



SPAX® Taras

Główka cylindryczna. SPAX T-STAR plus. Nierdzewna stal szlachetna A2, kolor starego złota II



Wkręty Spax-D 5x60 kolor starego złota – 72zł/100szt. z vat
Wkręty Spax-D 5x50 kolor starego złota – 120zł/200szt. z vat
Wkręty Spax-D 5x60 srebrne – 71zł/100szt. z vat
Wkręty Spax-D 5x50 srebrne – 111zł/200szt. z vat



SPAX® BITy SPAX T-STAR plus

Stabilne osadzenie i lepsze prowadzenie bita



Bit T-25 – 7zł/szt. z vat



SPAX® Uchwyt z ogranicznikiem do wkręcania



Ogranicznik – 190zł z vat



SPAX® Podkładki pod legary



Podkładki pod legary 100x100x8mm – 90zł/25szt. z vat



SPAX[®] Taśma izolująca



Taśma izolująca 20m x 80mm – 80zł/rolka z vat



SPAX[®] Krzyżyk dystansowy



Krzyżyk dystansowy – 8zł/szt. z vat

FUGDEK

SPACING COVERING STRIP



Prevents passage of dirt and small objects through spacing

Personalised colour on request



Quickly installed and optimal finish



Material: TPV
Hardness: 60 Shore A
Working temperature: -40°C / +120°C

Calculation of quantity
 $1\text{m}^2 / \text{board width} = \text{metres} / \text{m}^2$

FUGDEK

code	material/ colour	spacing [mm]	pcs/package
FUGN	TPE	6-7	100
FUGM	TPE	6-7	100

Uszczelka do tarasu 7mm - 9zł/mb z VAT

FABRIC

FOR UNDERSTRUCTURE



Fabric for covering the surface under the deck

Prevents growth of vegetation under the deck



Breathable



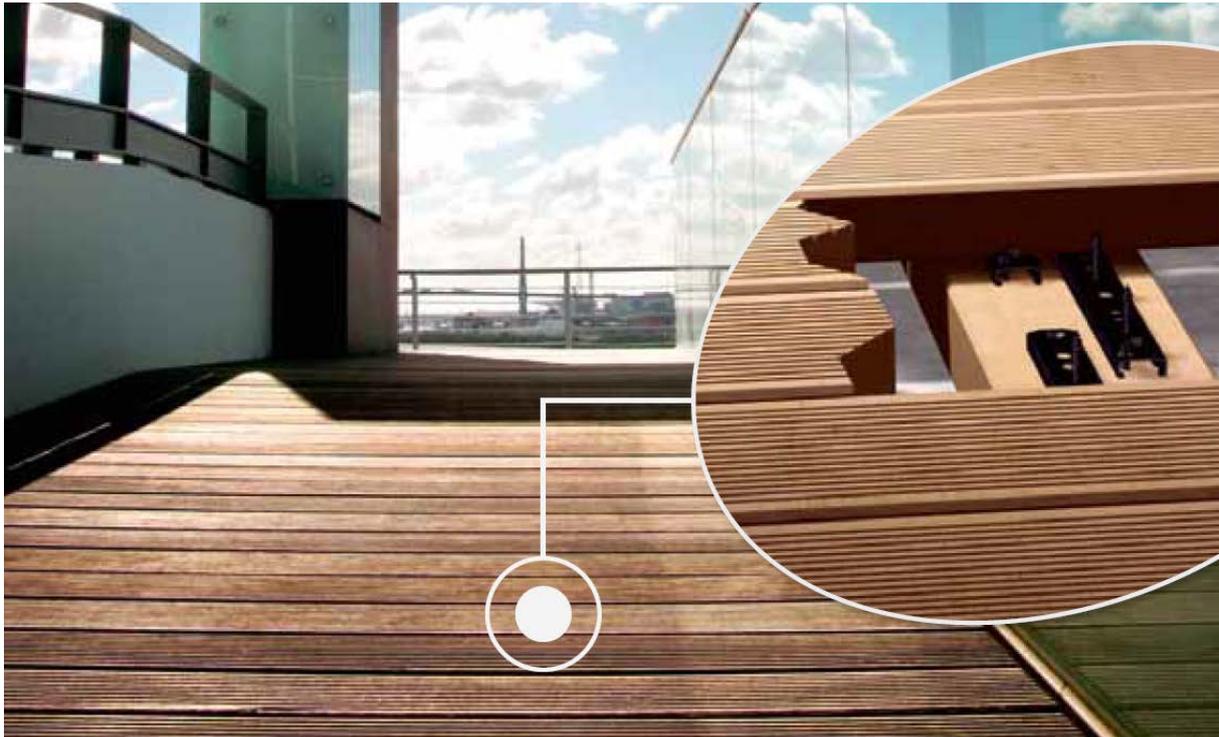
Draining



FABRIC

code	size	pcs/package
FE014565	5 x 1,6 m	1

Mata pod taras. Zapobiega porostowi trawy. 5x1,6m - 75zł/szt. z VAT



Połączenia niewidoczne Rothoblaas:

