

Connecting Systems

for Modern Door and Window Manufacturing

Connecting Your Ideas...



KNAPP®
connectors.com

Welcome to the World of KNAPP®!

As a manufacturer of patented connecting systems, we develop and produce high-quality products that are distributed worldwide. Not only do our connecting systems convince, they also inspire you with a wide range of applications. The comprehensive service offers the possibility to find the best, most efficient and innovative solution for the realization of your projects. On the following pages, you will find our connecting systems for modern door and window manufacturing.



Friedrich Knapp
CEO

Our Service


The KNAPP® Team provides competent advice and excellent service for your projects.

■ We offer a full-coverage service by representatives in Germany and Austria. You will find the right contact person easily and quickly.

 www.knapp-connectors.com

■ You can reach our internal consultants in Germany and Austria, Monday – Tuesday 8 a.m. to 4.30 p.m. and on Friday 8 a.m. to 12 p.m.

■ You can reach our global sales manager by calling +43 (0)664 / 88 51 52 87 or via E-Mail: info@knapp-connectors.com

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Content

FIXclip-Profile	3	DUO 30 mL and oL, hook connector	12
FIXclip-Profile GLE18, GLE20	4	DUO 35 mL and oL, hook connector	13
FIXclip-Profile GLE20 Plus	5	UNO 30 stainless steel, hook connector	14
FIXclip GLE20 Plus, Accessories	6-7	KNAPP®-Dowel	15
Universal Milling Cutter for FIXclip-Profile System	8	KLICK	16
FIXclip-System sample applications	9	sKLICK, sKLICKpro	17
FIXclip H12, H16, H20	10	miniKLICK	18
Test reports / certifications	11	References	19

KNAPP® offers the right connection for the areas of:

■ Mass Timber Construction ■ Wood Curtain Walls ■ Modular and Prefab Construction ■ Timber Frame Construction ■ Door and Window Manufacturing ■ Furniture and Architectural Millwork ■ Structural Glazing



 More information
www.knapp-connectors.com/downloads



FIXclip-Profile

The innovative glazing system

As the first and only mounting system of its kind, the FIXclip Profile makes it possible to combine the glazing and sealing process in one. Its innovative profile geometry saves time and reduces labor.

System advantages

The completely invisible mounted profile provides a perfect look due to a glazing bead finish. With this brand-new glazing method, problems such as a poor silicon finish or visible fixing parts no longer exist. GLE18, GLE20, and GLE20 Plus are well adapted systems for wood or wood/aluminum windows, no matter if the mounting process takes place in the facility or on the construction site.

Application

Universally applicable for all common window and door manufacturing, such as IV68/IV78 or fixed windows. As a stand-alone part, the FIXclip-Profile does not require a special outer sealing and can therefore be used in combination with a wet, dry or glued system method.

Fixing

It will either be fixed with CS-Screws 3x20 (pre-drilled profile) or with a nailing gun and 16 gauge x 1" finish nails (1.2 x 25mm).

Varieties

The FIXclip-Profile can be supplied in the following modifications: GLE18, GLE20, and GLE20 Plus. The standard color is black, but the profile can be supplied in other RAL colors. A minimum purchase quantity of 1.000 linear meters is required.

GLE18

Art.-No. K079



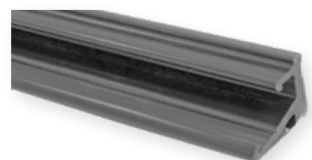
GLE20

Art.-No. K086



GLE20 Plus

Art.-No. K088/B



GLE20 Plus Wedge Gasket

Art.-No. Z089



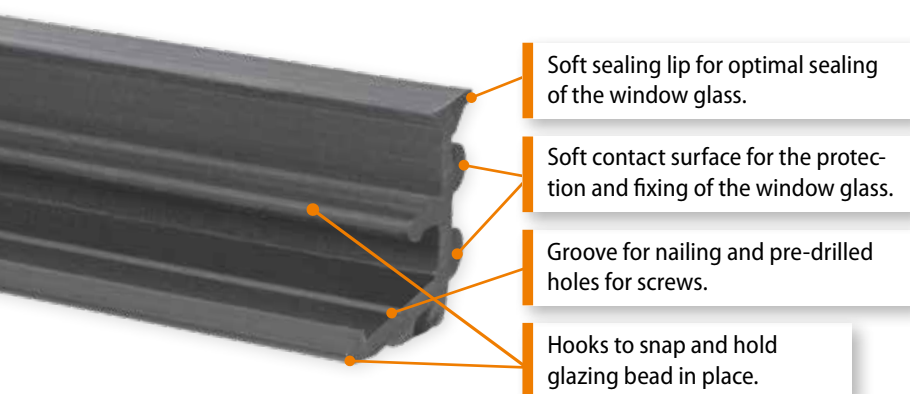


FIXclip-Profile GLE18 + GLE20

Art.-No. K079 + K086

System advantages:

- Glazing and sealing in one system
- Saves labor – Effective production process guaranteed (also on site)
- The perfect look – No visible fasteners
- Simple mounting – Just clip in the glass stop
- Safe – No damage to the window glass by „faulty nailing“
- Tested – Meets all of the highest standards of window manufacturing



Example: FIXclip-Profile GLE20 screwed.

Material characteristics: highly elastic, able to nail, UV and weather resistant, resistant against lacquer, clear finish, stain and cleaning agents.



Unsightly attaching of glazing bead with nails.

