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.

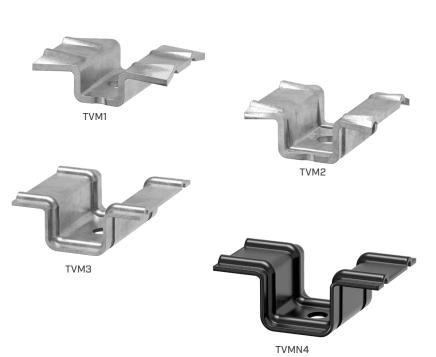
DURABILITY

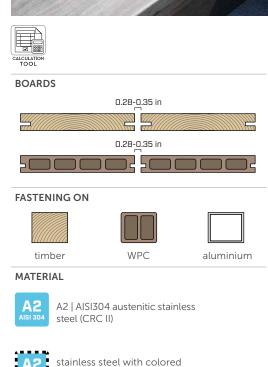
The stainless steel ensures high corrosion-resistance. The micro-ventilation between the boards helps the durability of the wooden elements.

ASYMMETRIC GROOVING

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









FIELDS OF USE

organic coating

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]	[in]	
TVM1	A2 AISI304	22,5 x 31 x 2,4	0.89 x 1.22 x 0.09	500
TVM2	A2 AISI304	22,5 x 28 x 2,4	0.89 x 1.10 x 0.09	500
TVM3	A2 AISI304	30x 29,4 x 2,4	1.18 x 1.16 x 0.09	500

KKT X

fastening on timber and WPC for TVM A2 | AISI304



d ₁	CODE	L		pcs
[mm] [in]		[mm]	[in]	
5	KKTX520A4	20	13/16	200
0.20 #11 TX 20	KKTX525A4	25	1	200
	KKTX530A4	30	1 3/16	200
	KKTX540A4	40	1 9/16	100

KKA AISI410

fastening on aluminium for TVM A2 | AISI304



	d_1	CODE		L		
	[mm] [in]		[mm]	[in]		
	4 0.16 #7 TX 20	KKA420	20	13/16	200	
	5 0.20	KKA540	40	1 9/16	100	
٦	#11 ГХ 20	KKA550	50	115/16	100	

TVM2

0.06 = ≡

TVM COLOR



CODE	material	PxBxs		pcs
		[mm]	[in]	
TVMN4	A2 AISI304 with black coating	23 x 36 x 2,4	0.87 x 1.42 x 0.09	500

KKT COLOR

fastening on timber and WPC for TVM COLOR



d_1	CODE		L	pcs
[mm] [in]		[mm]	[in]	
5 0.20 #11 TX 20	KKTN540	40	1 9/16	200

KKA COLOR

fastening on aluminium for TVM COLOR

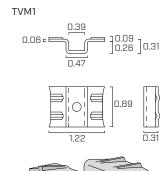


TVM3

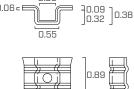
0.04∊⋿

d_1	CODE	ODE L		pcs
[mm] [in]		[mm]	[in]	
4 0.16 #7 TX 20	KKAN420	20	13/16	200
	KKAN430	30	1 3/16	200
	KKAN440	40	1 9/16	200

GEOMETRY



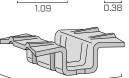


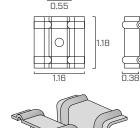


0.39



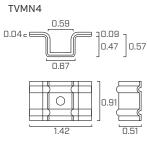
0.31



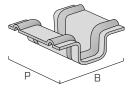


0.47

0.09 0.43



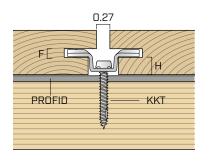


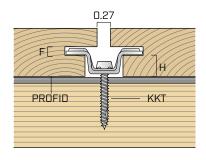






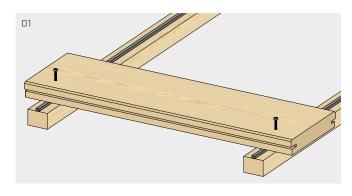
■ GROOVING GEOMETRY



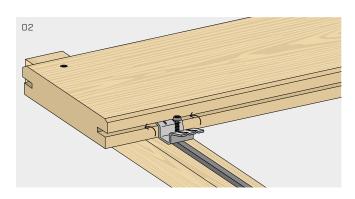


ASYMMETRICAL GROOVING				
Min. thickness	F	0.12 in		
Min. recommended height TVM1	Н	0.28 in		
Min. recommended height TVM2	Н	0.35 in		
Min. recommended height TVM3	Н	0.39 in		
Min. recommended height TVMN	Н	0.51 in		

