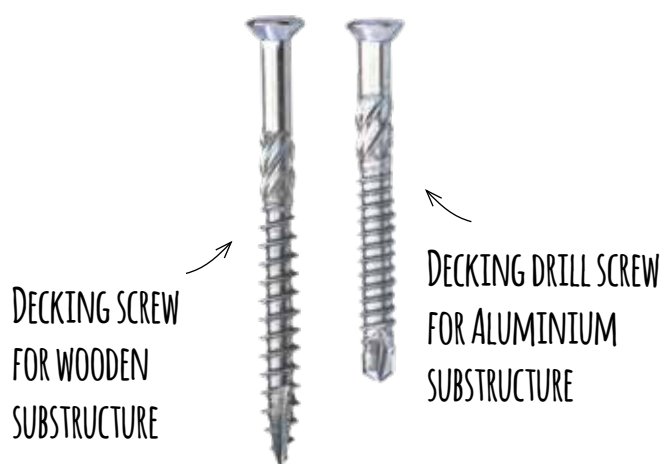


Decking screws

To fulfil the most diverse requirements in patio construction, decking boards can also be fixed in place from above. This is particularly suitable for boards with high swelling and shrinkage behaviour and boards without grooves. Our range of screws always has the right fixing for any installation situation.

Advantages:

- ✓ Fastening possibilities for all decking boards
- ✓ Depending on the screw type, chlorine-, salt water- or tannic acid-resistant
- ✓ Fitting drills for screw fastening



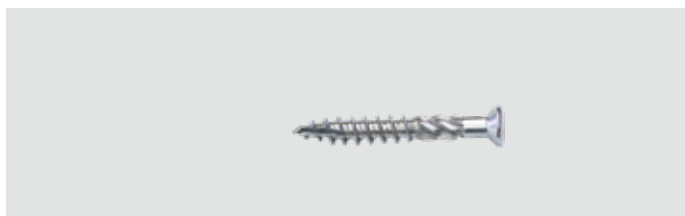
i Suitable for visible screwing of decking boards.

 Screws in overview on pages 208-209.



Decking screw for wooden substructure

The decking screws are specially designed for visible screwing of hardwood and softwood on a wooden substructure.



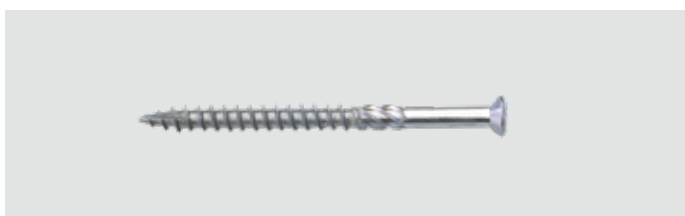
Product	Steel class	Part no.	Dimensions	Qty. / PU	PU / Box
Decking screw for wooden substructure; TX25	A2	7555	5,5x40 mm	100 Pcs.	10
	A2	7569	5,5x40 mm	500 Pcs.	1
	A4	7558	5,5x40 mm	100 Pcs.	10
	A4	7573	5,5x40 mm	500 Pcs.	1



Product	Steel class	Part no.	Dimensions	Qty. / PU	PU / Box
Decking screw for wooden substructure; TX25	A2	7556	5,5x50 mm	100 Pcs.	10
	A2	7570	5,5x50 mm	500 Pcs.	1
	A4	7559	5,5x50 mm	100 Pcs.	10
	A4	7574	5,5x50 mm	500 Pcs.	1



Product	Steel class	Part no.	Dimensions	Qty. / PU	PU / Box
Decking screw for wooden substructure; TX25	A2	7523	5,5x60 mm	100 Pcs.	10
	A2	7571	5,5x60 mm	500 Pcs.	1
	A4	7524	5,5x60 mm	100 Pcs.	10
	A4	7575	5,5x60 mm	500 Pcs.	1

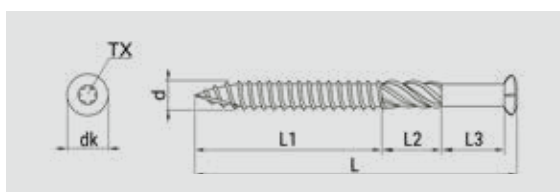


Product	Steel class	Part no.	Dimensions	Qty. / PU	PU / Box
Decking screw for wooden substructure; TX25	A2	7557	5,5x70 mm	100 Pcs.	10
	A2	7572	5,5x70 mm	500 Pcs.	1
	A4	7560	5,5x70 mm	100 Pcs.	10
	A4	7576	5,5x70 mm	500 Pcs.	1

Advantages:

- ✓ With cutting notch, drills into the wooden UK
- ✓ Stainless and corrosion resistant
- ✓ A4 durable against tannic acid containing woods, chlorine and salt water

Dimensions of deck screws for timber substructure



	Product	dk	d	L	L1	L2	L3
Decking screw for wooden substructure; TX25	5,5 x 40 mm	7	5,5	40	24	8,2	7,8
	5,5 x 50 mm	7	5,5	50	30	8,2	11,8
	5,5 x 60 mm	7	5,5	60	36	8,2	15,8
	5,5 x 70 mm	7	5,5	70	42	8,2	19,8

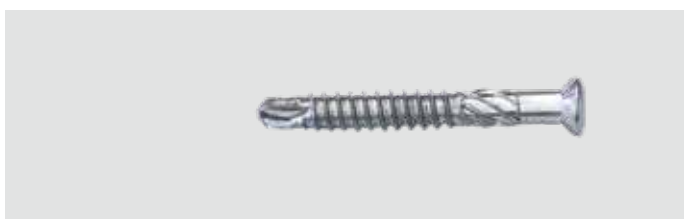


Decking drill screw for alu substructure

The self-drilling screws with integrated drill point are suitable for visible screwing of hardwood and softwood decking boards onto an aluminium substructure. The self-tapping screws ensure quick insertion into the substructure without pre-drilling.



Product	Steel class	Part no.	Dimensions	Qty. / PU	PU / Box
Decking drill screw for alu substructure; TX25	A2	7525	5,5x40 mm	100 Pcs.	10
	A2	7561	5,5x40 mm	500 Pcs.	1
	A4	7528	5,5x40 mm	100 Pcs.	10
	A4	7565	5,5x40 mm	500 Pcs.	1



Product	Steel class	Part no.	Dimensions	Qty. / PU	PU / Box
Decking drill screw for alu substructure; TX25	A2	7521	5,5x45 mm	100 Pcs.	10
	A2	7562	5,5x45 mm	500 Pcs.	1
	A4	7522	5,5x45 mm	100 Pcs.	10
	A4	7566	5,5x45 mm	500 Pcs.	1



Product	Steel class	Part no.	Dimensions	Qty. / PU	PU / Box
Decking drill screw for alu substructure; TX25	A2	7526	5,5x50 mm	100 Pcs.	10
	A2	7563	5,5x50 mm	500 Pcs.	1
	A4	7529	5,5x50 mm	100 Pcs.	10
	A4	7567	5,5x50 mm	500 Pcs.	1



Product	Steel class	Part no.	Dimensions	Qty. / PU	PU / Box
Decking drill screw for alu substructure; TX25	A2	7527	5,5x60 mm	100 Pcs.	10
	A2	7564	5,5x60 mm	500 Pcs.	1
	A4	7554	5,5x60 mm	100 Pcs.	10
	A4	7568	5,5x60 mm	500 Pcs.	1

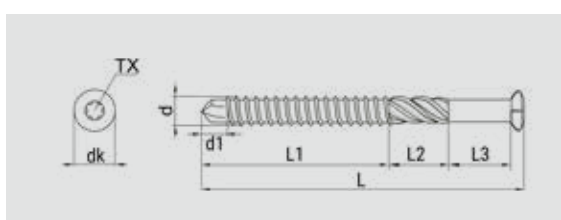


Possible screw lengths for visible screw fixing to aluminium substructure page 207

Advantages:

- ✓ With drill point for quick insertion of the screw into an aluminium UK without pre-drilling
- ✓ Stainless and corrosion resistant

Dimensions of self-drilling deck screws for aluminium substructure



	Product	dk	d	d1	L	L1	L2	L3
Decking drill screw for alu substructure; TX25	5,5 x 40 mm	7	5,5	5	40	24	7,75	8,25
	5,5 x 45 mm	7	5,5	5	45	27	9,75	8,25
	5,5 x 50 mm	7	5,5	5	50	30	11,75	8,25
	5,5 x 60 mm	7	5,5	5	60	36	15,75	8,25

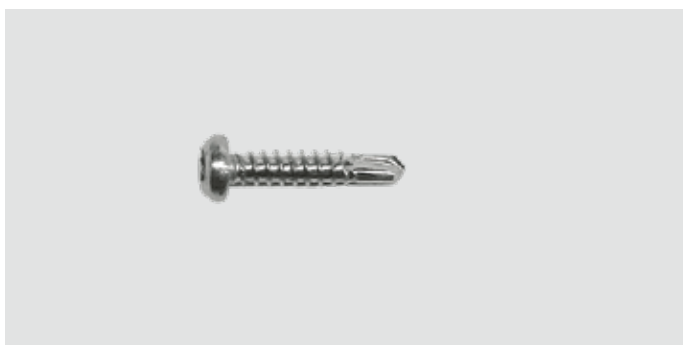


Drill for decking boards

The drill bit with countersink for pre-drilling the decking is suitable for screws with a Ø of 5.0 – 5.5 mm. To prevent damage to the boards, the drill including countersink can be used with an integral depth stop. This drill is suitable for screws with a diameter of 4.5 – 5.0 mm.



Product	Part no.	Dimensions	Qty. / PU	PU / Box
Drill with countersink	6853	Ø 6 mm	1Pc.	8
Drill incl. countersink and integrated depth stop	6930	Ø 5,5 mm	1Pc.	8



Drilling screw for decking support feet

This drilling screw is used to attach an aluminium UK to the decking support feet standard or the system rails to the CLIP decking support feet.

Product	Part no.	Dimensions	Qty. / PU	PU / Box
Drilling screw A2, TX20	6800	3,9x19 mm	50 Pcs.	10
	6939	3,9x19 mm	500 Pcs.	1



Concrete screw

The screw is for fixing decking support feet to concrete slabs or a concrete/stone floor and allows direct screwing with prior pre-drilling (masonry drill bit 6 mm).

Product	Part no.	Dimensions	Qty. / PU	PU / Box
Concrete screw silver-plated, TX30	7301	7,5x30 mm	50 Pcs.	10



NEW!

TX20 quality wedge bit

Ideal handling for fixing self-drilling screws without pre-drilling. The tapered head achieves a significantly better fit in the screw compared to a standard bit.

Product	Part no.	Dimensions	Qty. / PU	PU / Box
TX20 quality wedge bit	6416	Length: 50 mm	2	1

Advantages:

- ✓ With drill bit for rapid screwing into an aluminium substructure without pre-drilling
- ✓ Rust-proof and corrosion-resistant



PATIO TRIMS

Our patio trim products are coordinated to suit our entire system and offer solutions for common construction situations and even for gradients. Finishing the patio off with side panels, edge rails and steps visually enhances the whole patio, whilst also concealing cables, components and the substructure. Drainage profiles also provide optimal underside ventilation and the necessary drainage for construction projects in accordance with DIN 18195. This allows all of the conditions required for a long-lasting patio to be met.



