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CEO

## Welcome to KNAPP®!

KNAPP® connecting systems offer creative solutions for innovative building and construction tasks. In more than 30 years of company history we have, as a manufacturer of patented timber connectors, developed high-quality products for the market and placed them into the market.

The connectors we have developed have one thing in common. They are installed invisibly, are

self-tightening and parts can be disassembled again.

Become inspired by the versatile and universal possibilities. Please find on the following pages our complete product range. Our comprehensive service offers you the possibility to find efficient and innovative solutions for the realisation of your projects.

## Table of contents

<b>Furniture and Architectural Millwork Connectors</b> 4 Biscuit Slide-in Connector   One-piece Joint Connector UNO and DUO Hook Connectors		
<b>Dowels</b> 8 Dowel spring steel   2-part locking dowel QUICK-SET Dowel made of plastic		
<b>Timber pegs</b> 10 Timber pegs MILLER DOWEL		
<b>Staircase and Table Leg Connectors</b> 11 Nivellierschraube zur Stufenmontage   Spannverbinder für Trittstufen und Tischbeine easy-con®		
<b>Decking Connectors</b> 12 QUATRO for decks, boards and wall panels, indoor and outdoor.		
<b>Glazing Stop Connectors for Windows and Doors</b> 13 Glazing system FIXclip-profile   Glass and molding connector made of plastic		
<b>Molding and Trim Connectors</b> 15 KCLICK-System		
<b>Cabinets and Case Goods Connectors</b> 16 MODULAR and Anti-rotation clips made of spring steel CONTRA 800 Connector for case goods		
<b>Countertop / Worktop and Frame Connectors</b> 18 ZIPBOLT™ tension connectors for countertops /worktops, beds and tables.		
<b>Frames, Table and Bed Rail Connectors</b> 18 DUO-System		
<b>Post, Beam and Rail Connectors</b> 20 ACRO-System		

Table of contents

<b>Column-mounting Connector</b>	21		
BASIS-System			
<b>Timber Construction and Wood Curtain Walls</b>	22		
RICON®-- Beam Hanger for light to medium-size timber structures. i.e. timber framing, log home building			
<b>Timber Structures and heavy furniture</b>	31		
RICON® Stainless Steel beam hanger and frame connector for Timber structures, indoor and outdoor Furniture, Tables, Beds, Carports, Pergolas, Balconies, Playgrounds and Sports Equipment			
<b>Heavy Timber Construction</b>	33		
GIGANT Connector for main and secondary beam			
<b>Heavy Timber Construction</b>	34		
RICON®S Beam Hanger for heavy and mass timber structures MATEO Timber Peg			
<b>One-Component Polyurethane Adhesive</b>	38		
KNAPP®-Adhesive PU+ and PM+			
<b>Heavy Timber Construction</b>	39		
T-JOINT for slanted screwing			
<b>Mass Timber Construction</b>	40		
MEGANT® Heavy-duty beam hanger			
<b>Holzrahmenbau, Fertighausbau</b>	43		
WALCO® Z40   WALCO® Z32   WALCO® V60   WALCO® V80 WALCO® V Langloch Wandverbinder			
<b>Facades, Prefab Walls and Modula Construction</b>	45		
WALCO® 60 und WALCO® 80 connector for facade and wall fixation, room components			
<b>Wall-floor-anchor system</b>	48		
WALCO® L and WALCO® T WALCO® BOLT   WALCO® PIPE			
<b>Service</b>	51		
Planner service   Software partner			
<b>Screws, nuts</b>	52		
SCS-screws   PH-screws   Hex head screws   Insert screws   Connecting nuts			
<b>Ordering</b>	54		
Ordering   Online-Store   GTCs			

## Furniture and Architectural Millwork Connectors

## Biscuit slide-in Connectors






Art. No.	Description	Qty.	Unit	List Price
K053	SUNNY Biscuit knock-in slide connector, plastic (incl. 1 pc. insert tool)	250	Pairs	<b>72,50 €</b> (0,29 € je Pairs)
	K053/P <b>Minipack</b> SUNNY Pack (incl. 1 pc. insert tool)	110	Pairs	<b>56,00 €</b> (0,49 € je Pairs)
K049	SILVER Biscuit knock-in slide connector, alu/zinc die-casting (incl. 1 pc. insert tool)	250	Pairs	<b>225,00 €</b> (0,90 € je Pairs)
		125	Pairs	<b>123,75 €</b> (0,99 € je Pairs)
	K049/P <b>Minipack</b> SILVER Pack (incl. 1 pc. insert tool)	50	Pairs	<b>56,00 €</b> (1,12 € je Pairs)
K023	CHAMP Biscuit glue-in slide connector, plastic (incl. 1 pc. KNAPP®-Adhesive PU+ and 2 pcs. templates)	250	Pairs	<b>125,00 €</b> (0,50 € je Pairs)
		125	Pairs	<b>73,75 €</b> (0,59 € je Pairs)
	K023/P <b>Minipack</b> CHAMP Pack (incl. 1 pc.. setting template)	80	Pairs	<b>56,00 €</b> (0,70 € je Pairs)
K026	METAL Biscuit screw-in, slide-in connector alu/zinc die casting, galvanic zinc coating in blue or yellow (incl. 500 pcs. PH-screws 3x13 mm and 3x25 mm each)	250	Pairs	<b>267,50 €</b> (1,07 € je Pairs)
		125	Pairs	<b>146,25 €</b> (1,17 € je Pairs)
	K026/P <b>Minipack</b> METAL Pack (incl. PH-screws 3x13/3x25)	40	Pairs	<b>56,00 €</b> (1,40 € je Pairs)
K030	CHICO heavy duty slide-in connector alu/zinc die-casting	50	Pairs	<b>71,50 €</b> (1,43 € je Pairs)
	K030/P <b>Minipack</b> CHICO Pack	25	Pairs	<b>56,00 €</b> (2,24 € je Pairs)

## Biscuit Clip-in Connectors


Art. No.	Description	Qty.	Unit	List Price
K010/250G	DEKLICK schwer lösbar (grau) inkl. Kleber PU+	250	Pairs	<b>333,75 €</b> (1,34 € je Pairs)
	K010/PG <b>Minipack</b> DEKLICK Pack grau inkl. Vierkantmutter und SK-Schrauben	35	Pairs	<b>56,00 €</b> (1,60 € je Pairs)
K010/250S	DEKLICK lösbar (schwarz) inkl. Kleber PU+	250	Pairs	<b>333,75 €</b> (1,34 € je Pairs)
	K010/PS <b>Minipack</b> DEKLICK Pack schwarz inkl. Vierkantmutter und SK-Schrauben	35	Pairs	<b>56,00 €</b> (1,60 € je Pairs)

Art. No.	Description	Qty.	Unit	List Price
K010/G	 <span style="background-color: #ccc; border-radius: 50%; padding: 2px;">NEW</span> DECLICK Block schwer lösbar (grau)	250	Pc.	<b>212,50 €</b> (0,85 € je Pairs)
K010/S	 <span style="background-color: #ccc; border-radius: 50%; padding: 2px;">NEW</span> DECLICK Block lösbar (schwarz) Schrauben Empfehlung: Z950 SK-Edelstahlschraube RICON 5x50 mm oder Z409 SK-Edelstahlschraube A2 4,5x35 mm	250	Pc.	<b>212,50 €</b> (0,85 € je Pairs)
K011/G	 <span style="background-color: #ccc; border-radius: 50%; padding: 2px;">NEW</span> DECLICK Klammer schwer lösbar (grau) inkl. Kleber Pu+	250	Pc.	<b>121,25€</b> (0,49 € / pc.)
K011/S	 <span style="background-color: #ccc; border-radius: 50%; padding: 2px;">NEW</span> DECLICK Klammer lösbar (schwarz) inkl. Kleber PU+	250	Pc.	<b>121,25€</b> (0,49 € / pc.)
K010/Box	 <span style="background-color: #ccc; border-radius: 50%; padding: 2px;">NEW</span> DECLICK BOX 50 St. DECLICK Block lösbar schwarz, 50 St. DECLICK Block schwer lösbar grau 50 St. DECLICK Klammer lösbar schwarz, 50 St. DECLICK Klammer schwer lösbar grau 100 St. SK-Edelstahlschrauben RICON 5x50 mm A2, TX25 100 St. Vierkantmutter M6 DIN 562, galv. verzinkt 1 St. KNAPP-Kleber PU+, 1 St. Torx Bit T25 1/4 Zoll Länge 26mm 300 Stk SK-Edelstahlschrauben 4,5x35mm 1 St. Torx Bit T15 - lang, 1 St. Holzmuster DECLICK	1		<b>198,75 €</b>
K054	 CLIPS Biscuit glue-in, snap-in connector, plastic (incl. 1 pc. KNAPP®-Adhesive PU+)	250	Pairs	<b>165,00€</b> (0,66 € je Pairs)
		125	Pairs	<b>93,75 €</b> (0,75 € je Pairs)
		K054/P Minipack CLIPS Pack	44	Pairs
K058	 FAST Biscuit knock-in, snap-in connector, plastic (incl. 1 pc. insert tool)	250	Pairs	<b>120,00€</b> (0,48 € je Pairs)
		125	Pairs	<b>65,00 €</b> (0,52 € je Pairs)
		K058/P Minipack FAST Pack (incl. 1 pc. insert tool)	90	Pairs
K053/BOX	 HITLINE 125 starter box Contains: 125 pairs each SUNNY, SILVER and FAST, 1 pc. insert tool	1	Pc.	<b>253,60 €</b>
		K302/P Minipack HITLINE Pack with 25 pairs SUNNY, 25 pairs SILVER, 25 pairs FAST (incl. 1 pc. insert tool)	1	Pack
K301/BOX	 CLASSIC starter box Contains: 80 pairs each CHAMP and METAL, 50 pairs CLIPS, 1 pc. KNAPP®-Adhesive PU+, 160 pcs. each PH-screws 3x13 mm and 3x25 mm and 2 pcs. CHAMP templates	1	Pc.	<b>222,80 €</b>
		K301/P Minipack CLASSIC-SET Pack with 24 pairs CHAMP, 24 pairs METAL, 8 pairs CLIPS, PH-screws, 1 pc. template	1	Pack





## Accessories









Art. No.	Description	Qty.	Unit	List Price
K049/E	Insert tool (for SUNNY, SILVER, FAST) 	1	Pc.	3,60 €
K857	 <b>NEW</b> Spannschraube M5x13 (für FIYU® LOCK 14)	1	Pc.	0,05 €
Z950	SK-Edelstahlschraube RICON 5x50 mm, A2, TX25	1	Pc.	0,21 €
Z409	SK-Edelstahlschraube A2 4,5x35 mm mit Bohrspitze	1	Pc.	0,08 €
Z411	Torx Bit 15 lang	1	Pc.	2,50 €
Z647	Imbusschlüssel ISK 5 mit Kugelkopf	1	Pc.	0,50 €
K658	 Fräser DEKLICK Universalfräskopf mit Fräsmesser DEKLICK Block (für Art.-Nr. K010)	1	Pc.	290,00 €
Z894	 Nutfräser DEKLICK	1	Pc.	459,00 €
Z896	Vierkantsmutter	1	Pc.	0,10 €
Z999	 Akkuschrauber Einhell TE-SD 3,6/1 Li	1	Pc.	33,00 €




## Einteiliger Spannverbinder

Art. No.	Description	Qty.	Unit	List Price
Z339	 ZIPBOLT™ Fastfit One-piece joint connector Drill hole diameter 20 mm, drilling depth 13 mm, min. board thickness 16 mm	250	Pcs.	90,00 € (0,36 €/ pc.)
		125	Pcs.	48,75 € (0,39 €/ pc.)
		80	Pcs.	36,00 € (0,45 €/ pc.)










## Einhängeverbinder

Art. No.	Description	Qty.	Unit	List Price
K614	 KOMBI Hook connector G10 Made of aluminum die-cast zinc incl. 500 pcs. PH-screws 3x25 mm	250	Pcs.	212,50 € (0,85 €/ pc.)
		125	Pcs.	118,75 € (0,95 €/ pc.)
K615	 KOMBI Hook-in bracket, stainless steel (G12/62) Suitable screws available: CS-screws A2 4,5x35 mm stainless steel, self-tapping (Art.No. Z409) CS-screws A2 3,5x25 mm stainless steel, self-tapping (Art.No. Z420)	250	Pcs.	160,00 € 0,64 €/ pc.)
		125	Pcs.	90,00 € (0,72 €/ pc.)
K616/BOX	 KOMBI Starter box Contains: 100 pcs. KOMBI hook connector G10, 100 pcs KOMBI hook-in bracket stainless steel G12 / 62, 200 pcs. PH-screws 3x25 mm, 200 pcs. CS-screws 4,5x35 mm (stainless steel), 1 pc. KNAPP®-Adhesive PU+	1	Pc.	208,90 €
K070	 DUO 30 mL hook connector, steel with sideways space to allow shrinkage and expansion of components, blue galvanized K070/P Minipack DUO 30mL Pack (incl. 2 St. Körner DUO 30)	250	Pairs	272,50 € (1,09 € je Pairs)
		42	Pairs	56,00 € (1,33 € je Pairs)

Art. No.	Description	Qty.	Unit	List Price
K350 	DUO 30 oL hook connector, steel without sideways space for exact mounting of components, yellow galvanized	250	Pairs	<b>462,50 €</b> (1,85 € je Pairs)
	K074/P Minipack DUO 30oL Pack (incl. 2 pcs. center punch DUO 30)	25	Pairs	<b>56,00 €</b> (2,24 € je Pairs)
K074 	DUO 30 oL Einhängerverbinder aus Stahl zum exakten Einhängen (oL = ohne Luft) von Elementen, gelbverzinkt	250	Pairs	<b>272,50 €</b> (1,09 € je Pairs)
	K074/P Minipack DUO 30oL Pack (inkl. 2 St. Körner DUO 30)	42	Pairs	<b>56,00 €</b> (1,33 € je Pairs)
For the DUO 30, standard CS-screws (3 or 3.5 mm) are recommended (4 pcs. / pair). Screws are not included in the packing unit, except in DUO 30 Box 100 starter box.( see page52-53).				
K061 	DUO 35 mL hook connector, steel with sideways space to allow shrinkage and expansion of components, blue galvanized Recommended screws: EURO-screws 6,3x10 mm (Art.No. Z510)	250	Pairs	<b>297,50 €</b> (1,19 € je Pairs)
	K061/P Minipack DUO 35mL Pack (incl. 2 pcs. center punch DUO 35)	32	Pairs	<b>56,00 €</b> (1,75 € je Pairs)
K062 	DUO 35 oL hook connector, steel without sideways space for exact mounting of components, yellow galvanized. Recommended screws: EURO-screws 6,3x10 mm (Art.No. Z510)	250	Pairs	<b>297,50 €</b> (1,19 € je Pairs)
	K062/P Minipack DUO 35oL Pack (incl. 2 pcs. center punch DUO 35)	32	Pairs	<b>56,00 €</b> (1,75 € je Pairs)
K120/B 	UNO 30 hook connector, stainless steel Suitable for CS-screws Ø 5-6 mm Recommended screws: PH-screws A2 stainless steel 3x13 mm (Art.No. Z631), CS-screw A2 stainless steel 5x50 mm (Art. Nr. Z950), TX25 (Art.No. Z950)	250	Pc.	<b>227,50 €</b> (0,91 € / pc.)
K120 	UNO 30 hook connector set, stainless steel 1 set contains: 1 pc. UNO 30, 1 pc. KNAPP® CS-screw 5x50 mm with washer for exact height adjustment, 3 pcs. PH-screws 3x13 mm A2 stainless steel alternatively available with galvanized screws (K120)	250	Set	<b>272,50 €</b> (1,09 € / pc.)
	K120/P Minipack UNO 30 Pack (incl. 2 pcs. center punch UNO 30, SK and PH screws, washers, 15 locking clips UNO 30)	30	Set	<b>56,00 €</b> (1,87 € je Set)
K117 	UNO 30 hook connector set, stainless steel 1 set contains: 1 pc. UNO 30, 3 pcs. PH-screws 3x13 mm A2 stainless steel (Art. No. Z631) 1 pc. KNAPP® CS-screw 5x50 mm with washer for exact height adjustment A2 stainless steel,	250	Set	<b>305,00 €</b> (1,22 € / set)
	K070/BOX	DUO 30 100 starter box Contents: 50 pairs DUO 30mL, 50 pairs DUO 30oL, 400 pcs. CS-screws 3,5 x16 mm, 6 pcs. center punches, 2 pcs. handrail punches, 1 pc. TCT boring bit (Ø 30 mm, Ø 10 mm shank), with adjustable depth gauge, 1 pc. drilling template	1	Pc.
K074/BOX 	DUO 30 150 starter box Contents: 75 pairs DUO 30 mL, 75 pairs DUO 30oL, 6 pcs. center punches, 2 pcs. handrail punches, 1 pc. TCT boring bit (Ø 30 mm, Ø 10 mm shank), with adjustable depth gauge Recommended screws: CS-screws 3,5x16 mm (Art.No. Z502)	1	Pc.	<b>265,30 €</b>

Art.-Nr.	Artikel	Menge	VE	Nettopreis
K061/BOX 	DUO 35 100 starter box Contents: 50 pairs DUO 35mL, 50 pairs DUO 35oL, 400 pcs. EURO screws 6,3x10 mm, 6 pcs. center punches, 1 pc. TCT boring bit (Ø 35 mm, Ø 10 mm shank), with adjustable depth gauge	1	Pc.	306,38 €
K062/BOX 	DUO 35 150 starter box Contents: 75 pairs DUO 35mL, 75 pairs DUO 35oL, 6 pcs. center punch DUO 35 Recommended screws: EURO-screws 6,3x10 mm (Art.No. Z510)	1	Pc.	218,10 €
K123/EDEL 	UNO 30 100 starter box stainless steel Contents:100 pcs. UNO 30, 100 pcs. UNO 30 locking clips, 100 pcs. KNAPP® CS-screws A2 stainless steel 5x50 mm with washer TX25, 6 pcs. UNO 30 center punches, 55 pcs. universal plastic dowels Ø 8 mm, 1 pc. TCT boring bit (Ø 30 mm, Ø 10 mm shank) with adjustable depth gauge, 300 pcs. PH-screws A2 stainless steel 3x13 mm, 1 pc.drilling template, 1 pc. Bit T25	1	Pc.	319,88 €
K123/B	alternatively available with galvanized screws	1	Pc.	304,38 €







### Accessories – DUO 30, DUO 35, UNO 30

Art. No.	Description	Qty.	Unit	List Price
K121 	LOCKING CLIP for UNO 30 and DUO 30 to lock the connection against the insert direction Recommended screws: CS-screws 3x13 mm (Art.No. Z631)	1	Pc.	0,82 €
K071 	Center punch DUO 30 (for DUO 30 mL + oL)	1	Pc.	3,60 €
K075 	Handrail center punch DUO 30 (for DUO 30 mL + oL)	1	Pc.	3,10 €
K069 	Center punch DUO 35 (hardened) (for DUO 35 mL + oL) with Ø 5 mm drill holes to predrill for Euro-screws 6x10 mm (Art.-Nr. Z510)	1	Pc.	6,60 €
K073 	Center punch UNO 30	1	Pc.	3,40 €
K563 	Drilling Jig (for UNO 30, DUO 30, DUO 35 and T-JOINT)	1	Pc.	13,78 €
Z070 	TCT boring bit 30 (for UNO 30, DUO 30, DUO 35 and T-JOINT) Ø 30 mm, Ø 10 mm shank with adjustable depth gauge	1	Pc.	74,00 €
Z071 	TCT boring bit 35 (for DUO 35 and T-JOINT) Ø = 35 mm, Ø = 10 mm shank, with adjustable depth gauge	1	Pc.	106,00 €
Z072 	TCT boring bit 30 with adjustable brad point (for DUO 30, UNO 30 and T-JOINT) Ø = 30 mm, Ø 10 mm shank, with adjustable depth gauge	1	Pc.	106,00 €








## Dowels


### Spring Steel Dowels

Art. No.	Description	Qty.	Unit	List Price
Z5052 	TUCK 6 mm self-tightening spring steel dowel Ø 6 mm x 25 mm length	1.000	Pc.	<b>200,00 €</b> (0,20 € / pc.)
Z5053 	TUCK 8 mm self-tightening spring steel dowel Ø 8 mm x 35 mm length	1.000	Pc.	<b>220,00 €</b> (0,22 € / pc.)
Z5055 	TUCK 10 mm self-tightening spring steel dowel Ø 10 mm x 32 mm length	1.000	Pc.	<b>280,00 €</b> (0,28 € / pc.)
Z5055A 	TUCK 10 mm self-tightening spring steel dowel Ø 10 mm, 28 mm length	1.000	Pc.	<b>290,00 €</b> (0,29 € / pc.)
Z5055B 	TUCK 10 mm self-tightening spring steel dowel Ø 10 mm, 16 mm length	1.000	Pc.	<b>220,00 €</b> (0,22 € / pc.)
Z052/BOX 	TUCK Box – Federstahldübel (Startbox) Contents: 150 pcs. TUCK 6 mm, L25, 150 pcs TUCK 8 mm, L35, 150 pcs. TUCK 10 mm, L32, screw on, on one side 150 pcs. TUCK 10 mm, L16, 150 pcs. TUCK 10 mm, L28	1	Pc.	<b>181,50 €</b>

### 2-part Locking Dowels

Art. No.	Description	Qty.	Unit	List Price
Z5056 	QUICK-SET 5 mm cabinet connector 1 set contains: a bolt with thread Ø= 5 mm. Thread length =11 mm, plastic dowel Ø= 8 mm	250 125	Set Set	<b>50,00 €</b> (0,20 € / set) <b>35,00€</b> (0,28 € / set)
Z5058 	QUICK-SET 5 mm cabinet connector 1 set contains: a bolt with thread Ø= 5 mm. Thread length=7,5 mm, plastic dowel Ø= 8 mm	250 125	Set Set	<b>45,00€</b> (0,18 € / set) <b>32,50 €</b> (0,26 € / set)
Z5057 	QUICK-SET 8 mm cabinet connector 1 set contains: a bolt with thread Ø= 8 mm Thread length=8 mm, plastic dowel Ø= 8 mm	250 125	Set Set	<b>75,00 €</b> (0,30 € / set) <b>48,75 €</b> (0,39€ / set)
Z5059 	QUICK-SET 8 mm cabinet connector 1 set contains: a bolt with thread Ø= 8 mm. Thread length=26 mm, plastic dowel Ø= 8 mm	250 125	Set Set	<b>127,60 €</b> (0,51 € / set) <b>78,75 €</b> (0,63 € / set)
Z5056/BOX 	QUICK-SET Box (Startbox) Contents: 125 pcs. QUICK-SET 5x11 mm, 125 pcs. QUICK-SET 5x7,5 mm, 125 pcs. QUICK-SET 8x8 mm, 125 pcs. QUICK-SET 8x26 mm	1	Pc.	<b>195,00 €</b>




