## Eurotec

# **FASTENING RECOMMENDATION**

# THERMO-WOOD



DISADVANTAGES

- Surface made brittle by

- Only moderate hardness

thermal treatment

- Not for structural

applications

#### ADVANTAGES

- + High durability
- + No washing out
- + High hardness
- + Low swelling and shrinkage
- + Substitute for tropical timber
- + Mostly obtained from sustainable forestry

#### GENERAL DETAILS

- Origin: Central, South and Eastern Europe, North America
- Colour: Dark brown; also greying as untreated timber
- Durability class: 1-2; untreated: 5
- Properties: Low swelling and shrinkage, excellent dimensional stability, thermal treatment leads to reduction in strength and elasticity and causes the surface to become brittle.

#### APPLICATION

Deck construction, parquet, floors, garden furniture, sometimes as a substitute for tropical timber, not to be used for structural applications.

# INSTALLATION INSTRUCTIONS

• Centre distance in substructure: max. 50 cm

0

- Joint width between boards: 4 to 6 mm
- Spacing between butt joints: 3 to 4 mm

## **FASTENING OPTIONS**

VISIBLE



# **FASTENING RECOMMENDATION**

## THERMO-WOOD

#### BOARD CROSS SECTION

To guarantee a long service life for boards, a minimum board thickness should be chosen according to the centre distance for the substructure and the required board width. The following table shows the relevant recommendation for your board and the associated centre distance for the substructure.

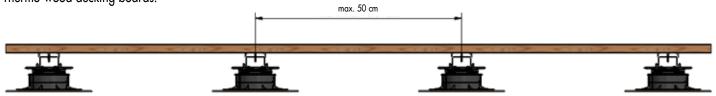
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		Spacing for the substructure [cm]		
	50		60	
Board width b [mm]		Minimum board	hickness d [mm]	
100	30		32	
120	27		30	
140	25		27	
160	23		26	

## MAXIMUM SPACING FOR THE SUBSTRUCTURE

The correct spacing of the substructure is important to ensure the plank load-bearing capacity.

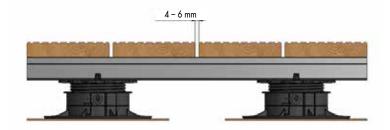
Our recommendation here is a **maximum distance of 50 cm** for Thermo-wood decking boards.



#### JOINT WIDTHS

Given that wood swells and shrinks most in the width of the board, correct joint width is key to the life of a terrace.

For a terrace with Thermo-wood planks, we recommend a **joint** width of 4 to 6 mm.



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Page 2 of 18

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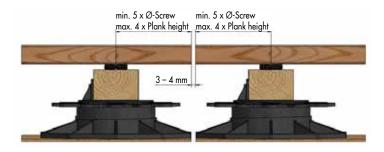
# **FASTENING RECOMMENDATION**

## THERMO-WOOD

#### BOARD JOINTS

Not only is it necessary to incorporate board joints in the planning of a substructure, but also to implement them correctly so that the timber can swell and shrink, thereby retaining the visual appearance of the terrace while preventing damage.

For Thermo-wood, we recommend a distance for the plank joints of 3 - 4 mm not to be under or exceeded.



#### PRE-DRILLING

When building a terrace with wooden planks made of Thermowood, pre-drilling and countersinking is absolutely 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.

## POSSIBLE FASTENINGS FOR YOUR BOARDS

Decking boards made of Thermo-wood are not suitable for indirect fastening due to their high swelling and shrinkage behaviour. Therefore, we only recommend products for visible screw connection.



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## THERMO-WOOD

## SCREWS FOR DIRECT/VISIBLE FASTENING

#### TERRASSOTEC TRILOBULAR, STAINLESS STEEL A4

The Terrassotec screw is designed for the fastening of wooden floorboards on a wooden substructure and is not suitable for fastening on an suitable for fastening to an aluminium substructure.

Art. no.	Dimensions [mm]	Drive	PU
905555	5,5 x 50	TX25•	100
905556	5,5 x 60	TX25•	100
905557	5,5 x 70	TX25•	100
905558	5,5 x 80	TX25•	100
905547*	5,5 x 90	TX25•	100
905548*	5,5 x 100	TX25•	100

\*The previous version will continue to be supplied until the switchover is complete.