Decking board WPC Piazza light grey

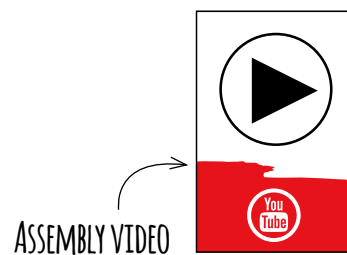
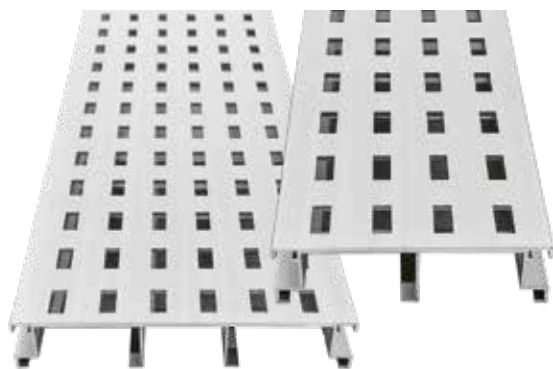


Advantages:

- ✓ Concealing cables, components or substructure
- ✓ All patio trim products are coordinated to suit the entire system
- ✓ Offers solutions for all common construction situations, even for gradients
- ✓ Appealing overall look of the patio
- ✓ Quick and easy installation
- ✓ Edge protection



Drainage and ventilation profile



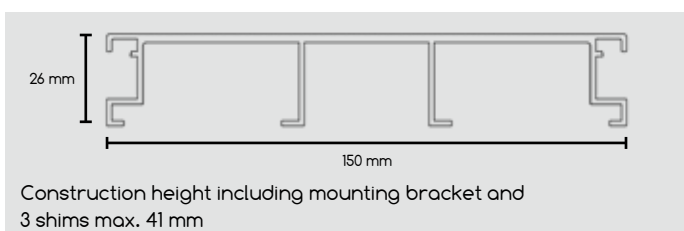
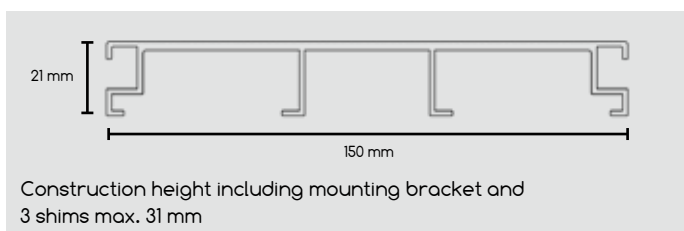
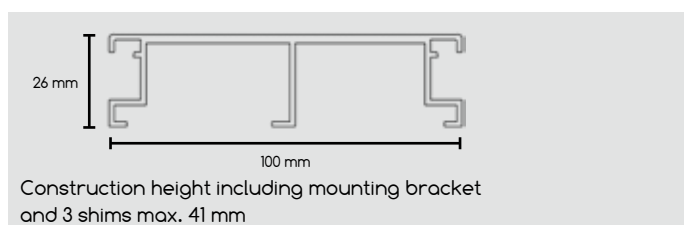
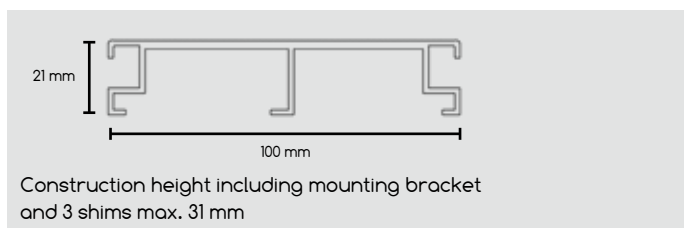
Advantages:

- ✓ Protects the house wall and façade from splash water
- ✓ Two variants for application at wall or window and door jambs
- ✓ Supports ventilation of the space underneath the patio
- ✓ Can be mounted on almost any aluminium, WPC and timber substructure
- ✓ Fixing of the profile independent of the construction height of the patio
- ✓ Simple installation in the TERRACON® system for boards and ceramic tiles





NEW!



Drainage and ventilation profile 100 mm

When connecting the patio directly to the façade, the drainage and ventilation profile protects against splash water and rainwater and also supports the ventilation of the patio decking. The drainage profile is fixed directly to the substructure and is therefore independent of the construction height of the patio.

Product	Part no.	Dimension	Qty. / PU	PU / Box
Drainage and ventilation profile silver (E6EV1) anodised	7619	100x21x1900 mm	1 Pc.	6
	7620	100x21x3000 mm	1 Pc.	30
	7621	100x26x1900 mm	1 Pc.	6
	7622	100x26x3000 mm	1 Pc.	30

i Distance between mounting clamps max. 60 cm

Drainage and ventilation profile 150 mm

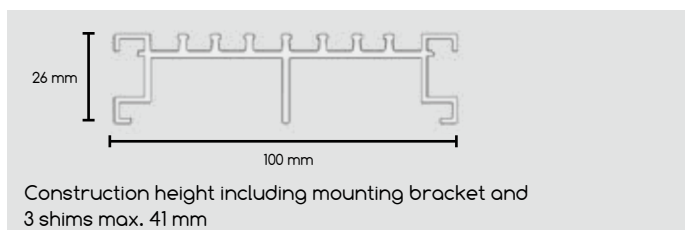
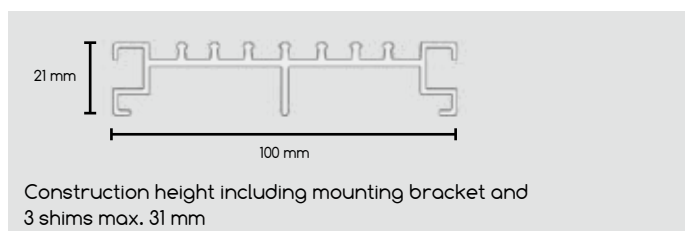
Specially for use at door and window jambs. Complies with regulations for the drainage of roof terraces and balconies. The drainage profile is attached directly to any substructure and is therefore independent of the construction height of the patio.

Product	Part no.	Dimension	Qty. / PU	PU / Box
Drainage and ventilation profile silver (E6EV1) anodised	7409	150x21x1900 mm	1 Pc.	6
	7410	150x21x3000 mm	1 Pc.	30
	7455	150x26x1900 mm	1 Pc.	6
	7456	150x26x3000 mm	1 Pc.	30

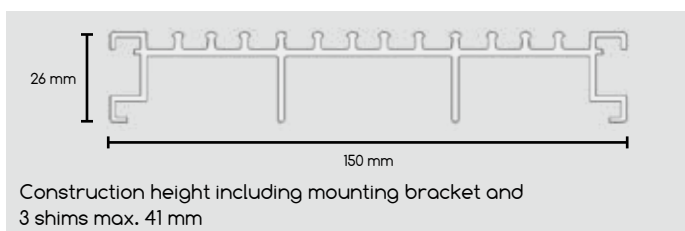
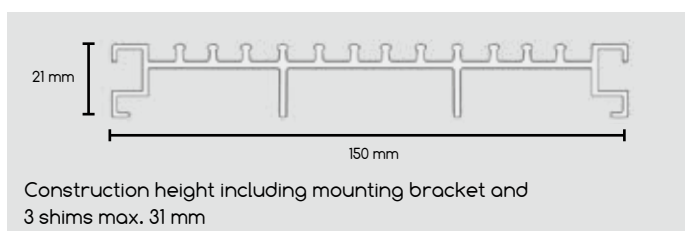
i Distance between mounting clamps max. 60 cm



NEW!



NEW!



Drainage and ventilation profile Pro 100 mm

The carefully designed profile ensures exceptional protection against splashing water and rainwater. The stable and finely slotted 100 mm Pro drainage profile is ideal for use at the junction of the patio with the house wall and can be fixed directly to the substructure with mounting brackets.

Product	Part no.	Dimension	Qty. / PU	PU / Box
Drainage and ventilation profile Pro silver (E6EVI) anodised	7645	100x21x1900 mm	1 Pc.	6
	7646	100x21x3000 mm	1 Pc.	30
	7643	100x26x1900 mm	1 Pc.	6
	7644	100x26x3000 mm	1 Pc.	30

i Distance between mounting clamps max. 60 cm

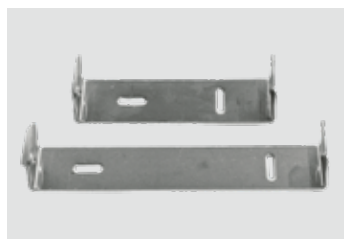
Drainage and ventilation profile Pro 150 mm

The Pro drainage profile with a width of 150 mm can be used generally and is the professional solution especially for the drainage of door and window jambs of roof terraces and balconies in compliance with the relevant standards.

Product	Part no.	Dimension	Qty. / PU	PU / Box
Drainage and ventilation profile Pro silver (E6EVI) anodised	7640	150x21x1900 mm	1 Pc.	6
	7639	150x21x3000 mm	1 Pc.	30
	7642	150x26x1900 mm	1 Pc.	6
	7641	150x26x3000 mm	1 Pc.	30

i Distance between mounting clamps max. 60 cm

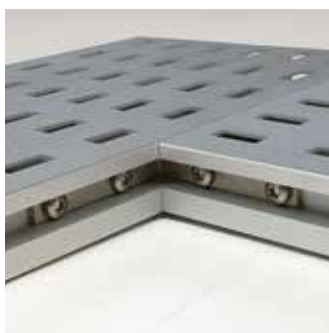
i With a width of 150 mm, the drainage profile fulfils the requirements of the flat roof guideline and forms a regulation-compliant system in conjunction with our patio substructure.



Mounting bracket

The stainless steel mounting bracket can be used for the simple and direct fixing of all drainage profiles to the substructure. Each bracket is supplied with 3 stackable shims, each 3 mm thick, thus providing an installation solution for practically any construction height.

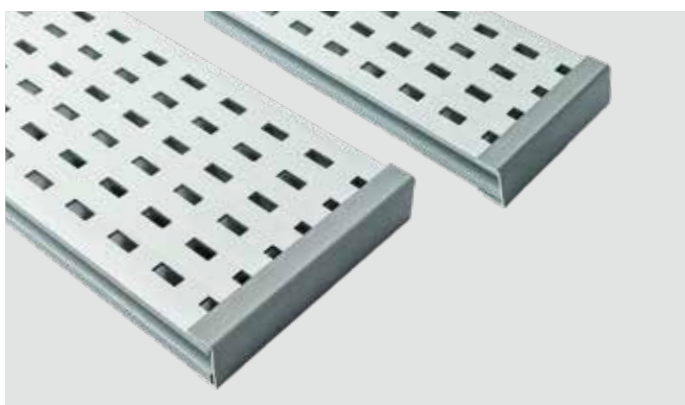
Product	Part no.	Dimension	Qty. / PU	PU / Box
100 mm mounting bracket incl. 3 mm shim	9113	30x15x100 mm Thickness: 1 mm	4 Pcs.	8
150 mm mounting bracket incl. 3 mm shim	9114	30x15x150 mm Thickness: 1 mm	4 Pcs.	8



Corner and longitudinal connector for drainage profile

The connectors provide the drainage profile with a simple and stable longitudinal/corner connection and can be used for both profile thicknesses.

Product	Part no.	Dimension	Qty. / PU	PU / Box
Longitudinal connector for drainage profile	9110	12x2x50 mm	4 Pcs.	8
Corner connector for drainage profile	9109	12x2 mm Limb length: 50 mm	4 Pcs.	8



Cover cap for drainage profile

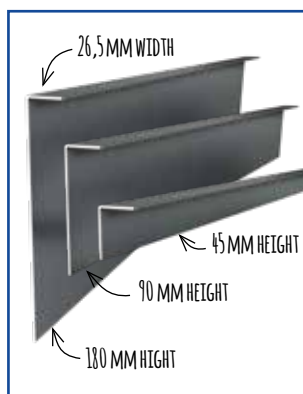
Edge trim for drainage profiles in widths of 100 mm and 150 mm and heights of 21 mm and 26 mm. Screw-free assembly by simple push-fit.

Product	Part no.	Dimension	Qty. / PU	PU / Box
Cover cap 100 for drainage profile 21 mm	7623	19,9x25,45x100 mm	2 Pcs.	8
Cover cap 100 for drainage profile 26 mm	7624	19,9x30,4x100 mm	2 Pcs.	8
Cover cap 150 for drainage profile 21 mm	7518	19,9x25,45x150 mm	2 Pcs.	8
Cover cap 150 for drainage profile 26 mm	7519	19,9x30,4x150 mm	2 Pcs.	8



Drainage profiles for connections to door/
window elements on page 20.

BASEDECK
Die günstige Alternative



Basic side panel

Basic side panel for a visually appealing and affordable finish to the patio deck. Fastening via S-Fix, S-Fix SMART, Edge-Fix, Wall-Fix T profile, facing holder 180 or facing holder 239.

Product	Colour	Part no.	Length	Qty. / PU	PU / Box
Basic side panel 45 mm	RAL 9007	7394	1900 mm	1 Pc.	8
		7397	3000 mm	1 Pc.	25
	RAL 7016	7630	1900 mm	1 Pc.	8
		7631	3000 mm	1 Pc.	25
Basic side panel 90 mm	RAL 9007	7395	1900 mm	1 Pc.	8
		7398	3000 mm	1 Pc.	25
	RAL 7016	7632	1900 mm	1 Pc.	8
		7633	3000 mm	1 Pc.	25
Basic side panel 180 mm	RAL 9007	7396	1900 mm	1 Pc.	8
		7399	3000 mm	1 Pc.	25
	RAL 7016	7634	1900 mm	1 Pc.	8
		7635	3000 mm	1 Pc.	25



Variable side panel



A high-quality side panel made of structurally powder-coated aluminium without the necessity of fixing it to the ground. Provides edge protection and can easily adapt to slopes. Heights 69-113 mm or 106-149 mm.