Mounting:	Using CS screws (3x20 mm) or 16 gauge x 1" finish nails (1.2 x 25 mm).
Processing:	Milling: the glazing bead by KNAPP® universal milling cutter, length cut, Fixing the profile and snap in glazing bead.
Application:	Wooden windows, wood-aluminum windows, wood-aluminum fixed glazing and doors.
Suitable sizes:	Profile length 6 linear meters. Pre-cutting is available upon request.
Accessories:	Universal milling head (Art.No. K656), Slat cutter (Art.No. Z088) and Mounting tool (Art.No. Z085).



New method with FIXclip Profile - NO VISIBLE nails and tight joint.

FIXclip-Profile GLE18 + GLE20

Installation



1) Cut to size glass bar and FIXclip-Profile



2) Pressing pane of glass against outer seal



3) Screwing or nailing the FIXclip-Profile



4) Clip on glazing bead.

FIXclip-Profile GLE20 Plus

Art.-No. K088/B



Example: Mounting wedge-shaped sealing



Press in wedge-shaped sealing



Clean finish

System advantages:

- | Glazing and sealing in one system
- | Saves labor – Effective production process guaranteed (also on site)
- | Perfect look – No visible fasteners
- | Simple mounting – Just clip in the glazing bead
- | Safe – No damage to the window glass by „faulty nailing“
- | Tested – Meets all of the highest standards of window manufacturing
- | Demountable - Easy glass change possible, without a damage of the glazing bead
- | GLE20 Plus is either suitable for dry or wet glazing process

PLUS:

GLE 20 Plus with separate wedge gasket for a trouble-free glazing on site.

Soft contact surface for the protection and fixing of the window glass.

Groove for nailing and prepunched holes for screws.

Hooks to snap and hold glazing stop in place.

Wedge-shaped sealing

FIXclip-Profile GLE20 Plus

Material characteristics:

highly elastic, UV and weather resistant, resistant against lacquer, clear finish, stain and cleaning agents.

Mounting:	Using CS-screws (3x20 mm) or 16 gauge x 1" finish nails (1.2 x 25 mm).
Processing:	Milling: the glazing bead with KNAPP® universal milling cutters, length cutting, attachment of the profile, snap in glazing bead and pressing in the wedge gasket.
Application:	Wood aluminum windows, wood-aluminum fixed glazing and doors.
Suitable sizes:	Profile length 6 LM or 2,3 LM.
Accessories:	Universal milling head (Art.No. K655), Slat cutter (Item No. Z088) and Mounting tool (Art.No. Z085).

FIXclip-Profile GLE20 Plus

Installation



1) Cut to size glass bar and FIXclip-Profile



2) Fix FIXclip-Profile with nail/screw



3) Snap in glass stop



4) Press in wedge gasket sealing

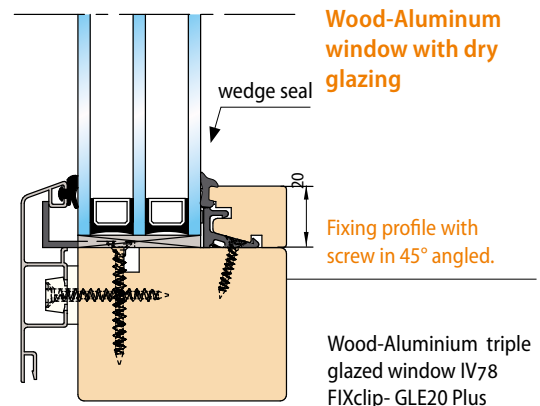
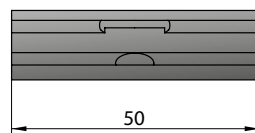
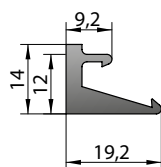


5) Clean finish with sealing roller



FIXclip GLE20 Plus

Art.-No. K025 / K025 SET



System advantages:

- ! Ideal for fixed glazing for dry or wet glazings.
- ! Continued applied pressure due to fixing with screw in 45°.
- ! Simple and fast snap in of glazing bead.
- ! Easy removal of wedge gasket and glazing bead.

The new invisible FIXclip GLE20 Plus is a great addition to the FIXclip system. It is a great alternative as it achieves not just the fixing of the glazing bead and glass pane, it also put pressure on the glass pane and thus guaranteeing a continuously sealed window.

Mounting:	By screwing with KNAPP stainless steel PH-screws 3,5x25 mm or CS-screws 3,5x25.
Processing:	Removable spindle moulder with moulding knives (Art.-No. K656)
Application:	For glazing of doors and windows.
Suitable materials:	Glazing beads, mouldings made of wood or plastic materials.
Accessories:	FIXclip-Profile moulding knives GLE20 / GLE20 Plus and FIXclip GLE20 Plus (Art.-No. K656), GLE20 Plus wedge seal (Art.-No. Z089)



Continued applied pressure due to fixing with screw in 45°

Installation



1) Cut glazing beads



1) Install FIXclip GLE20 Plus in screw in 45° angle



3) Snap in glazing bead



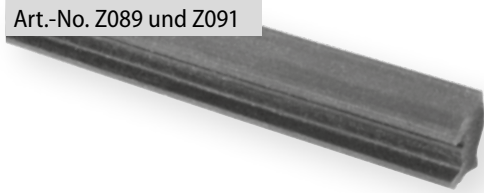
4) Press in the wedge gasket



5) Easy finishing with sealing roller

GLE20 Plus Wedge Gasket

Art.-No. Z089 und Z091



Wedge gasket for d easy glazing in combinati-on with of the FIXclip-Profile or FIXclip GLE20 Plus. Installed in-plant or on-site.

Available colors: black and dark gray. Other colors available upon request. Deliverd in lenght rolls.



Press in wedge-shaped sealing

Material properties of the wedge seal: elastic, high temperature resistance, UV and weather resistant, very good resilience, resistant to varnishes, glazes and cleaning agents.