ON REQUEST, SCREW HEADS CAN BE PAINTED IN RAL COLOURS

#### APPLICATION IMAGE



The Terrassotec Trilobular, stainless steel A4 is screwed into the terrace decking made of Thermo-wood.

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Page 4 of 18

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#### HAPATEC HELI, A4

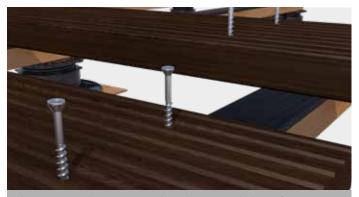
The Hapatec screw is designed for fixing wooden planks to a wooden substructure and is not suitable for fixing to an aluminium substructure.

Art. no.	Dimensions [mm]	Drive	PU
100051	5,0 x 50	TX25•	200
100052	5,0 x 60	TX25•	200
100053	5,0 x 70	TX25•	200
100054	5,0 x 80	TX25•	200
100058	5,0 x 100	TX25•	200

## THERMO-WOOD



#### APPLICATION IMAGE



The Hapatec Heli, A4 is screwed into the terrace decking of Thermo-wood decking.

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Page 5 of 18

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## **VISIBLE FASTENING**

#### PROFILE DRILLING SCREW, STAINLESS STEEL A4

The profile drilling screw is designed to fasten wooden boards to a substructure of aluminium profiles; it is not suitable for fastening boards to a wood substructure.

Art. no.	Dimensions [mm]	Drive	Board thickness [mm]	PU
905571	5,5 x 41	TX25•	16 - 20	200
905563	5,5 x 46	TX25•	21 – 25	200
905564	5,5 x 51	TX25•	26 - 30	200
975798	5,5 x 56	TX25•	31 – 35	200
905565	5,5 x 61	TX25•	36 - 40	200



#### APPLICATION IMAGE



The profile drilling screw, stainless steel A4 is screwed into the terrace decking of Thermo-wood decking.

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Page 6 of 18

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## THERMO-WOOD

## ACCESSORIES FOR DIRECT/VISIBLE FASTENING

#### DISTANCE STRIP 2.0

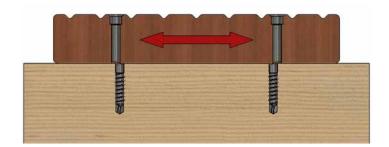
For a visible fastening of boards, two screws must be used for board widths of 140 mm or more in the case of UK wood and UK aluminium profiles. The problem with this is that the screws work against each other when the wood expands or contracts, and this can quickly result in shearing of the screws.



Art. no.	Dimensions [mm] <sup>a)</sup>	Material	PU*
944803	30 x 700 x 7	Hard plastic	50
⁰Width x length x height			
*Screws are not included. Fastening with Terrassotec sci	rews 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.



#### TERRASSOTEC

Suitable for distance strip 2.0.

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



- Stainless steel in accordance with DIN 10088
- + 50% greater breaking torque than A2 and A4  $\,$
- Magnetizable

Page 7 of 18

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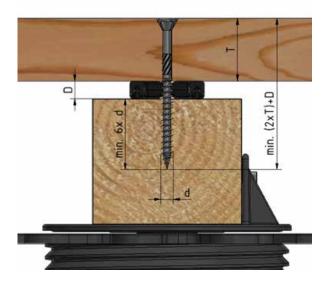
#### DETERMINE THE NECESSARY SCREW LENGTH

To determine the correct screw length for your particular terrace structure, a guide based on the professional rules of the carpentry trade is shown below.

# TERRACES WITH WOOD SUBSTRUCTURE AND DISTA STRIP 2.0

To fasten terrace boards to a substructure, it is essential to select the correct screw length; failure to do so can impair the stability and service life of the terrace. Generally, the length of the screw must be at least double the thickness of the fixture (in this case, the thickness of the terrace boards). The screwed-in thread length must also be at least four times the nominal screw diameter; in the case of coniferous timber like Douglas fir, however, we recommend a minimum screw depth of six times the nominal diameter.