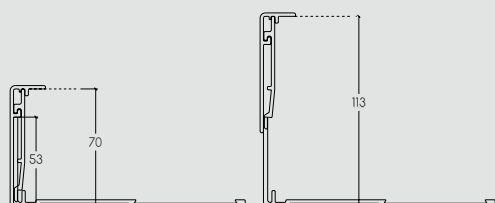
Product	Part no.	Length	Qty. / PU	PU / Box
Variable side panel 69 - 113 mm, RAL9007	7370	1900 mm	1	5
	7372	2990 mm	1	20
Variable side panel 106 - 149 mm, RAL9007	7371	1900 mm	1	5
	7373	2990 mm	1	20



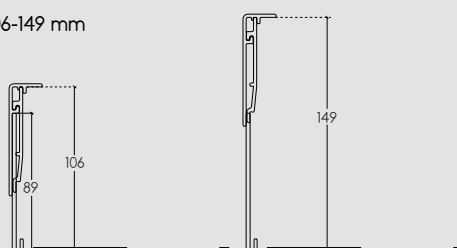
Advantages:

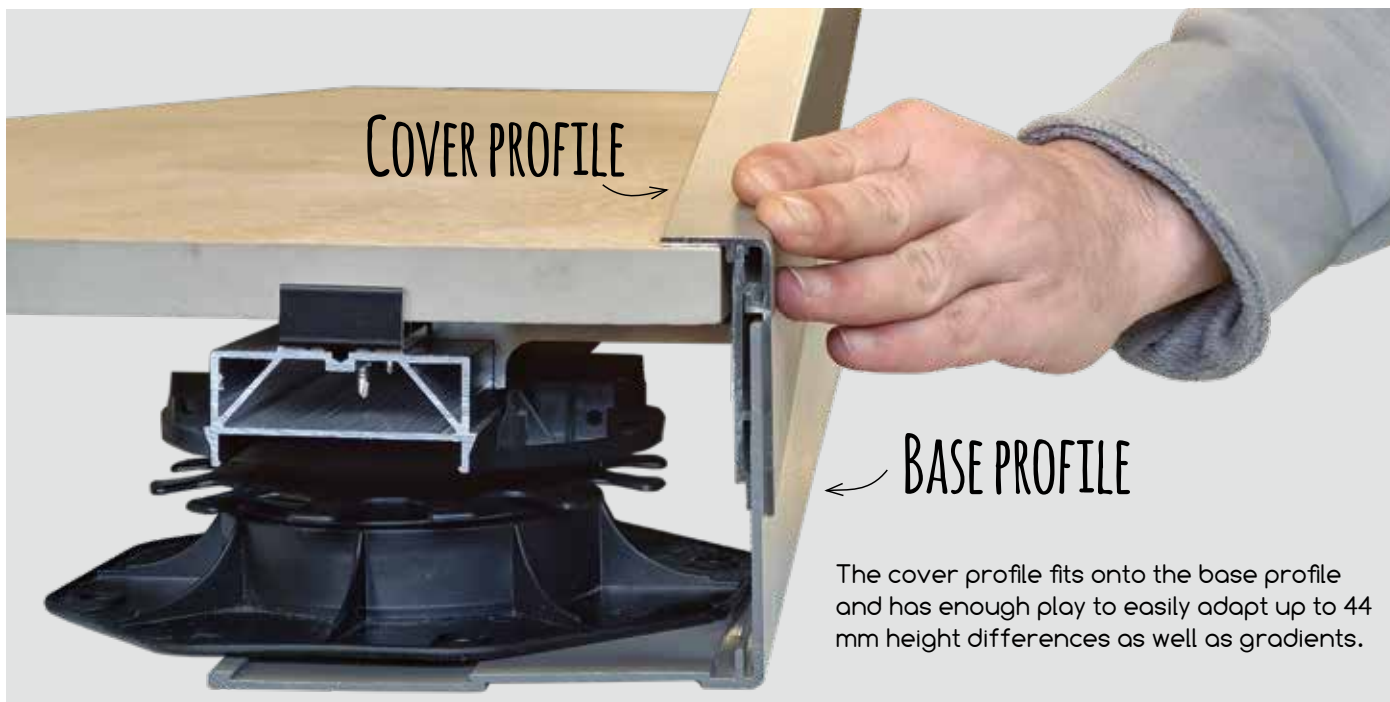
- ✓ No time-consuming cutting of a side plate or ceramic tiles necessary
- ✓ Height adjustment up to 44 mm
- ✓ Easy adaption to gradient
- ✓ Edge protection for deckings

69-113 mm



106-149 mm





Variable side panel in application

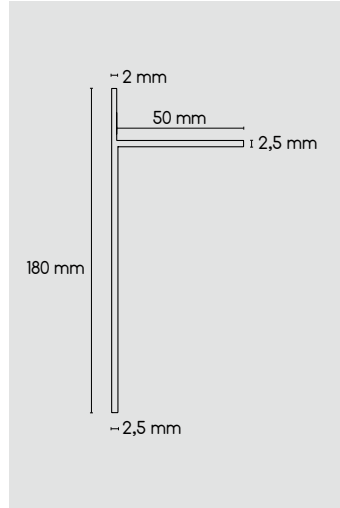


Variable side panel on plane ground



Variable side panel on a gradient





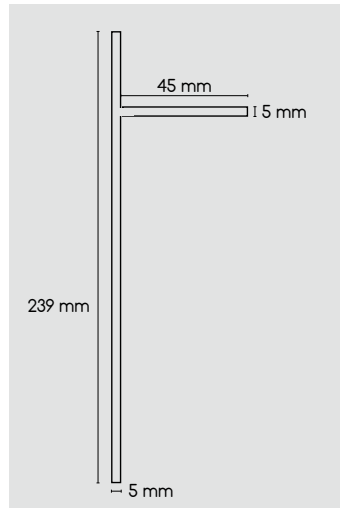
Facing holder 180

The facing holder serves as an ideal aid for cladding the end side of the patio with an attractive board profile for construction heights up to 180 mm. Thanks to the simple connection to every second aluminium substructure (max. spacing 600 mm), the side cladding can be attached independently of the substrate.

Product	Part no.	Dimension	Qty. / PU	PU / Box
Facing holder 180	7420	40x50x180 mm	4 Pcs.	8

Advantages:

- ✓ Simple cladding of construction heights Up to 180 mm
- ✓ Installation independent of base
- ✓ suitable for all our CLIP rails



Facing holder 239

The material thickness of 5 mm means that the facing holder can clad the side of an even higher construction height of up to 239 mm. For an attractive cladding solution, the board profile is simply visibly screwed to the facing holder. The facing holder can be securely and safely fixed to the substructure with the improved CLIP rail adapter (max. spacing 800 mm).

Product	Part no.	Dimension	Qty. / PU	PU / Box
Facing holder 239	7616	40x45x239 mm	4 Pcs.	8

Advantages:

- ✓ High stability due to 5 mm material thickness
- ✓ Side cladding possible up to a construction height of 239 mm
- ✓ Improved adapter for fixing the facing holder
- ✓ Installation independent of substrate
- ✓ Suitable for CLIP rails



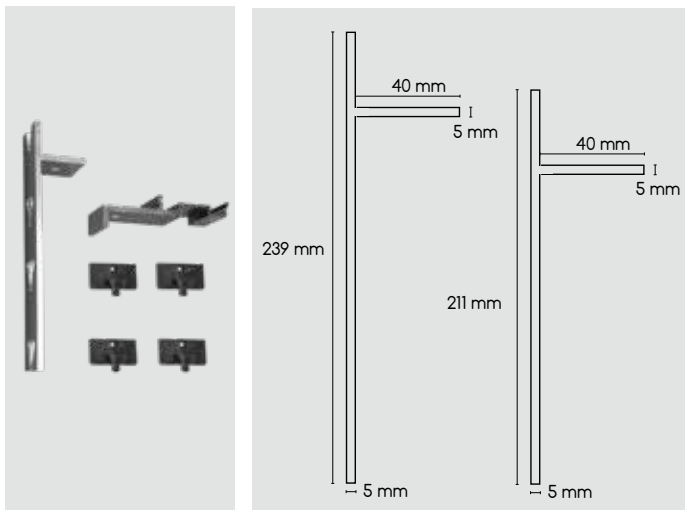
CLIP facing holder

The special technology with separate fasteners enables board profiles to be installed in widths of 120 – 140 mm for cladding a patio without visible screw fixings. Thanks to the catch mechanism of the fastener in the holder, the cladding can be simply installed and dismantled with very little effort.

Product	Part no.	Dimensions	Qty. / PU	PU / box
CLIP 120 facing holder	7612	40x40x211 mm	4	8
CLIP 140 facing holder	7613	40x40x239 mm	4	8

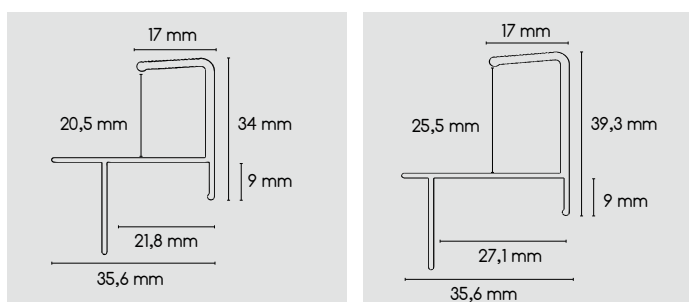
Advantages:

- ✓ Concealed fixing of cladding
- ✓ Easy installation and removal
- ✓ Suitable for board profiles of 120 – 140 mm
- ✓ Installation independent of substrate
- ✓ Suitable for CLIP rails

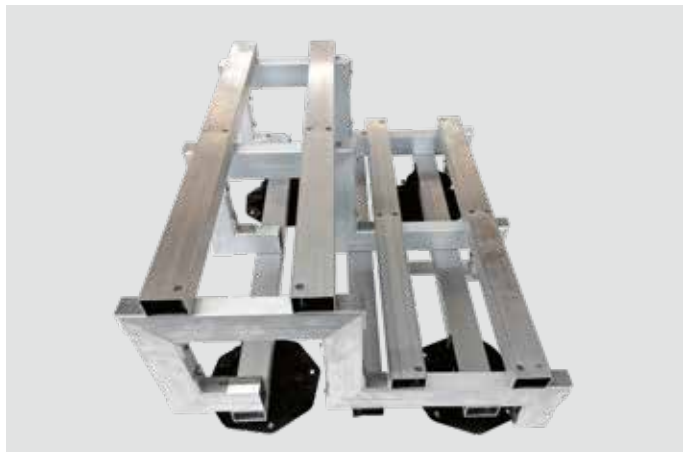


Cover rail

Our cover rail is a simple and visually appealing solution for closing off the edges of WPC or therm. modified wood decks. The TERRACON® product range includes two versions of the end rail: for boards with thicknesses of 20-21 mm and 25-26 mm. These considerably simplify the fixing of the decking fascia. The rilled upper surface gives it a non-slip finish, making it suitable as a stair nosing.