## Plastic Dowels

Art. No.	Description	Qty.	Unit	List Price
K066	KNAPP®-DÜBEL 6 mm Ø = 6 mm, Länge = 28 mm	1.000	Pc.	<b>60,00€</b> (0,06€ / pc.)
K067	KNAPP®-DÜBEL 8 mm Ø = 8 mm, Länge = 36 mm	1.000	Pc.	<b>70,00 €</b> (0,07 € / pc.)
K169	KNAPP®-DÜBEL 8 mm Ø = 8 mm, Länge = 50 mm	1.000	Pc.	<b>160,00 €</b> (0,16 € / pc.)
K066/BOX	 DÜBEL Box Inhalt: 500 St. KNAPP®-DÜBEL 8 mm, 1000 St. KNAPP®-DÜBEL 6 mm, 1 St. KNAPP®-KLEBER PU+ <b>NEU</b>	1	Pc.	<b>103,75 €</b>

## Timber pegs MILLER DOWEL





Art. No.	Description	Qty.	Unit	List Price
Z3003 K	Mini-X Miller Dowels – Birch Length 42 mm / steps 2,6 - 4,8 - 6,5	100	Pc.	<b>20,00 €</b>
Z3003 C	Mini-X Miller Dowels – Cherry Length 42 mm / steps 2,6 - 4,8 - 6,5	100	Pc.	<b>29,00 €</b>
Z3003 RO	Mini-X Miller Dowels – Red oak Length 42 mm / steps 2,6 - 4,8 - 6,5	100	Pc.	<b>24,00 €</b>
Z3003 W	Mini-X Miller Dowels – American walnut Length 42 mm / steps 2,6 - 4,8 - 6,5	100	Pc.	<b>36,00 €</b>
Z3001 B	1X Miller Dowels – Birch Length 70 mm / steps 4,8 - 6,0 - 7,3 - 10,5	100	Pc.	<b>28,00 €</b>
Z3001 C	1X Miller Dowels – Cherry Length 70 mm / steps 4,8 - 6,0 - 7,3 - 10,5	100	Pc.	<b>41,00 €</b>
Z3001 RO	1X Miller Dowels – Red oak Length 70 mm / steps 4,8 - 6,0 - 7,3 - 10,5	100	Pc.	<b>34,00 €</b>
Z3001 W	1X Miller Dowels – American walnut Length 70 mm / steps 4,8 - 6,0 - 7,3 - 10,5	100	Pc.	<b>49,00€</b>
Z3002 B	2X Miller Dowels – Birch Length 89 mm / steps 5,2 - 7 - 9,5 - 12,8	100	Pc.	<b>32,00 €</b>
Z3002 C	2X Miller Dowels – Cherry Length 89 mm / steps 5,2 - 7 - 9,5 - 12,8	100	Pc.	<b>48,00 €</b>
Z3002 O	2X Miller Dowels – Oak Length 89 mm / steps 5,2 - 7 - 9,5 - 12,8	100	Pc.	<b>41,00 €</b>
Z3002 W	2X Miller Dowels – American walnut Length 89 mm / steps 5,2 - 7 - 9,5 - 12,8	100	Pc.	<b>52,00 €</b>

### Accessories Timber pegs MILLER DOWEL

Art. No.	Description	Qty.	Unit	List Price
Z2003 D	Mini-X Miller TruFit™ Drill Bit Bohrer	1	Pc.	<b>18,80 €</b>
				
Z2001 D	1X Miller TruFit™ Drill Bit Bohrer	1	Pc.	<b>25,00 €</b>
				
Z2002 D	2X Miller TruFit™ Drill Bit Bohrer	1	Pc.	<b>29,50 €</b>
				



### Staircase and Table Leg Connectors

#### Levelling Screw for Stair Treads

Art. No.	Description	Qty.	Unit	List Price
Z300	TREPP0 40 incl. 6 pcs. scribers 1 set contains: 1 pc. 40 mm long hex socket, 1 pc. leveling screw M10 and 1 pc. M6x30 threaded pin	100	Set	<b>290,00 €</b> <small>(2,90 € / set)</small>
				
Z310	TREPP0 70 incl. 6 pcs. scribers 1 set contains: 1 pc. 70 mm long hex socket, 1 pc. leveling screw M10 and 1 pc. M6x30 threaded pin	100	Set	<b>310,00 €</b> <small>(3,10 € / set)</small>
				
Z320	TREPP0 100 incl. 6 pcs. scribers 1 set contains: 1 pc. 100 mm long hex socket, 1 pc. leveling screw M10 and 1 pc. M6x30 threaded pin	100	Set	<b>320,00 €</b> <small>(3,20 € / set)</small>
				
Z320/BOX	TREPP0 starter box Contents: 70 pcs. TREPP0 40, 10 pcs. TREPP0 70, 5 pcs. TREPP0 100, 6 pcs. scribers, 3 pcs. KNAPP® Adhesive PM+	1	Pc.	<b>279,55 €</b>
				

3 pcs KNAPP®-Adhesive PM+ Pro needed per 100 sets.(page 38).

#### Stair Tread and Table Leg Mounting



Art. No.	Description	Qty.	Unit	List Price
Z330	easy-con® M8-16-50 (3 kN*) for hole spacing 50 mm 1 set contains: tension element, stretching screw, tension bolt, screw-in dowel	25	Set	<b>490,00 €</b> <small>(19,60 € / set)</small>
				
Z336	easy-con® M8-16-25 (3 kN*) for hole spacing 25 mm 1 set contains: tension element, stretching screw, tension bolt, screw-in dowel	25	Set	<b>490,00 €</b> <small>(19,60 € / set)</small>
				

\*Pulling force of the connector.


## Decking Connectors

## Connectors for Decks, Boards and Wall Panels

recommended for +7 mm gap width



Art. No.	Description	Qty.	Unit	List Price									
K081 	QUATRO 65/25 for board thickness $\geq$ 24-26 mm	100	Set	<b>135,00 €</b> (1,35 € / set)									
	1 set contains: 2 pcs. QUATRO 65 connectors (fibreglass reinforced plastic FRP), 5 pcs. CS-screws A2 5x25, self tapping, stainless steel (Art.No. Z514)	300	Set	<b>333,00 €</b> (1,11 € / set)									
		400	Garn	<b>372,00 €</b> (0,93 € / set)									
K080 	QUATRO 65/30 for board thickness $\geq$ 27 mm	100	Set	<b>135,00 €</b> (1,35 € / set)									
	1 set contains: 2 pcs. QUATRO 65 connectors (fibreglass reinforced plastic FRP), 5 CS-screws A2 5x30, self tapping, stainless steel (Art.No. Z515)	300	Set	<b>333,00 €</b> (1,11 € / set)									
	Approx. need for 500 mm joist distance (both types):	400	Garn	<b>372,00 €</b> (0,93 € / set)									
	<table border="1"> <thead> <tr> <th>board width</th> <th>pairs / m<sup>2</sup></th> <th>m<sup>2</sup> / package unit</th> </tr> </thead> <tbody> <tr> <td>150 mm</td> <td>ca. 17 pairs</td> <td>6 m<sup>2</sup></td> </tr> <tr> <td>100 mm</td> <td>ca. 25 pairs</td> <td>4 m<sup>2</sup></td> </tr> </tbody> </table>	board width	pairs / m <sup>2</sup>	m <sup>2</sup> / package unit	150 mm	ca. 17 pairs	6 m <sup>2</sup>	100 mm	ca. 25 pairs	4 m <sup>2</sup>			
board width	pairs / m <sup>2</sup>	m <sup>2</sup> / package unit											
150 mm	ca. 17 pairs	6 m <sup>2</sup>											
100 mm	ca. 25 pairs	4 m <sup>2</sup>											

## Accessories – QUATRO 65



Art. No.	Description	Qty.	Unit	List Price
K565 	Drilling Jig QUATRO 65 (metal) with angle stop, for positioning and pre-drill boards with $\varnothing$ 3,5 mm holes	1	Pc.	<b>7,57 €</b>

## Decking board connector

recommended for +7 mm gap width

Art. No.	Description	Qty.	Unit	List Price									
K082 	Z-DECK Decking connectors	250	Set	<b>97,50 €</b> (0,39 € / set)									
	1 set contains: 1 pc. Z-DECK stainless steel, 2 pcs. CS-screws A2 stainless steel 4,5x35 mm self-tapping (Art.No.Z409)												
	Approx. need for 500 mm joist distance:												
	<table border="1"> <thead> <tr> <th>board width</th> <th>pairs / m<sup>2</sup></th> <th>m<sup>2</sup> / package unit</th> </tr> </thead> <tbody> <tr> <td>150 mm</td> <td>ca. 28 St.</td> <td>9 m<sup>2</sup></td> </tr> <tr> <td>100 mm</td> <td>ca. 40 St.</td> <td>6 m<sup>2</sup></td> </tr> </tbody> </table>	board width	pairs / m <sup>2</sup>	m <sup>2</sup> / package unit	150 mm	ca. 28 St.	9 m <sup>2</sup>	100 mm	ca. 40 St.	6 m <sup>2</sup>			
board width	pairs / m <sup>2</sup>	m <sup>2</sup> / package unit											
150 mm	ca. 28 St.	9 m <sup>2</sup>											
100 mm	ca. 40 St.	6 m <sup>2</sup>											
K083 	Z-DECK starter box for 10 m <sup>2</sup> decking Contents: 400 pcs. Z-DECK stainless steel, 800 pcs. CS-screws, stainless-steel A2 4,5x35 mm (Art.No. Z409), with self-tapping tip, 1 pc. Full hex body Torx 15 bit with extra long shaft 1 pc. Z-Deck rebate/slotting cutter with $\varnothing$ 8 mm shaft (Art.No. Z408)	1	Pc.	<b>159,00 €</b>									

## Accessories – Z-DECK

Art. No.	Description	Qty.	Unit	List Price
Z411 	Full hex body Torx T15 bit with extra long shaft	1	Pc.	<b>2,50 €</b>
Z408 	Z-Deck rebate/slotting cutter $\varnothing$ = 8 mm shaft	1	Pc.	<b>49,00 €</b>



## Glazing Stop Connectors for Windows and Doors

### Glazing Stop Connectors






Further information at [www.ce-fix.de](http://www.ce-fix.de)

Art. No.	Description	Qty.	Unit	List Price
K311  <b>NEW</b>	FIXclip-Profile GLE17 – black Rebate depth 17 mm, for nailing or screwing <b>Comes in 6 m length</b> Available by request in all RAL colors. Different length is available upon request, additional charges apply.	1	Laufmeter	2,20 €
K079 	FIXclip-Profile GLE18 – black Rebate depth 18 mm, for nailing or screwing <b>Comes in 6 m length</b> Available by request in all RAL colors. Different length is available upon request, additional charges apply.	1	lfm	2,40 €
K086 	FIXclip-Profile GLE20 – black Rebate depth 20 mm, for nailing or screwing <b>Comes in 6 m length</b> Available by request in all RAL colors. Different length is available upon request, additional charges apply.	1	lfm	3,60 €
K310  <b>NEW</b>	FIXclip-Profile GLE17 plus – schwarz Rebate depth 17 mm, for nailing or screwing, without wedge-shaped gasket <b>Comes in 6 m length</b> Available by request in all RAL colors. Different length is available upon request, additional charges apply.	1	lfm	2,30 €
K088/B 	FIXclip-Profile GLE20 Plus – black Rebate depth 20 mm, to screw, without casket <b>Comes in 6 m length or 2,30 m length</b>	1	lfm	3,20 €
Z096  <b>NEW</b>	Wedge-shaped gasket for FIXclip-Profile GLE17 plus – black <b>Roll: 200 running metres / 1 roll</b>	1	lfm	0,70 €
Z091 	Wedge-shaped gasket for FIXclip-Profile GLE20 Plus dark grey, reel product and for FIXCLIP GLE 20 plus <b>Roll: 200 running metres / 1 roll</b>	1	lfm	1,99 €
Z089 	Wedge-shaped gasket for FIXclip-Profile GLE20 Plus black, reel product and for FIXCLIP GLE 20 plus <b>Roll: 200 running metres / 1 roll</b>	1	lfm	1,79 €







### Accessories – FIXclip-Profile

Art. No.	Description	Qty.	Unit	List Price
Z088 	Scissors for FIXclip-Profile (for GLE17, GLE17 plus, GLE18, GLE20 and GLE20 plus, )	1	Pc.	299,00 €
Z085 	Mounting tool for FIXclip-Profile	1	Pc.	29,00 €

## Glazing Stop, Molding and Trim Connectors







Art. No.	Description	Qty.	Unit	List Price
K078 	FIXclip H12 Width of 12 mm, for nailing or screwing	1.000	Pcs.	<b>330,00 €</b> (0,33 €/pc.)
K076 	FIXclip H16 Width of 16 mm, for nailing or screwing	1.000	Pcs.	<b>330,00 €</b> (0,33 €/pc.)
K077 	FIXclip H20 Width of 12 mm, for nailing or screwing	1.000	Pcs.	<b>330,00 €</b> (0,33 €/pc.)
K025 	FIXclip GLE20 plus – black Rebate depth 20 mm, length 50 mm	1.000	Pcs.	<b>500,00 €</b> (0,50 €/pc.)
K025/SET 	FIXclip GLE 20 plus – black (incl. CS-screw A2 3,5x25 mm, stainless steel, self-tapping, Art.No. Z420)	1.000	Set	<b>540,00 €</b> (0,54 €/set)

## Accessories – FIXclip and FIXclip-Profile





Art. No.	Description	Qty.	Unit	List Price
Z082 	FIXclip-cutter H12 Grooving saw blade for spindle moulder with Ø 30 mm borehole (By request Ø 40 mm and Ø 50 mm borehole available)	1	Pc.	<b>452,00 €</b>
Z076 	FIXclip-cutter H16 Grooving saw blade for spindle moulder with Ø 30 mm borehole (By request Ø 40 mm and Ø 50 mm borehole available)	1	Pc.	<b>304,00 €</b>
Z077 	FIXclip-cutter H20 Grooving saw blade for spindle moulder with Ø 30 mm borehole (By request Ø 40 mm and Ø 50 mm borehole available)	1	Pc.	<b>304,00 €</b>
K657 	Milling cutter GLE17 Universal milling cutter for FIXclip-Profile GLE17 (for Art.No. K310 and K311)	1	Pc.	<b>290,00 €</b>
K655 	Milling cutter GLE18 Universal milling cutter for FIXclip-Profile GLE18 (for Art.No. K079)	1	Pc.	<b>290,00 €</b>
K656 	Milling cutter GLE20 Universal milling cutter for FIXclip-Profile GLE20 (for Art.No. K086), FIXclip-Profile GLE20 plus (for Art.No. K088) and FIXclip GLE20 plus (for Art.No. K025)	1	Pc.	<b>290,00 €</b>

## Molding and Trim Connectors

### KLICK-System

Art. No.	Description	Qty.	Unit	List Price
 K045	KLICK snap connector, plastic	500	Pc.	<b>105,00 €</b> (0,21 € / pc.)
	K045/P <b>Minipack</b> KLICK Pack	250	Pc.	<b>56,00 €</b> (0,22 € / pc.)
 K048	sKLICK screw-on snap connector, plastic (incl. PH-screws 3x13 mm, Art.No. Z600) Alternatively available with stainless steel screws	500	Pc.	<b>110,00 €</b> (0,22 € / pc.)
	K048/P <b>Minipack</b> sKLICK Pack (incl. PH-screws 3x13)	250	Pc.	<b>56,00 €</b> (0,22 € / pc.)
 K060	KLICKpro screw-on snap connector support, plastic (to be used in combination with KLICK or sKLICK)	500	Pc.	<b>105,00 €</b> (0,21 € / pc.)
	K092/P <b>Minipack</b> sKLICK+KLICKpro Pack (incl. PH-screws 3x13) K093/P <b>Minipack</b> KLICK+Fräser Pack (incl. 1 TCT-Router) K094/P <b>Minipack</b> sKLICK+Router Pack (incl. PH-screw 3x13 and 1 TCT-Router) TCT-Routers are available with a 6mm shaft size, 6,3mm shaft size and 8mm shaft size. Please specify when ordering!	je 125 50 50	Pc. Pc. Pc.	<b>56,00 €</b> <b>56,00 €</b> <b>56,00 €</b>
 K059	miniKLICK 2-pcs. snap connector, plastic	500	Pairs	<b>145,00 €</b> (0,29 € je Pairs)
 K045/BOX	KLICK starter box Contents: 200 pcs. KLICK, 400 pcs. sKLICK, 400 pcs. PH-screws 3x13 mm (Art.No. Z600), 100 pcs. KLICKpro 1 pc. TCT router with Ø 8 mm shank Alternatively available with stainless steel screws	1	Pc.	<b>193,00 €</b>
 K059/BOX	miniKLICK starter box Contents: 400 pairs miniKLICK, 1 pc. grooving saw blade 120 mm, with Ø 30 mm borehole for spindle moulder	1	Pc.	<b>329,00 €</b>

### Accessories – KLICK-System

Art. No.	Description	Qty.	Unit	List Price
 K045/F	Dovetail Router Bit (for KLICK, sKLICK) with Ø 6 mm shank	1	Pc.	<b>42,00 €</b>
 K048/F	Dovetail Router Bit (for KLICK, sKLICK) with Ø 6,35 mm shank	1	Pc.	<b>42,00 €</b>
 K046/F	Dovetail Router Bit (for KLICK, sKLICK) with Ø 8 mm shank	1	Pc.	<b>42,00 €</b>
Diamond TCT Router available by request.				
 Z065	GROOVING SAW BLADE 120 mm (for miniKLICK) Ø 30 mm borehole for spindle moulder	1	Pc.	<b>249,00 €</b>

## Cabinet Connectors

## MODULAR Spring Steel Clip Connectors





Art. No.	Description	Qty.	Unit	List Price
Z4031	 MODULAR 4031 pass-thru clip 32 mm hole centers, 42x11 mm, milling depth 11 mm, center distance 11 mm Recommended screws: PH-screw or SK-screw until Ø 4,5 mm (length as required) and shoulder-head-screw	250	Pcs.	<b>67,50 €</b> (0,27 € / pc.)
Z4032	 MODULAR 4032 non-locking clip 32 mm hole centers, 42x11 mm, milling depth 11 mm, center distance 11 mm Recommended screws: PH-screw or SK-screw until Ø 4,5 mm (length as required) and shoulder-head-screw	250	Pcs.	<b>67,50 €</b> (0,27 € / pc.)
Z4035	 MODULAR 4035 semi-locking clip 32 mm hole centers, 42x11 mm, milling depth 11 mm, center distance 11 mm Recommended screws: PH-screw or SK-screw until Ø 4,5 mm (length as required) and shoulder-head-screw	250	Pcs.	<b>67,50 €</b> (0,27 € / pc.)
Z2055	 MODULAR 2055 shoulder screw flat tip thread length 13 mm, for 5 mm pilot holes	250	Pcs.	<b>67,50 €</b> (0,27 € / pc.)
Z2155	 MODULAR 2155 shoulder screw thread length 16 mm, for 5 mm pilot holes	250	Pcs.	<b>67,50 €</b> (0,27 € / pc.)
Z5068	 MODULAR 5068 shoulder screw thread length 32 mm, for 5 mm pilot holes	250	Pcs.	<b>67,50 €</b> (0,27 € / pc.)
Z2069	 MODULAR 2069 shoulder screw M4 thread thread length 15 mm, for 5 mm holes pre-drilled	250	Pcs.	<b>95,00 €</b> (0,38 € / pc.)
Z2066	 MODULAR 2066 shoulder screw M4 bushing thread with a bushing length 16 mm, for 5 mm holes pre-drilled	250	Pcs.	<b>95,00 €</b> (0,38 € / pc.)
Z4031/BOX	 MODULAR 32 mm hole centers starter box Contents: 125 pcs. MODULAR 4031 clips, 125 pcs. MODULAR 4032 clips, 250 pcs. MODULAR 2055 shoulder screw flat tip 13 mm, 56 pcs. MODULAR 2069 shoulder screw M4 thread 15 mm and 56 pcs. MODULAR 2066 shoulder screw M4 bushing thread 16 mm, 1 pc. depth gauge for groove ( Art.No. Z4032 C)	1	Pc.	<b>243,56 €</b>

## Accessories – MODULAR





Art. No.	Description	Qty.	Unit	List Price
Z4032C	MODULAR DRILL- and DEPTH. GAUGE (for MODULAR Z4031, Z4032, Z4035) Not suitable for MODULAR Anti-Rotation! (Art. No. Z2075, Z2076, Z5075, Z5076)	1	Pc.	<b>66,00 €</b>



**MODULAR Anti-Torsion aus Federstahl, mit Anschlag**







Art. No.	Description	Qty.	Unit	List Price
Z2075	 <p>MODULAR 2075 male, 32 mm hole centers, 42x9,5 mm, 14 mm groove depth Recommended screws: PH-screw 5x40 mm Art.No. Z702 PH-screw 5x60 mm Art.No. Z704</p>	250	Pc.	<b>67,50 €</b> (0,27 € / pc.)
Z2076	 <p>MODULAR 2076 female, easily detachable, 32 mm hole centers, 42x9,5 mm, 14 mm groove depth Recommended screws: PH-screw 5x40 mm Art.No. Z702 PH-screw 5x60 mm Art.No. Z704</p>	250	Pc.	<b>67,50 €</b> (0,27 € / pc.)
Z5075	 <p>MODULAR 5075 male, with stop, 32 mm hole centers, 42x13,5 mm, 12 mm groove depth Recommended screws: PH-screw 5x40 mm Art.No. Z702 PH-screw 5x60 mm Art.No. Z704</p>	250	Pc.	<b>75,00 €</b> (0,30 € / pc.)
Z5071	Modular 5071 male, pass through			
Z5076	 <p>MODULAR 5076 female, 32 mm hole centers, 42x13,5 mm, 12 mm groove depth Recommended screws: PH-screw 5x40 mm Art.No. Z702 PH-screw 5x60 mm Art.No. Z704</p>	250	Pc.	<b>75,00 €</b> (0,30 € / pc.)
Z5072	Modular 5072 female, pass through			

**CONTRA 800 Connector for Case Goods**

Art. No.	Description	Qty.	Unit	List Price
K800	 <p>CONTRA 800 15 mm x 32 mm steel bracket and screw connector</p>	250	Pc.	<b>152,50 €</b> (0,61 € / pc.)
	 <p>Recommended screws: 1 pc. EURO CS-screw 6,3x13 mm Art.No. Z510 and 1 pc. EURO CS-screw 6,3x35 Art.No. Z518 mm (If required, longer screws can be used.) or</p>  <p>1 pc. EURO CS-screw 4,0x16 mm Art.No. Z422 and 1 pc. EURO CS-screw 4,0x40 mm Art.No. Z423) (If required, longer screws can be used.)</p>			
K800/BOX	 <p>CONTRA 800 / Box (Startbox) 500 pcs. CONTRA 800 (Art.-Nr. K800/B), 250 pcs. EURO CS-screws 6,3x10 (Art.No. Z510) 250 pcs. EURO CS-screws 6,3x35 (Art.No. Z518) 250 pcs. CS-screws 4x16 (Art.No. Z422) 250 pcs. CS-screws 4x40 (Art.No. Z423)) 1 pc. TCT Slotting Cutter with Ø 8 mm shank (Art.No. Z066)</p>	1	Pc.	<b>431,90 €</b>

## Countertop / Worktop and Frame Connectors




### ZIPBOLT™ Connector for Countertops, Stairs and Frames

Art. No.	Description	Qty.	Unit	List Price
Z355	 ZIPBOLT™ 100 Mini Connector for boards with metal housing, *L = 100 mm, F = 6 mm, A = 25 mm, T = 13 mm, hex socket SW4 from board thickness 16 mm	25	Pcs.	<b>57,50 €</b> (2,30 € / pc.)
Z373	 ZIPBOLT™ 100 Mini Ultra slim Connector for boards with metal housing, *L = 100 mm, F = 5 mm, A = 20 mm, T = 10 mm, hex socket TX25 from board thickness 13,5 mm	25	Pcs.	<b>66,25 €</b> (2,65 € / pc.)
Z358	 ZIPBOLT™ 85 Connector for boards with metal housing, *L = 85 mm, F = 6 mm, A = 35 mm, T = 20 mm, hex socket SW5 for minimum board thickness 22 mm	25	Pcs.	<b>50,00 €</b> (2,00 € / pc.)
Z366	 ZIPBOLT™ 120 Connector for boards with metal housing, *L = 120 mm, F = 6 mm, A = 35 mm, T = 20 mm, hex socket SW5 for minimum board thickness 22 mm	25	Pcs.	<b>60,00 €</b> (2,40 € / pc.)
Z367	 ZIPBOLT™ 170 Connector for boards with metal housing, *L = 170 mm, F = 6 mm, A = 35 mm, T = 20 mm, hex socket SW5 for minimum board thickness 22 mm	25	Pcs.	<b>62,50 €</b> (2,50 € / pc.)
Z372	 ZIPBOLT™ 90 KD (Rampa Version) Connector for furniture manufacture with metal housing, *L = 90 mm, F = 8 mm, A = 35 mm, T = 20 mm, hex socket SW5 for minimum board thickness 22 mm	25	Pcs.	<b>70,00 €</b> (2,80 € / pc.)