Stal nierdzewna A2 Terralock 180 – 6zł/szt. z VAT

Stal nierdzewna A2 Terralock 60 – 2,6zł/szt. z VAT

Aluminium czarny TER180ALUN - 3,9zł/szt. z VAT

Aluminium czarny TER60ALUN - 2zł/szt. z VAT

Tworzywo sztuczne Terralock PP 180 – 1,4zł/szt. z VAT

Tworzywo sztuczne Terralock PP 60 – 0,9zł/szt. z VAT

Wkręty 5x20mm - 38zł/100szt.

Wkręty 5x40mm - 56zł/100szt.

Olej OSMO 5735 do zabezpieczenia czoła deski tarasowej
0,375L - 80zł/puszka z VAT (wydajność ~200 desek)



INSTRUKCJA MONTAŻU POŁĄCZEŃ NIEWIDOCZNYCH ROTHOBLAAS:

TERRALOCK

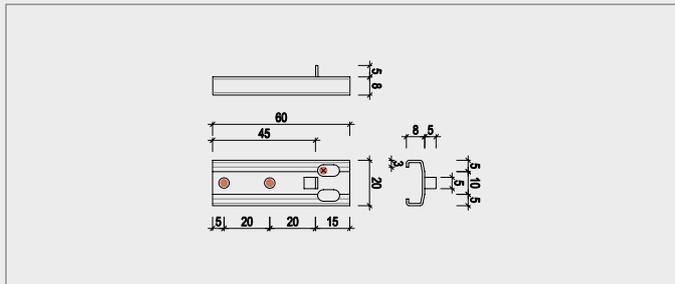
The Terralock hidden fastener helps lengthen the durability of your deck while providing for very pleasant appearance. Its overall height of 8 mm favours micro-ventilation between the boards and the substructure's joists, while the use of hidden screws for fastening preserves the boards' surface.

Terralock fasteners are available in stainless steel or aluminium and in two formats. Such a variety provides for versatile uses, even in the case of decks having complex shapes. Terralock fasteners ensure rapid and accurate assembly thanks to the assembly stop and allows for easy replacement of any single damaged board.

TERRALOCK 60

Board width: L = 65-200 mm

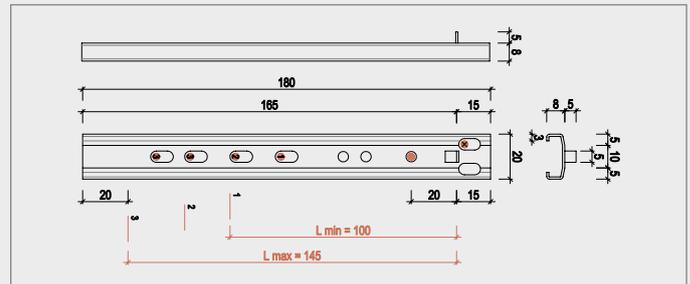
TECHNICAL SPECIFICATIONS



TERRALOCK 180

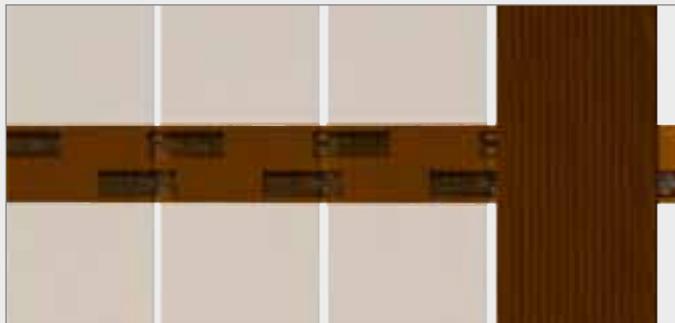
Board width: L = 100 -145 mm

TECHNICAL SPECIFICATIONS



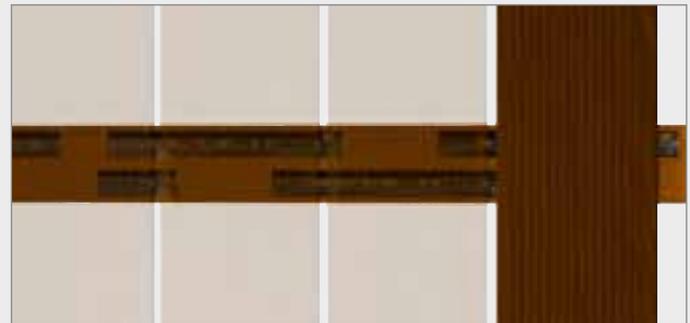
FASTENING INDICATIONS FOR TERRALOCK 60

The fasteners are fastened to the boards always according to the same layout, as per assembly indications.



