

Connecting systems for

# Timber construction

For 40 years, KNAPP has been committed to providing its customers with state-of-the-art assembly systems that are at the forefront of technology and innovation.

Simple and effective, our solutions stand out for their diversity and the numerous assembly options they offer, but also for their invisibility, the ease of assembly of the components, even on very large sections of wood, the possibility of combining them with other materials and their fire resistance.

All of our solutions for timber construction and engineering have European Technical Assessments (ETAs) and CE marking.

Connecting Your Ideas ...

**KNAPP**<sup>®</sup>  
connectors.com



CATALOGUE

# Connectors for timber construction

## Connecting up to 23 kN

- ▮ Invisible connections for curtain walls, column-beam connections and main-secondary beam connections
- ▮ For timber sections with a minimum width of 19 mm
- ▮ Disassembly and reassembly without damage
- ▮ Allows for advanced finishing of parts in the workshop and quick, precise assembly on site
- ▮ Joint can be adjusted to correct possible tolerances
- ▮ Fire resistant (EN 1995-1-2)
- ▮ Stainless steel version for use in service class 3, available in 16 sizes
- ▮ Galvanized steel version available in 5 sizes and 3 variants

### Installation



Machining with jig



Screw fastening



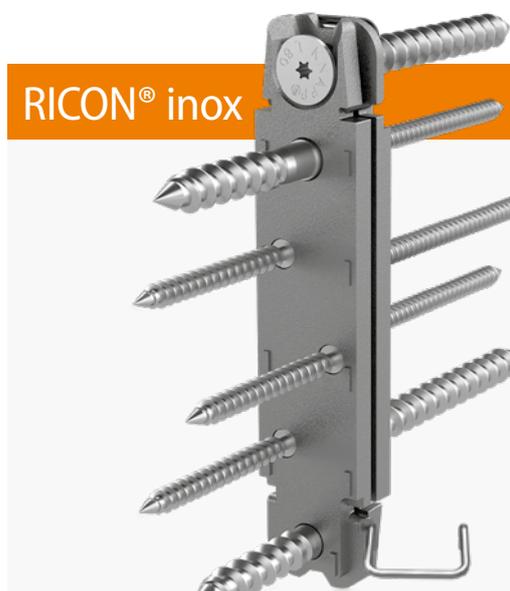
Installing the locking clip



Interlocking



Secure connection with locking clip



RICON® inox



RICON®



RICON INOX



RICON

- ▮ Can be used on steel, concrete, conventional wood materials and special wood species, e.g. oak, Douglas fir, larch and impregnated wood (Accoya)
- ▮ Ideal for both indoor and outdoor use: structural elements, joists, balconies, pergolas, canopies, trellises, play and sports equipment, and other structures in service classes 1, 2 and 3.

Fire resistance (EN 1995-1-2) with wood projection on 3-4 sides, butt joints  
(e.g. R30  $\geq$  28 mm, R60  $\geq$  49 mm)



RICON® S

## RICON® S



Connecting  
up to 230 kN

Connector for wood  
construction and engineering



- ▮ Invisible assemblies for post-beam and main-secondary beam connections
- ▮ For timber sections with a minimum width of 100 mm
- ▮ Highly advanced prefabrication of production
- ▮ Easy attachment – V-shaped notch and short fitting distance, only 35 mm
- ▮ Adjustable connection solution to compensate for tolerances
- ▮ Optional locking plate secures the system in the opposite direction to the engagement
- ▮ Fire resistant (EN 1995-1-2)
- ▮ Available in 5 sizes and 4 variants



EVO GRIP

## EVO GRIP™



Connecting  
up to 550 kN

Variable High-Load Connector  
for wood engineering



- ▮ Invisible assemblies for post-beam and main-secondary beam connections
- ▮ For timber sections with a minimum width of 100 mm
- ▮ Load capacities up to 40% higher thanks to the ridges on the back of the fittings.
- ▮ Fewer fixing screws needed or smaller connectors used for the same load capacities
- ▮ Easy to assembly, short engagement distances and assembly clearance
- ▮ Fire resistant (EN 1995-1-2)
- ▮ Available in 3 heights and variable widths



**MEGANT**<sup>®</sup>



**Connecting  
up to 768 kN**

**Heavy duty system  
for mass timber construction**



- | Connectors for column-beam and main-secondary beam connections
- | For timber cross sections with a minimum width of 100 mm
- | Invisible - flawless connection finish
- | Disassembly and reassembly without damage
- | Highly advanced prefabrication of production
- | Can be assembled from the top down and bottom up
- | Withstands forces on all directions
- | Quick and easy to connect, with a hooking way of only 20 mm
- | Fire resistant (EN 1995-1-2)

**WALCO**<sup>®</sup> V



**Connecting  
up to 16 kN**

**Connector for timber walls**



- | Invisible assemblies for closed timber frame walls and CLT
- | Quick and precise assembly, no screwing between walls on site
- | Stable assembly from the first corner
- | Quick and easy assembly through the spacious V-shaped bracket
- | For timber cross sections with a minimum width of 80 mm
- | Available in 2 sizes and 4 variants