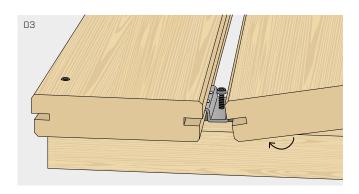
INSTALLATION



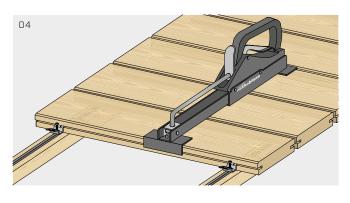
Position the PROFID spacer at the joist centerline. First board: fix with suitable screws which are left visible.



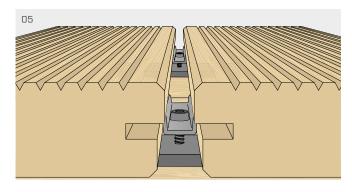
Insert the TVM fastener into the groove cut so that the side fin adheres to the groove in the board.



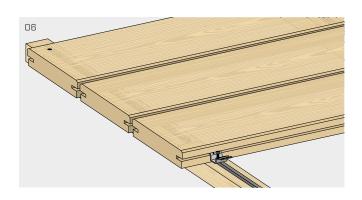
Position the next board by inserting it into the TVM fastener.



Using the CRAB MINI or CRAB MAXI clamp, tighten the two boards until the gap between them is 0.28 inch (see product page 424).



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 ft2



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

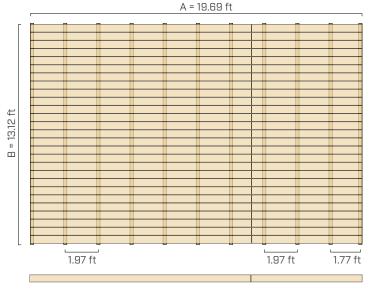
i = battens spacing

L = board width

f = gap width

■ PRACTICAL EXAMPLE

NUMBER OF BOARDS AND BATTENS



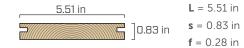
27 boards 13.12 ft

27 boards 6.56 ft

PATIO SURFACE

 $S = A \cdot B = 16.69 \text{ ft} \cdot 13.12 \text{ ft} = 258.33 \text{ ft}^2$

WOODEN PLANKING



BATTENS



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

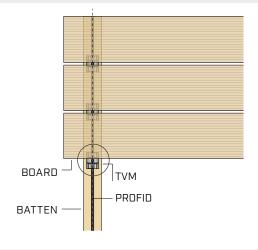
= [13.12 / (0.46+0.02)] = 27 boards

no. 13.12 ft boards = **27 boards**

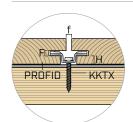
no. 6.56 ft boards = 27 boards

no. battens = [A/i] + 1 = (19.69 / 1.97) + 1 = 11 battens

SCREW SELECTION



Screw head thickness	S _{screw head}		0.11 in
Grooving thickness	F		0.16 in
Grooving dimension	Н		0.39 in
PROFID thickness	S _{PROFID}		0.31 in
Pull-through length	L _{pen}	4 · d	0.80 in



MINIMUM SCREW LENGTH

 $= S_{screw head} + H + S_{PROFID} + L_{pen}$ = 0.11 + 0.39 + 0.31 + 0.8 = **1.61 in**

CHOICE OF SCREW

KKTX540A4

TVM NUMBER CALCULATION

QUANTITY FOR INCIDENCE FORMULA

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

 $I = 258.33 \text{ ft}^2/1.97 \text{ ft}/(0.46 \text{ ft} + 0.02 \text{ ft}) = 272 \text{ pcs TVM}$

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 = (19.69 / 1.97) + 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