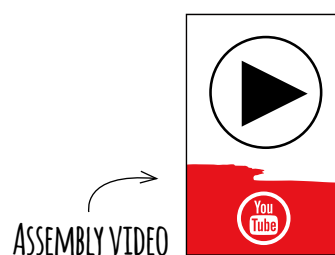
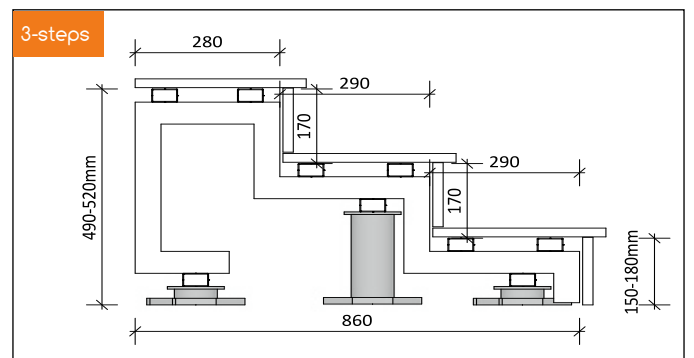
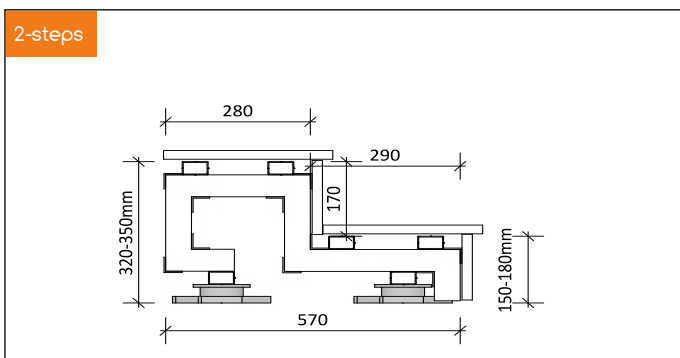
Product	Part no.	Dimension	Board thickness	Qty. / PU	PU / Box
aluminium cover rail silver anodised (E6EV1)	7506	2x35,6x46,9x1900 mm	20-21 mm	1 Pc.	6
	7507	2x35,6x46,9x4000 mm	20-21 mm	1 Pc.	6
	7508	2x35,6x52,2x1900 mm	25-26 mm	1 Pc.	6
	7509	2x35,6x52,2x4000 mm	25-26 mm	1 Pc.	6



Aluminium system steps for ceramic tiles

Kit with pre-installed stair stringers. The construction including decking support pads is intended for bonding to tiles as the decking covering. Patio tiles are not included.

Product	Part no.	Dimension	Qty. / PU	PU / Box
Aluminium system steps for ceramic tiles, 2- steps	7020	730x322x576 mm Width: 850 mm	1	1
Aluminium system steps for ceramic tiles, 3- steps	7021	730x492x866 mm Width: 850 mm	1	1
2-step mounting kit – tiles	7044		310 ml	1
3-step mounting kit – tiles	7045		2x 310 ml	1



Advantages:

- ✓ Construction consisting of aluminium profiles for a stable structure
- ✓ Easy to compensate for unevenness on the substrate
- ✓ Kits: 2- and 3-step modules with pre-installed stair stringers
- ✓ Variable width adjustment

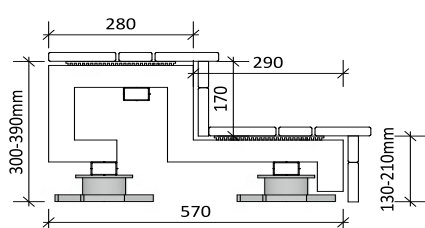


Aluminium system steps for decking boards

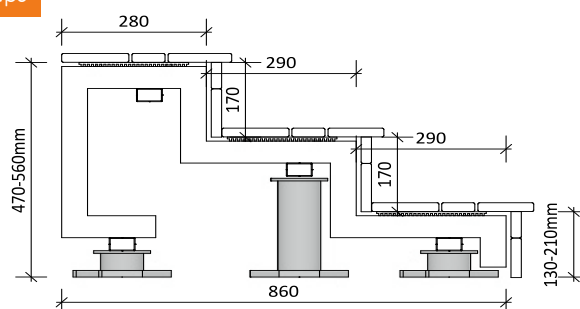
Kit with pre-installed stair stringers. The construction including decking support pads and system rails is intended for installing boards as the decking covering. Patio decking boards are not included.

Product	Part no.	Dimension	Qty. / PU	PU / Box
Aluminium system steps for decking boards, 2- steps	7018	730x322x576 mm Width: 850 mm	1	1
Aluminium system steps for decking boards, 3- steps	7019	730x492x866 mm Width: 850 mm	1	1

2-steps



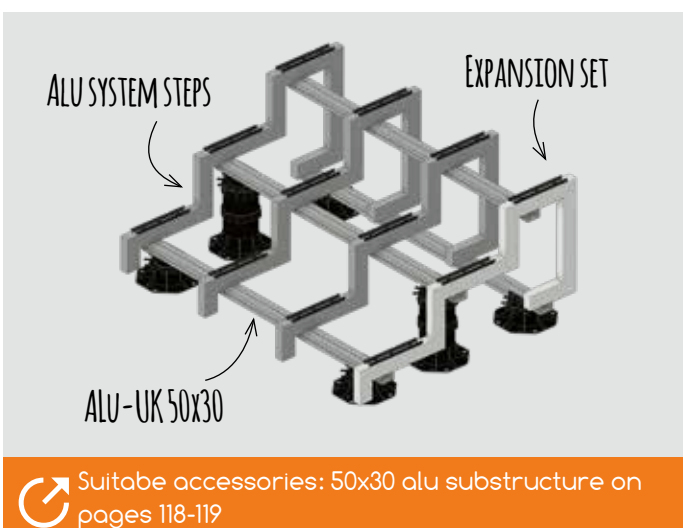
3-steps



Side panel for aluminium system steps

The side panel made from opaque HPL for our aluminium system steps can be used on both sides and gives the installed steps an appealing look.

Product	Part no.	Dimension	Qty. / PU	PU / Box
Side panel, 2-steps	7036	351x576 mm	1	1
Side panel, 3-steps	7037	521x866 mm	1	1



Expansion set for alu system steps

Individual pre-installed stair stringer to expand the standard aluminium system steps including decking support pad and system rail. The expansion set is available in a 2- and 3-step version for tiles and boards.

Product	Part no.	Dimension	Qty. / PU	PU / Box
Expansion set planks, 2-steps	7038	322x576 mm	1	1
Expansion set planks, 3-steps	7039	492x866 mm	1	1
Expansion set patio tiles, 2-steps	7040	322x576 mm	1	1
Expansion set patio tiles, 3-steps	7041	492x866 mm	1	1

 Suitable accessories: 50x30 alu substructure on pages 118-119



CARE

Weather influences, weed or plant growth are responsible for various stresses and contaminations of the patio. Regular cleaning and care are therefore necessary to maintain the durability and appearance of the planks in the long term.

With our appropriate care products, dirt can be treated and removed from almost any patio covering.

Decking boards TERRACON® thermo WPC 137 walnut



Advantages:

- ✓ Preserving the durability
- ✓ Effective cleaning and care
- ✓ All products are coordinated





Special cleaner (Reviver)

The cleaner, which is enriched with oxalic acid, is particularly suitable for use with heavy discolouration and on weathered and greyed wooden boards. After application, the wooden boards will regain their original warm colour and natural character.

Product	Part no.	Use for	Coverage	Qty. / PU	PU / Box
Special cleaner (Reviver)	7200	Wooden boards	10-50 m ²	1 litre	6

Advantages:

- ✓ Refresher and cleaner for the natural character of wooden boards
- ✓ Original warm colouring of the wooden board reappears
- ✓ Odourless
- ✓ Biodegradable



WPC waterproofing

The WPC waterproofing is a solvent-free, colourless waterproofing medium, suitable for any WPC surface. Manufactured from all natural oils, the product waterproofs WPC open-pored surfaces, making them waterproof and increasing their durability against UV radiation. An application is recommended after each major cleaning of the decking boards or when installing the decking at an unfavourable location contingent on weather (such as the shady side of the house).

Product	Part no.	Use for	Coverage	Qty. / PU	PU / Box
WPC waterproofing	7189	WPC boards	8-16 m ²	0,75 litre	3

Advantages:

- ✓ Increases durability against UV rays
- ✓ Impregnates the WPC surface open-pored
- ✓ Weatherproof



Cleaner in overview on page 211



WPC cleaner EXTRA

The special cleaning agent for extra strong cleaning. Especially suited for stubborn dirt and oil and grease stains that cannot be removed during normal cleaning.

Product	Part no.	Use for	Coverage	Qty. / PU	PU / Box
WPC cleaner EXTRA	7387	WPC boards	150-200 m ²	1 kg	4

Advantages:

- ✓ For extra intensive cleaning with active oxygen
- ✓ Makes the original colour visible again



Protective wax for the ends of wooden boards

The wax is applied to the end grain end of the boards, thus prevent bleeding, reducing shrinkage and cracking, and it is easy to use and features high weather and UV resistance. For hardwood and softwood patio decking.

Product	Part no.	Use for	Coverage	Qty. / PU	PU / Box
Protective wax	6994	Boards made of hardwood and softwood	up to 400 ends	0,25 litre	16

Advantages:

- ✓ Reduction of cracking and fading
- ✓ Prevents bleeding of tropical woods
- ✓ Water-repellent
- ✓ Weatherproof and UV resistant



Planex weed fleece

The weed fleece is placed on top of the prepared substrate in order to prevent unwanted vegetation from growing below the deck. The fleece is a perfect weed stopper, while remaining water-permeable. In addition, the neutral black colour is concealed by the substrate of the deck.

Product	Part no.	Dimensions	Qty. / PU	PU / Box
Weed fleece	6851	10x1,5 m	1 Pc.	10
Weed fleece	9064	50x1,5 m	roll	4

Advantages:

- ✓ Prevents weeds* from growing below the deck
- ✓ Water permeability

* Except horsetail and similar aggressive weeds.

ELEVATO® PRIVACY SCREEN

Design your privacy screen individually and uniquely! The elevato® system offers you an almost infinite number of possible combinations of different colours and materials such as HPL, aluminium, corten or stainless steel, giving your screening project that very special design. The use of frosted glass and original stone veneers is also possible and adds stylish accents to any privacy screen system. What's more, installation is quick and easy.

CHECK OUT OUR CURRENT
CATALOGUE "PRIVACY SCREEN"



Elements in light grey with decor Lugo



Advantages:

- ✓ Extensive selection of standard elements
- ✓ Many individual design options
- ✓ Numerous colours and materials can be freely combined with each other
- ✓ Quick and easy installation
- ✓ Customised products at affordable prices
- ✓ Maintenance-free



Quality made in Germany

HPL (High Pressure Laminate) from Resopal meets all the requirements for modern and contemporary privacy screens in a quality „made in Germany“ and the many decades of experience in the field of façade technology are what gives the material its incomparable properties.

- ✓ Impact and break resistant
- ✓ UV and weather-resistant surfaces
- ✓ Frost, hail and rot proof
- ✓ Graffiti repellent
- ✓ Ecologically friendly raw materials (use of PEFC-certified wood)

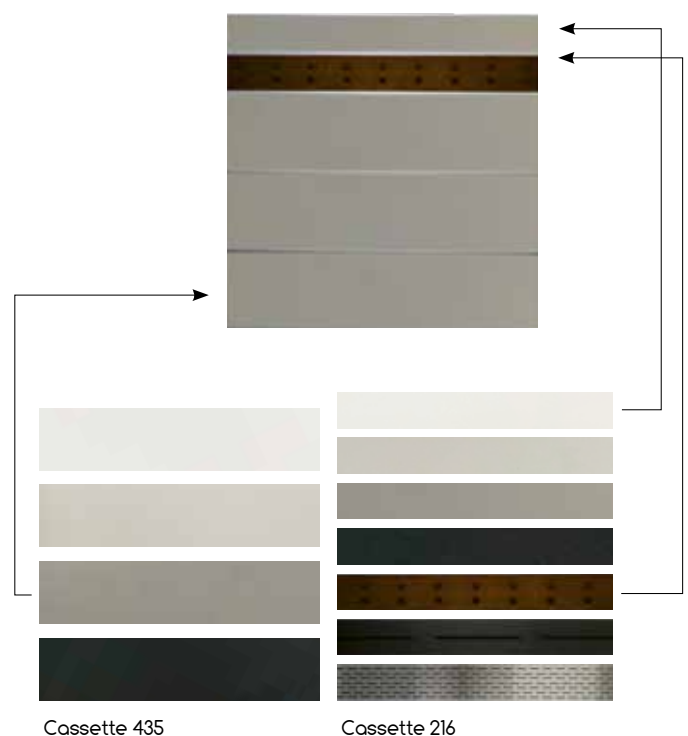
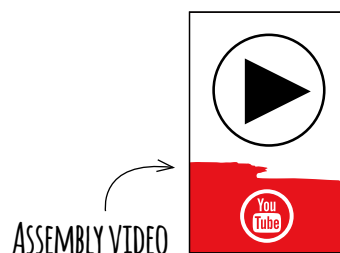




elevato® Privacy screen – product mix made of HPL

The product combinations of HPL with cassettes in powder-coated chestnut aluminium, Corten and stainless steel give every privacy screen its very special flair and offer individual design choices for anyone's taste. The matching décor elements in metal, stone veneer or glass complete the range perfectly.

