

CONNECTOR FOR DECKING

FOUR VERSIONS

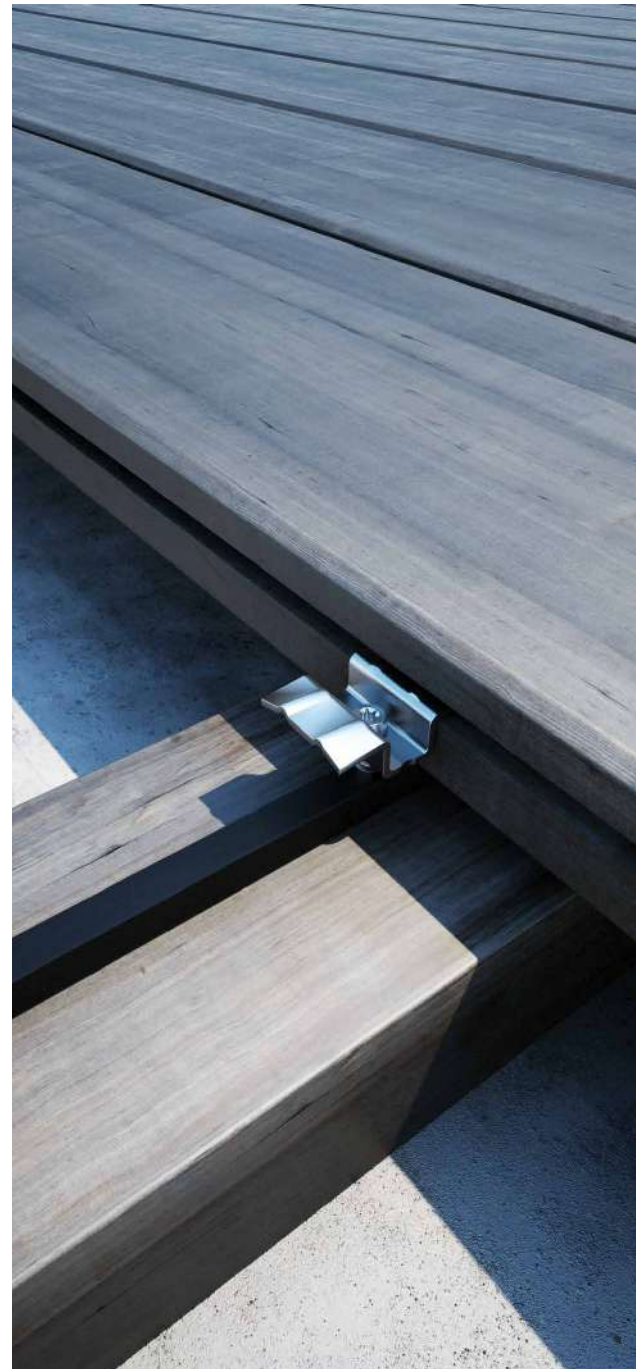
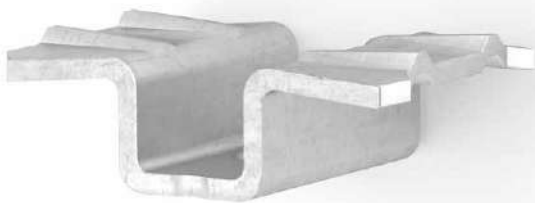
Different sizes for applications on boards with different thickness and gaps of varying width. Black version for complete concealment.

DURABILITY

The stainless steel ensures high corrosion-resistance. The micro-ventilation between the boards helps the durability of the wooden elements.

ASYMMETRIC GROOVING

Ideal for boards with asymmetrical "female-female" groove cuts. Ribbing on the surface of the connector ensures excellent stability.



CHARACTERISTICS

FOCUS	excellent grooving versatility
BOARDS	symmetrical grooving
JOINTS	from 7,0 to 9,0 mm
FASTENERS	KKTX520A4, KKA420, KKAN420



MATERIAL

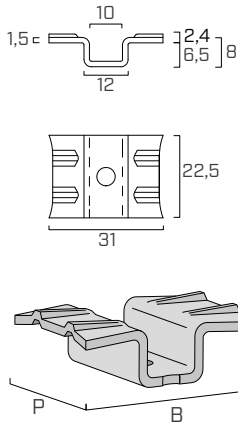
A2 | AISI304 austenitic stainless steel and stainless steel with coloured organic coating.

FIELDS OF USE

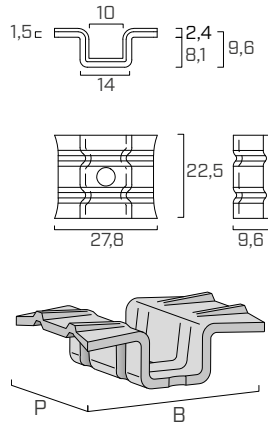
Use in aggressive outdoor environments. Fastening timber or WPC boards on substructures in wood, WPC or aluminium. Suitable for service classes 1-2-3.