\* Explanation: L = Threaded rod length, F = Threaded rod diameter, A = Borehole diameter, T = drilling depth

## Frame Connectors

### DUO-System

Art. No.	Description	Qty.	Unit	List Price
K041	 DUO 46/15 (0,86 kN*) Required screws for 1 pair: End-grain wood: 1 pc. CS 5x60 mm (Art.No. Z498), 1 pc. PH 5x60 mm (Art.No. Z704), Lengthwise: 1 pc. CS 5x40 mm (Art.No. Z500), 1 pc. PH 5x40 mm (Art.No. Z702)	50	Pairs	<b>143,00 €</b> (2,86 € je Pairs)
	K041/P Minipack DUO 46/15 Pack (incl. PH and CS-screws)	18	Pairs	<b>56,00 €</b> (3,11 € je Pairs)
K036	 DUO 62/15 (1,29 kN*) Required screws for 1 pair: End-grain wood: 2 pcs. CS 5x60 mm (Art.No. Z498), 1 pc. PH 5x60 mm (Art.No. Z704), Lengthwise: 2 pcs. CS 5x40 mm (Art.No. Z500), 1 pc. PH 5x40 mm (Art.No. Z702)	50	Pairs	<b>153,50 €</b> (3,07 € je Pairs)
	K036/P Minipack DUO 62/15 Pack (incl. PH and CS-screws)	16	Pairs	<b>56,00 €</b> (3,50 € je Pairs)
K055	 DUO 100/15 (2,00 kN*) Required screws for 1 pair: End-grain wood: 3 pcs. CS 5x60 mm (Art.No. Z498), 1 pc. PH 5x60 mm (Art.No. Z704), Lengthwise: 3 pcs. CS 5x40 mm (Art.No. Z500), 1 pc. PH 5x40 mm (Art.No. Z702)	50	Pairs	<b>210,00 €</b> (4,20 € je Pairs)
	K036/P Minipack DUO 100/15 Pack (incl. PH and CS-screws)	12	Pairs	<b>56,00 €</b> (4,67 € je Pairs)

Art. No.	Description	Qty.	Unit	List Price
K046	DUO 46/30 (1,30 kN*) Required screws for 1 pair: End-grain wood: 2 pcs. CS 5x60 mm (Art.No. Z498), 2 pcs. PH 5x60 mm (Art.No. Z704), Lengthwise: 2 pcs. SK 5x40 mm (Art.No. Z500), 2 pcs. PH 5x40 mm (Art.No. Z702) K046/P Minipack DUO 46/30. (incl. PH und SK-Schrauben)	50      10	Pairs      Pairs	<b>257,50 €</b> (5,15 € je Pairs)      <b>56,00 €</b> (5,60 € je Pairs)
K022	DUO 62/30 (2,15 kN*) Required screws for 1 pair: End-grain wood: 4 pcs. CS 5x60 mm (Art.No. Z498), 2 pcs. PH 5x60 mm (Art.No. Z704), Lengthwise: 4 pcs. CS 5x40 mm (Art.No. Z500), 2 pcs. PH 5x40 mm (Art.No. Z702) K022/P Minipack DUO 62/30 (incl. PH and CS-screws)	50      8	Pairs      Pairs	<b>299,00 €</b> (5,98 € je Pairs)      <b>56,00 €</b> (7,00 € je Pairs)
K047	DUO 26/26 (0,97 kN*) Required screws for 1 left and 1 right connector part: End-grain wood: 2 pcs. CS 5x60 mm (Art.No. Z498), 1 pc. PH 5x60 mm (Art.No. Z704), Lengthwise: 2 pcs. CS 5x40 mm (Art.No. Z500), 1 pc. PH 5x40 mm (Art.No. Z702)	50	Pairs	<b>153,50 €</b> (3,07 € je Pairs)
K037	DUO 90/20 (2,37 kN*) Required screws for 1 pair: End-grain wood: 2 pcs. CS 6x60 mm (Art.No. Z499), 1 pc. PH 6x60 mm (Art.No. Z802), Lengthwise: 2 pcs. CS 6x40 mm (Art.No. Z501), 1 pc. PH 6x40 mm (Art.No. Z800)	50	Pairs	<b>216,00 €</b> (4,32 € je Pairs)
K040	DUO 90/46 (4,35 kN*) Required screws for 1 pair: End-grain wood: 4 pcs. CS 6x60 mm (Art.No. Z499), 2 pcs. PH 6x60 mm (Art.No. Z802), Lengthwise: 4 pcs. CS 6x40 mm (Art.No. Z501), 2 pcs. PH 6x40 mm (Art.No. Z800)	50	Pairs	<b>359,00 €</b> (7,18 € je Pairs)








\* The load value refers to the transverse force in the insertion direction. Further information on the stress values, tested by Holzforschung Austria, can be found in the current KNAPP® catalogs. According to ÖNORM M 5027, SK screws (5x40, 5x60, 6x40, 6x60 mm) must be used for DUO systems. Screws are not included in the pricing and need to be ordered additionally (see page 48-49) except for the minipacks, which are supplied with screws.

## Accessories – DUO-System

Art. No.	Description	Qty.	Unit	List Price
Z066	2 Flute Straight Router Bit Ø 15 mm, length 25 mm with Ø 8 mm shank (for ACRO, DUO, BASIS, RICON®, GIGANT)	1	Pc.	<b>21,90 €</b>
K500	Routing Jig MULTI F 15 (plywood) for DUO 46/15, DUO 62/15, DUO 100/15 (Copying ring Ø = 30 mm and TCT Slotting Cutter Ø 15 mm length 25 mm)	1	Pc.	<b>54,00 €</b>
K506	Routing Jig MULTI F20 (plywood) (for DUO 90/20), RICON® stainless steel EA 70/20	1	Pc.	<b>54,00 €</b>
K501	Routing Jig MULTI F30 (plywood) (for DUO 46/30, DUO 62/30), RICON® stainless steel EA 80/30	1	Pc.	<b>54,00 €</b>
K503	Routing Jig MULTI F46 (plywood) (for DUO 90/46)	1	Pc.	<b>54,00 €</b>


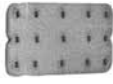

## Post- and Pillar Connectors






### ACRO-System

Art. No.	Description	Qty.	Unit	List Price
K042	ACRO 46/47 (1,43 kN*) Required screws for 1 set: End-grain wood: 5 pcs. CS 5x60 mm (Art.No. Z498), Lengthwise: 4 pcs. CS 5x40 mm (Art.No. Z500)	50	Set	<b>249,50 €</b> (4,99 € / set)
				
K033	ACRO 62/47 (2,47 kN*) Required screws for 1 set: End-grain wood: 7 pcs. CS 5x60 mm (Art.No. Z498), Lengthwise: 5 pcs. CS 5x40 mm (Art.No. Z500)	50	Set	<b>265,00 €</b> (5,30 € / set)
				
K057	ACRO 100/47 (4,14 kN*) Required screws for 1 set: End-grain wood: 9 pcs. CS 5x60 mm (Art.No. Z498), Lengthwise: 6 pcs. CS 5x40 mm (Art.No. Z500)	50	Set	<b>333,00 €</b> (6,66 € / set)
				
K043	ACRO 46/62 (2,11 kN*) Required screws for 1 set: End-grain wood: 6 pcs. CS 5x60 mm (Art.No. Z498), Lengthwise: 6 pcs. CS 5x40 mm (Art.No. Z500)	50	Set	<b>317,50 €</b> (6,35 € / set)
				
K031	ACRO 62/62 (2,53 kN*) Required screws for 1 set: End-grain wood: 8 pcs. CS 5x60 mm (Art.No. Z498), Lengthwise: 8 pcs. CS 5x40 mm (Art.No. Z500)	50	Set	<b>333,00 €</b> (6,66 € / set)
				
K034	ACRO 90/62 (4,49 kN*) Required screws for 1 set: End-grain wood: 7 pcs. CS 6x60 mm (Art.No. Z499), Lengthwise: 5 pcs. CS 6x40 mm (Art.No. Z501)	50	Set	<b>411,00 €</b> (8,22 € / set)
				
K032	ACRO 90/90 (5,40 kN*) Required screws for 1 set: End-grain wood: 8 pcs. CS 6x60 mm (Art.No. Z499), Lengthwise: 8 pcs. CS 6x40 mm (Art.No. Z501)	25	Set	<b>249,50 €</b> (9,98 € / set)
				

\* The load value refers to the transverse force in the insertion direction. Further information on the stress values, tested by Holzforschung Austria, can be found in the current KNAPP® brochures. For ACRO systems, standard CS-screws (5x40, 5x60, 6x40, 6x60 mm) are recommended according to ÖNORM M 5027. Screws are not included in the pricing and need to be ordered additionally. (see page 52-53).



### Accessories – ACRO-System

Art. No.	Description	Qty.	Unit	List Price
K605	Marking Jig ACRO 62/47 (galvanized steel) to put in into the routing jig MULTI F 47	1	Pc.	<b>9,00 €</b>
				
K662	Marking Jig ACRO 100/47 (galvanized steel) to put in into the routing jig MULTI F 47	1	Pc.	<b>9,00 €</b>
				
K603	Marking Jig ACRO 46/62 (galvanized steel) to put in into the routing jig MULTI F 62	1	Pc.	<b>9,00 €</b>
				



Art. No.	Description	Qty.	Unit	List Price
K606	Marking Jig ACRO 62/62 (galvanized steel) to put in into the routing jig MULTI F 62	1	Pc.	9,00 €
				
K607	Marking Jig ACRO 90/62 (galvanized steel) to put in into the routing jig MULTI F 62	1	Pc.	9,00 €
				
K608	Marking Jig ACRO 90/90 (galvanized steel) to put in into the routing jig MULTI F 90	1	Pc.	9,00 €
				
K508	Marking Jig MULTI F47 (plywood) for ACRO 46/47, ACRO 62/47, ACRO 100/47 (for Copying ring Ø = 30 mm and TCT Slotting Cutter Ø = 15 mm, length 25 mm)	1	Pc.	54,00 €
				
K504	Marking Jig MULTI F62 (plywood) (for ACRO 46/62, ACRO 62/62, ACRO 90/62, BASIS 62/62)	1	Pc.	54,00 €
K505	Marking Jig MULTI F90 (plywood) (for ACRO 90/90, BASIS 90/90)	1	Pc.	54,00 €
Z066	2 Flute Straight Router Bit Ø 15 mm, length 25 mm (for ACRO, DUO, BASIS, RICON®, GIGANT) with Ø 8 mm shank	1	Pc.	21,90 €
				

## Column – mounting Connector

### BASIS-System

Art. No.	Description	Qty.	Unit	List Price
K039	BASIS 62/62 (2,90 kN*) ACRO 62/62 mounted on metal baseplates Required screws for 1 set: End-grain wood: 8 pcs. CS-screws 5x60 mm (Art.No. Z498) Baseplate: drilled for 2 pcs. M8 CS masonry anchors	1	Set	26,40 €
				
K038	BASIS 90/90 (3,99 kN*) ACRO 90/90 mounted on metal baseplates Required screws for 1 set: End-grain wood: 8 pcs. CS-screws 6x60 mm (Art.No. Z499) Baseplate: drilled for 1 pc. M12 CS masonry anchor	1	Set	28,68 €
				

## Accessories – BASIS-System




Art. No.	Description	Qty.	Unit	List Price
K504	 Routing Jig MULTI F62 (plywood) for ACRO 46/62, ACRO 62/62, ACRO 90/62, BASIS 62/62 (Copying ring $\varnothing = 30$ mm and TCT Slotting Cutter $\varnothing = 15$ mm, length 25 mm)	1	Pc.	54,00 €
K505	Marking Jig MULTI F90 (plywood) for ACRO 90/90, BASIS 90/90	1	Pc.	54,00 €
Z066	 2 Flute Straight Router Bit $\varnothing 15$ mm, length 25 mm (for ACRO, DUO, BASIS, RICON®, GIGANT) with $\varnothing 8$ mm shank	1	Pc.	21,90 €


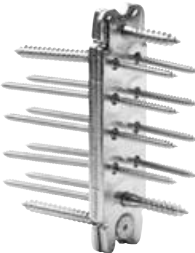
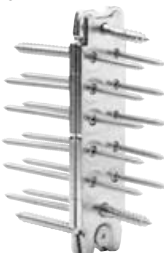
\* The load value refers to the transverse force in the insertion direction. Further information on the stress values, tested by Holzforschung Austria, can be found in the current KNAPP® brochures. For the BASIS-system, standard CS-screws (5x60 or 6x60 mm) are recommended according to ÖNORM M 5027 and M8 CS-screws or M12 screws. Screws are not included in the pricing and need to be ordered additionally. (see page 44). No drilling templates are required for the BASIS-system.

## Timber Construction and Wood Curtain Walls

## RICON®-System EA\*\* For Main and Secondary and Post-beam Joints

ETA CE



Art. No.	Description	Qty.	Unit	List Price
K360	 RICON® 60/40 EA ( $F_{2,Rk} 5,0$ kN*) 1 set contains: 2 pcs. RICON® 60/40 2 pcs. each RICON® CS-screws 5x50 and 5x80 mm, 1 pc. each RICON® CS-screws 8x50 mm and 8x80 mm, 1 pc. RICON® locking clip  <b>Longer screws are available for end grain beams, if needed.</b> 1 pc. RICON® CS-screws 8x160 mm ( $F_{2,Rk} = 6,3$ kN*)	50	Set	411,00 € (8,22 €/set)
K361	 RICON® 80/40 EA ( $F_{2,Rk} 7,3$ kN*) 1 set contains: 2 pcs. RICON® 80/40 2 pcs. each RICON® CS-screws 5x50 and 5x80 mm, 2 pcs. each RICON® CS-screws 8x50 mm and 8x80 mm, 1 pc. RICON® locking clip  <b>Longer screws are available for end grain beams, if needed.</b> 2 pc. RICON® CS-screws 8x160 mm ( $F_{2,Rk} = 10,3$ kN*)	25	Set	246,00 € (9,84 €/set)
K362	 RICON® 100/40 EA ( $F_{2,Rk} 10,0$ kN*) 1 set contains: 2 pcs. RICON® 100/40 4 pcs. each RICON® CS-screws 5x50 and 5x80 mm, 2 pcs. each RICON® CS-screws 8x50 mm and 8x80 mm, 1 pc. RICON® locking clip  <b>Longer screws are available for end grain beams, if needed.</b> 2 pc. RICON® CS-screws 8x160 mm ( $F_{2,Rk} = 13,9$ kN*)	25	Set	299,50 € (11,98 €/set)






Art. No.	Description	Qty.	Unit	List Price
K363	 <p>RICON® 120/40 EA (<math>F_{2,Rk}</math> 12,8 kN*)                      1 set contains:                      2 pcs. RICON® 120/40                      6 pcs. each RICON® CS-screws 5x50 and 5x80 mm,                      2 pcs. each RICON® CS-screws 8x50 mm and 8x80 mm,                      1 pc. RICON® locking clip</p> <p><b>Longer screws are available for end grain beams, if needed.</b>                      2 pc. RICON® CS-screws 8x160 mm (<math>F_{2,Rk}</math> 16,6 kN*)</p>	25	Set	<b>341,00 €</b> (13,64 € / set)
K365	 <p>RICON® 140/40 EA (<math>F_{2,Rk}</math> 15,5 kN*)                      1 set contains:                      2 pcs. RICON® 140/40                      8 pcs. each RICON® CS-screws 5x50 and 5x80 mm,                      2 pcs. each RICON® CS-screws 8x50 mm and 8x80 mm,                      1 pc. RICON® locking clip</p> <p><b>Longer screws are available for end grain beams, if needed.</b>                      2 pc. RICON® CS-screws 8x160 mm (<math>F_{2,Rk}</math> 19,3 kN*)</p>	25	Set	<b>381,75 €</b> (15,27 € / set)
K364	 <p>RICON® 160/40 EA (<math>F_{2,Rk}</math> 18,2 kN*)                      1 set contains:                      2 pcs. RICON® 160/40                      10 pcs. each RICON® CS-screws 5x50 and 5x80 mm,                      2 pcs. each RICON® CS-screws 8x50 mm and 8x80 mm,                      1 pc. RICON® locking clip</p> <p><b>Longer screws are available for end grain beams, if needed.</b>                      2 pc. RICON® CS-screws 8x160 mm (<math>F_{2,Rk}</math> 22,0 kN*)</p>	25	Set	<b>424,00 €</b> (16,96 € / set)

\* Characteristic values  $F_{2,Rk}$  in the insertion direction are valid only with original KNAPP® CS-screws according to ETA 10/0189. (2019/10/11)  
 \*\* EA = single connection




RICON®-System EA Starter Boxes single connection



Art. No.	Description	Qty.	Unit	List Price
K364/BOX	 <p>RICON® EA starter box                      Contents:                      6 sets each RICON® 60/40 EA, 80/40 EA, 100/40 EA and 120/40 EA,                      24 pcs. locking clips,                      1 pc. 2 Flute Straight Router Bit <math>\varnothing</math> 15 mm length 25 mm with <math>\varnothing</math> 8 mm shank, 1 pc. routing jig MULTI F40 ,                      1 pc. each drilling jig for RICON® 60, 80, 100 and 120,                      1 pc. mounting kit including RICON® CS-screwsn</p>	1	Pc.	<b>387,20 €</b>
K366/BOX	 <p>RICON® EA starter box 60                      Contents:                      24 pairs RICON® 60/40, 1 pc. marking template for RICON 60,                      1 pc. RICON® mounting kit, 48 pcs. CS-screw RICON® 5x50 mm,                      48 pcs. CS-screw RICON® 5x80 mm,                      24 pcs. CS-screw RICON® 8x50 mm,                      24 pcs. CS-screw RICON® 8x80 mm,                      24 pcs. RICON locking clips,                      1 pc. 2 Flute Straight Router Bit 15x25 mm with <math>\varnothing</math> 8 mm shank,                      1 pc. routing jig MULTI F40</p>	1	Pc.	<b>307,90 €</b>

