

# FASTENING RECOMMENDATION

## WPC (WOOD-PLASTIC-COMPOSITE)

	low	medium	high
BULK DENSITY			
COMPRESSIVE STRENGTH			
DEFLECTION RESISTANCE			
E-MODULUS			
HARDNESS			
DURABILITY			
DIMENSIONAL STABILITY			

Dependent on product/manufacture!

### ADVANTAGES

- + Good dimensional stability
- + Barefoot board
- + No washing out
- + Substitute for tropical timber
- + Largely sourced from sustainable forestry

### GENERAL DETAILS

Depending on the product in question, wood-plastic composite materials consist of different proportions of wood, plastics and additives. The wood content varies from 50% to 70%.

The natural fibres incorporated into the material originate predominantly from sustainable forestry. The properties of these polymer-bound products are equivalent to those of high-quality timber-based materials.

### APPLICATION

Deck construction, fencing, garden furniture, façades, edge profiles, privacy screen elements, sometimes used as a substitute for tropical timber.

### INSTALLATION INSTRUCTIONS

Substructure spacing and joint width according to manufacturer's information.



## FASTENING OPTIONS

### VISIBLE



### HIDDEN



# FASTENING RECOMMENDATION

WPC

The specifications regarding the spacing of the substructure, joint widths and board joints vary from manufacturer to manufacturer, which is why we cannot provide any concrete information. It is best to talk to the manufacturer or the dealer of the decking boards about this. They will be able to provide you with precise information so that you can optimise your substructure.

## PRE-DRILLING

When building a terrace with WPC planks, pre-drilling and countersinking is highly recommended. These tend to crack easily and there is a risk of splitting, which is prevented by pre-drilling. The additional countersinking significantly minimises the possibility of chip build-up around the screw head and ensures a more attractive screw pattern.



Art. no.	Name	PU
945986	Drill-Stop	1

## POSSIBLE FASTENINGS FOR YOUR BOARDS

WPC decking boards can be fastened both directly and non-indirectly. Below you will find all the fastening options that can be considered for this wood.

# VISIBLE FASTENING

## WPC

### SCREWS FOR DIRECT/VISIBLE FASTENING

#### TRI-DECK-TEC

The Tri-Deck-Tec screw is designed for fixing wooden decking to a wooden substructure and is not suitable for fixing to an aluminium substructure.

Art. no.	Dimensions [mm]	Colour	Drive	PU
905809	5,0 x 65	Blank	TX20	200
BR905809-Eimer	5,0 x 65	Brown	TX20	250*
C905809-Eimer	5,0 x 65	Charcoal	TX20	250*
CR905809-Eimer	5,0 x 65	Cream	TX20	250*
GR905809-Eimer	5,0 x 65	Grey	TX20	250*
OAK905809-Eimer	5,0 x 65	Oak	TX20	250*
RW905809-Eimer	5,0 x 65	Redwood	TX20	250*

\*Supplied in a bucket incl. ECO drill stop and bit TX20.



#### ADVANTAGES / PROPERTIES

- Reduced risk of timber splitting
- Drive thread ensures quick screwing
- Under-head thread provides additional hold for deck boards
- Reduced splintering through special head
- Stainless steel in accordance with DIN 10088
- Reduction of screw torque due to trilobular basic geometry
- Reduction of the risk of tearing off the screw when screwing through trilobular basic geometry