FASTENING INDICATIONS FOR TERRALOCK 180

The fasteners are fastened to the boards according to an alternated layout (to the right or to the left of the traced centre line). On the edges we recommend the use of Terralock 60 fasteners.



SCREWS AND FASTENERS FOR FASTENING NODE (JOIST/BOARD JUNCTION):

Terralock 60 fastener (A): **2 pcs** / upper screws (B): **4 pcs** / lower screws (C): **1 pc**

Upper screw type (B)	KKTX 5x20	KKTX 5x25	KKTX 5x30
Min height of board	S > 21 mm	S > 26 mm	S > 31 mm
Lower screw type (C)	KKTN 5x40	KKTN 5x50	KKTN 5x60
Min height of joist	H > 40 mm	H > 50 mm	h > 60 mm

Terralock 180 fastener (A): **1 pc** / upper screws (B): **2 pcs** / lower screws (C): **1 pc**

Upper screw type (B)	KKTX 5x20	KKTX 5x25	KKTX 5x30
Min height of board	S > 21 mm	S > 26 mm	S > 31 mm
Lower screw type (C)	KKTN 5x40	KKTN 5x50	KKTN 5x60
Min height of joist	H > 40 mm	H > 50 mm	H > 60 mm

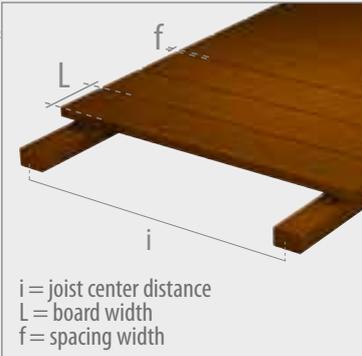
CALCULATION OF TERRALOCK 60 FASTENERS PER m²

1m² / joist center distance / board width with spacing x 2 = **pcs. per m²**

EXAMPLE FOR TERRALOCK 60

joist center distance (i) = 0.60 m
board width (L) = 140 mm
spacing width (f) = 7 mm

1m² / 0.6 m / (0.14 m + 0.007 m) x 2 = **23 pcs. /m²**
+ **46 pcs.** upper screws type (B) / m²
+ **12 pcs.** lower screws type (C) / m²



CALCULATION OF TERRALOCK 180 FASTENERS PER m²

1m² / joist center distance / board width with spacing = **pcs. per m²**

EXAMPLE FOR TERRALOCK 180

joist center distance (i) = 0.60 m
board width (L) = 140 mm
spacing width (f) = 7 mm

1m² / 0.6 m / (0.14 m + 0.007 m) = **12 pcs. /m²**
+ **24 pcs.** upper screws type (B) / m²
+ **12 pcs.** lower screws type (C) / m²

TERRALOCK 60

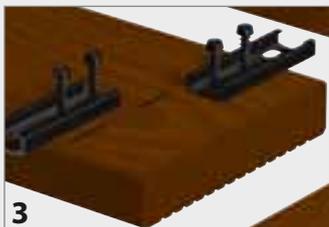
ASSEMBLY



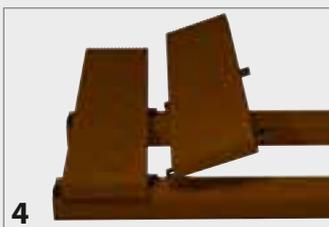
1. Trace a line indicating the joist's centre line on the back of the board to be fastened.



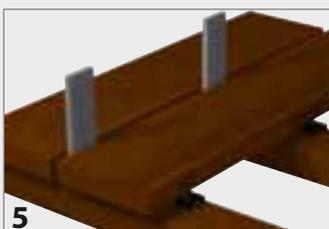
2. For each board and next to each fastening node, position a Terralock 60 fastener to the right and a Terralock 60 fastener to the left of the traced line at the suggested spacing of 5mm, so that the two round holes are placed internally to the board for each fastener.



3. Fasten both fasteners using 2 KKT X screws for each one (round holes), making sure that they adhere to the board with the help of the assembly stop.



4. Turn the board over and slide it under the board previously fastened onto the subframe.



5. Fasten each fastener to the subframe using a KKT N or KKT screw positioned in any one of the two slotted holes on the free side. To obtain the required spacing width, we recommend the use of DIS spacers inserted in between the boards.



6. Remove the spacers and repeat the operation with the next board.

TERRALOCK 180

ASSEMBLY



1. Trace a line indicating the joist's centre line on the back of the board to be fastened.



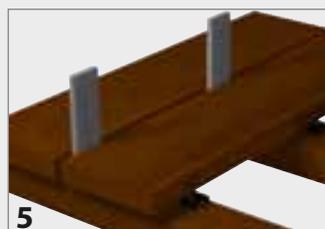
2. Place a Terralock 180 fastener to the right of the traced line at a distance of 5 mm. On the next board, repeat the operation by placing the fastener to the left of the traced line but always at a distance of 5 mm. Continue applying this layout scheme with the remaining boards.



