

TERRALOCK

CONNECTOR FOR DECKS

INVISIBLE

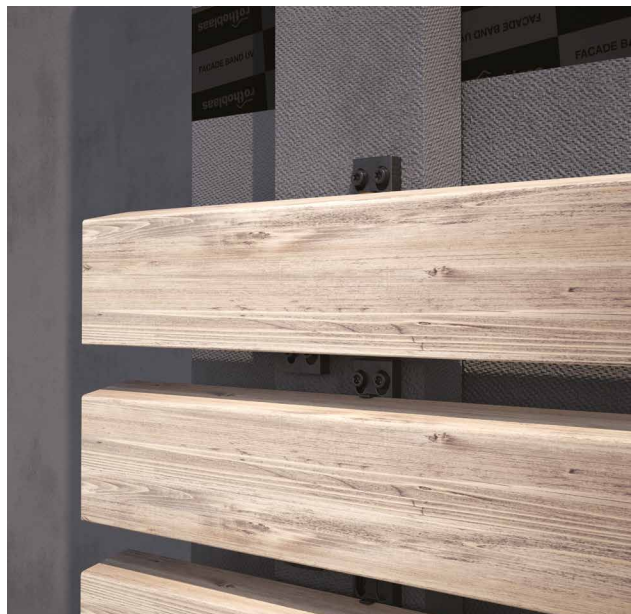
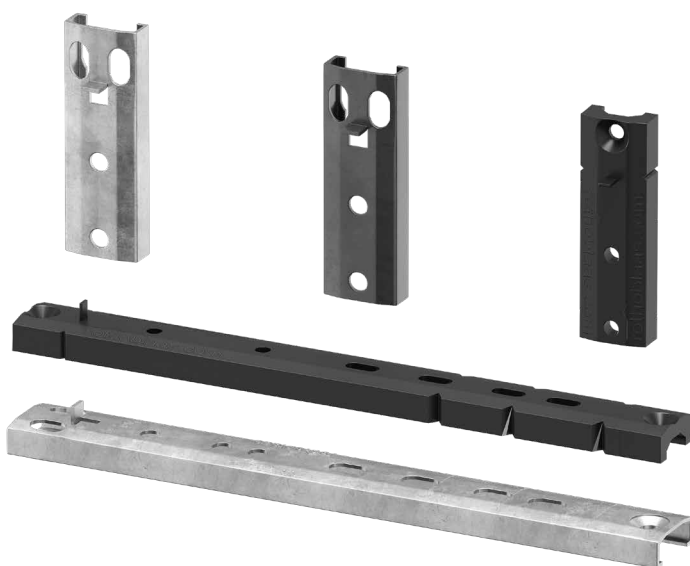
Completely concealed, ensures a highly attractive result. Ideal for both decks and façades. Available in metal and plastic.

VENTILATION

The micro-ventilation under the boards prevents water stagnation, ensuring excellent durability. The larger bearing surface ensures that the substructure is not crushed.

INGENIOUS

Assembly stop for an accurate and simple installation of the fastener. Slotted holes to follow movements of the wood. Allows replacement of individual boards.

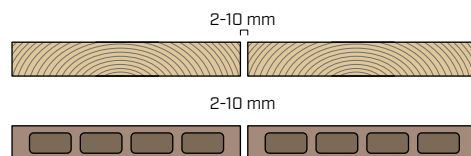


CALCULATION
TOOL



VIDEO

BOARDS



FASTENING ON



timber



WPC



aluminium

MATERIAL



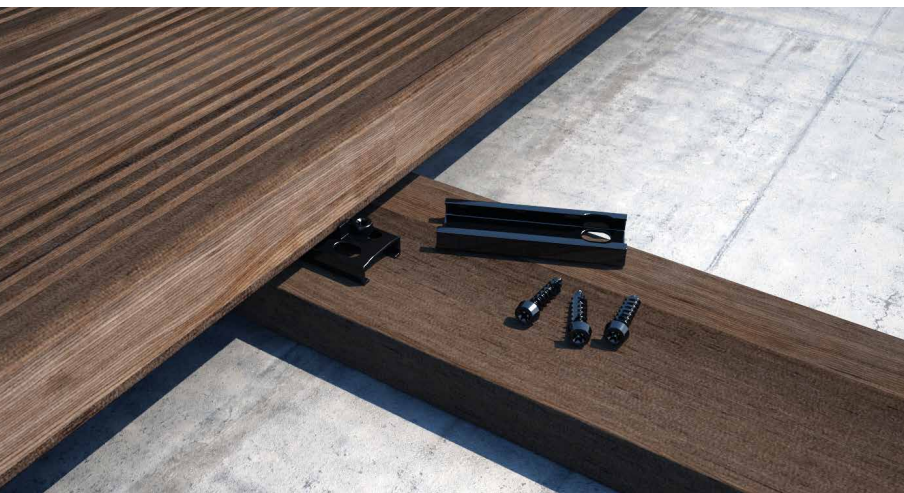
carbon steel with coloured
anti-rust coating