Art. No.	Description	Qty.	Unit	List Price
K367/BOX	 <p>RICON® EA starter box 80 Contents: 24 pairs RICON® 80/40, 1 pc. marking template RICON® 80, 1 pc. RICON® mounting kit, 48 pcs. CS-screw RICON® 5x50 mm, 48 pcs. CS-screw RICON® 5x80 mm, 48 pcs. CS-screw RICON® 8x50 mm, 48 pcs. CS-screw RICON® 8x80 mm, 24 pcs. RICON® locking clips, 1 pc. 2 Flute Straight Router Bit 15x25 mm with Ø 8 mm shank, 1 pc. routing jig MULTI F40</p>	1	Pc.	346,78 €
K368/BOX	 <p>RICON® EA starter box 100 Contents: 24 pairs RICON® 100/40, 1 pc. marking template RICON® 100, 1 pc. RICON® mounting kit, 96 pcs. CS-screw RICON® 5x50 mm, 96 pcs. CS-screw RICON® 5x80 mm, 48 pcs. CS-screw RICON® 8x50 mm, 48 pcs. CS-screw RICON® 8x80 mm, 24 pcs. RICON® locking clips, 1 pc. 2 Flute Straight Router Bit Ø 15x25 mm with Ø 8 mm shank, 1 pc. routing jig MULTI F40</p>	1	Pc.	398,14 €
K369/BOX	 <p>RICON® EA EA starter box 120 Contents: 12 pairs RICON® 120/40, 1 pc. marking template RICON® 120, 1 pc. RICON® mounting kit, 72 pcs. CS-screws RICON® 5x50 mm, 72 pcs. CS-screws RICON® 5x80 mm, 24 pcs. CS-screws RICON® 8x50 mm, 24 pcs. CS-screw RICON® 8x80 mm, 12 pcs. RICON® locking clips, 1 pc. 2 Flute Straight Router Bit 15x25 mm with Ø 8 mm shank, 1 pc. routing jig MULTI F 40</p>	1	Pc.	374,08 €
K370/BOX	 <p>RICON® EA starter box 140 Contents: 12 pairs RICON® 140/40, 1 pc. marking template RICON® 140, 1 pc. RICON® mounting kit, 96 pcs. CS-screws RICON® 5x50 mm, 96 pcs.. CS screws RICON® 5x80 mm, 24 pcs. CS-screws RICON® 8x50 mm, 24 pcs. CS-screws RICON® 8x80 mm, 12 pcs. RICON® locking clips, 1 pc. 2 Flute Straight Router Bit 15x25 mm with Ø 8 mm shank, 1 pc. routing jig MULTI F 40</p>	1	Pc.	293,64 €
K371/BOX	 <p>RICON® EA starter box 160 Contents: 12 pairs RICON® 160/40, 1 pc. marking template RICON® 160, 1 pc. RICON® mounting kit, 120 pcs. CS-screws RICON® 5x50 mm, 120 pcs. CS-screws RICON® 5x80 mm, 24 pcs. CS-screw RICON® 8x50 mm, 24 pcs. CS-screws RICON® 8x80 mm, 12 pcs. RICON® locking clips, 1 pc. 2 Flute Straight Router Bit Ø 15x25 mm with Ø 8 mm shank, 1 pc. routing jig MULTI F 40</p>	1	Pc.	313,92 €



RICON®-System DA** Double connection - Connector for main and secondary beam joints				ETA CE
Art. No.	Description	Qty.	Unit	List Price
K160/48	 <p>RICON® 60/40 DA (F<sub>2,Rk</sub> 5,0 kN*)                      1 set contains:                      2 pairs RICON® 60/40,                      4 pcs. RICON® CS-screws M5x20, 2 pcs. RICON® CS-screws M8x25,                      4 pcs. RICON® CS-screws 5x80 mm,                      2 pcs. RICON® CS-screws 8x80 mm, 2 pcs. RICON® locking clip and                      2 pcs. connecting nuts M5 Ø 8x48 mm, 1 pc. connecting nut                      M8 Ø10x48 mm for post dimension 50 mm or</p>	25	Set	<b>545,75 €</b> (21,83 € / set)
K160/58	2 pcs. connecting nuts M5 8x58 mm, 1 pc. connecting nut M8 10x58 mm for post dimension 60 mm or	25	Set	<b>545,75 €</b> (21,83 € / set)
K160/78	2 pcs. connecting nuts M5 Ø 8x78 mm, 1 pc. connecting nut M8 Ø 10x78 mm for post dimension 80 mm	25	Set	<b>560,75 €</b> (22,43 € / set)
<p><b>Longer screws are available for end grain beams, if needed.</b>                      4 pc. RICON® CS-screws 8x160 mm (F<sub>2,Rk</sub> = 6,3 kN*)</p>				
K161/48	 <p>RICON® 80/40 DA (F<sub>2,Rk</sub> 7,3 kN*)                      1 set contains:                      2 pairs RICON® 80/40,                      4 pcs. RICON® CS-screws M8x25,                      4 pcs. each RICON® CS-screws 5x80 and 8x80 mm,                      2 pcs. RICON® CS-screws 5x50 mm,                      2 pcs. RICON® locking clips,                      2 pcs. connecting nuts M8 Ø 10x48 mm for post dimension 50 mm                      or</p>	25	Set	<b>570,50 €</b> (22,82 € / set)
K161/58	2 pcs. connecting nuts M8 Ø 10x58 mm for post dimension 60 mm or	25	Set	<b>570,50 €</b> (22,82 € / set)
K161/78	2 pcs. connecting nuts M8 10x78 mm for post dimension 80 mm	25	Set	<b>580,50 €</b> (23,22 € / set)
<p><b>Longer screws are available for end grain beams, if needed.</b>                      4 pcs. RICON® CS-screws 8x160 mm (F<sub>2,Rk</sub> = 10,3 kN*)</p>				
K162/48	 <p>RICON® 100/40 DA (F<sub>2,Rk</sub> 10,0 kN*)                      1 set contains:                      2 pairs RICON® 100/40,                      4 pcs. RICON® CS-screws M8x25,                      8 pcs. RICON® CS-screws 5x80 mm,                      4 pcs. each RICON® CS-screws 5x50 and 8x80 mm                      2 pcs. RICON® locking clips and                      2 pcs. connecting nuts M8 Ø 10x48 mm for post dimension 50 mm                      or</p>	25	Set	<b>673,50 €</b> (26,94 € / set)
K162/58	2 pcs. connecting nuts M8 Ø 10x58 mm for post dimension 60 mm or	25	Set	<b>673,50 €</b> (26,94 € / set)
K162/78	2 pcs. connecting nuts M8 Ø 10x78 mm, for post dimension 80 mm	25	Set	<b>683,50 €</b> (27,34 € / set)
<p><b>Longer screws are available for end grain beams, if needed.</b>                      4 pcs. RICON® CS-screws 8x160 mm (F<sub>2,Rk</sub> = 13,9 kN*)</p>				

Art. No.	Description	Qty.	Unit	List Price
K163/48	RICON® 120/40 DA ( $F_{2,Rk}$ 12,8 kN*) 1 set contains: 2 pairs RICON® 120/40, 4 pcs. RICON® CS-screws M8x25, 6 pcs. RICON® CS-screws 5x50 mm, 12 pcs. RICON® CS-screws 5x80 mm, 4 pcs. RICON® CS-screws 8x80 mm, 2 pcs. RICON® locking clips and 2 pcs. connecting nuts M8 10x48 mm for post dimension 50 mm or	25	Set	<b>752,50 €</b> (30,10 €/set)
K163/58	2 pcs. connecting nuts M8 10x58 mm, for post dimension 60 mm or	25	Set	<b>752,50 €</b> (30,10 €/set)
K163/78	2 pcs. connecting nuts M8 10x78 mm, for post dimension 80 mm	25	Set	<b>762,50 €</b> (30,50 €/set)

**Longer screws are available for end grain beams, if needed.**

4 pcs. RICON® CS-screws 8x160 mm ( $F_{2,Rk}$  = 16,6 kN\*)

K165/48	RICON® 140/40 DA ( $F_{2,Rk}$ 15,5 kN*) 1 set contains: 2 pairs RICON® 140/40, 4 pcs. RICON® CS-screws M8x25, 8 pcs. RICON® CS screws 5x50 mm, 16 pcs. RICON® CS screws 5x80 mm, 4 pcs. RICON® CS-screws 8x80 mm, 2 pcs. RICON lockingclips and 2 pcs. connecting nuts M8 10x48 mm for post dimension 50 mm or	25	Set	<b>830,00 €</b> (33,20 €/set)
K165/58	2 pcs. connecting nuts M8 10x58 mm, for post dimension 60 mm or	25	Set	<b>830,00 €</b> (33,20 €/set)
K165/78	2 pcs. connecting nuts M8 10x78 mm, for post dimension 80 mm	25	Set	<b>840,00 €</b> (33,60 €/set)

**Longer screws are available for end grain beams, if needed.**

4 pcs. RICON® CS-screws 8x160 mm ( $F_{2,Rk}$  = 19,3 kN\*)

K164/48	RICON® 160/40 DA ( $F_{2,Rk}$ 18,2 kN*) 1 set contains: 2 pairs RICON® 160/40, 4 pcs. RICON® CS-screws M8x25, 20 pcs. RICON® CS-screws 5x80 mm, 10 pcs. RICON® CSscrews 5x50 mm, 4 pcs. RICON® CS-screws 8x80 mm, 2 pcs. RICON® locking clips and 2 pcs. connecting nuts M8 10x48 mm for post dimension 50 mm or	25	Set	<b>910,50 €</b> (36,42 €/set)
K164/58	2 pcs. connecting nuts M8 Ø 10x58 mm, for post dimension 60 mm or	25	Set	<b>910,50 €</b> (36,42 €/set)
K164/78	2 pcs. connecting nuts M8 Ø 10x78 mm, for post dimension 80 mm	25	Set	<b>920,50 €</b> (36,82 €/set)




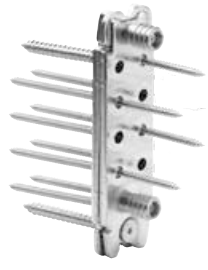
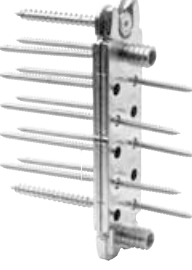
**Longer screws are available for end grain beams, if needed.**

4 pc. RICON® CS-screws 8x160 mm ( $F_{2,Rk}$  = 22,0 kN\*)

\*\* DA = double connection. When ordering, specify the required compound nut length (see page 52).

## RICON®-System EAR\*\* Einzelanschluß mit Einschraubmutter- Verbinder für Pfosten-Riegel und Haupt-/Nebenträger **ETA CE**

Art. No.	Description	Qty.	Unit	List Price
K260	RICON® 60/40 EAR ( $F_{2,Rk}$ 5,0 kN*) 1 set contains: 2 pcs. RICON® 60/40, 2 pcs. RICON® rampa fittings M5x14 mm, 1 pc. RICON® rampa fitting M8x18, 2 pcs. RICON® CS-screws M5x20 mm, 1 pc. RICON® CS- screws M8x25 mm, 2 pcs. RICON® CS-screws 5x80 mm, 1 pc. RICON® CS-screw 8x80 mm, 1 pc. RICON® locking clip	50	Set	<b>491,00 €</b> (9,82 €/set)
	<b>Longer screws are available for end grain beams, if needed.</b> 2 pc. RICON® CS-screws 8x160 mm ( $F_{2,Rk}$ = 6,3 kN*)			





Art. No.	Description	Qty.	Unit	List Price
K261	 <p>RICON® 80/40 EAR (<math>F_{2,Rk}</math> 7,3 kN*)                      1 set contains:                      2 pcs. RICON® 80/40, 2 pcs. RICON® rampa fittings M5x14 mm,                      1 pc. RICON® rampa fitting M8x18,                      2 pcs. RICON® CS-screws M5x20 mm,                      1 pc. RICON® CS- screws M8x25 mm,                      2 pcs. RICON® CS-screws 5x80 mm,                      1 pc. RICON® CS-screw 8x80 mm, 1 pc. RICON® locking clip</p> <p><b>Longer screws are available for end grain beams, if needed.</b>                      2 pcs. RICON® CS-screws 8x160 mm (<math>F_{2,Rk} = 10,3</math> kN*)</p>	25	Set	<b>278,00 €</b> (11,12 € / set)
K262	 <p>RICON® 100/40 EAR (<math>F_{2,Rk}</math> 10,0 kN*)                      1 set contains:                      2 pcs. RICON 100/40, 2 pcs. RICON® rampa fittings M8x18 mm,                      2 pcs. RICON® CS-screws M8x25 mm,                      4 pcs. RICON® CS-screws 5x80 mm,                      2 pcs. each RICON® CS-screws 5x50 mm and 8x80 mm,                      1 pc. locking clip</p> <p><b>Longer screws are available for end grain beams, if needed.</b>                      2 pcs. RICON® CS- screws 8x160 mm (<math>F_{2,Rk} = 13,9</math> kN*)</p>	25	Set	<b>329,50 €</b> (13,18 € / set)
K263	 <p>RICON® 120/40 EAR (<math>F_{2,Rk}</math> 12,8 kN*)                      1 set contains:                      2 pcs. RICON® 120/40, 2 pcs. RICON® rampa fittings M8x18 mm,                      2 pcs. RICON® CS-screws M8x25 mm,                      6 pcs. RICON® CS-screws 5x80 mm,                      3 pcs. RICON® CS-screws 5x50 mm,                      2 pcs. RICON® CS-screws 8x80 mm, 1 pc. RICON® locking clip</p> <p><b>Longer screws are available for end grain beams, if needed.</b>                      2 pcs. RICON® CS- screws 8x160 mm (<math>F_{2,Rk} = 16,6</math> kN*)</p>	25	Set	<b>369,00 €</b> (14,76 € / set)
K265	 <p>RICON® 140/40 EAR (<math>F_{2,Rk}</math> 15,5 kN*)                      1 set contains:                      2 pcs. RICON® 140/40, 2 pcs. RICON® rampa fittings M8x18 mm,                      2 pcs. RICON® CS-screws M8x25 mm,                      4 pcs. RICON® CS-screws 5x50 mm,                      8 pcs. RICON® CS-screws 5x80 mm,                      2 pcs. RICON® CS-screws 8x80 mm, 1 pc. RICON® locking clip</p> <p><b>Longer screws are available for end grain beams, if needed.</b>                      2 pcs. RICON® CS- screws 8x160 mm (<math>F_{2,Rk} = 19,3</math> kN*)</p>	25	Set	<b>407,75 €</b> (16,31 € / set)
K264	 <p>RICON® 160/40 EAR (<math>F_{2,Rk}</math> 18,2 kN*)                      set contains:                      2 pcs. RICON® 160/40,                      2 pcs. RICON® rampa fittings M8x18 mm,                      2 pcs. RICON® CS-screws M8x25 mm,                      5 pcs. RICON® CS-screws 5x50 mm,                      10 pcs. RICON® CS-screws 5x80 mm,                      2 pcs. RICON® CS-screws 8x80 mm, 1 pc. RICON® locking clip</p> <p><b>Longer screws are available for end grain beams, if needed.</b>                      2 pcs. RICON® CS- screws 8x160 mm (<math>F_{2,Rk} = 22,0</math> kN*)</p>	25	Set	<b>448,00 €</b> (17,92 € / set)



\* Characteristic values  $F_{2,Rk}$  in the direction of insertion apply only with the use of original KNAPP® CS-screws according to ETA 10/0189 (2019/10/11).

\*\* EAR = Single connection with rampa fitting

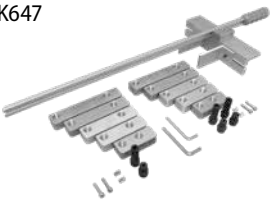
All RICON systems EA, DA and EAR are also available in hot-dipped galvanized or duplex coating (IGP - DUR A fase 5803).

## Accessories – RICON®-System

Art. No.	Description	Qty.	Unit	List Price
K064	RICON® locking clip (Stainless spring steel wire) 25 pcs. / package	1	Pkg.	5,50 €
				
K530	Reinforcing plate RICON® (stainless steel) RP-tec 50-1 HA, 50 mm width of post and latch	1	Pc.	9,90 €
				
K531	Reinforcing plate RICON® (stainless steel) RP-tec 50-1 HA, 60 mm width of post and latch	1	Pc.	9,90 €
K532	Reinforcing plate RICON® (stainless steel) RP-tec 55-1 HA, 60 mm width of post and latch	1	Pc.	13,90 €
K533	Reinforcing plate RICON® (stainless steel) RP-tec 55-1 HA, 80 mm width of post and latch	1	Pc.	13,90 €
K534	Reinforcing plate RICON® (stainless steel) for GUTMANN profile P GF50, 50 mm width of post and latch	1	Pc.	9,90 €
K535	Reinforcing plate RICON® (stainless steel) for GUTMANN profile P GF60, 60 mm width of post and latch	1	Pc.	13,90 €
K536	Reinforcing plate RICON® (stainless steel) for GUTMANN profile P GF80, 80 mm width of post and latch	1	Pc.	9,90 €
K537	Reinforcing plate RICON® (stainless steel) for RAICO profile GP 41 and 47, 50 mm width of post and latch	1	Pc.	9,90 €
K538	Reinforcing plate RICON® (stainless steel) for RAICO profile GP 41 and 47, 60 mm width of post and latch	1	Pc.	9,90 €
K539	Reinforcing plate RICON® (stainless steel) for RAICO profile GP 67, 80 mm width of post and latch	1	Pc.	9,90 €
K519	Reinforcing plate RICON® (stainless steel) SCHÜCO-profile GP50, 50 mm post and beam width	1	Pc.	13,90 €
K523	Reinforcing plate RICON® (stainless steel) SCHÜCO-profile GP50, 60 mm post and beam width	1	Pc.	13,90 €
<b>Reinforcing plate RICON® (stainless steel) for further suppliers available upon request.</b>				
K065	RICON® Mounting kit 1 set contains: 1 pc. RICON®-depth gauge 1 pc. Allen wrench torx 25 1 pc. Allen wrench SW5	1	Pc.	13,00 €
				
Z066	2 Flute Straight Router Bit Ø 15x25 mm (for ACRO, DUO, BASIS, RICON®, GIGANT) with Ø 8 mm shank	1	Pc.	21,90 €
				

Art. No.	Description	Qty.	Unit	List Price
K502	 Routing Jig MULTI F40 for all RICON® sizes (Copying ring $\varnothing = 30$ mm und TCT Slotting Cutter $\varnothing = 15$ mm, length = 25 mm)	1	Pc.	54,00 €
K621	 Marking template RICON® 60 (metal) to put into the routing jig MULTI F40, for $\varnothing 5$ mm drills	1	Pc.	9,00 €
K622	Marking template RICON® 80 (metal) to put into the routing jig MULTI F40, for $\varnothing 5$ mm drills	1	Pc.	9,00 €
K623	Marking template RICON® 100 (metal) to put into the routing jig MULTI F40, for $\varnothing 5$ mm drills	1	Pc.	9,00 €
K624	Marking template RICON® 120 (metal) to put into the routing jig MULTI F40, for $\varnothing 5$ mm drills	1	Pc.	9,00 €
K629	Marking template RICON® 140 (metal) to put into the routing jig MULTI F40, for $\varnothing 5$ mm drills	1	Pc.	9,00 €
K630	Marking template RICON® 160 (metal) to put into the routing jig MULTI F40, for $\varnothing 5$ mm drills	1	Pc.	9,00 €

### Drilling jigs

Art. No.	Description	Qty.	Unit	List Price
K647	 Drilling Jig RICON® with adjustable drilling blocks. For pre-drilling two connector plates at the same time.  2 pcs. drill blocks for one RICON® size in a set (please tell what size drill blocks when ordering).  3 pcs. exchangeable drill bushes $\varnothing 5$ mm,  3 pcs. exchangeable drill bushes $\varnothing 10$ mm, additional drilling block pairs available in the sizes 80, 100, 120, 140, 160 (à 60,00 €).  <b>Suitable for post and beam and main and                      secondary beam joints.</b>	1	Set	378,25 €

### Pre-Dimensioning tool for RICON® connector systems

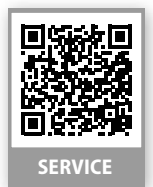


KNAPP® provides a pre-assessment tool for a quick calculation of the the main / secondary beam connectors RICON®, RICON® Stainless Steel-System EA and RICON® S, post and beam, header and rafter joints. The tool is helpful for the planner and structural engineer, as it offers a calculation basis for the static calculation of the projects

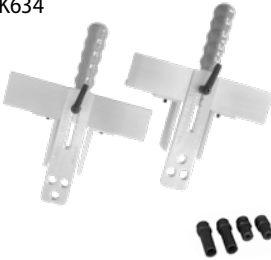





The service is free for KNAPP® customers and can be easily downloaded from the website after a one-time agreement to the terms and conditions.

You can find more tools on our website under Planner Service..