## THE TOTAL LENGTH OF THE SCREW IS THEREFORE GUIDED BY THE FOLLOWING CRITERIA



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Page 8 of 18

# THERMO-WOOD

#### GENERAL

Only screws with a nominal diameter of 5 mm or more are to be used for the fastening. In outdoor areas, moreover, hardened stainless steel is the minimum requirement for the screw steel (even A2 or A4 stainless steel may be required, depending on the environment in which the terrace will be built).

## Total length of screw

 $\rightarrow$  At least 2 x board thickness plus height of the Dista strip 2.0

#### Thread length in substructure

 $\rightarrow$  At least 4 x nominal screw diameter

#### **Example calculation**

Board thickness (T): 24 mm, nominal screw diameter (d): 5 mm Height of Dista strip (D): 7 mm  $(2 \times 24 \text{ mm}) + 7 \text{ mm} = 55 \text{ mm}$  $4 \times \emptyset 5 \text{ mm} = 20 \text{ mm}$ 24 mm + 7 mm + 20 mm = 51 mm51 mm < 55 mmMinimum length of screw: 55 mm  $\rightarrow$  Screw length to choose: **60 mm** 

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# **VISIBLE FASTENING**

# TERRACES WITH WOOD SUBSTRUCTURE AND DISTA STRIP 2.0

At this point it must be stressed that Eurotec does not recommend a terrace construction of this kind. This is because direct contact between the wood substructure and the boards creates a very large area in which waterlogging can form. As a result of this, the wood will rot and the service life of the terrace will be shortened significantly.

If you wish to go ahead with such a structure anyway, however, the requisite screw length is calculated as follows:

#### Total length of screw

 $\rightarrow$  At least 2 x board thickness

#### Thread length in substructure

 $\rightarrow$  At least 4 x nominal screw diameter

#### Example calculation

Board thickness (T): 24 mm, nominal screw diameter (d): 5 mm

 $(2 \times 24 \text{ mm}) = 48 \text{ mm}$ 

4 x Ø 5 mm = 20 mm

24 mm + 20 mm = 44 mm

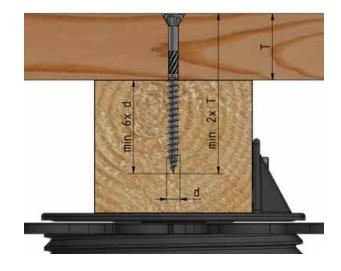
48 mm > 44 mm

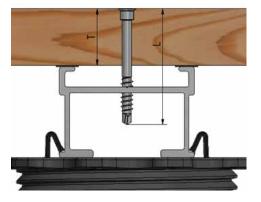
Minimum length of screw: 48 mm

 $\rightarrow$  Minimum screw length to choose: 50 mm

## TERRACES WITH ALUMINIUM SUBSTRUCTURE

Our profile drilling screw has been specially designed to fasten terrace boards on our aluminium system profiles. As a result, the screw length for this product is directly assigned to board thickness.





Profile drilling screw		
L[mm]	T[mm]	
41	16 - 20	
46	21 – 25	
51	26 — 30	
56	30 - 36	
61	36 - 40	

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## THREAD LENGTH OF SCREWS

	Terrassotec		Hapatec
L[mm]	Lg [mm]	L[mm]	Lg [mm]
45	26	45	26
50	30	45	28
60	35	50	30
70	40	60	36
80	50	70	42
90	55	80	48
100	60	90	54
		100	60

Profile drilling screw		
L[mm]	Lg [mm]	
41	21	
46	21	
51	21	
56	21	
61	21	

#### L = nominal length of screw

Lg = thread length of screw

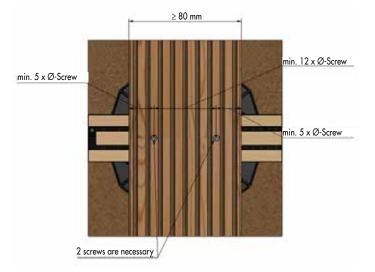
## NUMBER OF SCREWS AND POSITION ACCORDING TO BOARD THICKNESS

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  $12 \times 10^{-10}$  x the nominal diameter of the screw between screws and a spacing of  $5 \times 10^{-10}$  k the nominal diameter of the screw to the edge. (See illustration)

#### NOTES

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.