GEOMETRY

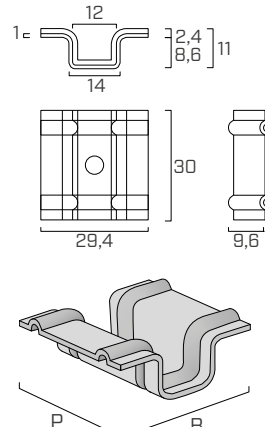
TVM1



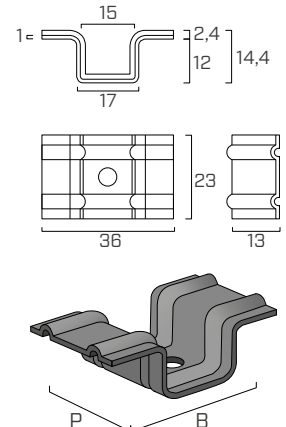
TVM2



TVM3



TVMN4



CODES AND DIMENSIONS

TVM A2 | AISI304

CODE	material	P x B x s [mm]	pcs
TVM1	A2 AISI304	22,5 x 31 x 2,5	500
TVM2	A2 AISI304	22,5 x 28 x 2,5	500
TVM3	A2 AISI304	30 x 29,4 x 2,5	500

TVM COLOR

CODE	material	P x B x s [mm]	pcs
TVMN4	A2 AISI304 with black coating	23 x 36 x 2.5	500

KKT X

fastening on timber and WPC for TVM A2 | AISI304



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

KKT COLOR

fastening on timber and WPC for TVM COLOR



d ₁ [mm]	CODE	L [mm]	pcs
5 TX 20	KKTN540	40	200

KKA AISI410

fastening on aluminium for TVM A2 | AISI304



d ₁ [mm]	CODE	L [mm]	pcs
4 TX 20	KKA420	20	200

KKA COLOR

fastening on aluminium for TVM COLOR



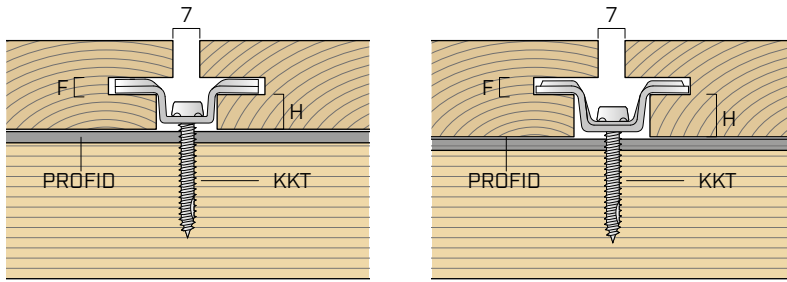
d ₁ [mm]	CODE	L [mm]	pcs
4 TX 20	KKAN420	20	200



KKA

Can also be used for fastening on aluminium profiles using KKA AISI410 or KKA COLOR screws.

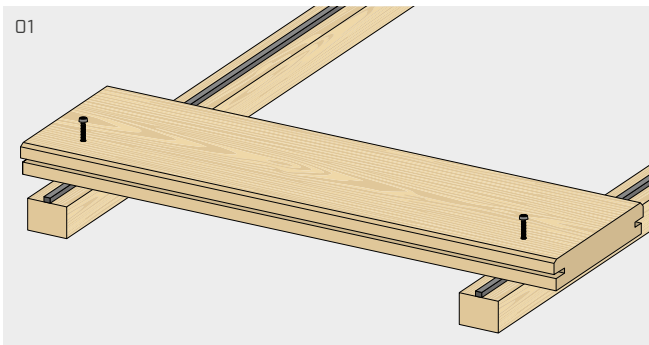
GROOVING GEOMETRY



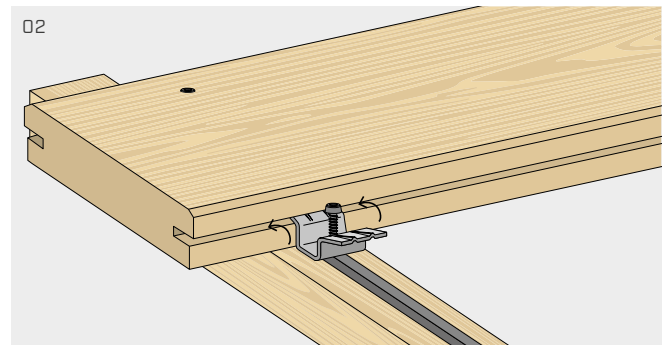
ASYMMETRICAL GROOVING

Min. thickness	F	3 mm
Min recommended height TVM1	H	8 mm
Min recommended height TVM2	H	10 mm
Min recommended height TVM3	H	10 mm
Min recommended height TVMN	H	13 mm