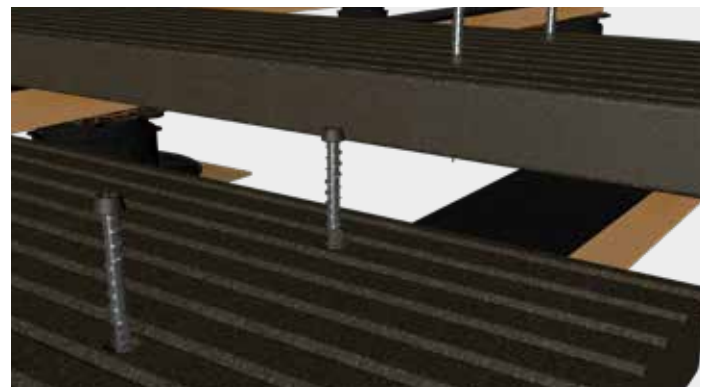


ON REQUEST, SCREW HEADS CAN BE PAINTED IN RAL COLOURS

#### NOTE

The Tri-Deck-Tec screw has been specially developed for fastening WPC decking boards. However, in order to avoid the risk of the screws breaking off due to the different expansion coefficients of the materials of the substructure and the decking boards, we strongly recommend using a substructure made of WPC when using Tri-Deck-Tec screws. If this is not possible, we recommend using indirect fastening of the decking boards.

#### APPLICATION IMAGE



The Tri-Deck-Tec is screwed into the WPC decking.

# VISIBLE FASTENING

WPC

## SCREWS FOR DIRECT/VISIBLE FASTENING

### DISTANCE STRIP 2.0

For a visible fastening of boards, two screws must be used for board widths of 140 mm or more in the case of UK wood and UK aluminium profiles. The problem with this is that the screws work against each other when the wood expands or contracts, and this can quickly result in shearing of the screws.



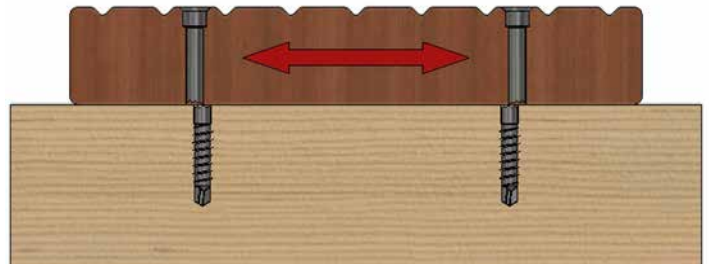
Art. no.	Dimensions [mm] <sup>a)</sup>	Material	PU*
944803	30 x 700 x 7	Hard plastic	50

<sup>a)</sup>Width x length x height

\*Screws are not included.  
Fastening with Terrasotec screws Ø 4 mm.

### SHEARING

For this reason, Dista strips 2.0 should always be used for wood substructures or aluminium profiles with no screw channels in order to give screws enough clearance and minimise the risk of shearing.



## TERRASOTEC

Suitable for distance strip 2.0.

Art. no.	Dimensions [mm]	Drive	PU
905535	4,0 x 40	TX15●	500



#### ADVANTAGES / PROPERTIES

- Limited resistance to acid
- 10 years experience without corrosion problems with suitable woods
- Not suitable for woods containing high amounts of tanning agents, such as cumarú, oak, merbau, robinia, etc.
- Not suitable for use in chlorous atmospheres
- Stainless steel in accordance with DIN 10088
- 50% greater breaking torque than A2 and A4
- Magnetizable

## VISIBLE FASTENING

WPC

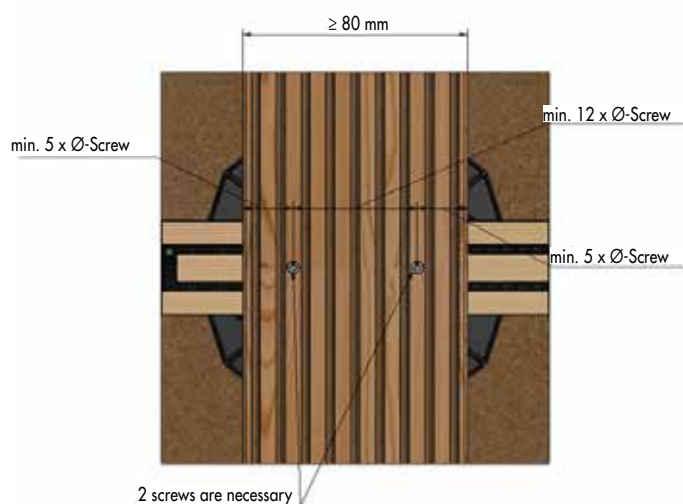
### NUMBER OF SCREWS AND POSITION ACCORDING TO BOARD THICKNESS

For boards with a thickness of less than 80 mm, one screw per strand of the substructure is sufficient for fastening. Two screws must be used where the thickness is 80 mm or more.