 [www.knapp-connectors.com/en/service/dimensioning-tool](http://www.knapp-connectors.com/en/service/dimensioning-tool)



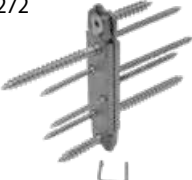
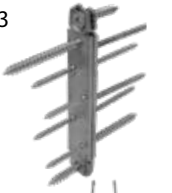






SERVICE

Art. No.	Description	Qty.	Unit	List Price
K634	 <p>Drilling Jig RICON® EA/DA 60/40 - set 1 set contains: 2 pcs. boring-jigs with integrated handle and stop, 6 pcs. exchangeable drill bushes Ø 5 mm, 2 pcs. exchangeable drill bushes Ø 8 mm and 1 pc. exchangeable drill bushes Ø 10 mm drills</p> <p><b>Suitable for post and beam and main and secondary beam joints.</b></p>	1	Pc.	349,00 €
K635	 <p>Drilling Jig RICON® EA/DA 80/40 1 set contains: 1 pc. boring-jig with integrated handle and stop, 2 pcs. fix hardened bushes for Ø 5 mm, 2 pcs. interchangeable hardened bushes for Ø 5 mm, 2 pcs. interchangeable hardened bushes for Ø 10 mm</p> <p><b>Available for two versions:</b> 1) post and beam joints (K635) 2) main and secondary beam joints (K642)</p>	1	Pc.	189,00 €
K636	 <p>Drilling Jig RICON® EA/DA 100/40 1 set contains: 1 pc. boring-jig with integrated handle and 1 pc. stop, 2 pcs. fix hardened bushes for Ø 5 mm, 2 pcs. interchangeable hardened bushes for Ø 5 mm, 2 pcs. interchangeable hardened bushes for Ø 10 mm</p> <p><b>Available for two versions:</b> 1) post and beam joints (K636) 2) main and secondary beam joints (K643)</p>	1	Pc.	189,00 €
K637	 <p>Drilling Jig RICON® EA/DA 120/40 1 set contains: 1 pc. boring-jig with integrated handle and 1 pc. stop, 2 pcs. fix hardened bushes for Ø 5 mm, 2 pcs. interchangeable hardened bushes for Ø 5 mm, 2 pcs. interchangeable hardened bushes for Ø 10 mm</p> <p><b>Available for two versions:</b> 1) post and beam joints (K637) 2) main and secondary beam joints (K644)</p>	1	Pc.	189,00 €
K638	 <p>Drilling Jig RICON® EA/DA 140/40 1 set contains: 2 pcs. fix hardened bushes for Ø 5 mm, 1 pc. boring-jig with integrated handle and 1 pc. stop, 2 pcs. interchangeable hardened bushes for Ø 5 mm, 2 pcs. interchangeable hardened bushes for Ø 10 mm</p> <p><b>Available for two versions:</b> 1) post and beam joints (K638) 2) main and secondary beam joints (K645)</p>	1	Pc.	189,00 €
K639	 <p>Drilling Jig RICON® EA/DA 160/40 1 set contains: 1 pc. boring-jig with integrated handle and 1 pc. stop, 2 pcs fix hardened bushes for Ø 5 mm, 2 pcs. interchangeable hardened bushes for Ø 5 mm, 2 pcs. interchangeable hardened bushes for Ø 10 mm</p> <p><b>Available for two versions:</b> 1) post and beam joints (K639) 2) main and secondary beam joints (K646)</p>	1	Pc.	189,00 €

Commercial Timber Construction

RICON® Stainless Steel-System EA\*\* Single connection – Connectors for Main and Secondary Beam Joints NKL3

Art. No.	Description	Qty.	Unit	List Price
K267	 <p>1 set contains: 2 pcs. RICON® 66/16 stainless steel, 3 pcs. each RICON® CS-screws stainless steel 5x50 and 5x80 mm, 1 pc. RICON® locking clip stainless steel 16 mm</p> <p><b>Alternative screws:</b> *different load capacity CS-screws stainless steel A2 5x25 mm (Art. No. Z514) CS-screws stainless steel A2 5x50mm (Art. No. Z950) CS-screws stainless steel A2 5x30 mm (Art. No. Z515) CS-screws stainless steel A2 5x60mm (Art. No. Z951)</p>	50	Set	<b>485,50 €</b> (9,71 € / set)
K271	 <p>RICON® 70/20 EA stainless steel (F<sub>2,Rk</sub> 4,8 kN*) 1 set contains: 2 pcs. RICON® 70/20 stainless steel, 3 pcs. each RICON® CS-screws stainless steel 5x50 and 5x80 mm, 1 pc. RICON® locking clip stainless steel 20 mm</p> <p><b>Alternative screws:</b> see Art. No. K267</p>	50	Set	<b>608,00 €</b> (12,16 € / set)
K272	 <p>RICON® 120/25 EA Edalstahl (F<sub>2,Rk</sub> 8,9 kN*) 1 set contains: 1 pc. RICON® 120/25 stainless steel, AISI 304 3 pcs. each RICON® CS-screws stainless steel 5x50 TX25 and 5x80 mm TX25, 2 pcs. RICON® CS-screws stainless steel A2 8x50 TX25 and 8x80 mm TX25, 1 pc. RICON® locking clip 25 mm</p>	25	Set	<b>394,75 €</b> (15,79 € / set)
K273	 <p>RICON® 160/25 EA Edalstahl (F<sub>2,Rk</sub> 10,4 kN*) 1 set contains: 1 pc. RICON® 160/25 stainless steel AISI 304, 4 pcs. each RICON® CS-screws stainless steel A2 5x50 and 5x80 mm, 2 pcs. RICON® CS-screws stainless steel A2 8x50 and 8x80 mm, 1 pc. RICON® locking clip 25 mm</p>	25	Set	<b>486,00 €</b> (19,44 € / set)
K274	 <p>RICON® 60/30 EA stainless steel (F<sub>2,Rk</sub> 5,2 kN*) 1 set contains: 2 pcs. RICON® 80/30 stainless steel, 2 pcs. each RICON® CS-screws stainless steel 5x50 and 5x80 mm, 2 pcs. each RICON® CS-screws stainless steel 8x50 and 8x80 mm, 1 pc. RICON® locking clip stainless steel 30 mm</p> <p><b>Alternative screws:</b> see Art. No. K267</p>	25	Set	<b>372,25 €</b> (14,89 € / set)
K275	 <p>RICON® 80/30 EA stainless steel (F<sub>2,Rk</sub> 7,5 kN*) 1 set contains: 2 pcs. RICON® 80/30 stainless steel, 2 pcs. each RICON® CS-screws stainless steel 5x50 and 5x80 mm, 2 pcs. each RICON® CS-screws stainless steel 8x50 and 8x80 mm, 1 pc. RICON® locking clip stainless steel 30 mm</p>	25	Set	<b>453,50 €</b> (18,14 € / set)
K276	 <p>RICON® 100/30 EA stainless steel (F<sub>2,Rk</sub> 10,4 kN*) 1 set contains: 2 pcs. RICON® 100/30 stainless steel A2, 4 pcs. each RICON® CS-screws stainless steel A2 5x50 and 5x80 mm, 2 pcs. each RICON® CS-screws stainless steel A2 8x50 and 8x80 mm, 1 pc. RICON® locking clip stainless steel 30 mm</p>	25	Set	<b>534,50 €</b> (21,38 € / set)
K277	 <p>RICON® 120/30 EA stainless steel (F<sub>2,Rk</sub> 13,2 kN*) 1 set contains: 2 pcs. each RICON® 120/30 stainless steel A2, 6 pcs. each RICON® CS-screws stainless steel A2 5x50 and 5x80 mm, 2 pcs. each RICON® CS-screws stainless steel A2 8x50 and 8x80 mm, 1 pc. RICON® locking clip stainless steel 30 mm</p>	25	Set	<b>624,25 €</b> (24,97 € / set)

Routing jigs are available

Suitable jig  
Art. No. K506  
Multi F20

NEW





NEW

Suitable jig  
Art. No. K501/R  
Multi F30

Suitable jig  
Art. No. K501/R  
Multi F30






Suitable jig  
Art. No. K501/R  
Multi F30

Suitable jig  
Art. No. K501/R  
Multi F30

Art. No.	Description	Qty.	Unit	List Price
K278	 <p>RICON® 140/30 EA stainless steel (<math>F_{2,Rk}</math> 16,1 kN*) 1 set contains: 2 pcs. RICON® 140/30 stainless steel A2, 8 pcs. each RICON® CS-screws stainless steel A2 5x50 and 5x80 mm, 2 pcs. each RICON® CS-screws stainless steel A2 8x50 and 8x80 mm, 1 pc. RICON® locking clip stainless steel 30 mm</p>	25	Set	<b>689,00 €</b> (27,56 € / set)  Suitable jig Art. No. K501/R Multi F30
K279	 <p>RICON® 160/30 EA stainless steel (<math>F_{2,Rk}</math> 17,4 kN*) 1 set contains: 2 pcs. RICON® 160/30 stainless steel A2, 10 pcs. each RICON® CS-screws stainless steel A2 5x50 and 5x80 mm, 2 pcs. each RICON® CS-screws stainless steel A2 8x50 and 8x80 mm, 1 pc. RICON® locking clip stainless steel 30 mm</p>	25	Set	<b>748,75 €</b> (29,95 € / set)  Suitable jig Art. No. K501/R Multi F30
K372	 <p>RICON® 80/40 EA stainless steel (<math>F_{2,Rk}</math> 7,5 kN*) 1 set contains: 2 pcs. RICON® 80/40 stainless steel, 2 pcs. each RICON® CS-screws stainless steel 5x50 and 5x80 mm, 2 pcs. each RICON® CS-screws stainless steel 8x50 and 8x80 mm, 1 pc. RICON® locking clip stainless steel 40 mm</p>	25	Set	<b>478,50 €</b> (19,14 € / set)  Suitable jigs: Drilling jig Art. No. K635 and Art. No. K642 and Routing Jig Art. No. K502 Multi F40
K376	 <p>RICON® 160/40 EA stainless steel (<math>F_{2,Rk}</math> 17,4 kN*) 1 set contains: 2 pcs. each RICON® 160/40 stainless steel A2, 10 pcs. each RICON® CS-screws stainless steel A2 5x50 and 5x80 mm, 2 pcs. each RICON® CS-screws stainless steel A2 8x50 and 8x80 mm, 1 pc. RICON® locking clip stainless steel 40 mm</p>	25	Set	<b>830,00 €</b> (33,20 € / set)  Passende FrässArt.Nr. K639, Art.Nr. K646 and Routing jig Art.Nr. K502 MultiF400
KR59	RICON® 40/40 EA stainless steel (available on request)	1	St.	<b>8,00 €</b>
K268	RICON® 100/25 EA stainless steel	1	St.	<b>12,50 €</b>
K269	RICON® 140/25 EA stainless steel (auf Anfrage lieferbar)	1	St.	<b>13,49 €</b>

\* Characteristic values  $F_{2,Rk}$  in the direction of insertion apply only with the use of original KNAPP® CS-screws according to ETA 10/0189 (2019/10/11) in GL24h. Values calculated according to ETA-10/0189 (2019)- test values follow from engineering office Blaß & Eberhard. Audited by KIT Karlsruhe. ETA approval is pending.

## Accessories – RICON® Edelstahl-System







Art. No.	Description	Qty.	Unit	List Price
K064/16	 <p>RICON® locking clip (stainless spring steel wire) 16 mm (25 pcs./package)</p>	1	Pkg.	<b>5,00 €</b> (0,20 € je St.)
K064/20	 <p>RICON® locking clip (stainless spring steel wire) 20 mm (25 pcs./package)</p>	1	Pkg.	<b>5,25 €</b> (0,21 € je St.)
K064/25	 <p>RICON® locking clip (stainless spring steel wire) 25 mm (25 pcs./package)</p>	1	Pkg.	<b>5,25 €</b> (0,21 € je St.)
K064/30	 <p>RICON® locking clip (stainless spring steel wire) 30 mm (25 pcs./package)</p>	1	Pkg.	<b>5,50 €</b> (0,22 € je St.)
K064/40	 <p>RICON® locking clip (stainless spring steel wire) 40 mm (25 pcs./package)</p>	1	Pkg.	<b>5,50 €</b> (0,22 € je St.)



## Timber Frame Construction










## GIGANT – Main and Secondary Beam Connectors

ETA CE

Art. No.	Description	Qty.	Unit	List Price
K051	 GIGANT 120/40 ( $F_{2,Rk} = 12,5 \text{ kN}^*$ ) 1 set contains: 1 pair GIGANT 120/40 3 pcs. each KNAPP® CS-screws 10x80 mm and 10x120 mm  <b>Longer screws are available for end grain beams, if needed.</b> 3 pcs. each KNAPP® CS-screws 10x200 mm ( $F_{2,Rk} = 12,5 \text{ kN}^*$ )	25	Set	<b>469,25 €</b> (18,77 € / set)
K050	 GIGANT 150/40 ( $F_{2,Rk} = 16,7 \text{ kN}^*$ ) 1 set contains: 1 pair GIGANT 150/40 4 pcs. each KNAPP® CS-screws 10x80 mm and 10x120 mm  <b>Longer screws are available for end grain beams, if needed.</b> 4 pcs. each KNAPP® CS-screws 10x200 mm ( $F_{2,Rk} = 19,2 \text{ kN}^*$ )	25	Set	<b>547,75 €</b> (21,91 € / set)
K052	 GIGANT 180/40 ( $F_{2,Rk} = 25,0 \text{ kN}^*$ ) 1 set contains: 1 pair GIGANT 180/40 6 pcs. each KNAPP® CS-screws 10x80 mm and 10x120 mm  Required screws per connection with clip lock: KNAPP® CS-screws 5 pcs. 10x80 mm and 6 pcs. 10x120 mm  <b>Longer screws are available for end grain beams, if needed.</b> 6 pcs. each KNAPP® CS-screws 10x200 mm ( $F_{2,Rk} = 30,7 \text{ kN}^*$ )	25	Set	<b>652,25 €</b> (26,09 € / set)
GIGANT - Connectors for main and secondary beam joints (hot-dip galvanised)				
K151	 GIGANT 120/40 hot-dip galvanised ( $F_{2,Rk} = 12,5 \text{ kN}^*$ ) 1 set contains: 1 pair GIGANT 120/40 3 pcs. each KNAPP® CS-screws 10x80 mm and 10x120 mm (hot-dip galvanised)	25	Set	<b>495,25 €</b> (19,81 € / set)
K150	 GIGANT 150/40 hot-dip galvanised ( $F_{2,Rk} = 16,7 \text{ kN}^*$ ) 1 set contains: 1 pair GIGANT 150/40 4 pcs. each KNAPP® CS-screws 10x80 mm and 10x120 mm (hot-dip galvanised)	25	Set	<b>574,50 €</b> (22,98 € / set)
K152	 GIGANT 180/40 hot-dip galvanised ( $F_{2,Rk} = 25,0 \text{ kN}^*$ ) 1 set contains: 1 pair GIGANT 180/40 6 pcs. each KNAPP® CS-screws 10x80 mm and 10x120 mm (feuerverzinkt) Required screws per connection with clip lock: KNAPP® CS-screws 5 pcs. 10x80 mm and 6 pcs. 10x120 mm (hot-dip galvanised)	25	Set	<b>730,50 €</b> (29,22 € / set)

 \*Characteristic values  $F_{2,Rk}$  in the direction of insertion apply only with the use of original KNAPP® CS-screws according to ETA-10/0189 (11.10.2019)..

## Accessories – GIGANT

Art. No.	Description	Qty.	Unit	List Price
Z525 	GIGANT Clip lock mechanical lock for GIGANT connector, 2 mm sheet steel, galvanized and special coated	25	Pc.	<b>44,25 €</b> (1,77 €/pc.)
Z068 	2 Flute Straight Router Bit Ø 15x40mm with Ø 12 mm shank (for GIGANT, RICON® S)	1	Pc.	<b>24,00 €</b>
K631 	Drilling Jig GIGANT 120/40 (metal) To put into the routing jig MULTI F 40, for Ø 6 mm drills	1	Pc.	<b>10,00 €</b>
K632 	Drilling Jig GIGANT 150/40 (metal) To put into the routing jig MULTI F40, for Ø 6 mm drills	1	Pc.	<b>10,00 €</b>
K633 	Drilling Jig GIGANT 180/40 (metal) To put into the routing jig MULTI F 40, for Ø 6 mm drills	1	Pc.	<b>10,00 €</b>
K502 	Routing Jig MULTI F40 for all sizes of GIGANT	1	Pc.	<b>54,00 €</b>
K463 	Drilling Jig GIGANT 120/40 (aluminum) Contains: 1 pc. boring-jig with hardened bushes for Ø 6 mm drills, 1 pc. adjustable handle stop, 2 pcs. stop rail, 1 pc. stop	1	Pc.	<b>145,00 €</b>
K464 	Drilling Jig GIGANT 150/40 (aluminum) Contains: 1 pc. boring-jig with hardened bushes for Ø 6 mm drills, 1 pc. adjustable handle stop, 2 pcs. stop rail, 1 pc. stop	1	Pc.	<b>155,00 €</b>
K465 	Drilling Jig GIGANT 180/40 (aluminum) Contains: 1 pc. boring-jig with hardened bushes for Ø 6 mm drills, 1 pc. adjustable handle stop, 2 pcs. stop rail, 1 pc. stop	1	Pc.	<b>175,00 €</b>


GIGANT-routing jig for copy ring Ø = 30 mm and TCT Slotting Cutter Ø = 15, length = 40 mm





## Heavy Timber Construction

## RICON® S – Main and Secondary Beam Connectors VS welded collar bolts

Joint variations: wood-wood, wood-steel, steel-steel, wood-concrete

ETA CE

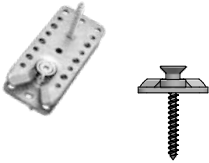
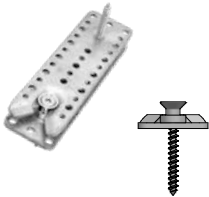
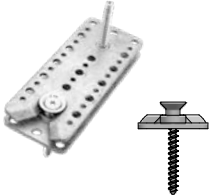
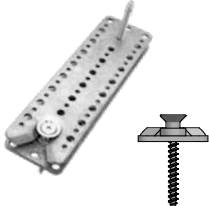
Art. No.	Description	Qty.	Unit	List Price
K126 	RICON® S 140/60 VS** Required screws <sup>1)</sup> : RICON® S CS-screws 8x80 mm (Art. No. Z580) RICON® S CS-screws 8x160 mm (Art. No. Z581) <sup>1)</sup> Quantity of required screws vary with respective load cases	1	Pairs	<b>33,10 €</b>
K126/MIN	RICON® S 140/60 VS ( $F_{2,Rk} = 26,9 \text{ kN}^*$ ) 7 pcs. each RICON® S CS-screws 8x80 mm and 8x160 mm	1	Set	<b>42,97 €</b>
K126/ST	RICON® S 140/60 VS ( $F_{2,Rk} = 37,1 \text{ kN}^*$ ) 10 pcs. each RICON® S CS-screws 8x80 mm and 8x160 mm	1	Set	<b>47,20 €</b>
K126/MAX	RICON® S 140/60 VS ( $F_{2,Rk} = 40,2 \text{ kN}^*$ ) 10 pcs. each RICON® S CS-screws 8x80 mm and 8x240 mm	1	Set	<b>49,50 €</b>

Art. No.	Description	Qty.	Unit	List Price
K127	 <p>RICON® S 200/60 VS** Required screws<sup>1</sup>: RICON® S CS-screws 8x80 mm (Art. No. Z580) RICON® S CS-screws 8x160 mm Art. No. Z581) <sup>1</sup>) Quantity of required screws vary with respective load cases</p>	1	Pairs	35,20 €
K127/MIN	RICON® S 200/60 VS ( $F_{2,Rk} = 30,4 \text{ kN}^*$ ) 8 pcs. each RICON® S CS-screws 8x80 mm and 8x160 mm	1	Set	46,48 €
K127/ST	RICON® S 200/60 VS ( $F_{2,Rk} = 56,7 \text{ kN}^*$ ) 16 pcs. each RICON® S CS-screws 8x80mm and 8x160mm	1	Set	57,76 €
K127/MAX	RICON® S 200/60 VS ( $F_{2,Rk} = 66,5 \text{ kN}^*$ ) 16 pcs. each RICON® S CS-screws 8x80mm and 8x240mm	1	Set	61,49 €
K128	 <p>RICON® S 200/80 VS** Required screws<sup>1</sup>: RICON® S CS-screws 10x100 mm (Art. No. Z582) RICON® S CS-screws 10x200 mm (Art. No. Z583) <sup>1</sup>) Quantity of required screws vary with respective load cases.</p>	1	Pairs	39,70 €
K128/MIN	RICON® S 200/80 VS ( $F_{2,Rk} = 42,4 \text{ kN}^*$ ) 8 pcs. each RICON® S CS-screws 10x100mm and 10x200 mm	1	Set	61,62 €
K128/ST	RICON® S 200/80 VS ( $F_{2,Rk} = 79,1 \text{ kN}^*$ ) 16 pcs. each RICON® S CS-screws 10x100mm and 10x200mm	1	Set	83,54 €
K128/MAX	RICON® S 200/80 VS ( $F_{2,Rk} = 92,4 \text{ kN}^*$ ) 16pcs. each RICON® S CS-screws 10x100mm and 10x300mm	1	Set	89,62 €
K129	 <p>RICON® S 290/80 VS** Required screws<sup>1</sup>: RICON® S CS-screws 10x100 mm (Art. No. Z582) RICON® S CS-screws 10x200 mm (Art. No. Z583) <sup>1</sup>) Quantity of required screws vary with respective load cases, min. 25 pcs.</p>	1	Pairs	44,10 €
K129/MIN	RICON® S 290/80 VS ( $F_{2,Rk} = 42,4 \text{ kN}^*$ ) 8 pcs. each RICON® S CS-screws 10x100mm and 10x200mm	1	Set	66,02 €
K129/ST	RICON® S 290/80 VS ( $F_{2,Rk} = 118,2 \text{ kN}^*$ ) 25 pcs. each RICON® S CS-screws 10x100mm and 10x200mm	1	Set	112,60 €
K129/MAX	RICON® S 290/80 VS ( $F_{2,Rk} = 128,7 \text{ kN}^*$ ) 25 pcs. each RICON® S CS-screws 10x100mm and 10x300mm	1	Set	122,10 €
K191	 <p>RICON® S 390/80 VS** ZP*** Required screws<sup>1</sup>: RICON® S CS-screws HT 28 SK 10x100 mm, RICON® S CS-screws NT 28 SK 10x200 mm for slanted screwing RICON® S CS-screws HT 2 SK 10x400 mm, RICON® S CS-screws NT 2 SK 10x450 mm (for slanted screwing in GL24h)</p>	1	Pairs	151,20 €
K191/MIN	RICON® S 390/80 VS ( $F_{2,Rk} = 130,9 \text{ kN}^*$ ) 28 pcs. each RICON® S CS-screws 10x100 mm and 10x200 mm	1	Set	227,92 €
K191/ST	RICON® S 390/80 VS ( $F_{2,Rk} = 170,9 \text{ kN}^*$ ) 28 pcs. each RICON® S CS-screws 10x100 mm and 10x200 mm, 2 pcs. each CS-screws 10x400 and 10x450	1	Set	251,52 €
K191/MAX	RICON® S 390/80 VS ( $F_{2,Rk} = 195,9 \text{ kN}^*$ ) 28 pcs. each RICON® S CS-screws 10x100 mm and. 10x300 mm, 2 pcs. each CS-screws 10x400 and 10x450	1	Set	262,16 €

\* Characteristic values  $F_{2,Rk}$  at GL24h in the insertion direction are valid only with the use of original KNAPP® CS-screws according to ETA-10/0189 (2019/10/11).  
 \*\* VS = Welded collar bolt. Further connector versions are available on request.  
 \*\*\* ZP = Additional plate

MIN = Minimum i.e. minimum screwing ST = Standard i.e. Standard screwing MAX = Heavy load i.e. maximum screwing


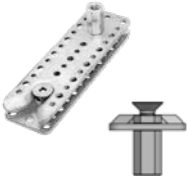
## RICON® S – connector for main and secondary beam – VK\*\* Screwed collar bolt ETA CE

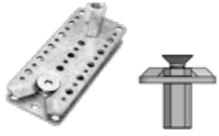
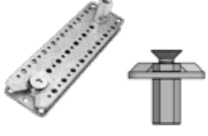
Art. No.	Description	Qty.	Unit	List Price
K130	 <p>RICON® S 140/60 VK Max (<math>F_{2,Rk}</math> 31,5 kN*)            1 set contains:            2 pcs. RICON® S 140/60 D12            2 pcs. RICON® S screwed collar bolt,            8 pcs. RICON® S CS-screws 8x80 mm,            8 pcs. RICON® S CS-screws 8x160 mm</p> <p><b>Longer screws are available for end grain beams, if needed:</b>            RICON® CS- screws 8x240 mm (<math>F_{2,Rk}</math> = 33,5 kN*)</p>	1	Set	29,48 €
K132	 <p>RICON® S 200/60 VK Max (<math>F_{2,Rk}</math> 34,9 kN*)            1 set contains:            2 pcs. RICON® S 200/60 D12            2 pcs. RICON® S screwed collar bolt,            9 pcs. RICON® S CS-screws 8x80 mm,            9 pcs. RICON® S CS-screws 8x160 mm</p> <p><b>Longer screws are available for end grain beams, if needed.</b>            RICON® CS- screws 8x240 mm (<math>F_{2,Rk}</math> = 41,4 kN*)</p>	1	Set	33,09 €
K138	 <p>RICON® S 200/80 VK Max (<math>F_{2,Rk}</math> 48,8 kN*)            1 set contains:            2 pcs. RICON® S 200/80 D16            2 pcs. RICON® S screwed collar bolt,            9 pcs. RICON® S CS-screws 10x100 mm,            9 pcs. RICON® S CS-screws 10x200 mm</p> <p><b>Longer screws are available for end grain beams, if needed.</b>            RICON® CS- screws 10x300 mm (<math>F_{2,Rk}</math> = 58,4 kN*)</p>	1	Set	49,21 €
K141	 <p>RICON® S 290/80 VK Max (<math>F_{2,Rk}</math> 48,8 kN*)            1 set contains:            2 pcs. RICON® S 290/80 D16            2 pcs. RICON® S screwed collar bolt, 9 pcs. RICON® S CS-screws 10x100 mm,            9 pcs. RICON® S CS-screws 10x200 mm</p> <p><b>Longer screws are available for end grain beams, if needed.</b>            RICON® CS- screws 10x300 mm (<math>F_{2,Rk}</math> = 59,7 kN*)</p>	1	Set	52,54 €

\* Characteristic values  $F_{2,Rk}$  bei GL24h in the direction of insertion apply only with the use of original KNAPP® CS-screws according to ETA-10/0189 (2019/10/11).