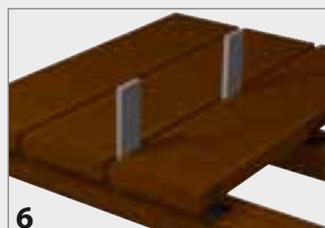
3. Fasten to the boards each Terralock 180 fastener using 2 KKT X screws, making sure that they adhere to the board with the help of the assembly stop.



4. Turn the board over and slide it under the board previously fastened onto the subframe.

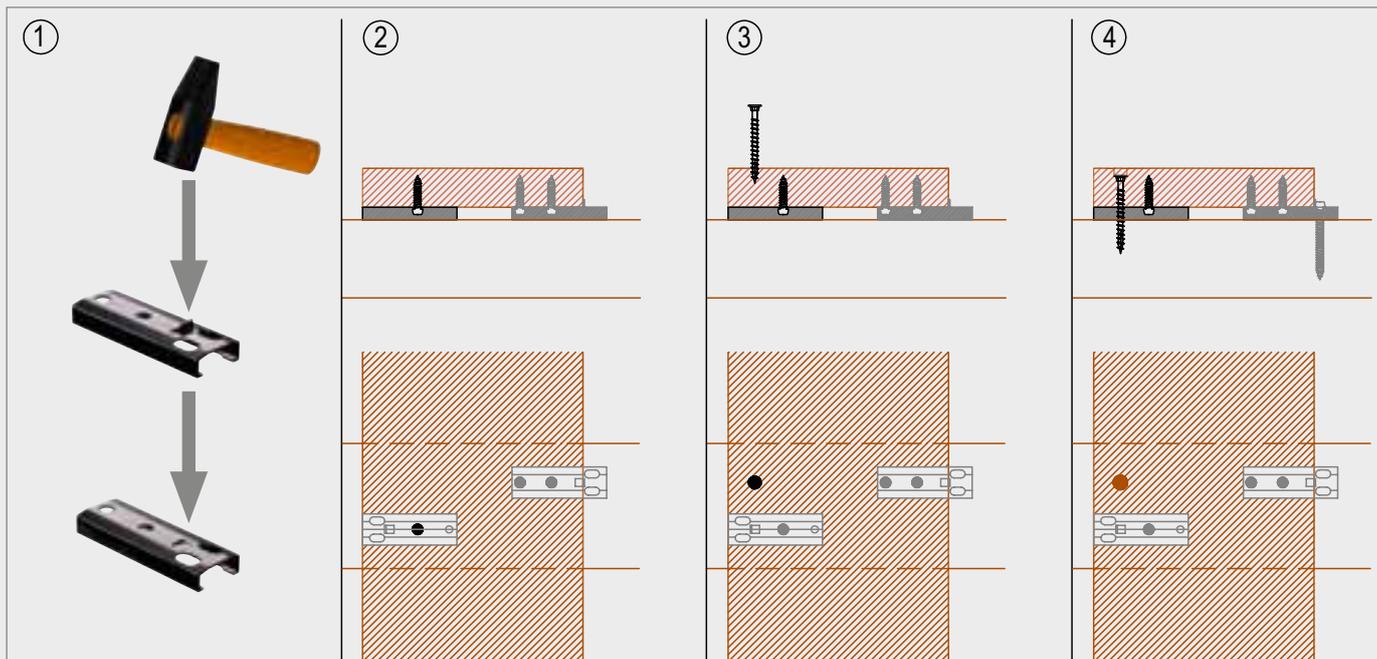


5. Fasten each fastener to the subframe using a KKT N or KKT screw positioned in any one of the two slotted holes on the free side. To obtain the required spacing width, we recommend the use of DIS spacers inserted in between the boards.



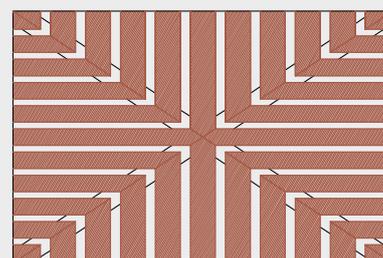
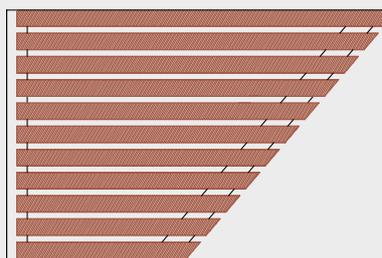
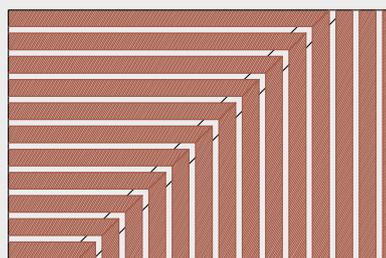
6. Remove the spacers and repeat the operation on the remaining boards.