The positions of the screws are determined by Eurocode 5 to ensure the longest possible service life of the connection elements used and the components affixed. For this reason we recommend a minimum spacing of 12 x the nominal diameter of the screw between screws and a spacing of 5 x the nominal diameter of the screw to the edge. (See illustration)

### NOTE

To establish a crossed connection between the board and the substructure, it makes sense to use a minimum board width of 110 mm; otherwise the axis and edge distances may not be maintained.



# HIDDEN FASTENING

## WPC

### PRODUCTS FOR THE HIDDEN FASTENING OF DECKING BOARDS

#### TWIN SYSTEM CLIP

The Twin system clip can be used in combination with the EVO and EVO Slim aluminium profiles, as well as the HKP terrace support system.

Art. no.	Dimensions [mm] <sup>a)</sup>	Material	PU*
945959	26 x 55 x 15	Plastic, black	200
Clamping plate	2 x 30 x 20,5	A2 stainless steel, black	

<sup>a)</sup>Height x length x width

\*Comes supplied with screw Ø 5 x 50 mm and bit



#### ADVANTAGES

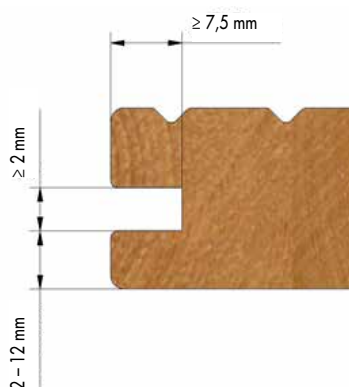
- Individual boards can be adjusted and replaced at any time
- Uniform joint spacing
- Supports constructive timber protection
- Weather-resistant

#### REQUIRED GROOVE GEOMETRY

Dimensions vary greatly according to supplier.

If you are unsure whether the product is suitable for your project, consult your timber dealer first and ask for the exact dimensions of the side grooves.

If you have any questions about the product, we will of course be pleased to assist.



#### APPLICATION IMAGE



#### NOTES

Where the Twin system clip is used in combination with the EVO Slim aluminium system profile, a shorter screw must be ordered.

Where the supplied screw Ø 5 x 50 mm is used, there is a risk that components below the EVO Slim (e.g. roof insulation) will be damaged.

# HIDDEN FASTENING

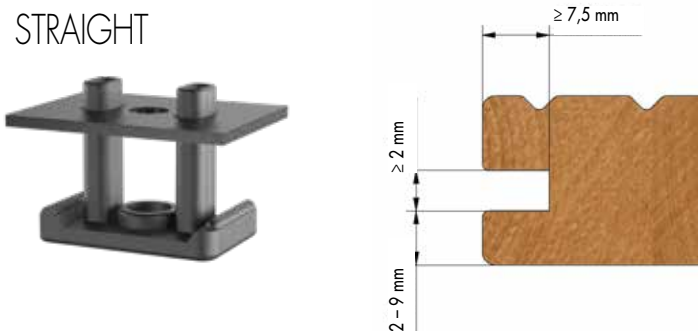
## WPC

### PRODUCTS FOR THE HIDDEN FASTENING OF DECKING BOARDS

#### EVO LIGHT SYSTEM CLIP

The EVO Light system clip can be used in combination with the EVO Light aluminium profile.

#### STRAIGHT



#### REQUIRED GROOVE GEOMETRY

Dimensions vary greatly according to supplier.

If you are unsure whether the product is suitable for your project, consult your timber dealer first and ask for the exact dimensions of the side grooves.