Slat cutter

Art.-No. Z088

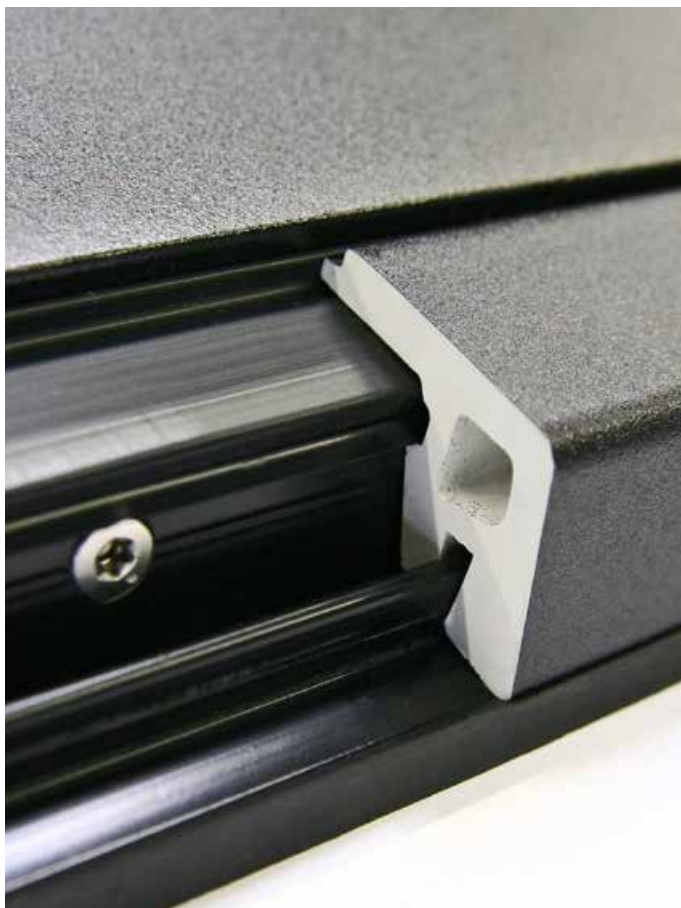
Slat cutter for FIXclip-Profile (45° miter cut)



Mounting tool

Art.-No. Z085

Mounting tool for FIXclip-Profile



RC2 is confirmed by the existing characteristics of the components.

Glazing and sealing in one step.

Universal Milling Cutter for FIXclip-Profile System GLE18 / GLE20 / GLE20 Plus and FIXclip GLE20 Plus

Instruction Milling Cutter for FIXclip-System

FIXclip-Systems are fixing the glass pane and sealing in one step and is suitable for wood aluminum fixed glazing and lift-and-slide doors.

GLE18 Milling Cutter GLE20 Milling Cutter

Art.-No. K655

Milling head with plates
FIXclip-Profile GLE18

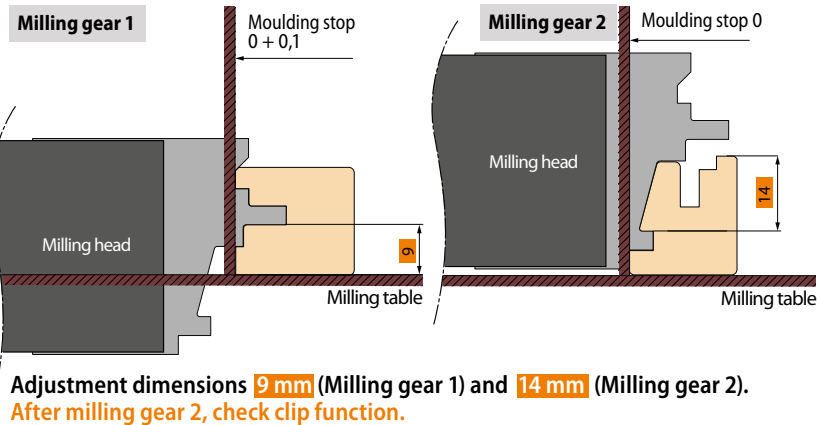
Art.-No. K656

Milling head with plates
FIXclip-Profile GLE20, GLE20 Plus
and FIXclip GLE20 Plus

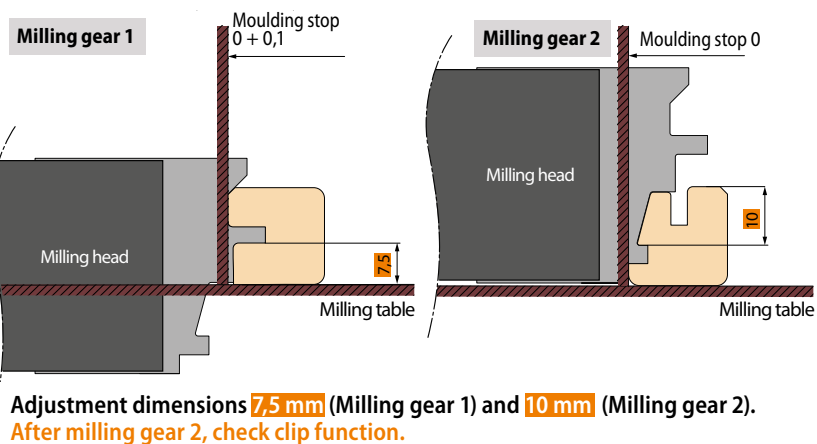


Skid depth gage set made of carbide available upon request.