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Page 10 of 18

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## PRODUCTS FOR CONCEALED FASTENING OF TERRACE 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	
ª'Height x length x width			

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



APPLICATION IMAGE

#### ADVANTAGES

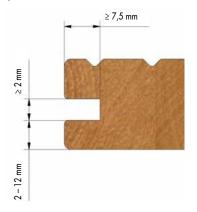
- Individual boards can be adjusted and replaced at any time
- Uniform joint spacing
- Supports constructive timber protection
- Weather-resistant

#### 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.





Hidden fastening with Twin system clip.

#### 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  $\emptyset$  5 x 50 mm is used, there is a risk that components below the EVO Slim (e.g. roof insulation) will be damaged.

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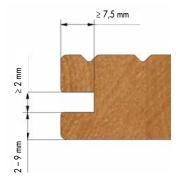


## PRODUCTS FOR THE HIDDEN FASTENING OF DECKING BOARDS

## EVO LIGHT SYSTEM CLIP

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

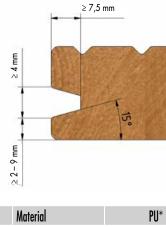




Art. no.	Dimensions [mm] <sup>a)</sup>	Material	PU*
946029	21 x 24 x 15	Plastic, black	200
Clamping plate	1,5 x 30 x 22	A2 stainless steel	
®Height x length x width			

\*Comes supplied with screw





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	
ª)Height x length x width			
الما الم			

\*Comes supplied with screw

## 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 EVO Light system clip.

#### NOTE

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

Please contact our technical department.

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# THERMO-WOOD

#### 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
ª)Height x length x width			
*Incl. matching drilling screw			

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#### ADVANTAGES

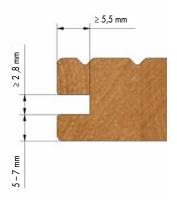
- Quick and easy installation
- Can be combined with a large range of side groove geometries
- Automatically creates a board spacing of 6 mm

#### 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.

#### 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 m²]	Material	PU
944830	10 x 190 x 20	123	Hard plastic	200
°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



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#### REQUIRED DIMENSIONS OF BOARDS

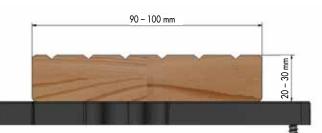
THERMO-WOOD



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.

Page 14 of 18

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#### 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.

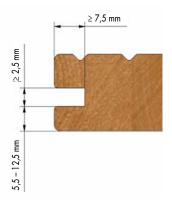
Art. no.	Stainless steel plate*	Material	PU**
111857	A2	Plastic, black	125
*Stainless steel A4 plate available on request.			
**Supplied with a drilling screw, which is suitable for wooden and aluminium substructures with a thickness of up to 3 mm.			

## 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.





THERMO-WOOD

#### ADVANTAGES / PROPERTIES

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

#### 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.

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## HIDDEN FASTENING

#### 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 Eveco aluminium system profile.

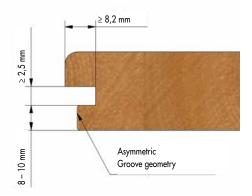
Art. no.	Dimensions [mm] <sup>a)</sup>	Material	PU*
111885	32,3 x 22,7 x 9,4	Stainless steel A2	250
ºLength x width x height			
*Comes supplied with screw Ø 4,2 x 25 mm and 1 Bit/PU			

#### 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



#### NOTF

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

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#### ADVANTAGES / PROPERTIES

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

## 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 inclu	ded 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.



THERMO-WOOD

#### ADVANTAGES / PROPERTIES

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



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

## 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 i	ncluded in the scope of delivery	

#### NOTE

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



#### 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.

Page 17 of 18

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# HIDDEN FASTENING

#### 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.



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.



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

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).

 $\ensuremath{\mathbb{O}}$  by E.u.r.o.Tec GmbH  $\cdot$  Stand 03/2022  $\cdot$  Subject to changes, additions, typesetting and printing errors.

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