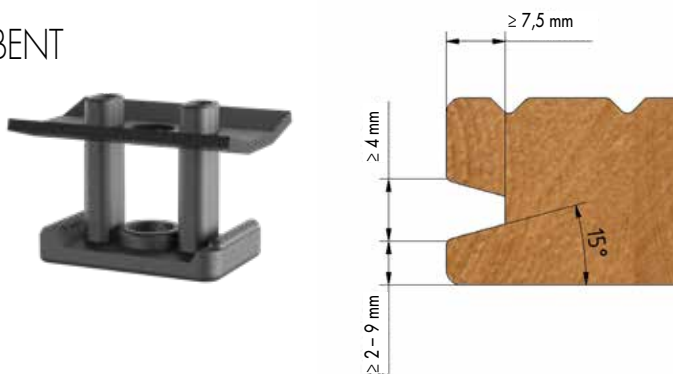
If you have any questions about the product, we will of course be pleased to assist.

Art. no.	Dimensions [mm] <sup>a)</sup>	Material	PU*
946029	21 x 24 x 15	Plastic, black	200
Clamping plate	1,5 x 30 x 22	A2 stainless steel	

<sup>a)</sup>Height x length x width

\*Comes supplied with screw

#### BENT



Art. no.	Dimensions [mm] <sup>a)</sup>	Material	PU*
946034	21 x 24 x 15	Plastic, black	200
Clamping plate	1,5 x 30 x 21,1	A2 stainless steel	

<sup>a)</sup>Height x length x width

\*Comes supplied with screw

#### APPLICATION IMAGE



Hidden fastening with the EVO Light system clip.

#### NOTE

In case of deviations in groove thickness, the screw length may change!

Please contact our technical department.



# HIDDEN FASTENING

## WPC

### M-CLIP

With the help of the M-Clip from Eurotec, laterally grooved planks can be fastened to our Eveco aluminium system profile or alternatively to a wooden substructure. Only low-movement wood types or WPC planks are suitable for invisible mounting using the M-Clip.

Art. no.	Dimensions [mm] <sup>a)</sup>	Material	PU*
111896	9,5 x 22 x 32	Stainless steel 1.4016	200

<sup>a)</sup>Height x length x width

\*Incl. matching drilling screw



#### ADVANTAGES

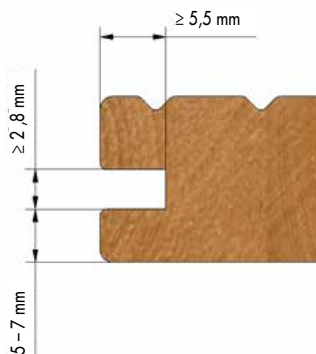
- Quick and easy installation
- Can be combined with a large range of side groove geometries
- Automatically creates a board spacing of 6 mm

### REQUIRED GROOVE GEOMETRY

Dimensions vary greatly according to supplier.

If you are unsure whether the product is suitable for your project, consult your timber dealer first and ask for the exact dimensions of the side grooves.

If you have any questions about the product, we will of course be pleased to assist.



### APPLICATION IMAGE



Hidden fastening with the M-Clip.



# HIDDEN FASTENING

## DECK GLIDERS

The decking glider can be used for decking boards with or without lateral groove. This product can be used with substructures made of wood, as well as our aluminium profiles EVO and EVO Slim, and the terrace support system HKP.

Art. no.	Dimensions [mm] <sup>a)</sup>	Quantity* [piece/10 m <sup>2</sup> ]	Material	PU
944830	10 x 190 x 20	123	Hard plastic	200

<sup>a)</sup>Height x length x width

\*Clearance of bearing beams = 600 mm, board width = 145 mm, Joint dimension = 5 mm (depending on type of timber). Please use decking multi angles or the StarterClip for the first and last bearing beams, and for the board butts.

Each deck glider includes 4 Thermofix screws made of hardened stainless steel.  
If required, you can additionally buy the glider screws in A2 or A4 stainless steel.

## MINI DECK GLIDER

Art. no.	Dimensions [mm] <sup>a)</sup>	Quantity* [piece/10 m <sup>2</sup> ]	Material	PU
944767	10 x 140 x 14	200	Hard plastic	200

<sup>a)</sup>Height x length x width

\*Clearance of bearing beams = 500 mm, board width = 90-100 mm, Joint dimension = 5 mm (depending on type of timber). Please use decking multi angles or the StarterClip for the first and last bearing beams, and for the board butts.