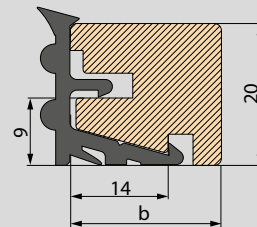
GLE20 + GLE20 Plus



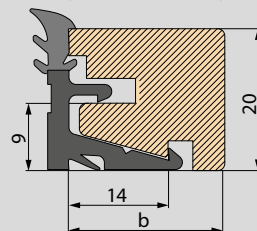
GLE18



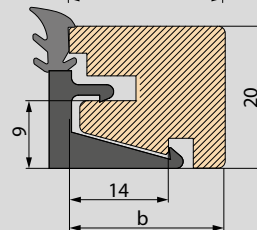
GLE20 - b 20 - 40 mm



Integrated sealing lip
milling profile for FIXclip-Profile
GLE20

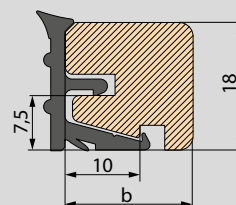


Separate wedge gasket mil-
ling profile for FIXclip-Profile
GLE20 Plus



Separate wedge gasket
Single hold milling
profile for FIXclip
GLE20 Plus

GLE18 - b 18 - 40 mm



Integrated sealing lip Milling
profile for FIXclip-Profile
GLE18



GLE18



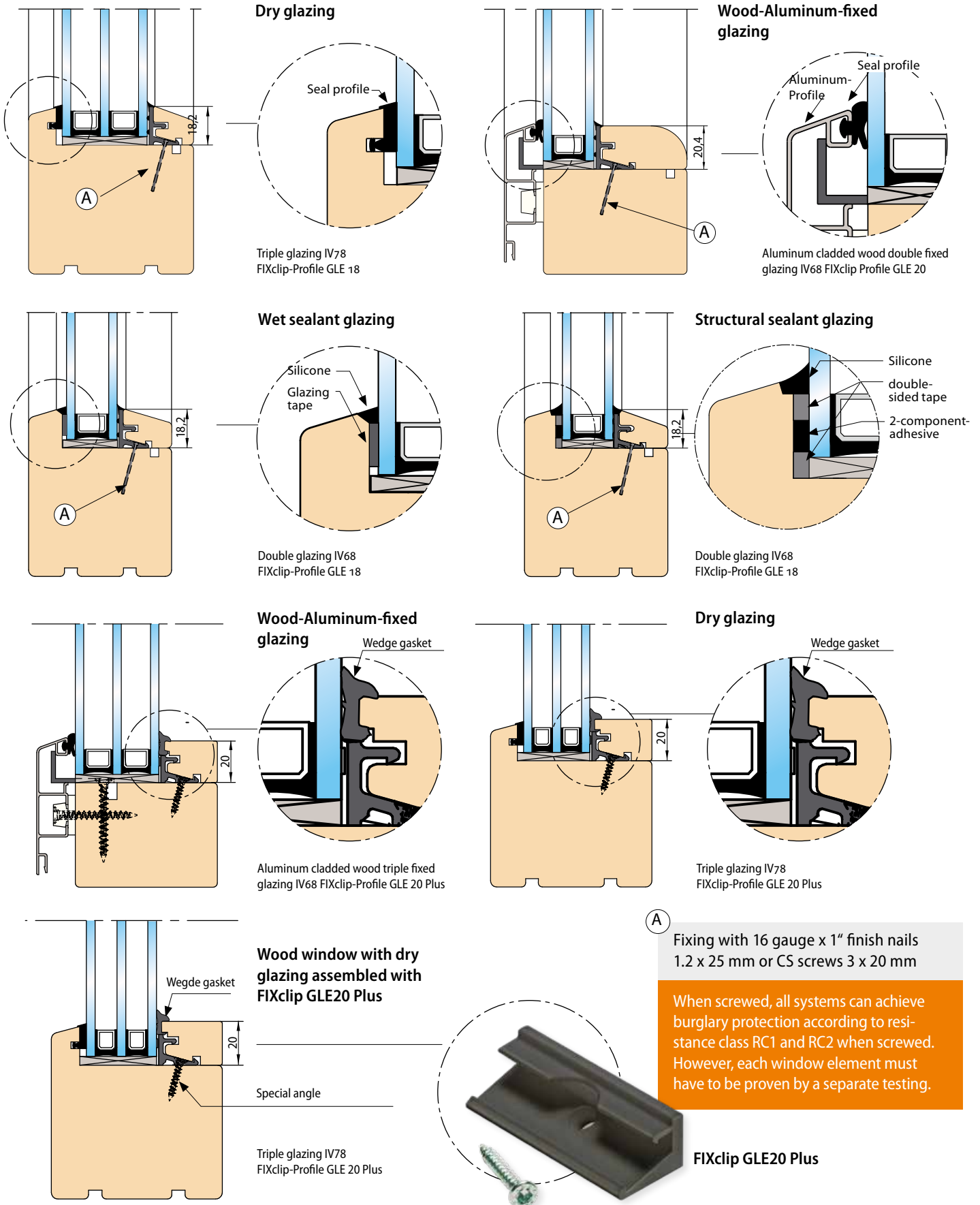
GLE20 / GLE20 Plus

The glazing beads are milled with the universal milling head from KNAPP® using a spindle molder. In order to guarantee a perfect fixing of the glazing bead, all setting dimensions must be checked.

FIXclip-Profile

Processing options

Completely invisible glazing bead fixture for the interior. Flexible use for dry glazing, Wood-aluminum fixed glazing, wet glazing and glued glazing.