- Extensive selection of standard elements
- Many individual design options
- Numerous colours and materials can be freely combined with each other
- Quick and easy installation
- Customised products at affordable prices
- Low-maintenance surfaces

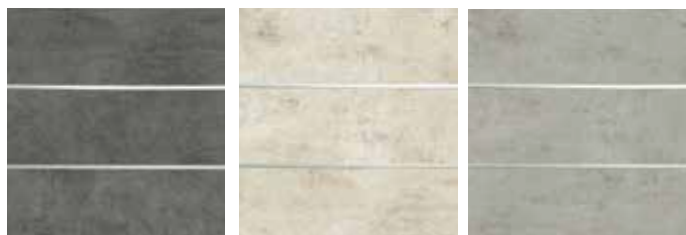




elevato® Privacy screen made of ceramic

The ceramic privacy screen sets new standards in garden design. Thereby, the over decades proven material of the privacy screen can be perfectly combined with the new patio tiles of the **Columbia** series. Depending on the chosen colour combination, the matching decors create a beautiful contrast or a harmonious play of colours. The privacy screen decors are available in a thickness of 13 mm that consists of 2x6 mm ceramic and an integrated safety fabric.

- Available as standard elements in 3 different colours
- As a modular system for individual design
- Material: 13 mm ceramic



Columbia graphite

Columbia sand

Columbia grey





Privacy screen with decors in stainless steel and stone



White elements with planter wall

Decorative elements

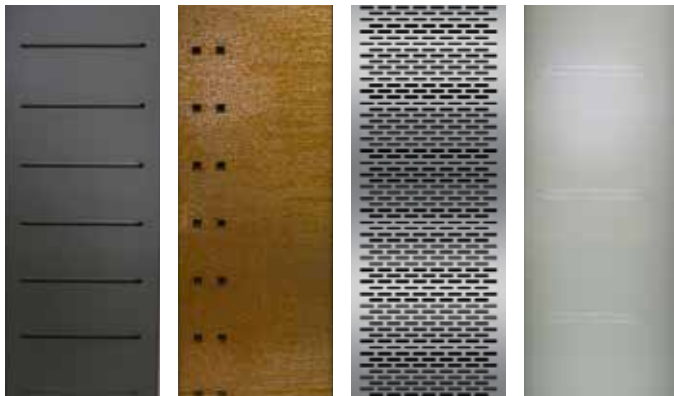
The decorative elements add stylish accents to any privacy screening system. The selection of materials ranges from aluminium, stone veneer, corten and stainless steel, frosted glass to planter wall and trellis.

- Numerous materials and colours
- Can be combined with HPL screening elements
- Weather-resistant: frost proof and hail proof
- Maintenance-free

Planter wall / Trellis

The new elevato® plant wall adds natural accents to any privacy screen. It can be combined with the standard privacy screen elements, but is also a highlight on its own. Many things are possible when it comes to planting - for example, as a decorative play of colours with flowers or as a useful raised bed. The planting wall consists of 10 shelves with each 4 plantable compartments.

The new trellis is another option for adding a lively touch to your privacy screen with plants. The white HPL trellis is a beautiful contrast to the colourful climbing plants.



powder-coated aluminium
"chestnut"

Corten steel

Stainless steel

Frosted glass



Trellis



Planter wall



Screening fence in white and anthracite



Door in white with aluminium "chestnut"

Fences and end elements

The fences complement the elevato® privacy screens. There is the option of choosing from numerous standard elements or creating your own favourite from the modular system. You can also combine the proven product combinations of HPL and metal.

The elevato® end element was developed for the seamless transition from privacy screen to fence. The end element can also be used as a connection to the house with an adjacent fence.



Fence and end element

Door and double gates

The frames and hinge profiles of the elevato® door and double gates are made of powder-coated aluminium and are supplied as a pre-assembled kit. Due to the extremely stable construction, a diagonal brace is not necessary. This gives the door an attractive appearance from both sides.

- Door frame and hinge profiles made of powder-coated aluminium profiles
- Without diagonal struts for an attractive appearance from both sides
- Door is supplied pre-assembled
- different choices for accessories



Handle set aluminium



Handle set powder coated



TERRACE ROOFING MADE OF ALUMINIUM

Karle & Rubner roofing systems made of aluminium feature an elegant design, impressive extension options, high product quality and reasonable pricing! Powder-coating makes the profile perfectly weatherproof and therefore maintenance free! The roof consists of glass or Polycarbonate web-panels, depending on the model. A number of versions, the option of customisation, and the many RAL colours available make our roofing systems a visually appealing and individual solution.

CHECK OUT OUR CURRENT
CATALOGUE "ROOFING"



Roofing PRIMELINE



Roofing PRIMELINE



Roofing SUPREME

Advantages:

- ✓ Elegant design
- ✓ Maintenance-free
- ✓ Individual design possibilities
- ✓ Roofing for various requirements
- ✓ Many expansion options
- ✓ 10 years warranty of roof, aluminium profiles and coatings



Roofing SUPREME



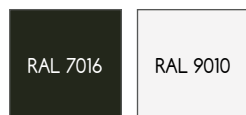
SMARTLINE

The SMARTLINE patio roofing is an economical alternative to our range of roofing products. It is available and delivered in prefabricated grid dimensions (width/depth). The kit solution allows SMARTLINE to be set up quickly and easily in simple steps. The roofing has a standard roof pitch of 8° as well as water drainage integrated into the post, thus making it invisible.

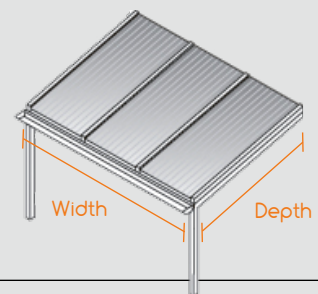
Advantages:

- ✓ Roof coverings: Polycarbonate 16 mm or 8 mm glass roof (laminated safety glass)
- ✓ Water drainage integrated invisibly into the post
- ✓ Distance profile as optional accessory

Colours:



SMARTLINE Dimensions



SMARTLINE with Polycarbonate

Width: 3 m - 6 m

Depth: 2,5 m to 4 m

(Modular sizes – custom sizes are not possible)

SMARTLINE with glass roof

Width: 3 m - 6 m

Depth: 2,5 m to 3,5 m

(Modular sizes – custom sizes are not possible)





PRIMELINE

PRIMELINE is terrace roofing with a simple construction made from high-quality powder-coated aluminium, which has its place on every house facade or masonry due to its variable roof pitch and dimensionally accurate adaptation. The facing profile of the visible rain gutter is optionally available in different profile shapes to visually add an individual accent as desired. The water drain is located inside the post and is therefore not visible from the outside, so that the look of the roofing is not impaired.

Advantages:

- ✓ Variable roof pitch 5-15°
- ✓ Optional trim (round, classic)
- ✓ Water drainage integrated into the post - not visible
- ✓ Custom sizes available
- ✓ Roof coverings: Polycarbonate 16 mm (4 types) or 8 mm glass roof (VSG)
- ✓ Gutter and wall connector made in one piece (up to 7.95 m in width)



Colours:

RAL 9016	RAL 7016	RAL 9010	RAL 9007
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PRIMELINE Dimensions

PRIMELINE with Polycarbonate
Width: from 3 m any dimension is possible
Depth: 2 m to 5 m - any dimension is possible

PRIMELINE with glass roof
Width: from 3 m - any dimension is possible
Depth: 2 m to 4 m - any dimension is possible

For depths over 4 m (Polycarbonate) / 3,5 m (glass), internal rafters are supplied with reinforcement profiles.



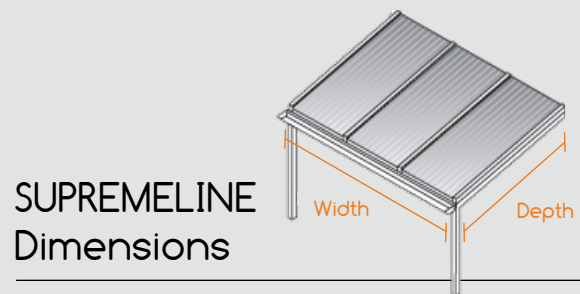


SUPREME LINE

The striking gutter profile and a thicker post dimension give SUPREME LINE an extremely stable appearance and significantly increase the post spacing for extensive roofs. This ensures a clear view of the garden and its surroundings, even with larger roof widths (up to 7 m with two posts). Like the PRIMELINE series, SUPREME LINE also impresses with its simple construction, variable roof pitch, integrated water drainage in the post and dimensionally accurate adjustment.

Advantages:

- ✓ Stable gutter design: only two posts required for 7 x 2.5 m
- ✓ Variable roof pitch 5-15°
- ✓ Water drainage integrated into the post - not visible
- ✓ Tidy appearance thanks to spacer profiles between the rafters
- ✓ Roof coverings: Polycarbonate 16 mm (4 types) or 8 mm glass roof (VSG)
- ✓ Gutter and wall connector made in one piece (up to 7 m in width)



SUPREME LINE Dimensions

SUPREME LINE with Polycarbonate

Width: from 3 m any dimension is possible

Depth: 2 m to 5 m - any dimension is possible

SUPREME LINE with glass roof

Width: from 3 m any dimension is possible

Depth: 2 m to 4 m - any dimension is possible

For depths over 4 m (Polycarbonate) / 3,5 m (glass), internal rafters are supplied with reinforcement profiles.



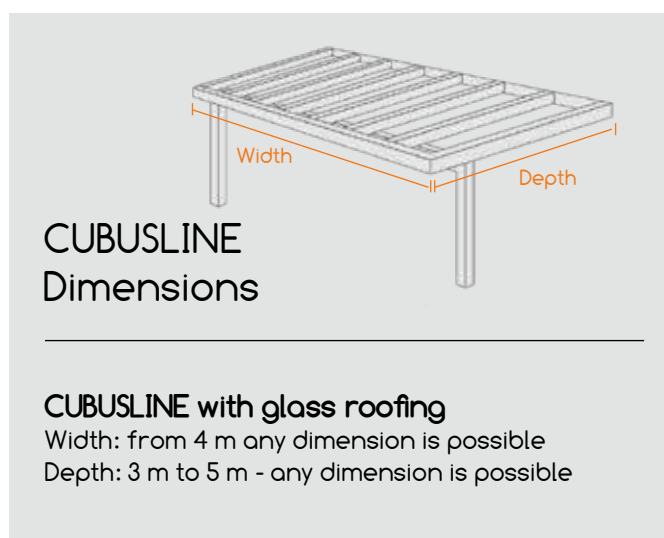
Colours:

RAL 9016	RAL 7016	RAL 9010	RAL 9007
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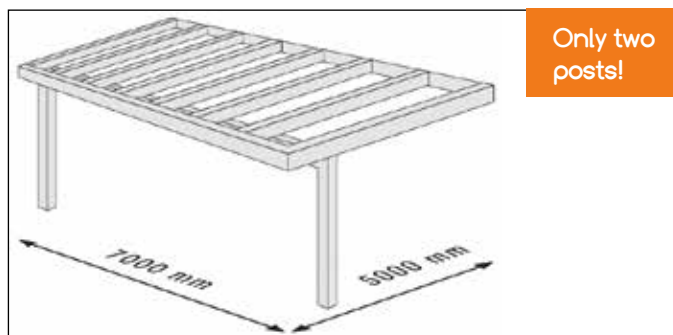
CUBUSLINE

Strong and visually appealing. The terrace roofing that combines stability and elegance into a high-quality addition to your home. The unique design of CUBUSLINE results from the invisible roof pitch and a variable roof overhang, which also allows a roof depth of up to 5 m with a glass covering. Only two posts are required over a width of 7 m thanks to the special design with reinforced profiles. Special connectors and cover strips give CUBUSLINE a screw-free appearance with no visible fixing points.

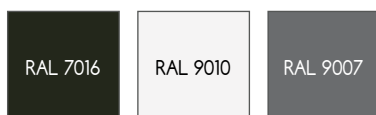


Advantages:

- ✓ Post spacing up to 7 m
- ✓ Very high roof load thanks to reinforced profiles
- ✓ Unique flat roof design without visible roof pitch
- ✓ Various roof overhangs are possible



Colours:



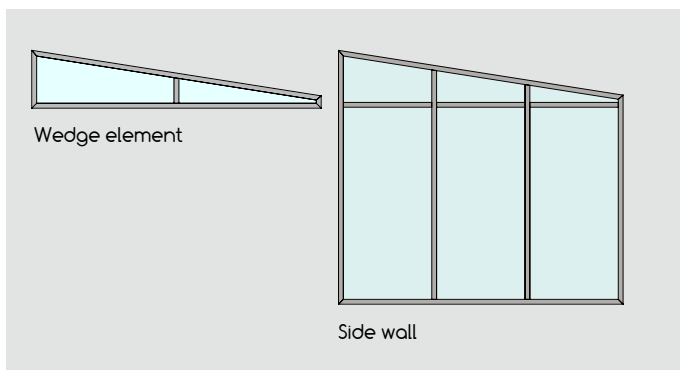


Side elements

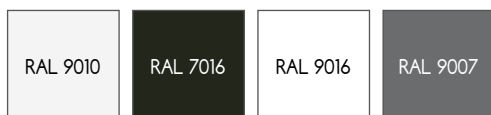
Various side walls as an addition to the roofing. The side walls provide protection in bad weather conditions such as rain and wind. The various side panels from aluminium and glass can be individually configured.