\*\* VK = Screwed collar bolt for lower loads


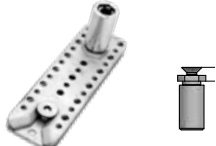
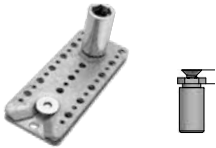
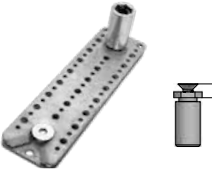
## RICON® S – connector for main and secondary beam – EK\*\* Adjustable collar bolt ETA CE

Art. No.	Description	Qty.	Unit	List Price
K146	 <p>RICON® S 140/60 EK (<math>F_{2,Rk}</math> 37,1 kN*)            1 set contains:            2 pcs. RICON® S 140/60 M12            2 pcs. RICON® S adjustable collar bolt,            10 pcs. RICON® S CS-screws 8x80 mm,            10 pcs. RICON® S CS-screws 8x160 mm</p> <p><b>Longer screws are available for end grain beams, if needed.</b>            RICON® CS-screws 8x240 mm (<math>F_{2,Rk}</math> = 40,2 kN*)</p>	1	Set	33,78 €
K148	 <p>RICON® S 200/60 EK (<math>F_{2,Rk}</math> 44,2 kN*)            1 set contains:            2 pcs. RICON® S 200/60 M12            2 pcs. RICON® S adjustable collar bolt,            16 pcs. RICON® S CS-screws 8x80 mm,            16 pcs. RICON® S CS-screws 8x160 mm</p> <p><b>Longer screws are available for end grain beams, if needed.</b>            RICON® CS-screws 8x240 mm (<math>F_{2,Rk}</math> = 44,2 kN*)</p>	1	Set	44,44 €

Art. No.	Description	Qty.	Unit	List Price
K153	 <p>RICON® S 200/80 EK (<math>F_{2,Rk}</math> 65,0 kN*)                      1 set contains:                      2 pcs. RICON® S 200/80 M16                      2 pcs RICON® S adjustable collar bolt,                      16 pcs. RICON® S CS-screws 10x100 mm,                      16 pcs. RICON® S CS-screws 10x200 mm</p>	1	Set	68,93 €
K156	 <p>RICON® S 290/80 EK (<math>F_{2,Rk}</math> 72,2 kN*)                      1 set contains:                      2 pcs. RICON® S 290/80 M16                      2 pcs. RICON® S adjustable collar bolt ,                      20 pcs. RICON® S CS-screws 10x100 mm,                      20 pcs. RICON® S CS-screws 10x200 mm</p>	1	Set	83,22 €
K280	RICON® S 140/60 EK M12 adjustable collar bolt with washer ( $F_{2,Rk}$ 37,1 kN*) RICON® S 140/60 EK M12, 10 CS 8x160, 10 CS 8x80, 2 CSK 12x50, 2 hex nut M12	1	Set	25,48 €
K281	RICON® S 200/60 EK M12 adjustable collar bolt with washer ( $F_{2,Rk}$ 44,2 kN*) RICON® S 200/60 EK M12, 16 CS 8x160, 16 CS 8x80, 2 CSK 12x50, 2 hex nut M12	1	Set	34,99 €
K282	RICON® S 200/80 EK M16 adjustable collar bolt with washer ( $F_{2,Rk}$ 65,0 kN*) RICON® S 200/80 EK M16, 16 CS 10x200, 16 CS 10x100, 2 CSK 16x60, 2 hex nut M16	1	Set	61,68 €
K283	RICON® S 290/80 EK M16 adjustable collar bolt with washer ( $F_{2,Rk}$ 72,2 kN*) RICON® S 290/80 EK M16, 20 CS 10x200, 20 CS 10x100, 2 CSK 16x60, 2 hex nut M16 Available upon request	1	Set	77,04 €





\* Characteristic values  $F_{2,Rk}$  bei GL24h in the direction of insertion apply only with the use of original KNAPP® CS-screws according to ETA-10/0189 (2019/10/11).  
 \*\* EK = Adjustable collar bolt for tolerance compensation

**RICON® S – connector for main and secondary beam – GK\*\* Spring retaining screw collar bolt ETAC®**


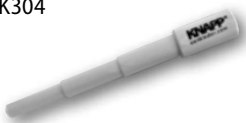

Art. No.	Description	Qty.	Unit	List Price
K134	 <p>RICON® S 140/60 GK (<math>F_{2,Rk}</math> 37,1 kN*)                      1 set contains:                      2 pcs. RICON® S 140/60 M22                      2 pcs. RICON® S spring retaining screw collar bolt,                      10 pcs. RICON® S CS-screws 8x80 mm,                      10 pcs. RICON® S CS-screws 8x160 mm                      Longer screws are available for end grain beams, if needed.                      RICON® CS-screws 8x240 mm (<math>F_{2,Rk} = 40,2</math> kN*)</p>	1	Set	77,50 €
K136	 <p>RICON® S 200/60 GK (<math>F_{2,Rk}</math> 44,2 kN*)                      1 set contains:                      2 pcs. RICON® S 200/60 M22                      2 pcs. RICON® S spring retaining screw collar bolt,                      16 pcs. RICON® S CS-screws 8x80 mm,                      16 pcs. RICON® S CS-screws 8x160 mm                      Longer screws are available for end grain beams, if needed.                      RICON® CS-screws 8x240 mm (<math>F_{2,Rk} = 44,2</math> kN*)</p>	1	Set	88,16 €
K142	 <p>RICON® S 200/80 GK (<math>F_{2,Rk}</math> 65,0 kN*)                      1 set contains:                      2 pcs. RICON® S 200/80 M22                      2 pcs. RICON® S spring retaining screw collar bolt,                      16 pcs. RICON® S CS-screws 10x100 mm,                      16 pcs. RICON® S CS-screws 10x200 mm</p>	1	Set	146,20 €
K145	 <p>RICON® S 290/80 GK (<math>F_{2,Rk}</math> 72,2 kN*)                      1 set contains:                      2 pcs. RICON® S 290/80 M22                      2 pcs. RICON® S spring retaining screw collar bolt,                      20 pcs. RICON® S CS-screws 10x100 mm,                      20 pcs. RICON® S CS-screws 10x200 mm</p>	1	Set	161,70 €

\* Characteristic values  $F_{2,Rk}$  at GL24h in the direction of insertion apply only with the use of original KNAPP® CS-screws according to ETA-10/0189 (2019/10/11).  
 \*\* GK = Spring retaining screw collar bolt for special assembly requirements

## Accessories – RICON® S


Art. No.	Description	Qty.	Unit	List Price
Z068	2 Flute Straight Router Bit Ø 15x40mm with Ø 12 mm shank (for GIGANT, RICON® S)	1	Pc.	24,00 €
				
K510	Routing Jig MULTI F60 (plywood) for all RICON® S60 sizes	1	Pc.	63,00 €
				
K511	Routing Jig MULTI F80 (plywood) for all RICON® S80 sizes	1	Pc.	63,00 €
				
K157	Clip lock RICON® S60 (stainless spring steel)	1	Pc.	13,50 €
				
K158	Clip lock RICON® RICON® S80 (stainless spring steel)	1	Pc.	13,50 €

## MATEO Timber Peg


Art. No.	Description	Qty.	Unit	List Price
K303	MATEO Timber Peg - Beech L 320 (Ø 40, Ø 30, Ø 25, Ø 20)	1	Pc.	3,65 €
				
	$F_{v,Rk} = 12,2 \text{ kN}^*$ Shear Strength d=30 mm	12	Pc.	43,80 € (3,65 € / pc.)
	$F_{v,Rk} = 8,8 \text{ kN}^*$ Shear Strength d=25 mm (*Cross Laminated Wall Corner)	60	Pc.	210,00 € (3,50 € / pc.)
	More wood species available upon request.	120	Pc.	396,00 € (3,30 € / pc.)
K304	MATEO Timber Peg - Ash L 320 (Ø40 Ø30 Ø25 Ø20)	1	Pc.	3,85 €
				
	$F_{v,Rk} = 11,4 \text{ kN}^*$ Shear Strength d=30 mm	12	Pc.	46,20 € (3,85 € / pc.)
	$F_{v,Rk} = 8,2 \text{ kN}^*$ Shear Strength d=25 mm (*Cross Laminated Wall Corner)	60	Pc.	222,60 € (3,71 € / pc.)
	More wood species available upon request.	120	Pc.	417,60 € (3,48 € / pc.)
Z093	MATEO Drill Bit HS (16 mm shank)	1	Pc.	269,00 €
				

## One-Component Polyurethane Adhesive







### Polyurethane adhesive, water-resistant D4, for thin adhesive joints

Art. No.	Description	Qty.	Unit	List Price
Z011	KNAPP®-Adhesive PU+	1	Pc.	8,75 €
				
	For smooth surfaces and thin adhesive joints Water resistant class D4 according to EN 204 Can be used up to 120 ° C, without additives (recommended for CHAMP, CLIPS, KNAPP®- Dowel, KLIICKpro and miniKLIICK)	10	Pc.	82,50 € (8,25 € / pc.)
		25	Pc.	190,00 € (7,60 € / pc.)

### Polyurethane adhesive, water resistant D4, for dowel adhesive joints

Art. No.	Description	Qty.	Unit	List Price
Z010	KNAPP®-Adhesive PM+	1	Pc.	8,75 €
				
	Expands lightly to fill out thicker adhesive joints. Water resistant class D4 according to EN 204. Can be used up to 120 ° C, without additives (recommended for TREPPO)	10	Pc.	82,50 € (8,25 € / pc.)
		25	Pc.	190,00 € (7,60 € / pc.)



## T-JOINT – Connector for Slanted Screwing





Art. No.	Description	Qty.	Unit	List Price
Z606	T-JOINT D20 W45 (cast steel) Diameter 20 mm, 45° angle Can be screwed with: CS-screw 6x100 mm (Art.No. Z494) or CS-screw 6x120 mm (Art.No. Z495) CS-screw 8x160 mm (Art.No. Z581) Tensile Load $F_{t,Rk} = 6,2 \text{ kN}^*$	1	Pc.	1,80€
	* Tensile load applies to T-JOINT D30 W30 in 30mmKERTO-S plate in the fiber direction with 8x240 screw in GL24h support			
Z617	T-JOINT D30 W30 (cast galvanized steel) Diameter 30 mm, 30° angle Can be screwed with: 1 pc. CS-screw 8x120 mm or 10x120 mm and longer 2 pcs. CS-screws 5x50 mm or 6x50 mm and longer Tensile Load $F_{t,Rk} = 15,1 \text{ kN}^*$	1	Pc.	4,35 €
	* Tensile load applies to T-JOINT D30 W30 in 30mmKERTO-S plate in the fiber direction with 8x240 screw in GL24h support			
Z402	T-JOINT D35 W30 (Edelstahl) Durchmesser 35 mm, Winkel 30° Schrauben Empfehlung: 1 pc. CS-screw 8x120 mm oder 12x120 mm and longer 2 pcs. CS-screws 5x50 mm oder 6x50 mm and longer Tensile Load $F_{t,Rk} = 15,4 \text{ kN}^*$	1	Pc.	5,50€
	* Tensile load applies to T-JOINT D30 W30 in 30mmKERTO-S plate in the fiber direction with 8x240 screw in GL24h support			
Z403	T-JOINT D35 W45 (stainless steel) Diameter 35 mm, 30° angle Can be screwed with: 1 pc. CS-screw 8x120 mm or 12x120 mm and longer 2 pcs. CS-screws 5x50 mm or 6x50 mm and longer Tensile Load $F_{t,Rk} = 15,0 \text{ kN}^*$	1	Pc.	5,50€
	* Tensile load applies to T-JOINT D30 W30 in 30mmKERTO-S plate in the fiber direction with 8x240 screw in GL24h support			
Z404	<b>NEW</b> T-JOINT D40 W30 (Edelstahl) Durchmesser 40 mm, Winkel 30° Schrauben Empfehlung: 1 St. SK Schrauben 10x200mm (Z583), 1 St. SK Schrauben 10x300mm (Z672) 2 St. SK Schrauben 8x120 (Z670), 2 St. SK Schrauben 8x160 (Z673) 2 St. SK Schrauben 8x200 (Z671), 2 St. SK Schrauben 8x240 (Z672) Max. Zuglast $F_{t,Rk} = 26 \text{ kN}^*$ mit 1 SK 10x300, 2 SK 8x240	1	Pc.	5,85€
	* max. Zuglast gilt für T-Joint D40 W30 in CLT Wände			
Z606/BOX	T-JOINT Starter kit Contents: 50 pcs. T-Joint 20, 25 pcs. CS-screws 6x100 mm, 25 pcs. CS-screws 6x120 mm, Drilling Jig (for UNO 30, DUO 30, DUO 35 and T-JOINT), TCT boring bit 20 mm, HSS drill 6 /160 mm	1	Pc.	282,25 €
				

T-JOINT has been approved according to ETA-19/0628 since 11.10.2019.

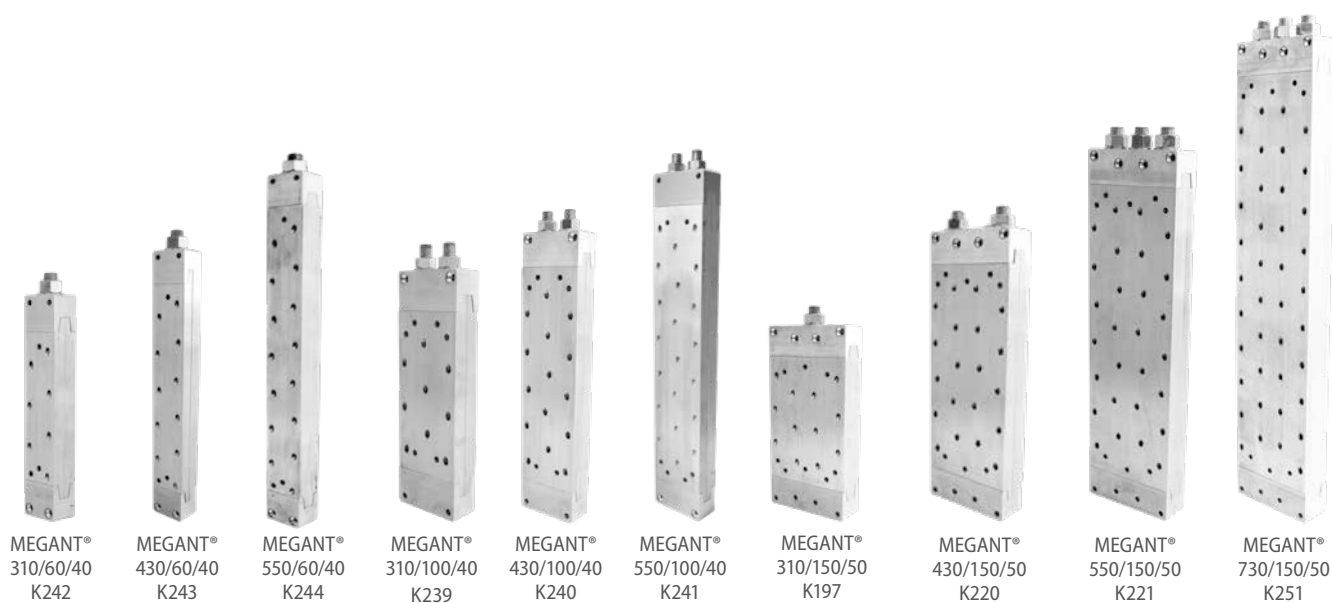
T-JOINT can be used alone or in combination with our connectors RICON®, RICON® S, WALCO® V and MEGANT®.

## Accessories – T-JOINT

Art. No.	Description	Qty.	Unit	List Price
K256	Drilling Jig D20, 45° angle (for T-JOINT 20)	1	Pc.	72,00 €
				
K258	Drilling template D30, 30° screw angle	1	Pc.	72,00 €
				

Art. No.	Description	Qty.	Unit	List Price
K566	Drilling template D35, 30° screw angle	1	Pc.	72,00 €
				
K567	Drilling template D35, 45° screw angle	1	Pc.	72,00 €
				
K563	Drilling Jig (for UNO 30, DUO 30, DUO 35 and T-JOINT)	1	Pc.	13,78 €
				
Z075/20	Forstner Bit 20 mm with adjustable depth stop (für T-JOINT)	1	Pc.	74,00 €
	Forstner Bit 30 mm with adjustable depth stop (für T-JOINT) Art. Nr. Z070	1	Pc.	74,00 €
	Forstner Bit 35 mm with adjustable depth stop (für T-JOINT) Art. Nr. Z071	1	Pc.	106,00 €
	Tungsten Carbide Tipped bade with adjustable depth stop			
				Preis auf Anfrage

## Mass Timber Construction



MEGANT®  
310/60/40  
K242

MEGANT®  
430/60/40  
K243

MEGANT®  
550/60/40  
K244

MEGANT®  
310/100/40  
K239

MEGANT®  
430/100/40  
K240

MEGANT®  
550/100/40  
K241

MEGANT®  
310/150/50  
K197

MEGANT®  
430/150/50  
K220


MEGANT®  
550/150/50  
K221

MEGANT®  
730/150/50  
K251

## MEGANT® – Heavy duty system up to 768 kN







Joint variations: wood-wood, wood-steel, wood-concrete





ETA CE

Art. No.	Description	Qty.	Unit	List Price
K242	MEGANT® 310/60/40 ( $F_{2,Rk}$ 96,8 kN*) 1 set contains: 2 pcs. base plates 250/60/20, 1 pc. clamping jaw 60/50/40, 1 pc. clamping jaw 60/50/40/M20, 1 pc. threaded rod M20/340, 1 pc. nut M20, 1 pc. washer M20 Required screws: 19 pcs. RICON® S CS-screws 60 8x160 mm (Art. No. Z581) 4 pcs. RICON® S CS-screws 8x240 mm (Art. No. Z530)	1	Set	180,00 €
				

\*screw pattern, screw dimensions vary with respective load cases



Art. No.	Description	Qty.	Unit	List Price
K243	 <p>MEGANT® 430/60/40 (<math>F_{2,Rk}</math> 152,0 kN*)                      1 set contains:                      2 pcs. base plates 370/60/20, 1 pc. clamping jaw 60/50/40,                      1 pc. clamping jaw 60/50/40/M20, 1 pc. threaded rod M20/460, 1 pc. nut                      M20, 1 pc. washer M20                      Required screws:                      27 pcs. RICON® S CS-screws 60 8x160 mm (Art. No. Z581)                      5 pcs. RICON® S CS-screws 8x240 mm (Art. No. Z530)</p>	1	Set	217,00 €
*screw pattern, screw dimensions vary with respective load cases.				
K244	 <p>MEGANT® 550/60/40 (<math>F_{2,Rk}</math> 177,7 kN*)                      1 set contains:                      2 pcs. base plates 490/60/20, 1 pc. clamping jaw 60/50/40,                      1 pc. clamping jaw 60/50/40/M20, 1 pc. threaded rod M20/580, 1 pc. nut                      M20, 1 pc. washer M20                      Required screws:                      35 pcs. RICON® S CS-screws 60 8x160 mm (Art. No. Z581)                      5 pcs. RICON® S CS-screws 8x240 mm (Art. No. Z530)</p>	1	Set	237,00 €
*screw pattern, screw dimensions vary with respective load cases.				
K239	 <p>MEGANT® 310/100/40 (<math>F_{2,Rk}</math> 124,0 kN*)                      1 set contains:                      2 pcs. base plates 250/100/20, 1 pc. clamping jaw 100/50/40,                      1 pc. clamping jaw 100/50/40/M16, 2 pcs. threaded rod M16/340, 2 pcs.                      nut M16, 2 pcs. washer M16                      Required screws:                      28 pcs. RICON® S CS-screws 60 8x160 mm (Art. No. Z581)                      6 pcs. RICON® S CS-screws 8x240 mm (Art. No. Z530)</p>	1	Set	236,00 €
*screw pattern, screw dimensions vary with respective load cases.				
K240	 <p>MEGANT® 430/100/40 (<math>F_{2,Rk}</math> 207,0 kN*)                      1 set contains:                      2 pcs. base plates 370/100/20, 1 pc. clamping jaw 100/50/40,                      1 pc. clamping jaw 100/50/40/M16, 2 pcs. threaded rod M16/460, 2 pcs.                      nut M16, 2 pcs. washer M16                      Required screws:                      40 pcs. RICON® S CS-screws 60 8x160 mm (Art. No. Z581)                      6 pcs. RICON® S CS-screws 8x240 mm (Art. No. Z530)</p>	1	Set	270,00 €
*screw pattern, screw dimensions vary with respective load cases.				
K241	 <p>MEGANT® 550/100/40 (<math>F_{2,Rk}</math> 235,2 kN*)                      1 set contains:                      2 pcs. base plates 490/100/20, 1 pc. clamping jaw 100/50/40, 1 pc. clam-                      ping jaw 100/50/40/M16,                      2 pcs. threaded rod M16/580,                      2 pcs. nut M16, 2 pcs. washer M16                      Required screws:                      52 pcs. RICON® S CS-screws 60 8x160 mm (Art. No. Z581) 6 pcs. RICON® S                      CS-screws 8x240 mm (Art. No. Z530)</p>	1	Set	305,00 €
*screw pattern, screw dimensions vary with respective load cases.				
K197	 <p>MEGANT® 310/150/50 (<math>F_{2,Rk}</math> 156,0 kN*)                      1 set contains:                      2 pcs. base plates 250/150/25,                      1 pc. clamping jaw 150/50/50, 1 pc. clamping jaw 150/50/50/M20, 1 pc.                      threaded rod M20/340, 1 pc. nut M20, 1 pc. washer M20                      Required screws:                      36 pcs. RICON® S CS-screws 60 8x160 mm (Art. No. Z581)                      12 pcs. RICON® S CS-screws 8x240 mm (Art. No. Z530)</p>	1	Set	297,00 €
*screw pattern, screw dimensions vary with respective load cases.				