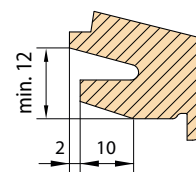
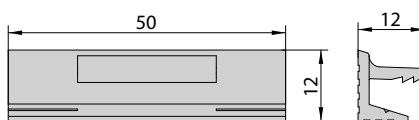


FIXclip

Glassing stop and profile connector, plastic

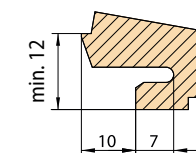
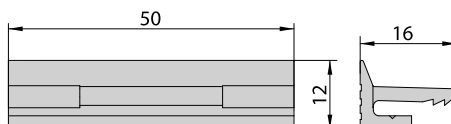
FIXclip H12

Art.-No. K078



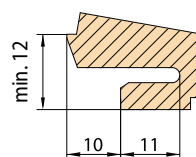
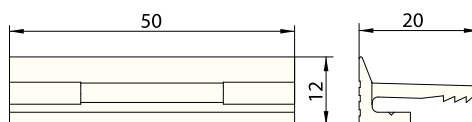
FIXclip H16

Art.-No. K076



FIXclip H20

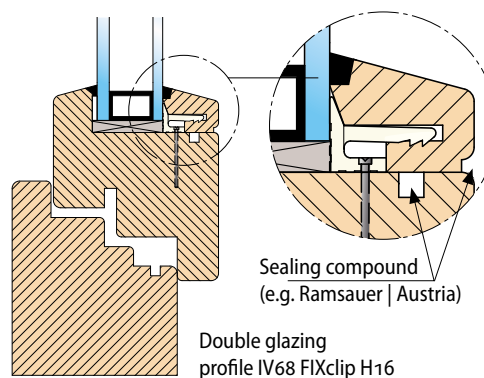
Art.-No. K077



On request the FIXclip H12 and H16 are also available in white. The H20 will soon be available in black.

System advantages:

- Concealed mounting of glass and profile strips, dismantlable without damage, tested for wind load C₅ (EN 12210) and impact resistance class 3 (EN 13049).
- Perfect look - No visible fasteners
- Time-saving - Effective production process guaranteed
- Attachment - by nailing or screwing
- For glazing bead frames and glazing beads, moldings made of wood or plastic materials



The FIXclip is a plastic glass and profile connector that allows completely concealed installation. The FIXclip becomes glass panes and fillings fixed in windows and front doors without damaging the various moldings by the conventional nailing. The FIXclip connector is used for wooden windows and fixed glazed wood / wood and wood / aluminum windows.

Mounting:	By nailing with 16 gauge x 1" finish nails (1.2 x 25 mm) (head diameter 2 mm) or screwing with PH-screw 3x25 mm.
Processing:	With spindle moulder and cutting saw blade.
Application:	For glazing of doors and windows.
Suitable materials:	Glass profiles, sectional strip made of solid wood and composite materials.
Accessories:	Cutter FIXclip for spindle Ø = 30 mm in the FIXclip sizes H16/H20 (H12 on request) available. Cutter FIXclip for spindle Ø = 40 oder Ø = 50 mm available on request

Installation



1) Cut grooves



2) Fasten with nails



3) Click on the glazing beads



4) Assemble



KNAPP® Slot Cutter FIXclip

Cutter FIXclip H12 Art.-No. Z082
Cutter FIXclip H16 Art.-No. Z076
Cutter FIXclip H20 Art.-No. Z077

The glass and profile strip connectors have been tested by ift Rosenheim and HFA Vienna.

Proof of resistance to wind load, water-tightness, air permeability and impact resistance

Proof resistance at wind load

Impact resistance proof



Test in accordance with ÖNORM EN 14351-1 and ÖNORM B5300 (partial tests of air permeability, watertightness, wind resistance)

ift windows product passport, according to EN 14351-1



The FIXclip passed all requirement levels for the ift Rosenheim exam.

All systems can be screwed the burglary protection according to the resistance class reach RC1 and RC2. This must be done by self-examination of the selected elements.



DUO 30

Stainless steel hook connector with optional locking clip

System advantages:

- Easy to mount, concealed and immediately load bearing
- Optionally mL / oL (with / without sideways tolerance)
- Installed with standard CS-screws or EURO-screws
- Shallow drilling depth – only 3 mm, hook way 15 mm
- Latch the connection with optional locking clip

DUO 30 mL

Art.-No. K070



DUO 30 oL

Art.-No. K074

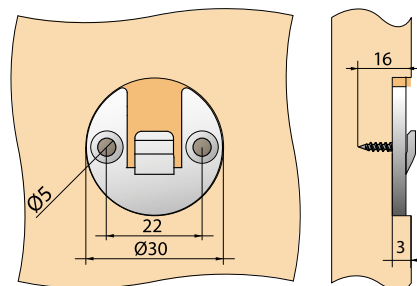


CS-screws 3,5x16 mm
(not included)

Art.-No. Z502

Installation example:

Mounting on door leaf and facing element.



Hooking way 15 mm



Stainless steel lock for
a secure hold

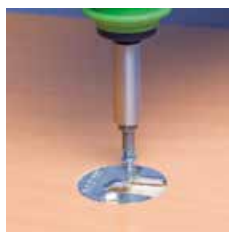
Installation DUO 30



1) drilling according to mark



2) Mark with center punch



3) Screwing with CS-screws



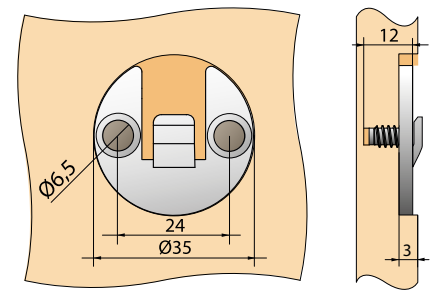
Door panels and
window blinds

DUO 35

The hook connector made of steel

System advantages:

- Easy to mount, concealed and immediately load bearing
- Shallow drilling depth – only 3 mm, hook way 15 mm
- Optionally mL / oL (with / without sideways tolerance)
- Installed with standard CS-screws or EURO-screws



Hooking way 15 mm

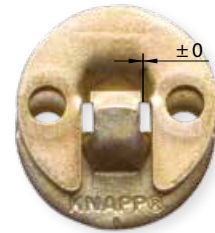
DUO 35 mL

Art.-No. K061



DUO 35 oL

Art.-No. K062



Optimized for CNC-processing:
Euro screws 6x10 mm



Installation DUO 35



1) Drilling according to mark



2) Transfer drill position with center punch.
(make sure center is on the same line)
and pre-drill with Ø = 5 mm, 12 mm deep.