Choices:

- Wedge elements
- Side walls
- Sliding elements
- All-glass panorama walls

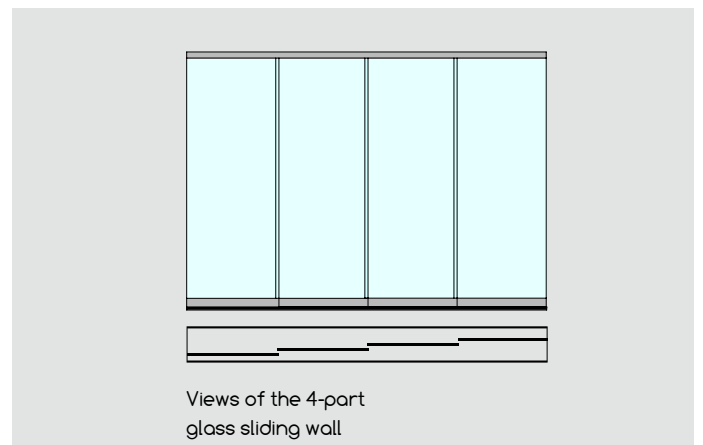


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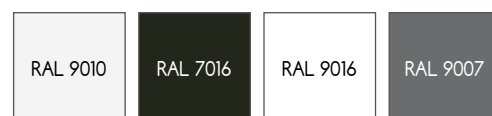


Panoramic sliding walls

The panoramic sliding panel offers unrestricted views. Allowing you to enjoy the view of your garden to the fullest. In addition, the sliding glass wall system protects against rain, dirt and insects.



Colours:



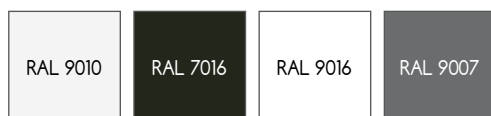


Unheated conservatories

Create a closed space in the outdoor area and enjoy your garden even in poor weather conditions. Using the side and front wall and/or sliding or wing doors, the TERRACON®terrace roofing is converted to an „unheated conservatory“ in three steps.



Colours:



Awnings & Vertical awnings

Sit comfortably in the shade and enjoy the summer! Our awnings will give your house a colourful appearance, plus offer a modern look and ideal protection against sun and rain.

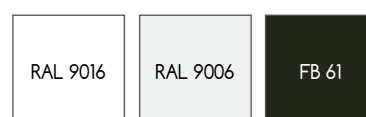
They are available in various colours, sizes and materials, all resistant to whatever weather conditions might come along.

Advantages:

- ✓ Box and rail profiles made from extruded aluminium
- ✓ Special RAL paint finishes are possible
- ✓ Large selection of materials and colours



Colours:



INFORMATION AND OVERVIEWS

We have compiled technical information and product data in a clear arrangement for you. These information blocks, including overviews, allow you to find everything at a glance:

- Which fastener fits which decking board?
- Which amount of fasteners do I need for the project?
- Which aluminium substructure has the necessary static requirements?
- What are the differences between the various planks or aluminium substructures?
- Which screw do I use where?

You can find all this information and much more on the following pages.

Verlegung von WPC Dielen Piazza Or auf einer Alu-Unterkonstruktion mit

Die Gestaltung der Terrasse sollte vorab festgelegt werden, da der Ausgestaltungsmuster abhängig ist. Um den Reinigungseffekt des Regens die Terrassenplatten in Abtriebsrichtung des Wassers mit einer Neigung für ein optisch ansprechendes Endergebnis empfehlen wir, die Dielen kappen. Vor dem Zuschnitt und der Verlegung ist darauf zu achten, Bedingungen (u.a. Temperatur) auf Maß gekippt und entsprechend

Die Vorgaben und technischen Hinweise dieser Montageanleitung. Bei der Planung sollten schwere Gegenstände wie große Blumenkäse die Abstände zwischen den Unterkonstruktionsschienen in diesen B werden.

Bei Balkonen oder Dachterrassen können Konstruktionen in der R werden. Daher sollte die Unterkonstruktion als festes Rahmenwerk Eine solche Verlegart ist die Konstruktion mit Konterlattung, die i

Material:



BIG-TWIXT Isotop
Alu-Schienen mit hoher statischer Belastbarkeit. Werden in Terrassenlager-CLIP geklickt.



Terrassenlager-CLIP
millimetergenauer Höhen- und Gefälleausgleich (bis zu 8%) mit hoher Tragfähigkeit.



Längsverbinder
ermöglicht eine verschö-
b-optimierte Verlängerung
der Alu-UK.



Terasseflex
für die unsichtbare Befesti-
gung von Dielen mit NAIL.



Terasseflex
für die unsichtbare Befesti-
gung von Dielen mit NAIL.

SCHNELLER GEHT

Querausicherung der Konstruktion


Verlegung der äußeren Schiene

Schienen geschraubt - d



hängen darf






Overview of decking boards made from thermally modified woods

	Thermo ash	Thermo pine
		
Profile	20 x 115 mm 1-sided	26 x 140 mm and 26 x 118 mm 1-sided
Product	Solid board with groove	Solid board with groove
Material	Thermally modified wood	Thermally modified wood
Country of manufacture	Estonia	Finland
Colour change	Greying	Greying
Applications	Private and commercial areas	Private and commercial areas
Max. spacing of the substructure	Private: 40 cm / commercial: 30 cm	Private: 40 cm / commercial: 35 cm
Fire class	D-s2,d0 (according to EN 13501-1)	D-s2,d0 (according to EN 13501-1)
De-icing salt can be used	✓	✓
Resistant to chlorinated water*	✓	✓
Resistant to salt water*	✓	✓
0 % slope		
Recyclable (untreated boards)	✓	✓
Dimensionally stable	✓	✓
Heat treated	✓	✓
Durability class	1	2


*Over the long term, chlorine and salt (normal pool concentration) can crystallise on the surface. For this reason we recommend regular cleaning with fresh water. Under these conditions, A4 screws should be used for the installation. The tests that were carried out were short-term tests. The long-term effect of chlorine and salt on the floorboards has not been tested.

Thermo ash Qlick	Thermo pine Qlick	Kebony Clear Qlick
		
20 x 115 1-sided	26 x 140 mm and 26 x 118 mm 1-sided	22 x 118 mm 1-sided
Cambered solid board with groove on underside	Cambered solid board with groove on underside	Cambered solid board with groove on underside
Thermally modified wood	Thermally modified wood	Kebonized wood
Germany and Austria	Denmark	Norway and Belgium
Greying	Greying	Greying
Private and commercial areas	Private and commercial areas	Private and commercial areas
Private: 40 cm / commercial: 30 cm	Private: 40 cm / commercial: 35 cm	Private: 40 cm / commercial: 35 cm
B2 (according to DIN 4102-1)	D-s2,d0 (according to EN 13501-1)	E (according to DIN EN 13501-1) B2 (according to DIN 4102-1)
	✓	✓
	✓	✓
	✓	✓
✓	✓	✓
✓	✓	✓
✓	5-6 % (dry to wet ratio)	Max. 4 % (dry to wet ratio)
✓	✓	
1	2	1

TERRACON® WPC Boards

	TERRACON® WPC Piazza One	TERRACON® WPC Piazza Pro	TERRACON® WPC Piazza Pro QCLICK
			
Profile	25x140 mm 1-sided	25x140 mm 1-sided	25x140 mm 1-sided
Product	Solid board with groove	Solid board with groove	Solid board with bottom groove
Material composition	Surface with a high-performance polymer coating PEX and core of cellulose fibres sheathed in recycled polyethylene	Surface with a high-performance polymer coating PEX and core of cellulose fibres sheathed in recycled polyethylene	Surface with a high-performance polymer coating PEX and core of cellulose fibres sheathed in recycled polyethylene
Country of manufacture	Germany	Germany	Germany
Recycling percentage	75 %	75 %	75 %
Colour change	No colour change due to high-performance polymer coating PEX. Colours fade slightly over the years.	No colour change due to high-performance polymer coating PEX. Colours fade slightly over the years.	No colour change due to high-performance polymer coating PEX. Colours fade slightly over the years.
Application	Residential	Residential and commercial areas	Residential and commercial areas
Max. distance of the substructure	Private: 35 cm	Private: 40 cm, commercial: 30 cm	Private: 40 cm, commercial: 30 cm
Fire class	E (according to standard EN 13501-1)	E (according to standard EN 13501-1)	E (according to standard EN 13501-1)
Anti-slip class	Slip-resistant R10 - A+B+C (according to DIN 51130 / DIN 51097)	Slip-resistant R10 - A+B+C (according to DIN 51130 / DIN 51097)	Slip-resistant R10 - A+B+C (according to DIN 51130 / DIN 51097)
De-icing salt can be used	✓	✓	✓
0 % gradient	✓	✓	✓
Oil and grease resistancy	✓	✓	✓
Chlorine water resistant	✓	✓	✓
Salt water resistant	✓	✓	✓
Fully recyclable	✓	✓	✓
Free of cracks and splinters	✓	✓	✓
Dimensionally stable	✓	✓	✓
From recycled materials	✓	✓	✓
Heat treated			

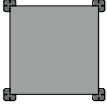
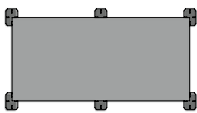
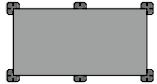
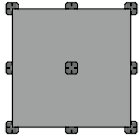
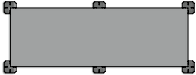
Note: Electrostatic charging of WPC decking is a phenomenon that can occur in warm dry weather. This leads to charges that discharge whenever touching earthed objects, e.g. metal railings. The material of footwear (shoe soles made of rubber and PVC) has a decisive impact on this effect.

TERRACON® WPC 140	TERRACON® WPC Vision CoolDeck	TERRACON® Thermo WPC 137
		
21x140 mm 2-sided	25x137 mm 1-sided	25x137 mm 2-sided
Solid board with groove	Solid board with groove	Solid board with groove
30% food grade PE + 70% pine and spruce wood, UV stabilisers, colour pads Wood fibres = renewable raw materials are 100% PEFC certified	recycled PE + thermally treated oak wood fibres	recycled PE + thermally treated oak wood fibres
Germany	USA	USA
-	95 %	95 %
Colour change: similar to natural product	No colour deviation within 10 years	Brightening/greying up to three months after installation
Residential and commercial areas	Residential and commercial areas	Residential and commercial areas
Private: 40 cm, commercial: 40 cm	Private: 45 cm, commercial: 40 cm	Private: 45 cm, commercial: 45 cm Special conditions: 40 cm
E (according to standard EN 13501-1)	E (according to standard EN 13501-1)	E (according to standard EN 13501-1)
Slip-resistant R11 (tested in accordance with the guidelines of DIN 51130)	Slip-resistant R11 (tested in accordance with the guidelines of DIN 51130)	Slip-resistant R11 (tested in accordance with the guidelines of DIN 51130)
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
	✓	✓
	✓	✓

To avoid this, make sure that metal objects (e.g. handrails) are not in contact with the floor or are made of non-conductive materials such as wood or plastic. This charging characteristic appears less or not at all in high humidity. For more information, see our product data sheets: www.karle-rubner.de




Product	Part no.	Base diameter	Height adjustment	Load capacity Newton / support feet	Load capacity kg / support feet	Use for	Features
 Decking support feet standard	7206	190 mm	25 - 40 mm	7.982	814	Any aluminium substructure	Maximal bearing surface: 85 mm
	7242	190 mm	35 - 70 mm	8.149	831		
	7243	190 mm	65 - 155 mm	8.228	839		
	7244	190 mm	145 - 225 mm	11.718	1195		
 CLIP Decking support feet	7207	190 mm	25 - 40 mm	7.982	814	CLIP rails	
	7245	190 mm	35 - 70 mm	8.149	831		
	7246	190 mm	65 - 155 mm	8.228	839		
	7247	190 mm	145 - 225 mm	11.718	1195		
 Decking support feet with tile spacer	7208	190 mm	25 - 40 mm	7.982	814	Patio tiles	Bar width: 3 mm Bar height: 16 mm
	7248	190 mm	35 - 70 mm	8.149	831		
	7249	190 mm	65 - 155 mm	8.228	839		
	7250	190 mm	145 - 225 mm	11.718	1195		
Flex / Flex CLIP Decking support feet 	6957			5.935	605	Spiked post holders	
	6967			5.935	605		
 Decking support feet Base	7122	180 mm	40 - 70 mm	5.700	581	Any aluminium substructure	
	7123	180 mm	70 - 130 mm	6.000	611		
	7124	180 mm	130 - 250 mm	6.200	632		
 Decking support feet Base with tile spacer	7190	180 mm	40 - 70 mm	5.700	581	Patio tiles	
	7191	180 mm	70 - 130 mm	6.000	611		
	7192	180 mm	130 - 250 mm	6.200	632		

Required support points when laying ceramic patio tiles

Dimensions of the tile	Support points / tile		Dimensions of the tile	Support points / tile	
600x600x20 mm	4		600x1200x20 mm	6	
450x900x20 mm	6		800x800x20 mm	9	
400x1200x20 mm	6		In general, this information applies to the combination of accessory products with ceramic tiles from the Karle & Rubner range. Otherwise, the manufacturer's specifications for the required support points apply in each case.		