polyamide/black nylon



austenitic stainless steel
A2 | AISI304 (CRC II)



FIELDS OF USE

Outdoor use. Fastening of wooden or WPC boards on substructures in timber, WPC or aluminium. In the case of dimensionally unstable wood, the use of the metal version is recommended.

CODES AND DIMENSIONS

TERRALOCK

CODE	material	P x B x s [mm]	pcs
TER60	zinc-plated steel	60 x 20 x 8	100
TER180	zinc-plated steel	180 x 20 x 8	50
TER60N	zinc-plated steel, black	60 x 20 x 8	100
TER180N	zinc-plated steel, black	180 x 20 x 8	50

TERRALOCK PP

CODE	material	P x B x s [mm]	pcs
TER60PPN	black nylon	60 x 20 x 8	100
TER180PPN	black nylon	180 x 20 x 8	50

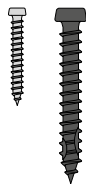
In the case of dimensionally unstable wood, the use of the metal version is recommended.

TERRALOCK A2

CODE	material	P x B x s [mm]	pcs
TER60A2	stainless steel AISI304	60 x 20 x 8	100
TER180A2	stainless steel AISI304	180 x 20 x 8	50

KKT A4 | AISI316/KKT COLOR

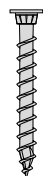
fastening on timber and WPC for TERRALOCK | TERRALOCK A2



d ₁ [mm]	CODE	L [mm]	pcs
5 TX 20	KKTX520A4	20	200
	KKTX525A4	25	200
	KKTX530A4	30	200
	KKTX540A4	40	100
	KKTN540	40	200

KKF AISI410

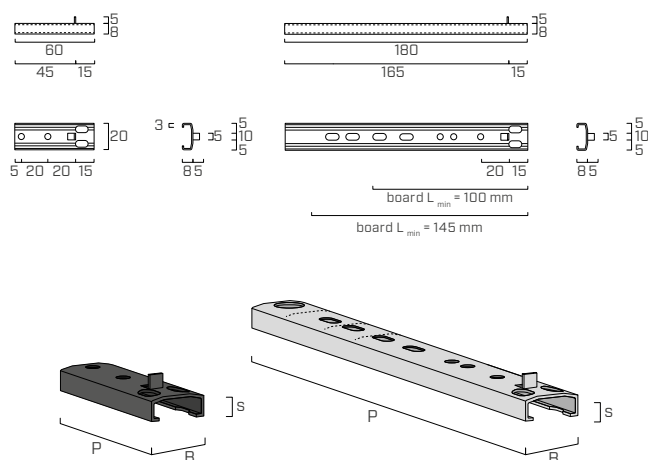
fastening on wood and WPC for TERRALOCK PP



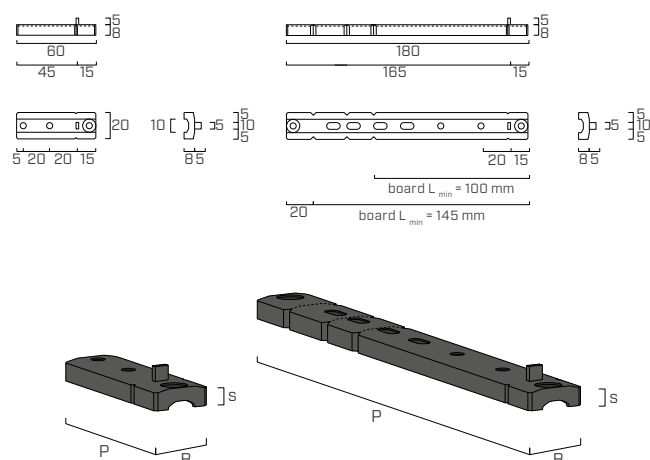
d ₁ [mm]	CODE	L [mm]	pcs
4,5 TX 20	KKF4520	20	200
	KKF4540	40	200