Each Mini deck glider includes 3 Thermofix screws made of hardened stainless steel.  
If required, you can additionally buy the glider screws in A2 or A4 stainless steel.

## APPLICATION IMAGE



Hidden fastening with the deck gliders.

## WPC



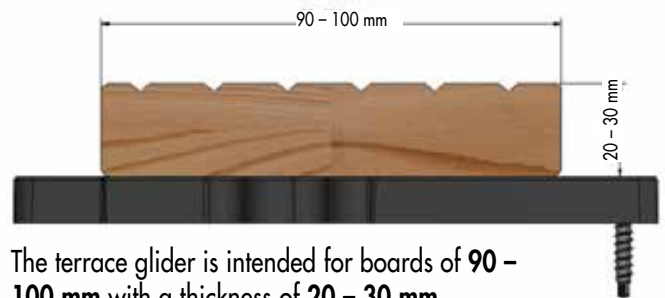
### REQUIRED DIMENSIONS OF BOARDS



The terrace glider is intended for boards of **80 – 155 mm** with a thickness of **20 – 30 mm**.



### REQUIRED DIMENSIONS OF BOARDS



The terrace glider is intended for boards of **90 – 100 mm** with a thickness of **20 – 30 mm**.

## NOTE

The scope of supply includes screws of hardened stainless steel. If required, you can order these screws in A2 or A4 stainless steel. The maximum thickness of the terrace boards depends on the length of the screws supplied.

# HIDDEN FASTENING

## WPC

### T-STICK

For fastening the start and end planks, we recommend the Eurotec decking multi angle, or the Eurotec StarterClip.

The T-Stick can be used with substructures made of wood, as well as our EVO and EVO Slim aluminium profiles, and the HKP terrace support system.

Art. no.	Stainless steel plate*	Material	PU**
111857	A2	Plastic, black	125

\*Stainless steel A4 plate available on request.

\*\*Supplied with a drilling screw, which is suitable for wooden and aluminium substructures with a thickness of up to 3 mm.



#### ADVANTAGES / PROPERTIES

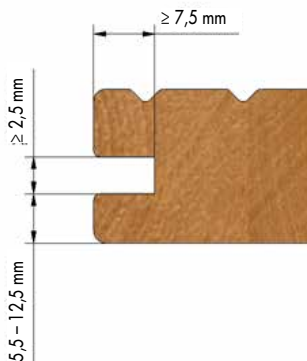
- Boards can be replaced easily even after the deck has been completed!
- Realignment individual boards is possible at any time.
- When they are fixed, the boards have a safe and firm seat.

### REQUIRED GROOVE GEOMETRY

Dimensions vary greatly according to supplier.

If you are unsure whether the product is suitable for your project, consult your timber dealer first and ask for the exact dimensions of the side grooves.

If you have any questions about the product, we will of course be pleased to assist.



### APPLICATION IMAGE



Hidden fastening with the T-Stick.

### NOTE

The supplied drilling screw is suitable for both wood and aluminium substructures.

For specific weather conditions, we can also supply sheets of A4 stainless steel.

# HIDDEN FASTENING

## WPC

### V-CLIP

The V-Clip is designed for decking boards with an asymmetrical groove designed. (see Necessary groove geometry)

The V-Clip can be used with substructures made of wood as well as our Evenco aluminium system profile.



#### ADVANTAGES / PROPERTIES

- Compatible with classic substructures made of wood as well as aluminium
- Uniform joint spacing of 7 mm

Art. no.	Dimensions [mm] <sup>a)</sup>	Material	PU*
111885	32,3 x 22,7 x 9,4	Stainless steel A2	250

<sup>a)</sup>Length x width x height

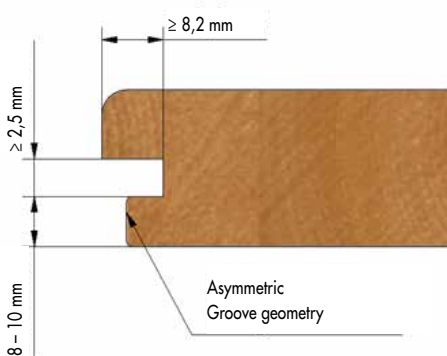
\*Comes supplied with screw Ø 4,2 x 25 mm and 1 Bit/PU

### REQUIRED GROOVE GEOMETRY

Dimensions vary greatly according to supplier.