ASSEMBLY TO THE EDGE OF THE FIRST/LAST BOARD WITH TERRALOCK 60



DECK WITH COMPLEX LAYOUT

Thanks to its special geometric configuration, the Terralock fastener allows to create decks having complex geometric layouts that will meet any aesthetic requirement. The two slotted holes and the optimal positioning of the end stop allow for assembly to inclined subframes.



Assembly to max 45° inclined subframe - Terralock 60



Max subframe angle w.r.t. boards: 45°
Max board width with subframe at 45° using Terralock 60: 20.0 cm

Assembly to max 45° inclined subframe - Terralock 180



Max subframe angle w.r.t. boards: 45°
Max board width with subframe at 45° using Terralock 180: 10.5 cm

TO REPLACE A SINGLE BOARD:



1. Unscrew the board to be replaced and the adjacent boards.
2. Check that the space created is enough to remove the board to be replaced.
3. Replace the board and reposition the other boards, tightening the screws as they were originally.

The number of boards to be unscrewed is in function of the width of the spacing, of the thickness of the boards and of the type of fastener used.

TERRALOCK PP

PLASTIC HIDDEN FASTENER FOR WOOD DECKS



Material:
Nylon PA.6

TERRALOCK PP

code	material/colour	size [mm]	pcs/package
TER60PPM	Nylon RAL8017	60 x 20 x 8	100
TER180PPM	Nylon RAL8017	180 x 20 x 8	50

KKF - SCREWS FOR OUTDOOR USE

code	material/colour	size [mm]	insert	pcs/package
KKF4520	AISI410 <input type="checkbox"/>	4,5 x 20	TX20	100
KKF4525	AISI410 <input type="checkbox"/>	4,5 x 25	TX20	100
KKF4530	AISI410 <input type="checkbox"/>	4,5 x 30	TX20	100
KKF4540	AISI410 <input type="checkbox"/>	4,5 x 40	TX20	100
KKF4550	AISI410 <input type="checkbox"/>	4,5 x 50	TX20	250
KKF4560	AISI410 <input type="checkbox"/>	4,5 x 60	TX20	250

ADDITIONAL PRODUCT



FUGDEK - SPACING COVERING STRIP

code FUGN/FUGM

Page 40

Greater top wood deck durability thanks to micro-ventilation under boards



Quickly assembled thanks to the assembly stop

Slotted holes allowing for wood movement (swelling and shrinking)

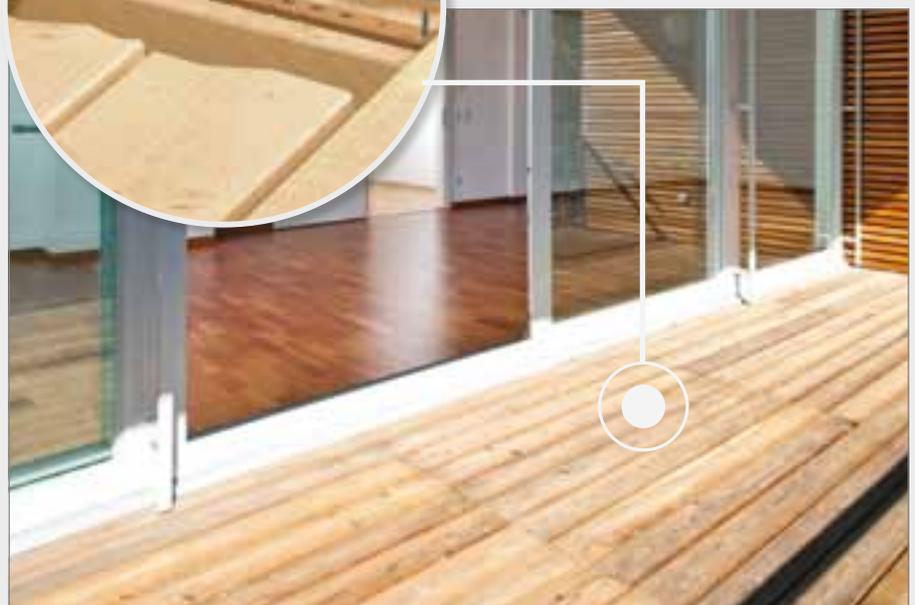


Allows for assembly on inclined subframe (subframe board angle up to 45°)