Art. No.	Description	Qty.	Unit	List Price
K220	 <p>MEGANT® 430/150/50 (<math>F_{2,Rk}</math> 260,0 kN*)            1 set contains:            2 pcs. base plates 370/150/25, 1 pc. clamping jaw 150/50/50,            1 pc. clamping jaw 150/50/50/M20,            2 pcs. threaded rods M20/460,            2 pcs. nuts M20, 2 pcs. washer M20            Required screws:            52 pcs. RICON® S CS-screws 60 8x160 mm (Art. No. Z581) 12 pcs. RICON® S            CS-screws 8x240 mm (Art. No. Z530)</p>	1	Set	384,00 €
*screw pattern, screw dimensions vary with respective load case.				
K221	 <p>MEGANT® 550/150/50 (<math>F_{2,Rk}</math> 364,0 kN*)            1 set contains:            2 pcs. base plates 490/150/25,            1 pc. clamping jaw 150/50/50, 1 pc. clamping jaw 150/50/50/M20, 3 pcs.            threaded rod M20/580,            3 pcs. nut M20, 3 pcs. washer M20            Required screws:            58 pcs. RICON® S CS-screws 60 8x160 mm (Art. No. Z581)            12 pcs. RICON® S CS-screws 8x240 mm (Art. No. Z530)</p>	1	Set	549,00 €
*screw pattern, screw dimensions vary with respective load case.				
K251	 <p>MEGANT® 730/150/50 (<math>F_{2,Rk}</math> 443,2 kN*)            1 set contains:            2 pcs. base plates 670/150/25, 1 pc. clamping jaw 150/50/50, 1 pc. clam-            ping jaw 150/50/50/M20,            3 pcs. threaded rod M20/760,            3 pcs. nut M20, 3 pcs. washer M20            Required screws:            92 pcs. RICON® S CS-screws 60 8x160 mm (Art. No. Z581) 12 pcs. RICON® S            CS-screws 8x240 mm (Art. No. Z530)</p>	1	Set	895,00 €
*screw pattern, screw dimensions vary with respective load case.				
K180	 <p>MEGANT® 1030/150/50 SL (<math>F_{2,Rk}</math> 604 kN*)            1 set contains:            2 pcs. base plates 670/150/25,            1 pc. heavy duty clamping jaw 150/200/50 1 pc. clamping jaw            150/200/50/M20,            3 pcs. threaded rod M20/920,            3 pcs. nut M20,            3 pcs. washer M20            Required screws:            111 pcs. RICON® S CS-screws 60 8x160 mm (Art. No. Z581) 12 pcs. RICON®            S CS-screws 8x240 mm (Art. No. Z530)</p> <p><b>Alternatively, longer screws can be used for end grain and face grain.</b>            (<math>F_{2,Rk} = 768</math> kN)</p> <p>15 pcs. RICON® S CS-screws 60 8x160 mm (Art. No. Z581)            108 pcs. RICON® S CS-screws 60 8x240 mm (Art. No. Z530)</p>	1	Set	1.312,00 €
<p>A combination check of the different force directions according to ETA-15/0667 (2019/07/22) shall be performed. Furthermore, the consideration of the clamping moments <math>M_{2,Rd}</math> as a result of the torsional spring stiffness <math>K_{2,\varphi}</math> must be calculated in the connection design. You will find the exact formulae in the ETA approval.</p>				
<p>** Characteristic value <math>F_{2,Rk}</math> in the insertion direction applies only with the use of original KNAPP® CS-screws and refers to GL24h according to EC5. The data refer to the use of KNAPP® CS-screws 8x160mm (page 52-53).</p>				

Upon request, MEGANT® connectors are also available in special sizes with increased load-bearing capacity.

## Timber Frame, Off-site and Prefabricated Construction


## WALCO® Z40 and Z32 – Wall Connector

ETA CE

Art. No.	Description	Qty.	Unit	List Price
K072	 WALCO® 40 ( $F_{2,Rk} = 11,4 \text{ kN}^*$ ) 1 set contains: 2 pcs. WALCO® 40, 4 pcs. CS-screws 10x60 mm	25	Set	<b>269,25 €</b> (10,77 € / set)
K168	  WALCO® Z32 ( $F_{2,Rk} = 8,2 \text{ kN}^*$ ) 1 set contains: 2 pcs. WALCO® Z32, 4 pcs. CS-screws 8x50 mm	25	Set	<b>251,50 €</b> (10,06 € / set)

\* Characteristic value  $F_{2,Rk}$  in the insertion direction applies only with the use of original KNAPP® CS-screws and refers to C24 according to EC5. The data refer to the use of 2 pcs. KNAPP® CS-screws 10x60mm (page 52-53).





## Accessories – WALCO® Z40

Art. No.	Description	Qty.	Unit	List Price
K466	 Drilling Jig WALCO® 40 (aluminum) 1 set contains: 1 pc. boring-jig with hardened bushes for Ø 6 mm drill, 1 pc. adjustable handle stop, 1 pc. stop rail, 1 pc. stop	1	Pc.	<b>165,00 €</b>

## Facades, Prefab Walls and Modular Construction

## WALCO® V60 – Wall Connector for Off-site and Prefab Structures





ETA CE

Art. No.	Description	Qty.	Unit	List Price
K102	 WALCO® V60 KS with screw with collar screw ( $F_{2,Rk} = 5,9 \text{ kN}^*$ ) 1 set contains: 1 pc. WALCO® V60, 3 pcs. WALCO® V60 hex-head wood screws 6x50 mm with self-tapping tip, 1 pc. WALCO® V60 collar bolt 12x60 mm with captive washer	25	Set	<b>219,50 €</b> (8,78 € / set)
K108	 WALCO® V60 VK with collar bolt ( $F_{2,Rk} = 4,9 \text{ kN}^*$ ) 1 set contains: 1 pc. WALCO® V60, 3 pcs. WALCO® V60 hex-head wood screws 6x50 mm with self-tapping tip, 1 pc. WALCO® V60 collar bolt, 1 pc. RICON® S60 CS-screw 8x80 mm with self-tapping tip	25	Set	<b>302,75 €</b> (12,11 € / set)
K104	 WALCO® V60 EH with retaining screw ( $F_{2,Rk} = 4,8 \text{ kN}^*$ ) 1 set contains: 1 pc. WALCO® V60, 3 pcs. WALCO® V60 hex-head wood screws 6x50 mm with self-tapping tip, 1 pc. WALCO® V60 rampa fittings, 1 pc. WALCO® V60 CS-screw M12, 1 pc. WALCO® V60 nut M12 flat	25	Set	<b>240,50 €</b> (9,62 € / set)
K106	 WALCO® V60 GH with spring retaining screw ( $F_{2,Rk} = 8,6 \text{ kN}^*$ ) 1 set contains: 1 pc. WALCO® V60, 3 pcs. WALCO® V60 hex-head wood screws 6x50 mm with self-tapping tip, 1 pc. WALCO® V60 spring bolt, 1 pc. WALCO® V60 CS-screw M12	25	Set	<b>495,50 €</b> (19,82 € / set)

\* Characteristic values  $F_{2,Rk}$  in insertion direction only apply when using original KNAPP® CS-screws in accordance with ETA-10/0189 (201910/11) and refers to C24 according to EC5.



## WALCO® V80 – Wall Connector for Off-site and Prefab Structures

ETA CE

Art. No.	Description	Qty.	Unit	List Price
K103	 <p>WALCO® V80 KS with screw with collar screw (<math>F_{2,Rk} = 7,1 \text{ kN}^*</math>) 1 set contains: 1 pc. WALCO® V80, 3 pcs. WALCO® V80 hex-head wood screws 10x60 mm with self-tapping tip, 1 pc. WALCO® V80 collar bolt 16x60 mm with captive washer</p>	25	Set	<b>245,25 €</b> (9,81 € / set)
K109	 <p>WALCO® V80 VK with collar bolt (<math>F_{2,Rk} = 6,2 \text{ kN}^*</math>) 1 set contains: 1 pc. WALCO® V80, 3 pcs. WALCO® V80 hex-head wood screws 10x60 mm with self-tapping tip, 1 pc. WALCO® V80 collar screw, 1 pc. RICON® S80 CS-screws 10x100 mm with self-tapping tip</p>	25	Set	<b>347,50 €</b> (13,90 € / set)
K105	 <p>WALCO® V80 EH with retaining screw (<math>F_{2,Rk} = 6,5 \text{ kN}^*</math>) 1 set contains: 1 pc. WALCO® V80, 3 pcs. WALCO® V80 hex-head wood screws 10x60 mm, 1 pc. WALCO® V80 rampa fittings, 1 pc. WALCO® V 80 CS-screw M16, 1 pc. WALCO® V80 nut M16 flat</p>	25	Set	<b>395,25 €</b> (15,81 € / set)
K107	 <p>WALCO® V80 GH with spring retaining screw (<math>F_{2,Rk} = 16,0 \text{ kN}^*</math>) 1 set contains: 1 pc. WALCO® V80, 3 pcs. WALCO® V80 hex-head wood screws 10x60 mm with self-tapping tip, 1 pc. WALCO® V80 spring bolt, 1 pc. WALCO® V 80 CS-screw M16</p>	25	Set	<b>584,50 €</b> (23,38 € / set)

## WALCO® V slotted hole Wall Connector for Off-site and Prefab Structures

ETA CE








Art. No.	Description	Qty.	Unit	List Price
K115	 <p>WALCO® V slotted hole KS with collar screw 1 set contains: 1 pc. WALCO® V80 Oblong hole, 2 pc. WALCO® V80 hex-head wood screws 10x60 mm with self-tapping tip, 1 pc. WALCO® V80 collar screw 16x60 mm with captive washer</p>	25	Set	<b>267,25 €</b> (10,69 € / set)
K116	 <p>WALCO® V slotted hole VK with screwed collar bolt 1 set contains: 1 pc. WALCO® V80 Oblong hole, 2 pcs. WALCO® V80 hex-head wood screws 10x60 mm with self-tapping tip, 1 pc. WALCO® V80 collar screw, 1 pc. RICON® S80 CS-screws 10x100 mm with self-tapping tip</p>	25	Set	<b>369,50 €</b> (14,78 € / set)

\* Characteristic values  $F_{2,Rk}$  in the direction of insertion apply only with the use of original KNAPP® CS-screws according to ETA-10/0189 (2019/10/11) and refers to C24 according to EC5. KS = collar screw, EH = adjustable holding screw, VK = screwed collar bolt, GH = spring-loaded retaining screw

## Facades, Prefab Walls and Modular Construction








## WALCO® 60 – Connector for Off-site, Prefab and Modular Structures

ETA CE





Art. No.	Description	Qty.	Unit	List Price
K701/Set	WALCO® 60 VS With welded collar bolts ( $F_{2,Rk} = 5,1 \text{ kN}^*$ ) Contains: 1 pc. WALCO® 60 VS bracket, 4 pcs. WALCO® V60 Self-tapping hex-head wood screws 6x50 mm.  Note: For complete set, add 1 pc. WALCO V60 bracket (K100/Set) as counterpart.	25	Set	<b>436,75 €</b> (17,47 € / set)
				
K700/B	WALCO® 60 ( $\varnothing = 12 \text{ mm}$ hole)	25	Pc.	<b>155,00 €</b> (6,20 € / pc.)
				
K700/Set	WALCO® 60 VK with screwed-on collar bolts ( $F_{2,Rk} = 5,1 \text{ kN}^*$ ) Contains: 1 pc. WALCO® 60 VK bracket, 4 pcs. WALCO® V60 self-tapping hex-head wood screws 6x50 mm, 1 pc. RICON® S D12 collar bolts, 1 pc. RICON® S60 Self-tapping CS-screw 8x80 Note: For complete set, add 1 pc. WALCO V60 bracket (K100/Set) as counterpart.	25	Set	<b>234,00 €</b> (9,36 € / set)
				
K702/V	WALCO® 60 M12 welded	25	Pc.	<b>346,25 €</b> (13,85 € / pc.)
				
K702/B	WALCO® 60 M12 pressed in	25	Pc.	<b>296,25 €</b> (11,85 € / pc.)
				
K702/Set	WALCO® 60 M12 with adjustable screw ( $F_{2,Rk} = 1,5 - 5,1 \text{ kN}^*$ ) Contains: 1 pc. WALCO® 60 M12 bracket, welded 4 pcs. WALCO® V60 self-tapping hex-head wood screws 6x50 mm, 2 pcs. WALCO® V60 hex nut M12 , 1 pc. WALCO® V60 CS-screw M12x50 mm ** Note: For complete set, add 1 pc. WALCO V60 bracket (K100/Set) as counterpart.	25	Set	<b>372,50 €</b> (14,90 € / set)
				
K100/Set	WALCO® V60 ( $F_{2,Rk} = 5,1 \text{ kN}^*$ ) Contains: 1 pc. WALCO® V60, 4 pcs. WALCO® V60 self-tapping hex-head wood screws 6x50 mm	25	Set	<b>174,25 €</b> (6,97 € / set)
				

## WALCO® 80 – Facades, Prefab Walls and Modular Construction

ETA CE

Art. No.	Description	Qty.	Unit	List Price
K711/Set	 <p>WALCO® V80 VS With welded collar bolts (<math>F_{2,Rk} = 7,9 \text{ kN}^*</math>) Contains: 1 pc. WALCO® 80 VS bracket, 4 pcs. WALCO® V60 self-tapping hex-head wood screws 6x50 mm.</p> <p>Note: For complete set, add 1 pc. WALCO V80 bracket (K101/Set) as counterpart.</p>	25	Set	<b>496,75 €</b> (19,87 €/set)
K710/B	 <p>WALCO® 80 (<math>\varnothing = 16 \text{ mm}</math> hole)</p>	25	Pc.	<b>162,50 €</b> (6,50 €/pc.)
K710/Set	 <p>WALCO® 80 VK with screwed-on collar bolts (<math>F_{2,Rk} = 5,1 \text{ kN}^*</math>) Contains: 1 pc. WALCO® 80 VK bracket, 4 pcs. WALCO® V80 self-tapping hex-head wood screws 6x50 mm 1 pc. RICON® S D16 collar bolts, 1 pc. RICON® S80 self-tapping CS-screw 10x100 Note: For complete set, add 1 pc. WALCO V80 bracket (K101/Set) as counterpart.</p>	25	Set	<b>292,75 €</b> (11,71 €/set)
K712/V	 <p>WALCO® 80 M16 welded</p>	25	Pc.	<b>387,50 €</b> (15,50 €/pc.)
K712/B	 <p>WALCO® 80 M16 pressed in</p>	25	Pc.	<b>362,50 €</b> (14,50 €/pc.)
K712/Set	 <p>WALCO® 80 M16 with adjustable screw (<math>F_{2,Rk} = 2,8 - 7,9 \text{ kN}^*</math>) Contains: 1 pc. WALCO® 80 M16 bracket, welded 4 pcs. WALCO® V80 self-tapping hex-head wood screws 6x50 mm, 2 pcs. WALCO® V80 hex nut M12, 1 pc. WALCO® V80 CS-screw M16x50 mm** Note: For complete set, add 1 pc. WALCO V80 bracket (K101/Set) as counterpart.</p>	25	Set	<b>442,00 €</b> (17,68 €/set)
K101/Set	 <p>WALCO® V80 (<math>F_{2,Rk} = 7,6 \text{ kN}^*</math>) Contains: 1 pc. WALCO® V80 bracket, 4 pcs. WALCO® V80 self-tapping hex-head wood screws 10x60 mm</p>	25	Set	<b>194,25 €</b> (7,77 €/set)

\*Characteristic values  $F_{2,Rk}$  in insertion direction apply to soft wood C24. Calculation according to ETA-10/0189. \*\* other lengths upon request..

Accessories – WALCO® V				
Art. No.	Description	Qty.	Unit	List Price
K578	Marking template WALCO® V 60 (stainless steel)	1	Pc.	2,00 €
				
K579	Marking template WALCO® V80 (stainless steel)	1	Pc.	2,50 €
				
K112	WALCO® V60 locking clip (stainless spring steel)	1	Pc.	12,50 €
				
K113	WALCO® V80 locking clip (stainless spring steel)	1	Pc.	13,50 €
				

### Pre-Dimensioning tool for RICON® connector systems

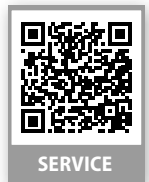


KNAPP® provides a pre-assessment tool for a quick calculation of the the main / secondary beam connectors RICON®, RICON® Stainless Steel-System EA and RICON® S, post and beam, header and rafter joints. The tool is helpful for the planner and structural engineer, as it offers a calculation basis for the static calculation of the projects

The service is free for KNAPP® customers and can be easily downloaded from the website after a one-time agreement to the terms and conditions.

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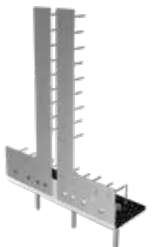
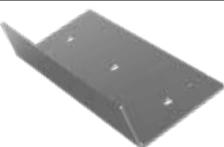
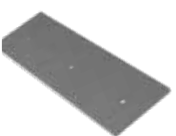



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## WALCO® WALCO® L and and T Wall-floor-anchor






Art. No.	Description	Qty.	Unit	List Price
K495/EA	 WALCO® L 1 set contains: 1 pc. WALCO L steel plate 525/200/3 mm Art. No. K495 1 pc. Floor angle 200/4 mm Art. No. K497 1 pc. Pressure plate 200/10 mm Art. No. K499 16 pcs. Anchor nails 4x75 Art. No. Z850 4 pcs. Hexagon head screw M8x25 with confederation SW13,FK10.9 Art. No. Z648  additionally required: concrete screw 12x130 Art. No. Z852 upon request	1	Set	70,08 €
K497	 Floor connection floor angle 200/4 mm hot-dip galvanised	1	Pc.	19,20 €
K499	 Pressure plate 200/10 mm galvanised	1	Pc.	18,10 €
K495/DA	 WALCO® T 1 set contains: 2 pc. WALCO L steel plate 3 mm Art. No. K495 1 pc. Floor angle 200/4 mm Art. No. K497 1 pc. Pressure plate 200/10 mm Art. No. K499 30 pcs. Anchor nails 4x75 Art. No. Z850 8 pcs. Hexagon head screw M8x25 with confederation SW13,FK10.9 Art. No. Z648  additionally required: concrete screw 12x130 Art. No. Z852 upon request	1	Set	137,80 €
* kN-values determined from internal tests				
K496	 Floor connection floor angle 420x4 mm hot-dip galvanised	1	Pc.	36,80 €
K498	 Floor connection pressure plate 420x10 mm galvanised	1	Pc.	35,90 €
K495	 WALCO® L Floor connection steel plate 525x200x3 mm hot-dip galvanised	1	Pc.	25,90 €

## Accessories






Art. No.	Description	Qty.	Unit	List Price
Z850	 Anchor nail 4,0x75 mm	1	Pc.	0,23 €
Z648	 Hexagon head screw M8x25 with confederation SW13,FK10.9	1	Pc.	0,80 €
Z852	 concrete screw 12x130 mm (only upon request)	1	Pc.	4,90 €









**WALCO® BOLT – Wandverbinder für den Holzrahmenbau und Hausbau**

Art. No.	Description	Qty.	Unit	List Price
K900	 <p><b>NEW</b></p> WALCO® BOLT A130 1 St. Bolzen für Einschraubmuffe mit zwei Querbohrungen Art.-Nr. K909 1 St. Spannbolzen M12x120 Art.-Nr. K908 1 St. Federring M16/26 DIN 128A, mech. verzinkt Art.-Nr. Z895 1 St. WALCO 80 M16 Gewinde verschweißt hochtemperaturverzinkt Art.-Nr. K712/V 8 St. Sechskantschraube WALCO V 10x60 Art.-Nr. Z551 1 St. WALCO 80 Art.-Nr. K712	1	Set	41,40€
K902	 <p><b>NEW</b></p> WALCO® BOLT B130 1 St. Bolzen mit M16 Gewinde D20x130 Art.-Nr. K909 1 St. Spannbolzen M12x120 K908 1 St. Federring M16/26 DIN 128A, mech. verzinkt Z895 1 St. Einschraubmutter V80 M16 Z561 4 St. Sechskantschraube WALCO V 10x60 Z551 1 St. WALCO 80 M16 Gewinde verschweißt hochtemperaturverzinkt Art.-Nr.K712/V	1	Set	41,29€
K901	 <p><b>NEW</b></p> WALCO® BOLT C130 1 St. Bolzen für Einschraubmuffe mit zwei Querbohrungen Art.-Nr. K909 1 St. Spannbolzen M12x120 Art.-Nr. K908 1 St. Federring M16/26 DIN 128A, mech. verzinkt Art.-Nr. Z895 1 St. Einschraubmutter V80 M16 Art.-Nr. Z561	1	Set	24,71€
K908	 <p><b>NEW</b></p> Spannbolzen M12x120	1	Pc.	7,29 €
K909	 <p><b>NEW</b></p> Bolzen mit zwei Querbohrungen vom Set BOLT	1	Pc.	9,57 €

**WALCO® PIPE – Wandverbinder für den Holzrahmenbau und Hausbau**

Art. No.	Description	Qty.	Unit	List Price
K903	 <p><b>NEW</b></p> WALCO® PIPE A300 mit einstellbarer Halteschraube ( $F_{z,Rk} = 6,5 \text{ kN}^*$ ) 1 St. Rohr 300 M28 Art.-Nr. K905 1 St. Bolzen mit Gewinde D18x180 Art.-Nr. K906	1	Set	41,57 €
K904	 <p><b>NEW</b></p> WALCO® PIPE SPANN 1 St. Rohr 300 M28 Art.-Nr. K905 1 St. Bolzen ohne Gewinde D18x180 Art.-Nr. K907	1	Set	39,89 €
K905	 <p><b>NEW</b></p> Rohr 300 M28x300	1	Pc.	28,39 €
K906	 <p><b>NEW</b></p> Spannbolzen mit M20 Gewinde D18x180	1	Pc.	13,18 €
K907	 <p><b>NEW</b></p> Spannbolzen ohne Gewinde D18x180	1	Pc.	11,50 €

## Accessories

Art. No.	Description	Qty.	Unit	List Price
K487	 Insertion bolt	1	Pc.	Preis auf Anfrage
K488	 Shackle	1	Pc.	Preis auf Anfrage
Z551	 Sechskantschraube 10x60 mit Bohrspitze	1	Pc.	0,27 €
Z895	 Federring M16/26	1	Pc.	0,38 €
Z561	 Einschraubmutter V80 M16	1	Pc.	7,47 €
Z561/100	 Einschraubmutter V80 M16 25x100mm	1	Pc.	11,38 €

## Instruction Manual, CAD drawings and safety data sheets

Please follow the instructions given in the instruction manuals for the individual connection systems and safety data sheets of the individual connection systems!