If you are unsure whether the product is suitable for your project, consult your timber dealer first and ask for the exact dimensions of the side grooves.

If you have any questions about the product, we will of course be pleased to assist.



### APPLICATION IMAGE



Hidden fastening with the V-Clip.

### NOTE

Only suitable for the fastening of asymmetric grooved decking made of dimensionally stable timber types or WPC.

# HIDDEN FASTENING

## DECKING MULTI ANGLES

The decking multi angle can be used with decking boards with or without a lateral groove. This product can be used with substructures made of wood as well as our aluminium system profiles and the HKP terrace support system.

Art. no.	Material	PU*
975584	Hard plastic	10

\*40 system screws are included in the scope of delivery

## NOTE

Supplements the deck glider and the T-Stick when fastening start and end boards.

Can be screwed to the substructure at the side and in front of the head.

## STARTERCLIP

The StarterClip can be used for decking boards with or without lateral groove. This product can be used with substructures made of wood, as well as with our aluminium system profiles EVO and EVO Light, and the HKP terrace support system.

Art. no.	Material	PU*
975591	Hard plastic	10

\*40 system screws are included in the scope of delivery

## NOTE

Supplements the deck glider and the T-Stick when fastening start and end boards.

## WPC



### ADVANTAGES / PROPERTIES

- Supports constructive wood protection due to approx. 10 mm distance between substructure
- Weather-resistant

## APPLICATION IMAGE



Hidden fastening of a start/end plank with the decking multi angle.



### ADVANTAGES / PROPERTIES

- Supports constructive wood protection due to approx. 10 mm distance between substructure
- Weather-resistant

## APPLICATION IMAGE



Hidden fastening of a start/end plank with the StarterClip.

# HIDDEN FASTENING

## WPC

### SNAP-IN FASTENER

The snap-in fastener can be used for decking boards with or without lateral groove. This product can be used with substructures made of wood as well as our aluminium system profiles EVO and EVO Light, the system profile Eveco, and the terrace support system HKP.

Art. no.	Material	PU*
975612	PP-C (polypropylene copolymer)	10

\*4 pc. Thermofix screws 4,2 x 17 mm are included in the scope of delivery.

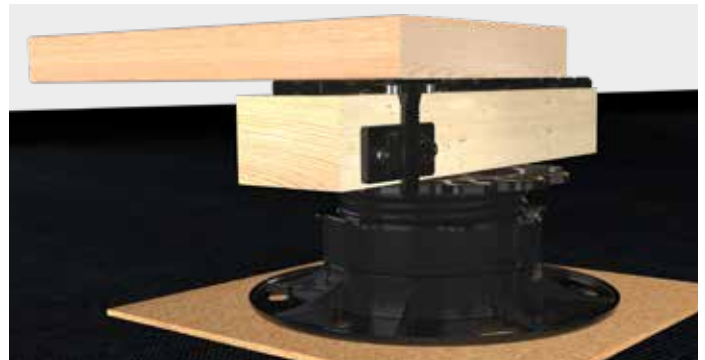
### NOTE

Supplements the deck glider and the T-Stick when fastening start and end boards.

### APPLICATION IMAGES



Fastening a wooden floorboard to the EVO aluminium system profile using the snap-in fastener.



Fastening a wooden floorboard to a wooden substructure using the snap-in fastener.



### ADVANTAGES

- Quick and easy installation of the start and end floorboards.
- Adjustment range from 19,5 – 45,5 mm\*
- Can be used in combination with both a wooden and an aluminium substructure.
- Both laterally grooved and non-grooved floorboards can be fastened without any problems.

\*The adjustment range is calculated from the distance between the upper web of the plug and the attachment point of the clip to the substructure.

If you are not familiar with how this product is used, and particularly with the product's intended use, please contact our Application Technology department (technik@eurotec.team).