Colour personalized on request so as to reduce fastener visibility

No compression of subframe thanks to the larger bearing surface

Plastic material can be easily shortened to meet special requirements



TERRALOCK PP

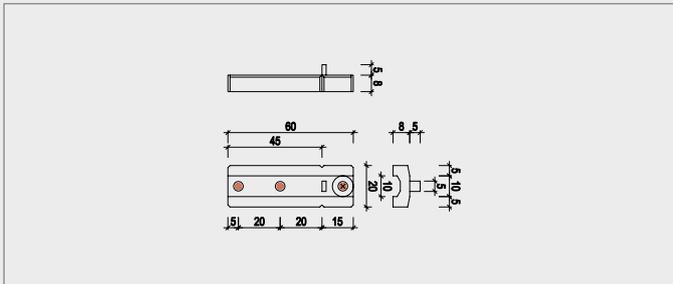
The Terralock PP hidden fastener helps lengthen the durability of your deck while providing for very pleasant appearance. Its overall height of 8 mm favours micro-ventilation between the boards and the substructure's joists, while the use of hidden screws for fastening preserves the boards' surface. Terralock PP is made of pla-

stic and is available in two formats. Such a variety provides for versatile uses, even in the case of decks having complex shapes. Terralock PP fasteners ensure rapid and accurate assembly thanks to the assembly stop.

TERRALOCK PP 60

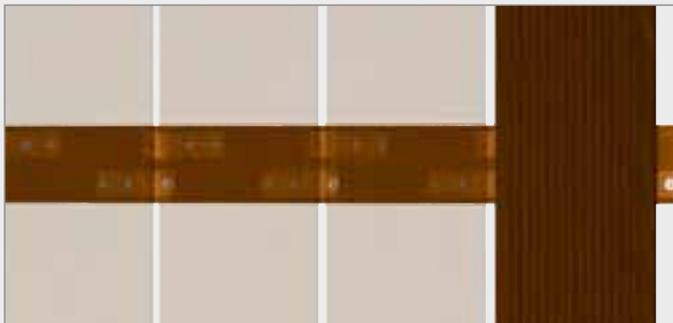
Board width: L = 65-200 mm

TECHNICAL SPECIFICATIONS



FASTENING INDICATIONS FOR TERRALOCK PP 60

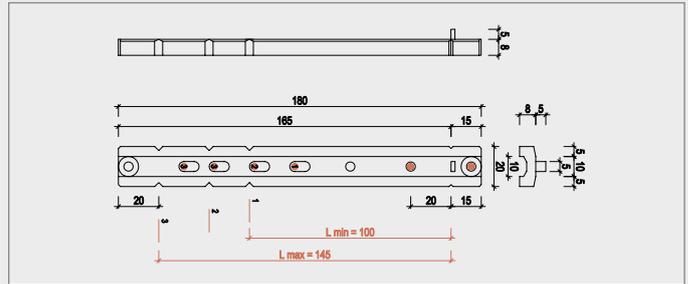
The fasteners are fastened to the boards always according to the same layout, as per assembly indications.



TERRALOCK PP 180

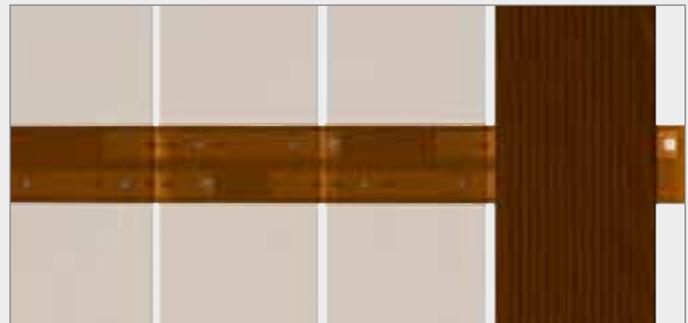
Board width: L = 100 -145 mm

TECHNICAL SPECIFICATIONS



FASTENING INDICATIONS FOR TERRALOCK PP 180

The fasteners are fastened to the boards according to an alternated layout (to the right or to the left of the traced centre line). On the edges we recommend the use of Terralock PP 60 fasteners.



SCREWS AND FASTENERS FOR FASTENING NODE (JOIST/BOARD JUNCTION):

Terralock PP 60 fastener (A): **2 pcs** / upper screws (B): **4 pcs** / lower screws (C): **1 pc**

Upper screw type (B)	KKF 4,5x20	KKF 4,5x25	KKF 4,5x30
Min height of board	S > 19 mm	S > 24 mm	S > 29 mm
Lower screw type (C)	KKF 4,5x40	KKF 4,5x50	KKF 4,5x60
Min height of joist	H > 38 mm	H > 48 mm	H > 58 mm

Terralock PP 180 fastener (A): **1 pc** / upper screws (B): **2 pcs** / lower screws (C): **1 pc**

Upper screw type (B)	KKF 4,5x20	KKF 4,5x25	KKF 4,5x30
Min height of board	S > 19 mm	S > 24 mm	S > 29 mm
Lower screw type (C)	KKF 4,5x40	KKF 4,5x50	KKF 4,5x60
Min height of joist	H > 38 mm	H > 48 mm	H > 58 mm