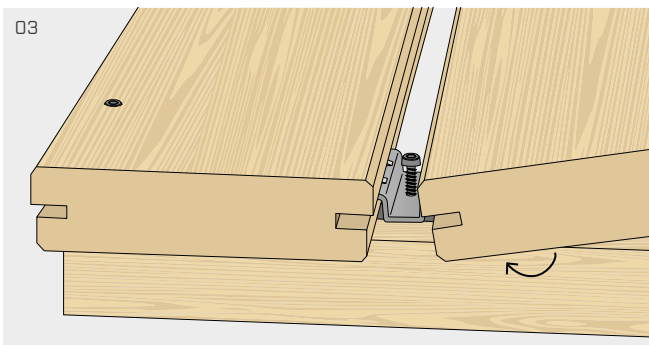
INSTALLATION



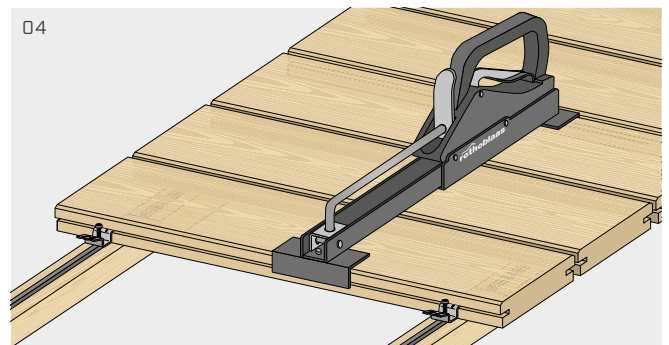
01 Position the PROFID spacer at the joist centerline. First board: fix with suitable screws which are left visible.



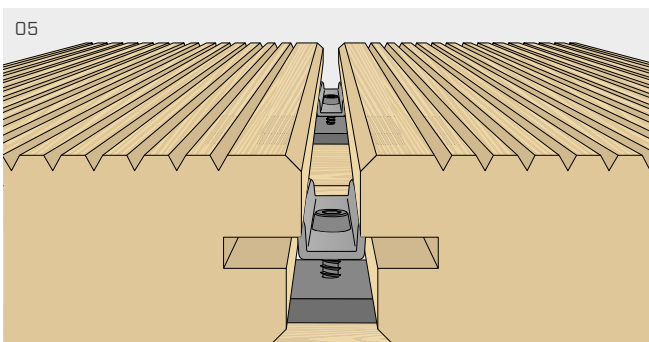
02 Insert the TVM fastener into the groove cut so that the side fin adheres to the groove in the board.



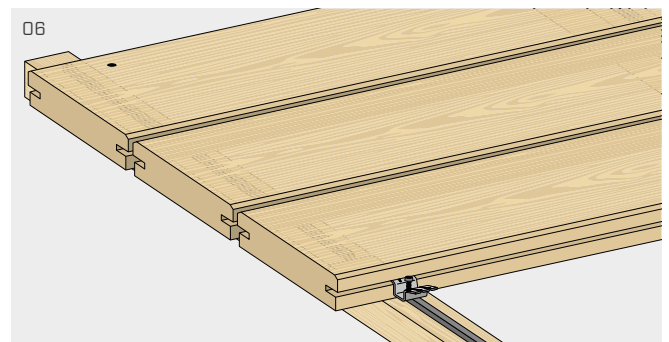
03 Position the next board by inserting it into the TVM fastener.