3) Screwing



Door panel | Schröder door and window construction (DE)

Mounting:	DUO 30 with 3,5x16 mm CS-screws / DUO 35 with 6x10 mm Euro screws, only 3 mm cutting depth.
Benefits:	Concealed, self-tightening, demountable connector which allows shrinkage and expansion moving (mL = with tolerances) or for exact placing (oL = with no tolerances).
Processing:	Drill 3mm deep holes using the KNAPP® Forstner Bit Ø = 30/35 mm using drilling jig or with CNC equipment. Mount DUO 30 with (suggested) CS-screws 3,5x16 mm / DUO 35 with (suggested) Euro-screws 6x10 mm. Screws length depends on application.
Application:	Facades and windows, staircases and handrails, cabinet and panels, door and window casing.
Suitable materials:	All kinds of wood and particle boards.
Accessories:	KNAPP® Forstner Bit (Ø = 30/35 mm, adjustable depth gauge) Art.-No. Z070 / Art.-No. Z071 Center punch DUO 30/35 Art.-No. K071 / Art.-No. K069, Handrail punch DUO 30 Art.-No. K075 Adjustable boring template DUO 30/35 Art.-No. K563



Instruction example:
Mounting of window elements with DUO30

Tischlerei Tiedemann
GmbH & Co.KG (DE)



Forstner Boring Bit Ø 30
Forstner Boring Bit Ø 30

Art.-No. Z070
Art.-No. Z071

UNO 30

Stainless steel hook connector with optional locking clip

Art.-No. K120/B UNO 30

Art.-No. K120 UNO 30 SET

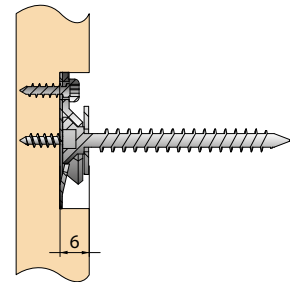
System advantages:

- Simple and fast – hook into place
- Concealed – not visible
- Self-tightening – through “dove tail” principle
- Safe – latch the connection
- Variable – hook way 15mm
- Flexible – used for versatile applications
- Strong – holds up to 150kg/1.5 kN



PH-screw 3x13 mm
CS-holding screw 5x50 mm

*Additional screw lengths
available upon request.*



UNO 30 with locking clip,
side view

Mounting:	Screwing in with CS screws $\varnothing = 3$ mm, only 7 mm drill depth.
Benefits:	Concealed, self tightening, demountable connector for 30 mm drills.
Processing:	Drill a 7mm deep hole using the KNAPP Forstner Bit $\varnothing = 30$ mm using center punch and drilling jig or with CNC equipment.
Application:	Paneling, facades, handrails, furniture (use with or without locking clip).
Suitable materials:	All wood materials including concrete and drywall with use of wall anchor.
Accessories:	KNAPP® Forstner Bit ($\varnothing = 30$ mm, with adjustable depth stop) Art.-No. Z070 Center punch UNO 30 Art.-No. K073 Adjustable boring template UNO 30 Art.-No. K563, Locking clip Art.-No. K121



1A) Drilling with jig



1B) or according
to mark



2) Mount with screws



3) Transfer mark with
center punch

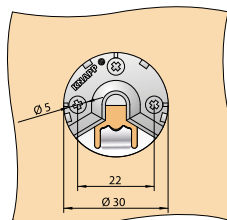


4) Attach holding screw

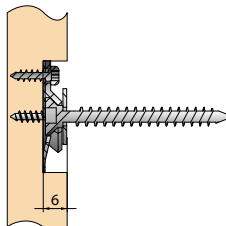
Locking clip

Optional spring steel locking clip for DUO 30 and UNO 30

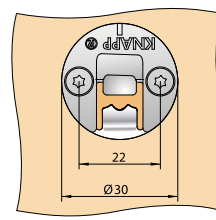
Art.-No. K121



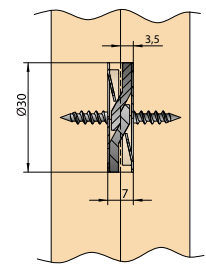
UNO 30 with locking clip



UNO 30 with locking clip



DUO 30 with locking clip



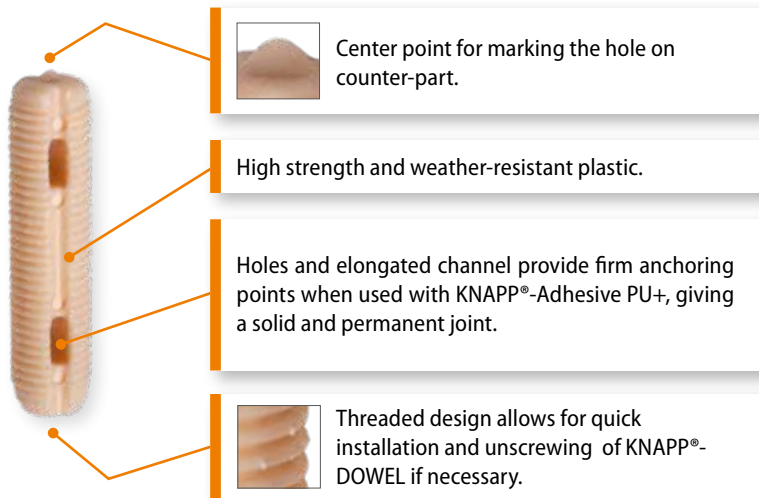
DUO 30 with locking clip

Mounting: Insert beneath DUO 30 or UNO 30 bracket prior to mounting with screws.