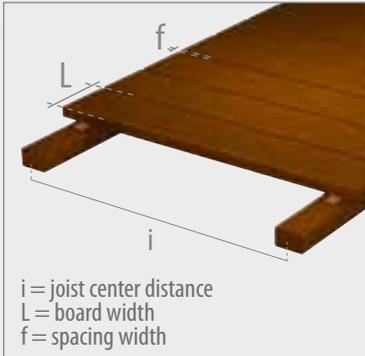
CALCULATION OF TERRALOCK PP 60 FASTENERS PER m²

1m² / joist center distance / board width with spacing x 2 = **pcs. per m²**

EXAMPLE FOR TERRALOCK PP 60

joist center distance (i) = 0.60 m
board width (L) = 140 mm
spacing width (f) = 7 mm

1m² / 0.6 m / (0.14 m + 0.007 m) x 2 = **23 pcs. /m²**
+ **46 pcs.** upper screws type (B) / m²
+ **12 pcs.** lower screws type (C) / m²



CALCULATION OF TERRALOCK PP 180 FASTENERS PER m²

1m² / joist center distance / board width with spacing = **pcs. per m²**

EXAMPLE FOR TERRALOCK PP 180

joist center distance (i) = 0.60 m
board width (L) = 140 mm
spacing width (f) = 7 mm

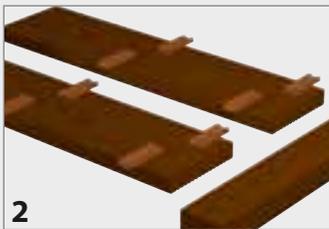
1m² / 0.6 m / (0.14 m + 0.007 m) = **12 pcs. /m²**
+ **24 pcs.** upper screws type (B) / m²
+ **12 pcs.** lower screws type (C) / m²

TERRALOCK PP 60

ASSEMBLY



1. Trace a line indicating the joist's centre line on the back of the board to be fastened.



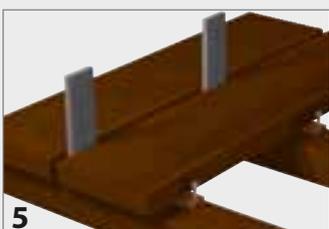
2. For each board and next to each fastening node, position a Terralock PP 60 fastener to the right and a Terralock PP 60 fastener to the left of the traced line at the suggested spacing of 5mm, so that the two round holes are placed internally to the board for each fastener.



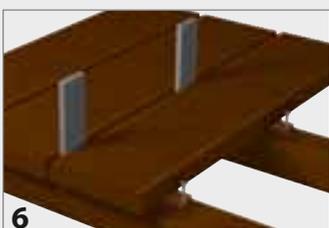
3. Fasten both fasteners using 2 KKF screws for each one, making sure that they adhere to the board with the help of the assembly stop.



4. Turn the board over and slide it under the board previously fastened onto the subframe.



5. Fasten each fastener to the subframe using a KKF screw positioned into the slotted hole. To obtain the required spacing width, we recommend the use of DIS spacers inserted in between the boards.



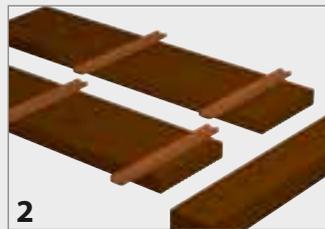
6. Remove the spacers and repeat the operation with the next board.

TERRALOCK PP 180

ASSEMBLY



1. Trace a line indicating the joist's centre line on the back of the board to be fastened.



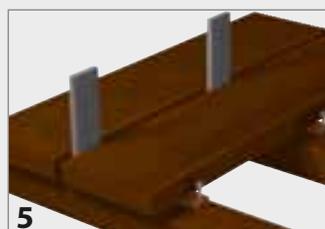
2. Place a Terralock PP 180 fastener to the right of the traced line at a distance of 5 mm. On the next board, repeat the operation by placing the fastener to the left of the traced line but always at a distance of 5 mm. Continue applying this layout scheme with the remaining boards.



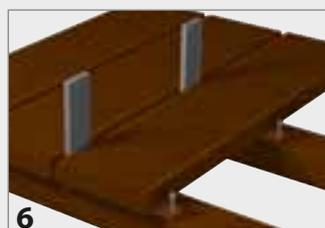
3. Fasten to the boards each Terralock PP 180 fastener using 2 KKF screws, making sure that they adhere to the board with the help of the assembly stop.