04 Using the CRAB MINI clamp, tighten the two boards until the gap between them is 7 mm (see product page 334).

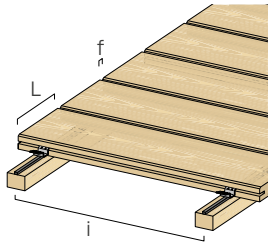


05 Fix the fastener to the joist underneath by using the KKTX screw.



06 Repeat the operations for the remaining boards. Last board: repeat step 01.

CALCULATION EXAMPLE



INCIDENCE ESTIMATE FORMULA PER m²

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

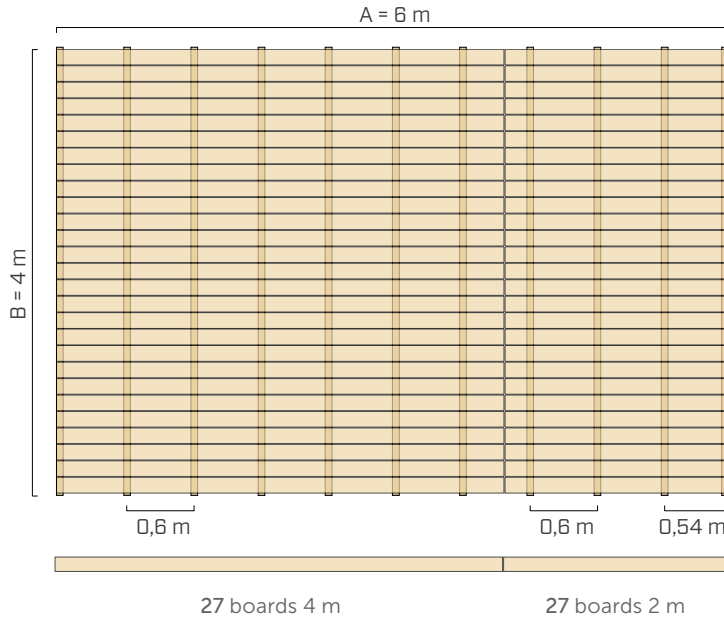
i = joists spacing

L = board width

f = gap width

PRACTICAL EXAMPLE

NUMBER OF BOARDS AND JOISTS



PATIO SURFACE

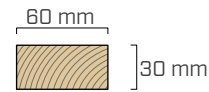
$$S = A \cdot B = 6 \text{ m} \cdot 4 \text{ m} = 24 \text{ m}^2$$

WOODEN PLANKING



$L = 140 \text{ mm}$
 $s = 21 \text{ mm}$
 $f = 7 \text{ mm}$

JOISTS



$b = 60 \text{ mm}$
 $h = 30 \text{ mm}$
 $i = 0,6 \text{ m}$

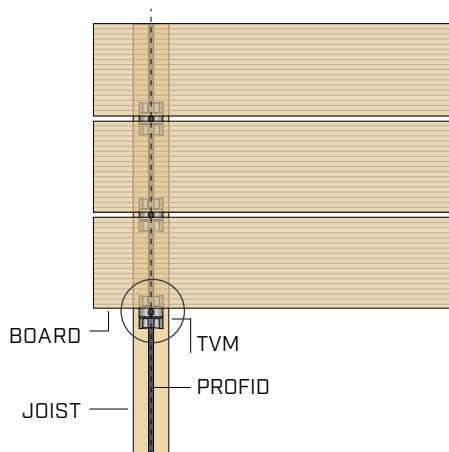
$$\begin{aligned} \text{no. boards} &= [B/(L+f)] \\ &= [4/(0,14+0,007)] = 27 \text{ boards} \end{aligned}$$

no. 4 m boards = 27 boards

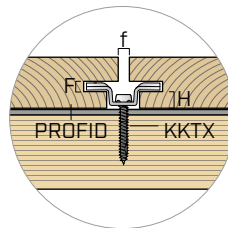
no. 2 m boards = 27 boards

$$\text{no. battens} = [A/i] + 1 = (6/0,6) + 1 = 11 \text{ battens}$$

SCREW SELECTION



Head thickness	$S_{\text{screw head}}$	2,8 mm
Grooving thickness	F	4 mm
Grooving dimension	H	$(s-F)/2$ 8 mm
PROFID thickness	S_{PROFID}	8 mm
Pull-through length	L_{pen}	$4 \cdot d$ 20 mm



MINIMUM SCREW LENGTH

$$\begin{aligned} &= S_{\text{screw head}} + H + S_{\text{PROFID}} + L_{\text{pen}} \\ &= 2,8 + 8 + 8 + 20 = 38,8 \text{ mm} \end{aligned}$$

CHOICE OF SCREW

KKTX540A4

TVM NUMBER CALCULATION

QUANTITY FOR INCIDENCE FORMULA

$$I = S/i/(L + f) = \text{pcs of TVM}$$

$$I = 24 \text{ m}^2/0,6 \text{ m}/(0,14 \text{ m} + 0,007 \text{ m}) = 272 \text{ pcs TVM}$$

waste coefficient = 1,05

$$I = 272 \cdot 1,05 = 286 \text{ pcs TVM}$$

$$I = 286 \text{ pcs TVM}$$

TVM NUMBER = 286 pcs

QUANTITY FOR THE NUMBER OF INTERSECTIONS

$$I = \text{no. boards with TVM} \cdot \text{no. battens} = \text{pcs. of TVM}$$

$$\begin{aligned} \text{no. boards with TVM} &= (\text{number of boards} - 1) \\ &= (27 - 1) = 26 \text{ boards} \end{aligned}$$

$$\text{no. of joists} = (A/i) + 1 = (6/0,6) + 1 = 11 \text{ joists}$$

$$\text{no. intersections} = I = 26 \cdot 11 = 286 \text{ pcs TVM}$$

$$I = 286 \text{ pcs TVM}$$

SCREWS NUMBER = No. TVM = 286 pcs KKTX540A4