GEOMETRY

TERRALOCK | TERRALOCK A2



TERRALOCK PP



TERRALOCK PP

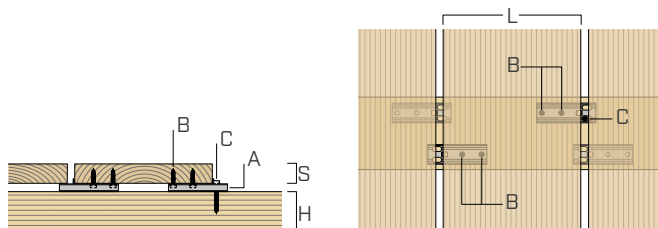
Version in plastic, ideal for creating patios near aquatic environments. Durability in time guaranteed by microventilation under the boards. Totally concealed fastening.

In the case of dimensionally unstable wood, the use of the metal version is recommended.

CONNECTOR SELECTION

TERRALOCK 60 | TERRALOCK 60 A2

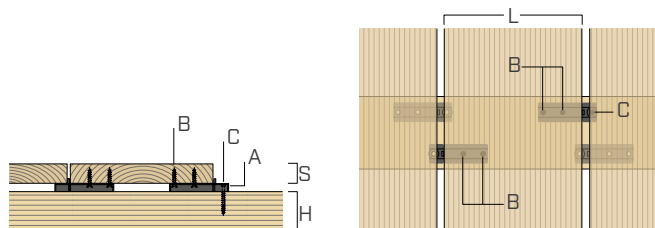
- A. TERRALOCK 60 | TERRALOCK 60 A2 fastener: 2 pcs
 B. top screws: 4pcs
 C. bottom screws: 1pc.



top screw type	minimum board thickness	bottom screw type	minimum joist height
B		C	
KKTX 5 x 20	S > 21 mm	KKT 5 x 40	H > 40 mm
KKTX 5 x 25	S > 26 mm	KKT 5 x 50	H > 50 mm
KKTX 5 x 30	S > 31 mm	KKT 5 x 60	H > 60 mm

TERRALOCK PP 60

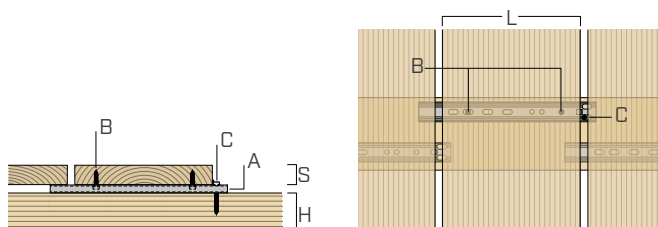
- A. TERRALOCK PP 60 fastener: 2pcs
 B. top screws: 4pcs
 C. bottom screws: 1pc.



top screw type	minimum board thickness	bottom screw type	minimum joist height
B		C	
KKF 4,5 x 20	S > 19 mm	KKF 4,5 x 40	H > 38 mm

TERRALOCK 180 | TERRALOCK 180 A2

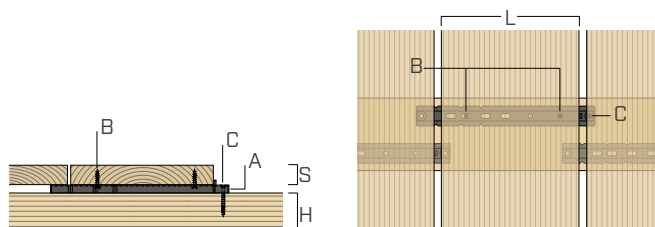
- A. TERRALOCK 180 | TERRALOCK 180 A2 fastener: 1 pcs
 B. top screws: 2pcs
 C. bottom screws: 1pc.



top screw type	minimum board thickness	bottom screw type	minimum joist height
B		C	
KKTX 5 x 20	S > 21 mm	KKT 5 x 40	H > 40 mm
KKTX 5 x 25	S > 26 mm	KKT 5 x 50	H > 50 mm
KKTX 5 x 30	S > 31 mm	KKT 5 x 60	H > 60 mm

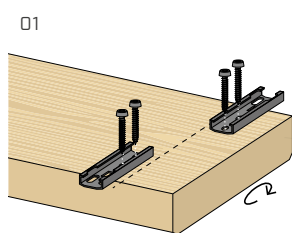
TERRALOCK PP 180

- A. TERRALOCK PP 180 fastener: 1 pc.
 B. top screws: 2pcs
 C. bottom screws: 1pc.

