TVM

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

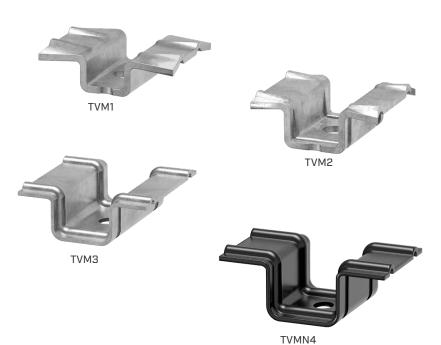
The stainless steel ensures high corrosion-resistance. The micro-ventilation between the boards helps the durability of the wooden elements.

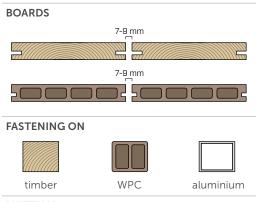
ASYMMETRIC GROOVING

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









MATERIAL



A2 | AISI304 austenitic stainless steel (CRC II)



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.

CODES AND DIMENSIONS

TVM A2 | AISI304



CODE	material	PxBxs	pcs
		[mm]	
TVM1	A2 AISI304	22,5 x 31 x 2,4	500
TVM2	A2 AISI304	22,5 x 28 x 2,4	500
TVM3	A2 AISI304	30 x 29.4 x 2.4	500

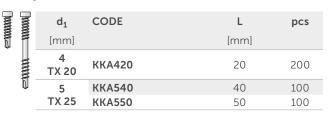
KKT X

fastening on timber and WPC for TVM A2 | AISI304

d_1	CODE	L	pcs
[mm]		[mm]	
5 TX 20	KKTX520A4	20	200
	KKTX525A4	25	200
	KKTX530A4	30	200
	KKTX540A4	40	100

KKA AISI410

fastening on aluminium for TVM A2 | AISI304



TVM COLOR



CODE	material	PxBxs	pcs
		[mm]	
TVMN4	A2 AISI304 with black coating	23 x 36 x 2.4	200

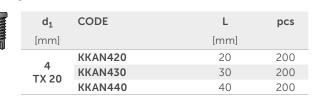
KKT COLOR

fastening on timber and WPC for TVM COLOR

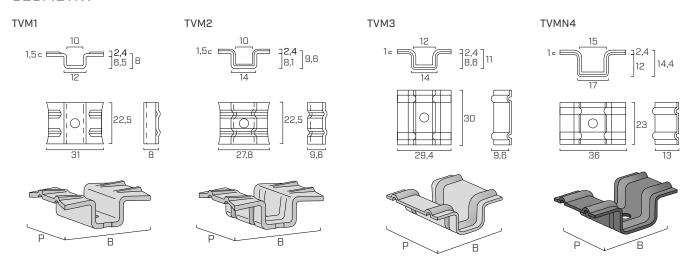
	d₁ [mm]	CODE	L [mm]	pcs
	5 TX 20	KKTN540	40	200

KKA COLOR

fastening on aluminium for TVM COLOR



GEOMETRY

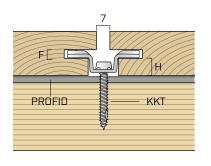


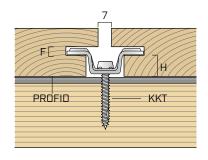


KKA

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

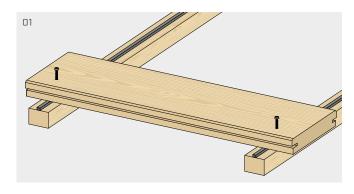
■ GROOVING GEOMETRY



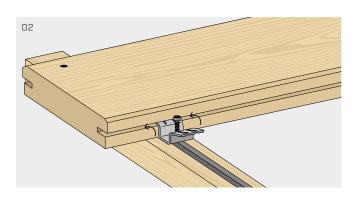


ASYMMETRICAL GROOVING		
Min. thickness	F	3 mm
Min recommended height TVM1	Н	7 mm
Min recommended height TVM2	Н	9 mm
Min recommended height TVM3	Н	10 mm
Min. recommended height TVMN	Н	13 mm