Benefits: Locking clip holds up to 24 kg (failure load approx. 73 kg).

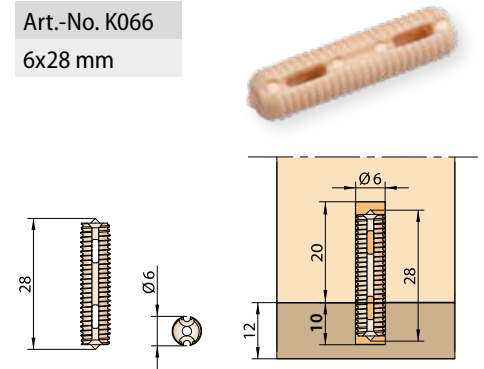
KNAPP®-DOWEL

Plastic dowel



KNAPP®-DOWEL 6 mm

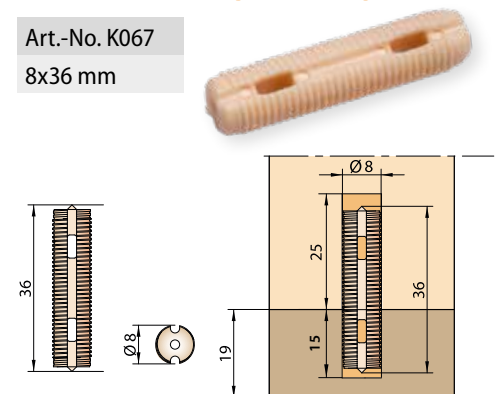
Art.-No. K066
6x28 mm



Info: Moisten the surface of very dry wood before gluing.

KNAPP®-DOWEL 8 mm

Art.-No. K067
8x36 mm



System advantages:

- Effective prefabrication – doweling jig or automatic doweling machine
- Fast installation – connection can be processed immediately after insertion
- Design - channel along dowel allows for smooth distribution of adhesive and prevents surface from bulging
- No shrinking or swelling will occur, thus no risk of breaking or splitting as with wooden dowels
- Weather resistant – high quality polyacetal (POM) plastic for interior and exterior use
- Strong hold – through additional bonding with KNAPP®-ADHESIVE PU+

Mounting:	Knock-in, optionally gluing with KNAPP®-ADHESIVE PU+
Benefits:	UV-resistant, self-tightening dowel.
Processing:	Drill holes with doweling jig or doweling joiner. Insert by hand with hammer or automated dowel insertion machine. Optionally, insert adhesive before inserting dowel.
Application:	Windows, doors, case goods, furniture, architectural millwork, and shop fittings. Wherever wood dowels can be used.
Suitable materials:	All kinds of wood materials (solid and composite).
Accessories:	KNAPP®-ADHESIVE PU+ Art.-No. Z011

KNAPP®-DOWEL

Installation



1) Drill with doweling machine



or doweling joiner



2) Glue with KNAPP®-Adhesive PU+



3) Knock in

Gnan Fensterbau (DE)



4) Assemble



Solarlux (DE) | Fenster Kiecksee, Blenden (DE)

KLIKK-System

Snap-in Connector

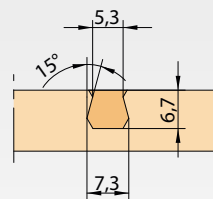
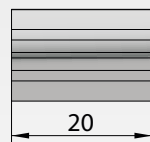
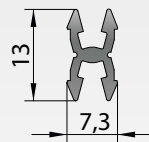
System advantages:

- Hidden - invisible attaching of e.g. window and door screens, covers, moldings and trim
- Self-tightening - also used as gluing aid for miter joints
- Demountable - allows disassembly if needed
- Universal - for parts with very small dimensions and thin board materials
- Simple - Snaps straight in with no further processing
- Time-saving - high prefabrication and immediately load bearing

KLIKK

Dovetail snap-in connector, plastic

Art.-No. K045



Mounting:	Clips into the dovetail groove.
Benefits:	Concealed, self-tightening, demountable.
Processing:	Use a router table or CNC to make dovetail route and snap KLIKK into route. Can also be used in combination with KLIKKpro.
Application:	Concealed mounting of moldings, trims and mitered corners as well as gluing aid.
Suitable materials:	For all solid wood, wood based panels and plastic materials.
Accessories:	KLIKK Dovetail Router Bit with $\varnothing = 8$ mm shank Art.-No. K046/F, $\varnothing = 6$ mm shank Art.-No. K045/F; $\varnothing = 6,35$ mm/ 1/4" shank Art.-No. K048/F, $\varnothing = 12,7$ mm/ 1/2" shank Art.-No. K047/F.