4. Turn the board over and slide it under the board previously fastened onto the subframe

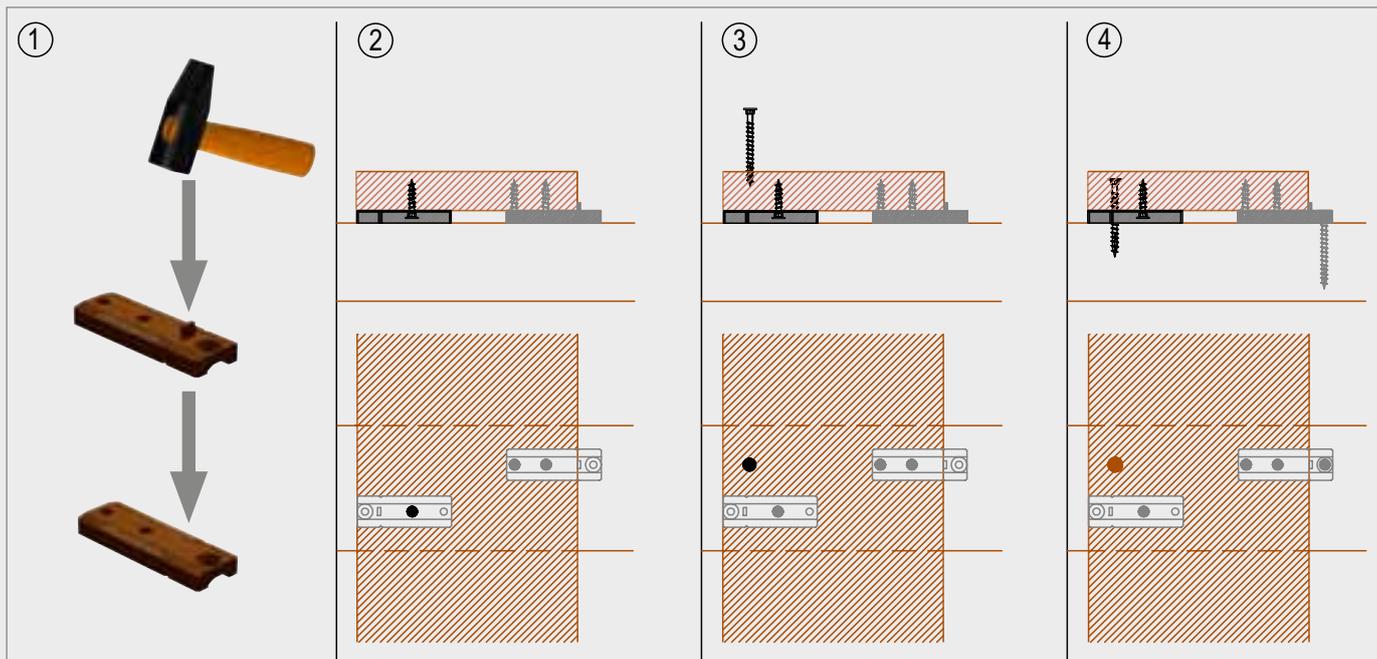


5. Fasten each fastener to the subframe using a KKF screw positioned in the slotted hole. To obtain the required spacing width, we recommend the use of DIS spacers inserted in between the boards.



6. Remove the spacers and repeat the operation on the remaining boards.

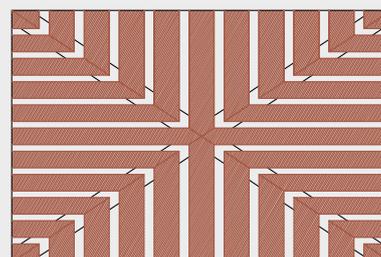
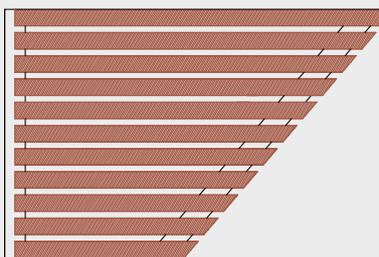
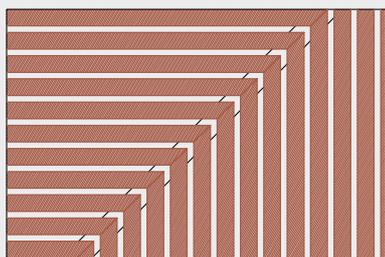
ASSEMBLY TO THE EDGE OF THE FIRST/LAST BOARD WITH TERRALOCK PP 60



DECK WITH COMPLEX LAYOUT

Thanks to its special geometric configuration, the Terralock fastener allows to create decks having complex geometric layouts that will meet any aesthetic requirement. The two slotted holes

and the optimal positioning of the end stop allow for assembly to inclined subframes.



Assembly to max 45° inclined subframe - Terralock PP 60



Max subframe angle w.r.t. boards: 45°
 Max board width with subframe at 45° using Terralock PP 60: 20.0 cm

Assembly to max 45° inclined subframe - Terralock PP 180



Max subframe angle w.r.t. boards: 45°
 Max board width with subframe at 45° using Terralock PP 180: 10.5 cm