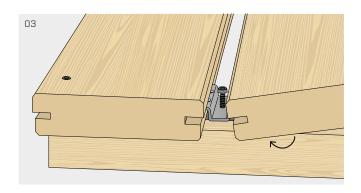
INSTALLATION



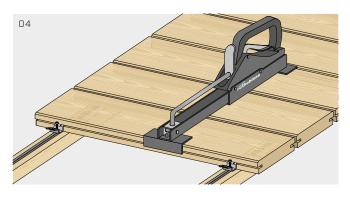
Position the PROFID spacer at the joist centerline. First board: fix with suitable screws which are left visible.



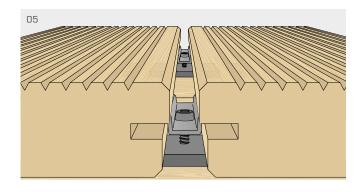
Insert the TVM fastener into the groove cut so that the side fin adheres to the groove in the board.



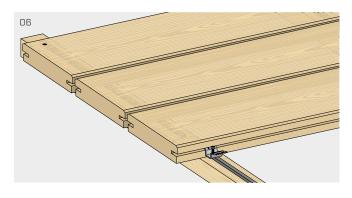
Position the next board by inserting it into the TVM fastener.



Using the CRAB MINI or CRAB MAXI clamp, tighten the two boards until the gap between them is 7 mm (see product page 395).



Fix the fastener to the batten underneath by using the KKT screw.



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

CALCULATION EXAMPLE



INCIDENCE ESTIMATE FORMULA PER m2



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

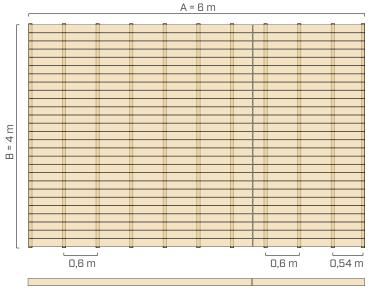
i = battens spacing

L = board width

f = gap width

■ PRACTICAL EXAMPLE

NUMBER OF BOARDS AND BATTENS



27 boards 4 m

27 boards 2 m

PATIO SURFACE

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

WOODEN PLANKING



BATTENS



no. boards = [B/(L+f)]

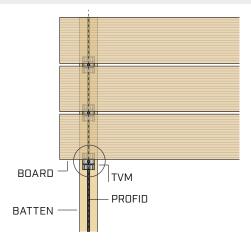
= [4/(0,14+0,007)] = 27boards

no. 4 m boards = **27 boards**

no. 2 m boards = 27 boards

no. battens = [A/i] + 1 = (6/0.6) + 1 = 11 battens

SCREW SELECTION



Screw head thickness	S _{screw head}		2,8 mm
Grooving thickness	F		4 mm
Grooving dimension	Н		10 mm
PROFID thickness	S _{PROFID}		8 mm
Pull-through length	L_pen	4 · d	20 mm



MINIMUM SCREW LENGTH

 $= S_{\text{screw head}} + H + S_{\text{PROFID}} + L_{\text{pen}}$ = 2,8 + 10 + 8 + 20 = **40,8 mm**

CHOICE OF SCREW

KKTX540A4

TVM NUMBER CALCULATION

QUANTITY FOR INCIDENCE FORMULA

I = S/i/(L + f) = 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 pcs TVM

QUANTITY FOR THE NUMBER OF INTERSECTIONS

I= no. boards with TVM no. battens = pcs. of TVM

no. boards with TVM = (number of boards - 1) = (27 - 1) = 26 boards no. of battens = (A/i) + 1 = (6/0.6) + 1 = 11 battens

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

I = 286 pcs TVM

TVM NUMBER = 286 pcs

SCREWS NUMBER = No. TVM = 286 pcs KKTX540A4