		Part no.	MEGA-Isostep	BIG-Isostep	TWIXT-Isostep	H-Isostep	SMART-Isostep
							
M-Fix		7400 7365	✓	✓	✓		
M-Fix H		7401 7375				✓	
M-Fix SMART		7411 7412					✓
S-Fix		7402 7366	✓	✓	✓		
S-Fix H		7403 7367				✓	
S-Fix SMART		7413 7414					✓
Edge-Fix SMART		7415					✓
Wall-Fix		9106	✓	✓	✓	✓	✓
Longitudinal Wall-Fix profile		7490	✓	✓	✓	✓	✓
Wall-Fix T profile		7489	✓	✓	✓	✓	✓
Variable side panel 69-113 mm		7370 7372		✓	✓	✓	
Variable side panel 105-149 mm		7371 7373	✓	✓	✓	✓	
Variable side panel 45 mm		7394 7397 7630 7631	✓	✓	✓	✓	✓
Basic side panel 90 mm		7395 7398 7632 7633		✓	✓	✓	
Basic side panel 180 mm		7396 7399 7634 7635	✓	✓	✓	✓	




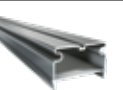

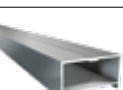



Aluminium substructures in overview

Characteristics	MEGA-Isostep	BIG-Isostep	TWIXT-Isostep
			
Special feature:	Due to the large distances between the pedestal centres, significantly fewer decking support feet must be aligned. In combination with a virtually screwless assembly (CLIP system), the entire substructure can be installed considerably faster. All system rails can be combined with one another.		
Dimensions:	64x95x4000 mm (68 mm incl. latches)	64x45x4000 mm (68 mm incl. latches)	64x30x4000 mm + 64x30x1900 mm (68 mm incl. latches)
Distance between two support points (with a load capacity of 400 kg/m ² and 400 mm spacing):	3000 mm	1100 mm	800 mm
Screw channel:	✓	✓	✓
System rail:	✓	✓	✓
Wall thickness in fixing area:	3 mm	3 mm	3 mm
Coating:	powder coated in RAL 9005	powder coated in RAL 9005	powder coated in RAL 9005
Fire classification:	A1 (according to DIN 4102)	A1 (according to DIN 4102)	A1 (according to DIN 4102)
Screwless attachment to decking support feet possible?	✓ (CLIP System)	✓ (CLIP System)	✓ (CLIP System)
Easy fixing of a 60 x 90 mm Isopad possible?	✓	✓	✓
Does a connector exist for waste-optimised assembly?	✓	✓	✓
Sold in packs:	64 / pallet	64 / pallet	64 / pallet
Part no.:	9103	9101	9100 + 9102

H-Isostep	BASE-Isostep	50x30 Aluminium substructure	SMART-Isostep
			
In addition to the well-known TERRACON® fasteners, the special structure also accommodates mounting brackets from Kosche. It can also be used in conjunction with the CLIP system.	Convenient entry into the aluminium substructure product range. Compared to wooden substructures, the aluminium rails have the advantage that they cannot rot and they have a much higher load capacity and dimensional accuracy.		The perfect solution if only small installation heights are possible, such as on balconies. All system rails can be combined with one another.
64x40,5x3000 mm (68 mm incl. latches)	64,5x35x4000 mm	50x30x3000 mm	40x23x1800 mm + 40x23x3600 mm
750 mm	700 mm	700 mm	400 mm
✓			✓
			✓
2,5 mm	3 mm	1,8 mm	3 mm
non-coated	non-coated	powder coated in RAL 9005 + non-coated	powder coated in RAL 9005
Al (according to DIN 4102)			Al (according to DIN 4102)
✓ (CLIP System)			
✓	✓		no (integrated rubber granulate insert))
✓	✓	✓	✓
64 / pallet	80 / pallet	150 / pallet	10 / pack (1,80 m) 50 / pallet (3,60 m)
7125	6508	7170 + 7171	9105 + 9104

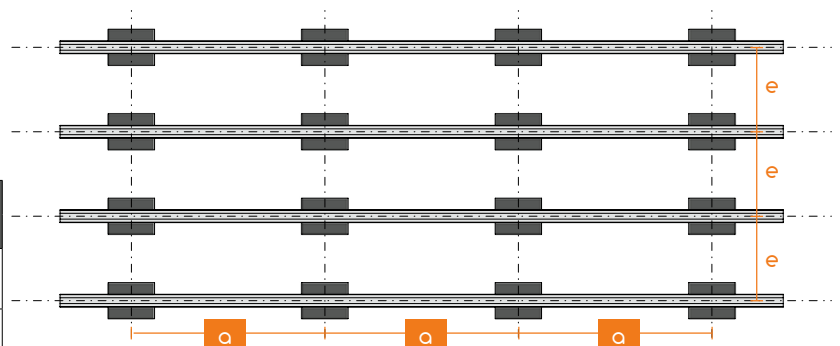
Spacing of the support points of an aluminium substructure

The stated spacings of the support points a in mm are calculated taking into account a deformation limit for a length of 3000 mm in accordance with DIN or a maximum deflection of 4 mm.

		Spacing of support points of aluminium substructures							
		Live load (kN/m ²)	Spacing of the substructure profile e in mm						
			300	350	400	450	500	550	600
			Spacing of the support points of the aluminium substructure a in mm						
	MEGA-Isostep*	2,0	3000	3000	3000	3000	3000	3000	3000
		4,0	3000	3000	3000	3000	3000	3000	3000
		5,0	3000	3000	3000	3000	3000	3000	3000
	BIG-Isostep	2,0	1460	1420	1380	1350	1320	1285	1250
		4,0	1270	1230	1190	1130	1070	1025	980
		5,0	1177	1137	1097	1037	977	932	882
	TWIXT-Isostep	2,0	1020	995	970	945	920	890	860
		4,0	870	845	830	810	790	760	730
		5,0	795	770	755	735	715	685	655
	H-Isostep	2,0	940	915	890	865	840	810	780
		4,0	790	765	750	730	710	680	650
		5,0	686	661	646	626	606	576	546
	SMART-Isostep	2,0	630	590	550	520	490	470	450
		4,0	470	440	410	390	370	340	330
		5,0	410	380	350	330	310	280	270
	BASE-Isostep	2,0	880	855	840	820	800	770	740
		4,0	725	715	700	690	669	659	650
		5,0	635	625	610	600	579	569	560
	ALU-UK 50x30	2,0	880	855	840	820	800	770	740
		4,0	725	715	700	690	669	659	650
		5,0	635	625	610	600	579	569	560
	QLICK Alu-UK	2,0	1000	975	950	925	900	870	840
		4,0	790	765	750	730	710	680	650
		5,0	800	745	690	620	620	595	570
	QLICK Alu-UK light	2,0	560	525	490	465	440	420	400
		4,0	410	380	350	330	310	300	290
		5,0	350	320	290	270	250	240	230

Important: The stated values apply to the laying of decking boards. When laying patio tiles, care must be taken to ensure that the SMART Isostep rail underneath the M-Fix SMART is underlaid with an Isopad.

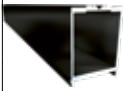


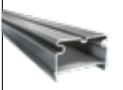

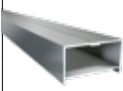
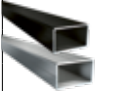


Live load		Field of application
kg / m ²	kg / m ²	
2,0	204	Patios / balconies on a structural concrete slab
4,0	408	Patios, balconies, deck access walkways, loggias and exit platforms in accordance with DIN 1055-3
5,0	510	Public areas



The live load describes the load that can be absorbed per square metre of surface in addition to the dead weight (consisting of covering and substructure/base) until the maximum assumed deflection of the aluminium substructure of 4 mm is reached. Higher live loads may be required for a particular area of the building. These must be taken from the structural design calculations and/or the building permit. Surface load of the covering to the top of the profile (includes the base or substructure of the covering): 0.58kN/m²

Overhang dimension (cantilever) of an aluminium substructure

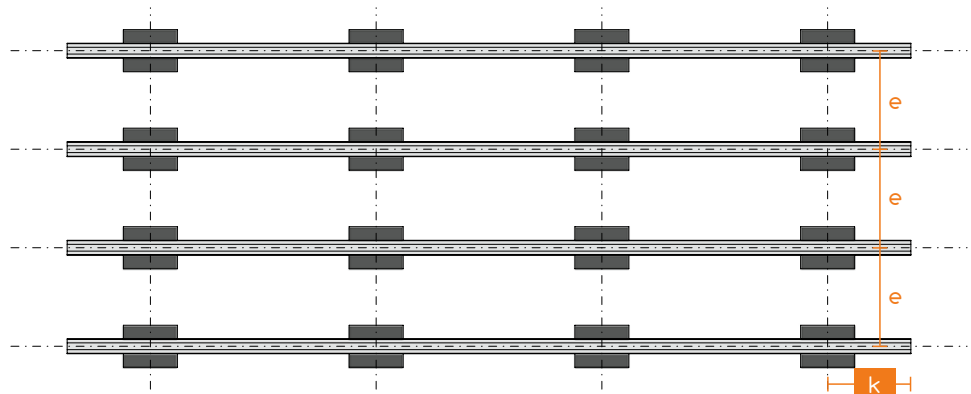
The stated overhang dimensions k in mm refer to the distance from the centre of the support point of the rail to the outside edge of the aluminium substructure. The deformation limit takes into account the length of 3000 mm according to DIN and a maximum deflection of 4 mm. In designs with an overhang dimension (cantilever), it should be noted that lift-off protection may be required for short span lengths.

		Cantilever arm values of the overhang dimension of an aluminium substructure							
		Live load (kN/m ²)	Spacing of the substructure profile e in mm						
			300	350	400	450	500	550	600
			Overhang dimension k of the aluminium substructure in mm						
	MEGA-Isostep	2,0	1100	1100	1100	1030	960	930	900
		4,0	1100	1100	1100	1030	960	930	900
		5,0	1100	1030	960	930	915	910	900
	BIG-Isostep	2,0	300 mm						
		4,0							
		5,0							
	TWIXT-Isostep	2,0	200 mm						
		4,0							
		5,0							
	H-Isostep	2,0	180 mm						
		4,0							
		5,0							
	SMART-Isostep	2,0	100 mm						
		4,0							
		5,0							
	BASE - Isostep	2,0	160 mm						
		4,0							
		5,0							
	ALU-UK 50x30	2,0	130 mm						
		4,0							
		5,0							
	QLICK Alu-UK	2,0	130 mm						
		4,0							
		5,0							
	QLICK Alu-UK light	2,0	90 mm						
		4,0							
		5,0							

*Note regarding the use of MEGA-Isostep on CLIP decking support pads

In principle, the above spacings can also be applied when used on decking support pads. It should be noted that at the maximum spacings, vibrations can occur within the construction which may impart a softer walking experience.

To prevent the structure from vibrating, we recommend maintaining a maximum centre spacing of 2100 mm on a compacted and paved substrate.