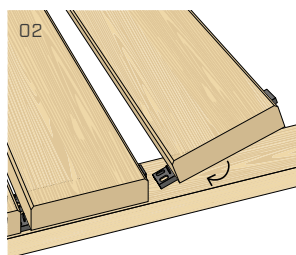


top screw type	minimum board thickness	bottom screw type	minimum joist height
B		C	
KKF 4,5 x 20	S > 19 mm	KKF 4,5 x 40	H > 38 mm

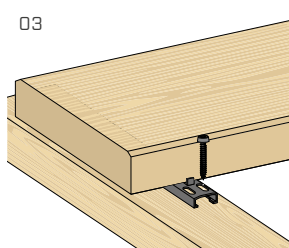
TERRALOCK 60 | TERRALOCK 60 A2 INSTALLATION



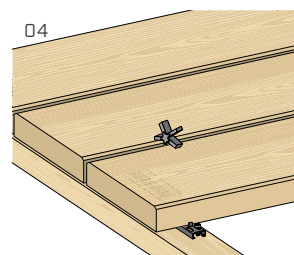
Position two connectors per each fixing node.



Turn the board over and slide it under the previously fastened board fixed to the sub-structure.

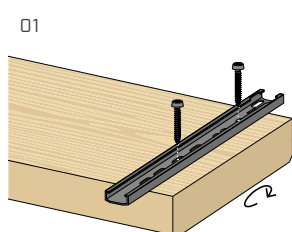


Fix each fastener to the sub-structure by inserting a KKTX screw in one of the two slotted holes.

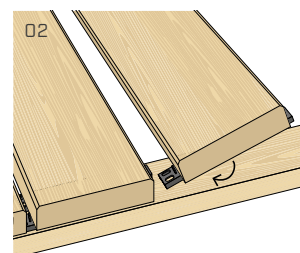


It is recommended to use STAR spacers inserted between the boards.

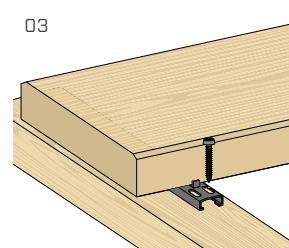
TERRALOCK 180 | TERRALOCK 180 A2 INSTALLATION



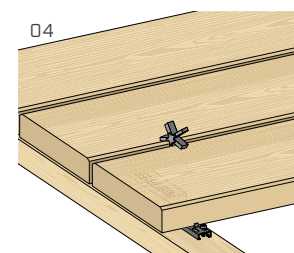
For each board arrange one fastener and fix it by means of two KKTX screws.



Turn the board over and slide it under the previously fastened board fixed to the sub-structure.

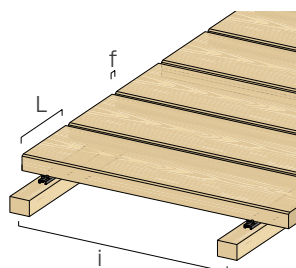


Fix each fastener to the sub-structure by inserting a KKTX screw in one of the two slotted holes.



It is recommended to use STAR spacers inserted between the boards.

CALCULATION EXAMPLE



i = joist spacing | L = board width | f = joint width



TERRALOCK 60

$i = 0,60 \text{ m}$ | $L = 140 \text{ mm}$ | $f = 7 \text{ mm}$

$1\text{m}^2 / i / (L + f) \cdot 2 = \text{pcs at m}^2$

$1\text{m}^2 / 0,6 \text{ m} / (0,14 \text{ m} + 0,007 \text{ m}) \cdot 2 = \mathbf{23 \text{ pcs /m}^2}$

+ 46 pcs. top screws type B/m²

+ 12 pcs. bottom screws type C/m²

TERRALOCK 180

$i = 0,60 \text{ m}$ | $L = 140 \text{ mm}$ | $f = 7 \text{ mm}$

$1\text{m}^2 / i / (L + f) = \text{pcs at m}^2$

$1\text{m}^2 / 0,6 \text{ m} / (0,14 \text{ m} + 0,007 \text{ m}) = \mathbf{12 \text{ pcs /m}^2}$

+ 24 pcs. top screws type B/m²

+ 12 pcs. bottom screws type C/m²

DECKS WITH COMPLEX GEOMETRIES

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