All Instruction Manuals can be found on our website at:  
[www.knapp-connectors.com/downloads/product-downloads/](http://www.knapp-connectors.com/downloads/product-downloads/)



## Important information

### Note:

Errors, misprints and changes (including technical and price) are reserved. Pictures are symbolic photos. The ratios of the illustrations are not binding. This price list is valid from 01.01.2019. These prices listed in the price list apply until a new price list is available for download on our website. This price list is based on our general terms and conditions.

### Definitions:

Unit = Packing unit, CS or CS-screws = countersunk head screws, PH or PH-screws = Pan-head screws

MULTI F 40: MULTI F = MULTI means that it can be positioned in multiple ways:

- for positioning of the connectors,,
- to insert the marking template; F = drilling template, 40 = For all MULTI F jig, the number indicates the width of the cutout. For example, a MULTI F 46 is required for the DUO 90/46 connector.

### Export customers:

No sales tax is charged when delivered to customers with UID numbers in EU countries and in countries outside the EU with proof of export.

## PLANNER SERVICE

We offer a comprehensive planning and calculation services designed specifically for planners, engineers and architects. You can choose between three options: an interactive table of load values, a dimensioning tool, or our personal planner service.

### Static planning for all requirements



- DC-Static planning software
- Online static tool
- Interactive table of load values
- Personal planner service

On our website you will find all information under Planner Service. The close cooperation during the planning phase guarantees an efficient realization of your projects.

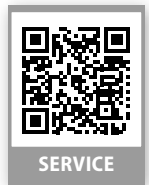
[www.knapp-connectors.com/en/service/planner-service/](http://www.knapp-connectors.com/en/service/planner-service/)



PLANNER SERVICE

## SOFTWARE PARTNER

Recommended software partners for the interface to machine joining:



SERVICE

### Statik

New available is our KNAPP DC-Static planning software. The Knapp DC Static tool is available for the following connecting systems MEGANT®, GIGANT, RICON®, RICON® S and RICON® stainless steel. It allows you to easily create auditable documents and to plan all your projects safely! You can download the program free of charge.

### SEMA

The master data of the KNAPP® connectors can be easily accessed in the SEMA DataStore via DataStore button. These are available in the languages German, English and French.



2D and 3D structural elements and their joints are calculated with the engineering software from DLUBAL. The joints can be dimensioned with the KNAPP® connectors RICON®, GIGANT®, RICON®S and MEGANT®. DLUBAL makes the KNAPP® connectors available as an additional tool. The KNAPP® connectors RICON®, GIGANT®, RICON®S and MEGANT® have been implemented in Wallner Mild's software and can be dimensioned with it.



More information at: [www.knapp-verbinder.com/en/service/planner-service/](http://www.knapp-verbinder.com/en/service/planner-service/)

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WEBSEITE TISCHLER

## Screws, Nuts

## Countersunk Screws

Art. No.	Description	pc. / Set.	Unit	List Price
Z502	CS-screw 3,5x16 mm (for DUO 30)	1.000	1	10,00 €
Z420	CS-screw 3,5x25 mm, stainless steel (for FIXclip GLE20 plus and KOMBI Hook-in bracket)	1.000	1	40,00 €
Z422	CS-screwe 4x16mm TX20 (for Contra)	250	1	25,00 €
Z423	CS-screw 4x40mm TX20 (for Contra)	250	1	37,50 €
Z514	CS-screw, stainless steel A2 5x25 mm (for QUATRO 65, UNO 30 and RICON® stainless steel) with self-tapping tip	500	1	55,00 €
Z515	CS-screw, stainless steel screws A2 5x30 mm (for QUATRO 65, UNO 30 and RICON® stainless steel) with self-tapping tip	500	1	55,00 €
Z409	CS-screw, stainless steel A2 4,5x35 mm (for Z-Deck and KOMBI Hook-in bracket) with self-tapping tip	500		40,00 €
Z510	EURO-screw 6,3x10 mm (for DUO 35)	1000	1	70,00 €
Z518	EURO-screw 6,3x30 mm (for Contra)	1000	1	100,00 €
Z500	CS-screw 5x40 mm (for DUO and ACRO)	500	1	15,00 €
Z498	CS-screw 5x60 mm (for DUO, ACRO and BASIS)	250	1	12,50 €
Z501	CS-screw 6x40 mm (for DUO and ACRO)	250	1	12,50 €
Z499	CS-screw 6x60 mm (for DUO, ACRO and BASIS)	200	1	14,00 €
Z494	CS-screw 6x100 mm (for T-Joint)	100	1	16,00 €
Z495	CS-screw 6x120 mm (for T-Joint)	100	1	18,00 €
Z545	CS-screw RICON® M5x20 mm	1	1	0,09 €
Z547	CS-screw RICON® M5x25 mm	1	1	0,08 €
Z533	CS-screw 5x50 mm (for RICON® and UNO 30) with modified shank to endure optimal function and fixing	200	1	16,00 €
Z534	CS-screw RICON® 5x80 mm with modified shank to endure optimal function and fixing	200	1	20,00 €
Z546	CS-screw RICON® M8x20 mm	1	1	0,14 €
Z548	CS-screw RICON® M8x25 mm	1	1	0,10 €
Z531	CS-screw RICON® 8x40 mm with modified shank to endure optimal function and fixing	50	1	10,00 €
Z532	CS-screw RICON® 8x50 mm with modified shank to endure optimal function and fixing	50	1	13,50 €
Z950	CS-screw RICON® 8x80 mm with modified shank to endure optimal function and fixing	200	1	42,00 €
Z951	CS-screw A2 RICON® stainless steel 5x50 mm (für RICON Edelstahl)	200	1	44,00 €
Z952	CS-screw A2 RICON® stainless steel 5x60 mm	200	1	48,00 €
Z953	CS-screw A2 RICON® stainless steel 5x80 mm	50	1	17,50 €
Z954	CS-screw A2 RICON® stainless steel 8x50 mm	50	1	25,50 €
Z955	CS-screw A2 RICON® stainless steel 8x80 mm	1	1	0,15 €
Z956	CS-screw A2 RICON® stainless steel M5x16 mm	1	1	0,23 €
Z523	CS-screw A2 RICON® stainless steel M8x18 mm	50	1	14,50 €
Z524	CS-screw GIGANT® 10x80 mm with modified shank to endure optimal function and fixing	50	1	20,00 €
Z528	CS-screw GIGANT® 10x120 mm with modified shank to endure optimal function and fixing	50	1	59,00 €

Z526	CS-screw GIGANT® 10x200 mm with modified shank to endure optimal function and fixing	50	1	25,00 €
Z527	CS-screw GIGANT® 10x120 mm hot-dipped with modified shank to endure optimal function and fixing	50	1	28,50 €
Z580	CS-screw RICON® S 60 8x80 mm, self-tapping (for RICON® S and MEGANT®)	50	1	30,00 €
Z581	CS-screw RICON® S 60 8x160 mm, self-tapping (for RICON® S and MEGANT®)	50	1	40,50 €
Z530	CS-screw RICON® S 80 10x100 mm, self-tapping	50	1	52,00 €
Z582	CS-screw RICON® S 80 10x200 mm, self-tapping	50	1	52,00 €
Z583	CS-screw RICON® S 60 8x240 mm with self-tapping tip (for RICON® S and MEGANT®)	50	1	85,00 €
Z651	CS-screw RICON® S 80 10x300 mm with self-tapping tip	50	1	104,00 €
Z672	CS-screw 8x240 mm, full threaded countersunk screw with self-tapping tip	50	1	104,00 €
Z519	CS-screw WALCO® 40 10x60 mm with modified shank to endure optimal function and fixing	50	1	14,00 €

### Pan-head Screws

Art. No.	Description	pc. / Set.	Unit	List Price
Z600	PH-screw 3x13 mm (for METAL and sCLICK)	500	1	15,00 €
Z601	PH-screw 3x25 mm (for METAL)	500	1	20,00 €
Z631	PH-screw stainless steel A2 3x13 mm (for UNO 30)	500	1	15,00 €
Z632	PH-screw stainless steel A2 3x25 mm	500	1	20,00 €
Z702	PH-screw 5x40 mm (for DUO and MODULAR Anti-Torsion)	200	1	10,00 €
Z704	PH-screw 5x60 mm (for DUO and MODULAR Anti-Torsion)	200	1	14,00 €
Z800	PH-screw 6x40 mm (for DUO)	250	1	17,50 €
Z802	PH-screw 6x60 mm (for DUO)	200	1	18,00 €
Z521	PH-screw 10x80 mm (for RICON® S80 and WALCO® V80), with reinforced shank for optimal fixing	50	1 (for screwing the intermediate layer)	16,00 €
Z522	PH-screw 10x120 mm (for RICON® S80 and WALCO® V80), with reinforced shank for optimal fixing	50	1 (for screwing the intermediate layer)	19,50 €

### Hex-head Wood Screws

Art. No.	Description	pc. / Set.	Unit	List Price
Z640	Hex-head wood screw WALCO® V60 6x40 mm with self-tapping tip	75	1	9,00 €
Z648	Hexagon head screw M8x25 with confederation SW13,FK10.9	1	1	0,75 €
Z550	Hex-head wood screw WALCO® V60 6x50 mm with self-tapping tip	75	1	9,00 €
Z551	Hex-head wood screw WALCO® V80 10x60 mm with self-tapping tip	75	1	20,25 €

### Inserts, Connecting Nuts

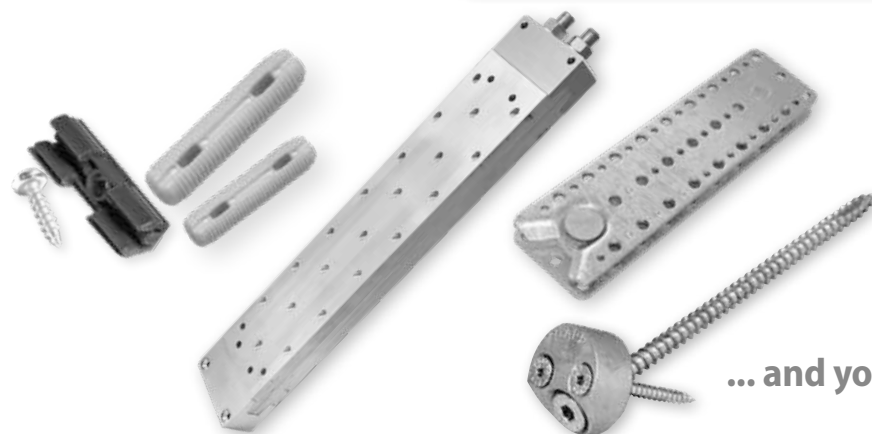
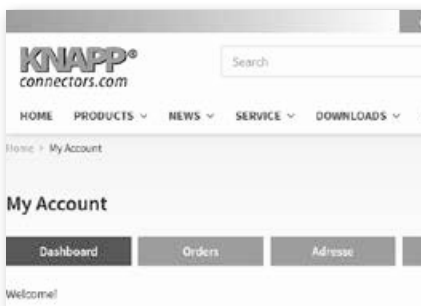
Art. No.	Description	pc. / Set.	Unit	List Price
Z540	Rampa fitting RICON® M5x14 mm	1	1	0,45 €
Z541	Rampa fitting RICON® M8x18 mm	1	1	0,78 €
K540	Connecting nut M5 8x48 mm	1	1	1,85 €
K541	Connecting nut M5 8x53 mm	1	1	1,85 €
K542	Connecting nut M5 8x58 mm	1	1	1,85 €
K543	Connecting nut M5 8x78 mm	1	1	2,05 €
K544	Connecting nut M8 10x36 mm	1	1	1,85 €
K545	Connecting nut M8 10x48 mm	1	1	1,85 €
K546	Connecting nut M8 10x53 mm	1	1	1,85 €
K547	Connecting nut M8 10x58 mm	1	1	1,85 €
K548	Connecting nut M8 10x68 mm	1	1	2,05 €
K549	Connecting nut M8 10x78 mm	1	1	2,05 €

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We deliver within 4 or 5 days.

We are here for you!



Telephone



Videocall



E-Mail



on site

### Payment methods:

#### Pre-payment / PayPal

The goods will be shipped as soon as the invoice amount is credited on the account of Knapp GmbH..

#### New customers

Payment terms for new customers are pre-payment.

#### Direct debit

The invoice amount minus 2% discount will be deducted from my checking account within 8 working days from the invoice date.

In order to be able to make a direct debit, we need a completed and signed „SEPA direct debit mandate“ from you.

You will receive this in advance by e-mail with the order confirmation.

IMPORTANT, for payment method „Recurring Payment“ tick, so that the form is also valid for follow-up orders.

**The Direct Debit mandate form is available for download on our website**

#### Invoice

Payable within 14 days with no rebate.

#### Please note!

##### Minimum quantities

If your order falls below a minimum quantity (i.e. smallest packaging unit), a low quantity-surcharge of 9,90 € will be applied. Shipping charges are covered by the customer via pre-payment or direct debit with no discount.

# General Terms and Conditions („GTC“) of KNAPP GmbH for legal relationships with Companies according to the Consumer Protection Act

## 1. General

All our declarations of intent and legal transactions and acts (in particular, supplies and services) have these general terms of business as their basis. Terms in offers, orders, or the general terms of business of the purchaser, which are not identical to those indicated in the general terms of business, are invalid even if we do not contradict them. If a provision in these general terms of business is or becomes invalid, this does not affect the validity of the remaining provisions. Any changes made must be in writing (for which purpose fax suffices), including waiving of this requirement of written form. These terms and conditions do not apply to consumers as defined by the Austrian Consumer Protection Act.

## 2. Conclusion of the contract and cancellation of the contract

Our offers are provisional and without a guarantee. The terms and conditions of the contract come into full effect only after a written order confirmation. This sets out the content of the contract – in particular, regarding scope and price – at the latest, however, when we have initiated the service or supply. If the order confirmation differs from the purchaser's order, it is deemed accepted if the purchaser does not raise a written objection to it in writing within 3 days of service. Cancellation of a contract by a purchaser is permissible only in writing and furthermore requires our written consent. In this instance, the purchaser must pay a cancellation fee of 30% of the gross sale price. In addition, we must be remunerated for the (advance) services already provided for the purposes of contractual fulfilment, although we may fix a flat rate fee, if we wish, without furnishing evidence, of a sum of 15% of the gross sale price. If there are material grounds, we may cancel the contract, i.e. in particular if (a) the purchaser remains in arrears with payment despite the setting of at least a 14-day rectification period, (b) the purchaser's financial situation deteriorates or threatens to deteriorate materially, or (c) important grounds exist in accordance with Point 3 of these general terms of business. If a petition for the initiation of insolvency proceedings is filed with a court concerning the assets of the purchaser, insolvency proceedings concerning the assets of the purchaser are initiated, or a petition for the initiation of insolvency proceedings is rejected because there are not enough assets to cover the costs, any payment obligation towards us falls due, in deviation from any agreed prepayment obligation, in parallel with full payment on the part of the purchaser.

## 3. Supply

All supplies are made unfranked ex warehouse. As soon as the goods leave our warehouse or are available for collection by the purchaser in accordance with the agreement, the goods are deemed transferred, and the risk of any destruction or accidental damage passes to the purchaser. Supply deadlines and supply periods are binding, if we have committed expressly to compliance therewith; as long as the purchaser has not made the advance payments necessary for contractual fulfilment or has not made a downpayment due, the anticipated delivery deadline is extended by this period. If, however, the thus revised delivery deadline falls more than 4 weeks away, the purchaser may cancellation cancel the contract on written establishment of a reasonable rectification period which will, however, be at least three weeks, unless material grounds exist within the meaning of the following. We may, on materials grounds (which have not been generated by us deliberately or with gross negligence), cancel the contract in full or in part or delay delivery for the period of the obstacle to the provision of our service. Material grounds include in particular strikes, operational downtime (in particular specifically of a technical nature or due to staff absence due to illness, etc.), delay in upstream supply or loss of an upstream supplier (in particular due to insolvency, etc.), plus force majeure of any nature.

## 4. Prices

Our prices (in particular specifically the price lists available on the Internet to download) are provisional and are net, excluding additional costs of any type (e.g. in relation to packaging, transportation, or dispatch). Any transport insurance must be arranged by the purchaser. When a quantity is ordered below the minimum threshold (i.e. below the smallest packaging unit in accordance with the valid price list), a minimum quantity flat rate is charged in accordance with our price list prevailing at the time. If the total costs or expenses change by more than 5% between the time of conclusion of the contract and provision of the service (e.g. if payroll costs, procurement costs for the materials used, energy costs, etc., change), prices will fall/rise accordingly, unless a period of less than 2 months has elapsed between the making of the offer and the provision of the service. This applies regardless of whether the change in costs has arisen out of primary legislation, secondary legislation, collective bargaining agreement, by-law, measures taken by the authorities of whatsoever nature, or changes in market prices.

## 5. Payment terms; dunning and collection costs

Payment of our invoices must be made within 14 days with no discount. We deliver against invoice, but we can also deliver against direct debit or prepayment. We are therefore entitled at any time and without giving reasons, to demand partial or full prepayment to the buyer. We could accept payment by SEPA direct debit, after notification of name, address, IBAN and BIC of the bank in order to receive a direct debit authorization mandate. The collection takes place and the sum will be debited within 8 working days from the invoice date. In the event of a successful (final) direct debit within this period, we grant a 2% discount, except in the case of quantities below the minimum threshold, which are charged without discount and plus the minimum quantity flat rate. The purchaser is not entitled to offset own claims against our payment claims, unless the buyer's claims are in legal connection with our payment claims, have been recognized by us or judicially determined. In the case of payment arrears on the part of the purchaser, we are entitled, at our discretion, to seek compensation for the interest actually incurred or default interest in amount of 10 percentage points above the base rate (subject to a minimum, however, of 10% p.a.). Furthermore, the purchaser, in the event of his falling into arrears, must reimburse us for the dunning and collection costs arising, provided that they have been incurred necessarily for the purposes of suitable legal proceedings, namely to the maximum of the remuneration charged by a collection agency engaged, which charges are set out in the Statutory Instrument of the Federal Minister of Economic Affairs concerning Maximum Rates of Remuneration due to Collection Agencies. Where we ourselves are conducting the dunning procedure, the purchaser undertakes, in respect of each dunning letter issued, to pay a sum of EUR 19. If partial invoices have been issued and the final invoice is not paid within the applicable discount period, any discount deductions made by the purchaser in the partial invoices will cease to apply and must be repaid to us.

## 6. Retention of title

All goods remain our property until full payment. In the event of onward disposal, the purchaser now assigns to us all his claims arising out of this onward disposal to the level of the sums still outstanding to us. The purchaser undertakes to inform the third-party purchaser of the assignment that has taken place and to make a memorandum entry to this effect in his accounting records. In the event of onward disposal in return for cash, the purchaser now transfers to us the sum to be received from the third-party purchaser to the level of the sums still outstanding to us. If the goods are processed, combined, or mixed with the materials of third parties, we acquire co-ownership of the products thus produced proportionate to their contribution to the creation of value. Debts arising out of the sale of these new products are now assigned by the purchaser to us, and the purchaser undertakes to provide to us the necessary information to enforce these debts.

## 7. Guarantee and damages; right of retention

7.1. The purchaser is responsible for all necessary drawings and calculations of a technical nature, in particular those that concern structural integrity. Any drawings, calculations, instructions for use, assembly instructions, or other advice of whatsoever nature provided by us constitute non-binding information or suggestions and are without guarantee or liability for accuracy; they never relieve the purchaser of the obligation himself to have such drawn up and/or checked by a specialist. Product changes that result in an improvement in the technical quality and/or functionality and differences between the appearance of the product and images in a catalogue are not defects; the same applies to minor technical/cosmetic changes. Such changes are reasonable for the purchaser to accept.

7.2. The purchaser may claim damages only if personal injury has occurred or we have acted deliberately or with gross negligence. Any claims for damages must be made through the courts within 12 months from awareness of the loss and who caused it, at the most, however, within 5 years from transfer of the goods, and the purchaser must furnish the evidence of our gross negligence or intent. Precluded in all cases are claims for damages in respect of consequential and/or pecuniary losses and losses arising out of the claims of third parties towards the purchaser.

7.3. The goods must be checked carefully by the purchaser immediately upon handover. Defects must, for any claim to be made, be notified in writing, immediately or, in the case of hidden defects, within 7 days after they could first have been identified, although notification of defects to representatives is not sufficient. The guarantee period is 6 months. We may, if we wish, rectify the reported defect through improvement or exchange of the goods or offer a price reduction in the form of a credit note. The assumption of defectiveness in accordance with § 924 Line 2 of the General and Special Terms of Business and right of recourse towards us on the part of the purchaser in accordance with § 933b of the General and Special Terms of Business are waived. All statutory rights of retention on the part of the purchaser are precluded.

## 8. Other

The place of fulfilment for all supplies and payments is 3324 Euratsfeld. The application of Austrian Law (excluding the case of conflict of laws provisions contained in international private law plus UN law of the sale of goods) is agreed upon. For all contractual disputes between KNAPP GmbH and the Buyer, the exclusive jurisdiction of the competent court of A-Amstetten is applied.



### Contact

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\*not available in Switzerland, Poland and America



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