Herport GmbH & Co. KG (DE)

Installation



1) Route groove



2) Insert



3) Position



4) Snap-In

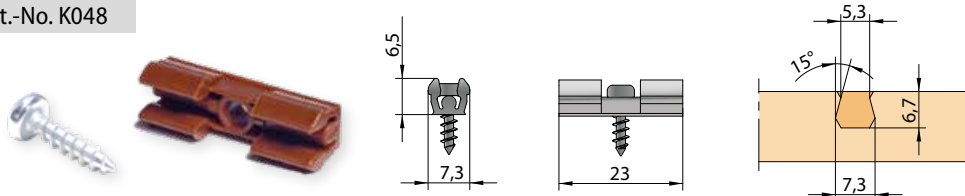
Dovetail Router Bit
with $\varnothing 8$ mm shaft
Art.-Nr. K046/F.
Also available in
1/4" (6.35 mm)
shank



sKLICK

Dovetail snap-in connector for screw mounting, plastic

Art.-No. K048



Mounting:	By screwing with PH-screw.
Benefits:	Self-tightening, demountable connector for any angles 0-90°.
Processing:	Use a router table or CNC to make dovetail route. Attach with PH-screw 3x13 Art.-No. Z600, and snap sKLICK into the route. Can also be used in combination with KCLICKpro.
Application:	For concealed mounting of filler panels, covers and moldings.
Accessories:	KCLICK Dovetail Router Bit with Ø = 8 mm shank Art.-No. K046/F, Ø = 6 mm shank Art.-No. K045/F; Ø = 6,35 mm/ 1/4" shank Art.-No. K048/F, Ø = 12,7 mm/ 1/2" shank Art.-No. K047/F.
Suitable materials:	For all solid wood, wood based panels and plastic materials.



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Installation



1) Route grooves



2) Mount with screw



3) Position



4) Snap-In

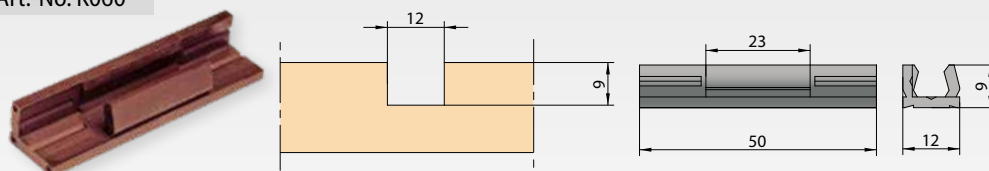
Dovetail Router Bit
with Ø 8 mm shaft
Art.-Nr. K046/F.
Also available in
1/4" (6.35 mm)
shank



KCLICKpro

Dovetail receiving connector for KCLICK and sKLICK, plastic

Art.-No. K060



Mounting:	KCLICKpro can either be surface mounted or mounted into a groove. It is fixed by screwing, nailing or gluing.
Benefits:	Concealed, self-tightening dovetail receiver suitable for KCLICK and sKLICK.
Processing:	Cut either groove or rebate (9x12 mm by using a spindle moulder or CNC) or install KCLICKpro surface mounted. For use with KCLICK or sKLICK. Fixed KCLICKpro by either screwing, nailing or gluing.
Application:	For concealed mounting of filler panels, covers and moldings.
Suitable materials:	For all solid wood, wood based panels and plastic materials.



Teampplan Josef Meyer (DE)

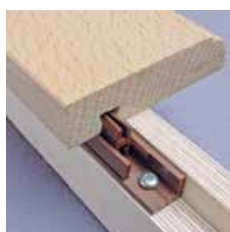
Installation



1) Route groove



2) Mount with screws

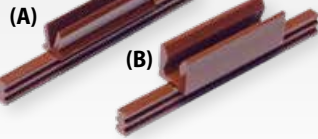


3) Snap together

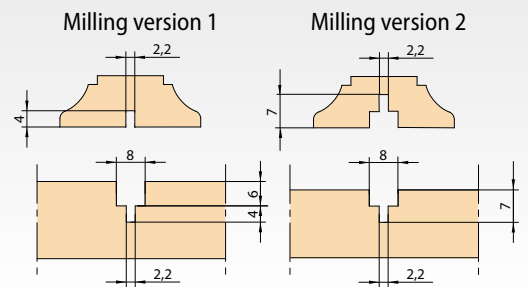
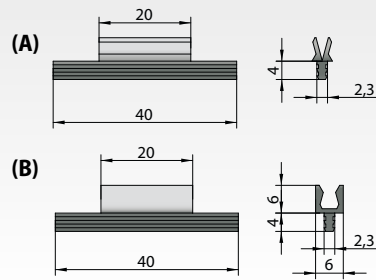
miniCLICK

2-part dovetail snap-in connector, plastic

Art.-No. K059



Info: Moisten the surface of very dry wood before gluing.



Mounting: Gluing into pre-cutted groove with KNAPP®-ADHESIVE PU+.

Application: For concealed mounting of small moldings and glazing beads e.g. interior doors.

Benefits: Concealed, self-tightening dovetail connector.

Processing: Make groove with spindle moulder and cutting saw blade. Apply KNAPP-ADHESIVE PU+ glue into groove.

Suitable materials: For all solid wood, wood based panels and plastic materials.

Accessories: miniCLICK grooving saw blade 120 mm, Ø = 30 mm drillhole | Art.-No. Z065.
Insert tool miniCLICK | Art.-No. K068, KNAPP®-ADHESIVE PU+ | Art.-No. Z011.



Installation



1) Route groove



Option: Glue with
KNAPP®-Adhesive PU+



3) Insert



4) Snap together

Grooving saw 120

Art.-No. Z065



KNAPP®-GLUE PU+

Art.-No. Z011



Door and window construction

Selected reference project



Thermosecur Haustüre Noblesse GmbH & Co. KG (DE)



EGE Holzbau GmbH & Co. KG (DE)



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Downloads

All brochures, data sheets, technical details are available for download on our website.

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