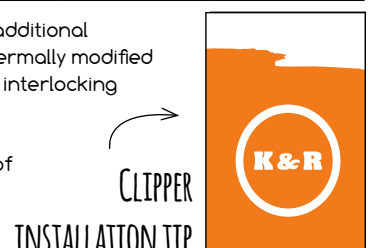











Overview of fixing of decking boards

Product	Design	Moisture content during assembly	Joint space	Alu substr. (BIG- und TWIXT-Isostep)	SMART-Isostep	Clipper 90-120 mm Board thickness: 20-24 mm	Clipper 90-120 mm Board thickness: from 25 mm	Clipper 120-150 mm Board thickness: 20-24 mm
								
WPC boards								
WPC Piazza One	25x140 mm	not relevant	5-7 mm	✓	✓			
WPC Piazza Pro	25x140 mm	not relevant	5-7 mm	✓	✓			
WPC 140	21x140 mm	not relevant	5-7 mm	✓	✓			✓
WPC Vision CoolDeck	25x137 mm	not relevant	5-7 mm	✓	✓			
WPC 137	25x137 mm	not relevant	5-7 mm	✓	✓			
Wood boards								
Thermo Ash smooth and brushed	20x115 mm	5-6%	4-7 mm	✓	✓	✓		
Thermo Pine ripped and brushed	26x118 mm	5-6%	4-7 mm	✓	✓		✓	
Thermo Pine ripped and brushed	26x140 mm	5-6%	4-7 mm	✓	✓			✓
Accoya	22x140 mm	18%	7 mm*	✓	✓			✓
Bamboo system board	20x200 mm	not relevant	7 mm	✓	✓			
Bamboo system board	20x137 mm	not relevant	7 mm*	✓	✓			✓
Bankirai smooth and ripped	25x145 mm	18%	7 mm*	✓				
Douglas fir standard	26x145 mm	18%	7 mm*	✓				
Douglas fir european	28x145 mm	18%	7 mm*	✓				
Garapa smooth	21x145 mm	18%	7 mm*	✓				✓
Garapa smooth	25x145 mm	18%	7 mm*	✓				
Ipè	25x145 mm	18%	7 mm*	✓				
Larch / standard	26x145 mm	18%	7mm*	✓				
Tyrolean High-Altitude Larch	25x140 mm	18%	7 mm*	✓				
Siberian Larch	26x145 mm	18%	7 mm*	✓				

Important notes: * Use of the Clipper: Increasing the joint width from 5 mm to 7 mm requires the use of an additional spacer. Karle & Rubner releases the Clipper for all decking boards made from thermally modified wood, thermally modified WPC, WPC, coniferous woods, and conventional kiln-dried hardwoods. This does not apply to woods with an interlocking grain such as massaranduba and cumaru.

The Clipper version for board a thickness from 25 mm can be used for a board with a maximum thickness of 35 – 40 mm, provided the application specifications applicable to the article are taken into account. When using the Clipper, please always observe all specifications regarding the type of board, installation in compliance with regulations etc.:







Clipper 120-150 mm Board thick- ness: from 25 mm	Terraflex N6** 7 mm joint space	Terraflex Pro N6** 5 mm joint space	Terraflex N9** 7 mm joint space	Terraflex Pro N9** 5 mm joint space	Terrafix 4 mm joint space	Terrafix 7 mm joint space	Spacing bar 4 mm joint space	Spacing bar 7 mm joint space
								
✓			✓	✓	✓		✓	
✓	✓	✓			✓		✓	
	✓	✓			✓		✓	
✓			✓	✓	✓		✓	
✓			✓	✓	✓		✓	
	✓	✓			✓		✓	
			✓	✓	✓		✓	
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✓			✓	✓		✓		✓

When laying patio decking made from tropical woods with Clipper, a double substructure is required at the start and end of the patio decking (support points for the ends of the boards): Spacing from the substructure with a double substructure: maximum 20 cm. Good underside ventilation must be ensured: our recommendation: min. 150 mm construction height.

Our Terraflex fastener is also compatible with many other planks. Please always note our installation instructions for Terraflex and Clipper and the laying instructions from the decking board manufacturer.

Required quantity of fasteners per m²

Fixing	max. spacing of substr. in mm	Board width in mm					
		115	120	130	137	140	145
 TerraFlex (Pc./m ²)	300	33	32	29	28	27	26
	350	29	28	25	24	24	24
	400	24	24	22	21	20	20
	450	24	24	22	21	20	20
 TerraFix 7 mm (Pc./m ²)	300	34	33	30	29	28	27
	350	29	29	26	25	25	24
	400	25	24	22	22	21	20
	450	25	24	22	22	21	20
 TerraFix 4 mm (Pc./m ²)	300	35	33	30	29	29	28
	350	30	29	27	26	25	24
	400	26	25	23	22	22	21
	450	26	25	23	22	22	21
 Clipper (Pc./m ²)	300	34	33	30	29	28	27
	350	30	29	27	25	25	24
	400	26	24	23	22	21	20
	450	26	24	23	22	21	20

Data based on a rectangular terrace of 15 m². The calculated values may differ for a different terrace shape / area. The data corresponds to an approximate quantity calculation.

Running meters of decking boards per m²

Board width in mm	Running meters per m ²	
	7 mm joint	5 mm joint
140	6,80	6,90
137	6,94	7,04
118	8,00	8,13
115	8,20	8,33

Calculation of the number of boards
using the example of thermo pine (terrace area 15 m²):

3,0 m x 0,14 m x 0,026 m (length x width x height)
 Joint width 0,007 m
 15 m² : 0,147 m (board width + joint) = 102,04 running meters
 102,04 running meters : 3,0 m = 34,01 ~ 35 boards

The calculation serves only as an example and does not claim to be universally valid. When calculating the floorboard area, aesthetic aspects such as the joint, the running direction and also the optimisation of waste are taken into account.

Suitable screw lengths for visible screw fastening on aluminium substructure

Board thickness	MEGA-Isostep	BIG-Isostep	TWIXT-Isostep	H-Isostep	SMART-Isostep	50x30 Alu substructure	BASE-Isostep
							
16-18 mm	40-100 mm	40-55 mm	40 mm	40 mm	40 mm	40-45 mm	40-45 mm
19-21 mm	40-100 mm	40-55 mm	40-45 mm	40-45 mm	40-45 mm	40-45 mm	40-45 mm
22-24 mm	45-105 mm	45-60 mm	45 mm	45 mm	45 mm	40-45 mm	40-45 mm
25-26 mm	45-105 mm	45-60 mm	45-50 mm	45-50 mm	45-50 mm	45-50 mm	45-50 mm
27-29 mm	50-110 mm	50-65 mm	50 mm	50 mm	50 mm	50-55 mm	50-55 mm
30-31 mm	50-110 mm	50-65 mm	50-55 mm	50-55 mm	50-55 mm	50-55 mm	50-55 mm
32-34 mm	55-115 mm	55-70 mm	55 mm	55 mm	55 mm	55-60 mm	55-60 mm
35-36 mm	55-115 mm	55-70 mm	55-60 mm	55-60 mm	55-60 mm	55-60 mm	55-60 mm
37-39 mm	60-120 mm	60-75 mm	60 mm	60 mm	60 mm	60-65 mm	60-65 mm
40-41 mm	60-120 mm	60-75 mm	60-65 mm	60-65 mm	60-65 mm	60-65 mm	60-65 mm










This information only applies when using Terrafix with a construction height of 6 mm.

Quantity of screws per m² for visible fastening

Board width in mm	4 mm joint		7 mm joint	
	Spacing between substructures		Spacing between substructures	
	400 mm	500 mm	400 mm	500 mm
145	40	34	40	33
140	42	35	41	34
120	48	40	48	40
90	64	53	62	52

The data is based on a rectangular terrace of 15 m². The calculated values may differ for a different terrace shape / area. Figures correspond to an approximate calculation of quantities.

Screws

Screw		Dimension	Part-no.	Qty./PU	Stainless steel		
					C1*	A2**	A4***
 Deck screw TX25 Countersunk head for wooden-substructure		5,5x40 mm	7555	100		✓	
			7569	500			
			7558	100			
			7573	500			
		5,5x50 mm	7556	100		✓	
			7570	500			
			7559	100			
			7574	500			
		5,5x60 mm	7523	100		✓	
			7571	500			
			7524	100			
			7575	500			
		5,5x70 mm	7557	100		✓	
			7572	500			
			7560	100			
			7576	500			
 Deck screw, TX25 Countersunk head for alu-substructure		5,5x40 mm	7525	100		✓	
			7561	500			
			7528	100			
			7565	500			
		5,5x45 mm	7521	100		✓	
			7562	500			
			7522	100			
			7566	500			
		5,5x50 mm	7526	100		✓	
			7563	500			
			7529	100			
			7567	500			
		5,5x60 mm	7527	100		✓	
			7564	500			
			7554	100			
			7568	500			
Drilling screw, TX20 Panhead		3,9x19 mm	6800	50	✓		
		3,9x19 mm	6939	100			
Screw TX30 Oval head		7,5x30 mm	7301	50			

*Stainless steel C1 – stainless, hardened and corrosion resistant (magnetic)





**Stainless steel A2 – stainless, not hardened, with high corrosion resistance (non-magnetic)

***Stainless steel A4 – additional qualities: resistant to tannic acid, chlorine and salt water

Field of application								
Concrete	wooden substructure	Aluminium substructure	Support feet	DA-connector	KL cross connector	Visible screwing	Connection to counter batten	
							TWIXT Isostep	BIG Isostep
	✓					✓		
	✓					✓		
	✓					✓		
	✓					✓		
		✓				✓		
		✓				✓	✓	
		✓				✓		
		✓				✓		✓
			✓	✓	✓			
✓			✓					

Recommendation for pre-drilling

Material	Field of application	Diameter of the screw	Diameter of the drill
Wood	Visible screwing of decking boards	5,5 mm	6 - 6,5 mm (basically 0,5 - 1,0 mm larger than the screw diameter)
Aluminium	Mounting of support feet and substructure	3,9 mm	3 mm metal drill
	Mounting of substructure and counter batten	4,8 mm	5 mm metal drill
	Fastening of TWIXT or BIG Isostep with the connector	3,9 mm	3 mm metal drill
	Pre-drilling for fastening Terrastart	4,2 mm	3 mm metal drill
Concrete	Mounting of support feet to concrete slabs	7,5 mm	6 mm masonry drill

Product	WPC cleaner EXTRA	Special cleaner (Reviver)	WPC waterproofing	Wax for board ends
				
Suitable for:	WPC boards	Wood boards	WPC boards	Wood boards (hardwood and softwood)
Suitable for:	<ul style="list-style-type: none"> Stubborn stains and soiling that cannot be removed with normal cleaning Oil and grease stains 	<ul style="list-style-type: none"> Weathered and greyed wooden boards Significant discolouration (iron and tannic acid reaction) of decking boards 	<ul style="list-style-type: none"> Waterproofing and protection of WPC boards Boards lightened by UV rays 	Front end of wooden boards
Advantages:	<ul style="list-style-type: none"> For extra intensive cleaning with active oxygen Makes the original colour visible again 	<ul style="list-style-type: none"> Refresher and cleaner for the natural character of wooden boards Original warm colouring of the wooden board reappears Odourless Biodegradable 	<ul style="list-style-type: none"> Improved resistance against UV rays Waterproofs WPC open-pored surfaces Weatherproof 	<ul style="list-style-type: none"> Reduction of cracking and fading Prevents bleeding of tropical woods Water-repellent Weatherproof and UV resistant
Ingredients:	Sodium carbonate, disodium carbonate, compound with hydrogen peroxide (2:3), anionic surfactants, non-ionic surfactants, TAED.	Oxalic acid (< 5%). Solvent-free, chlorine-free, formaldehyde-free	Natural waxes and oils, water, 2-butoxyethanol, additives, in-can preservation (1,2-Benzisothiazol-3(2H)-one (BIT), reaction mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (CIT/MIT)	Refined natural oils such as soya and sunflower oil, natural waxes, iso-aliphatics, lead-free siccatives, neodecanoic acid, cobalt salt.
Package size:	1 kg	1 litre	0,75 litre	0,25 litre
Part no.:	7387	7200	7189	6994
Coverage:	approx. 150 – 200 m ² Depends on the degree of soiling	approx. 10 - 50 m ² Depends on the degree of greying	approx. 8 - 16 m ² (Depends on the structure of the surface)	Up to 400 board ends

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