

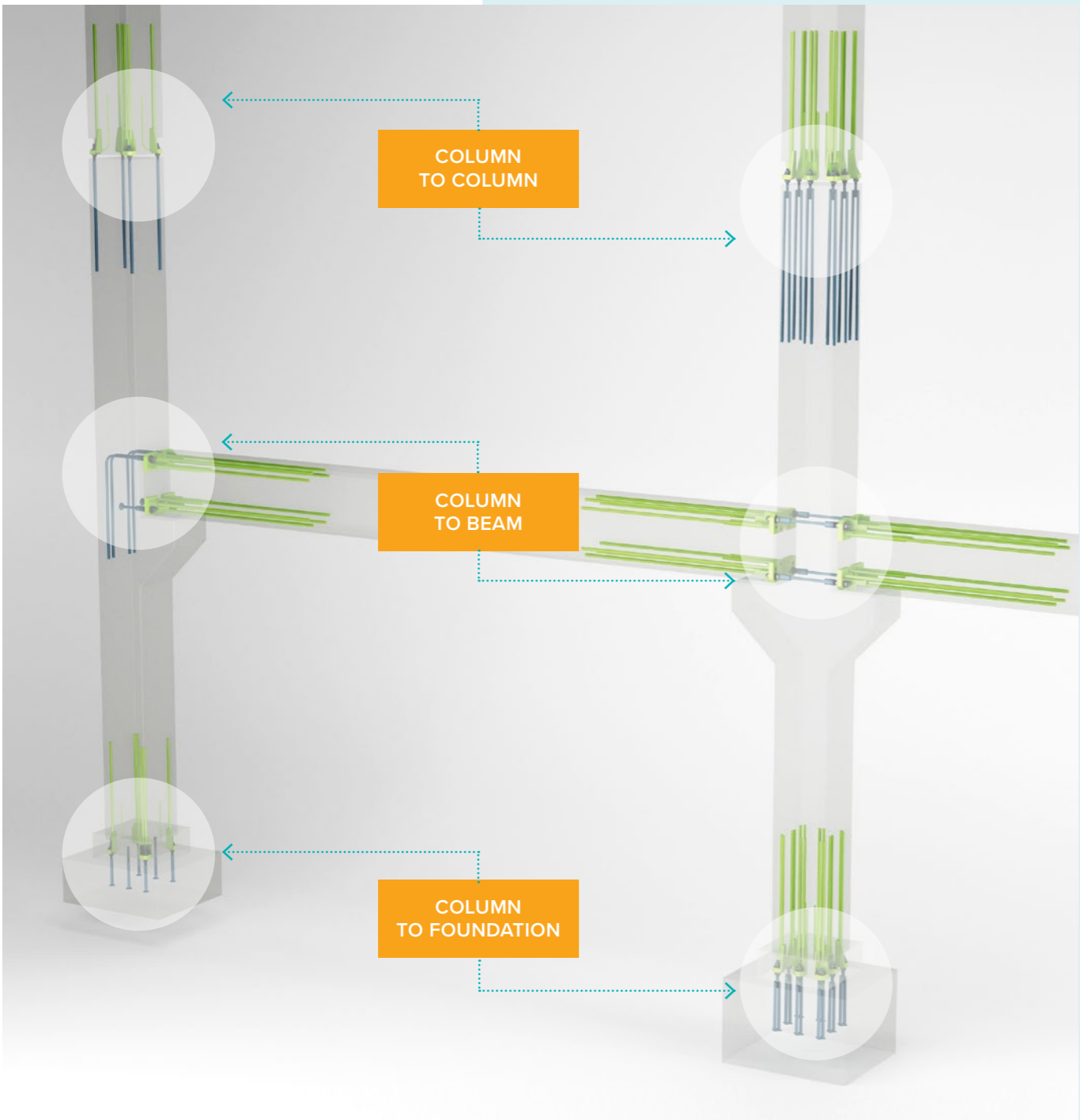
Simplicity of design
Ease of precasting
Speed of erection



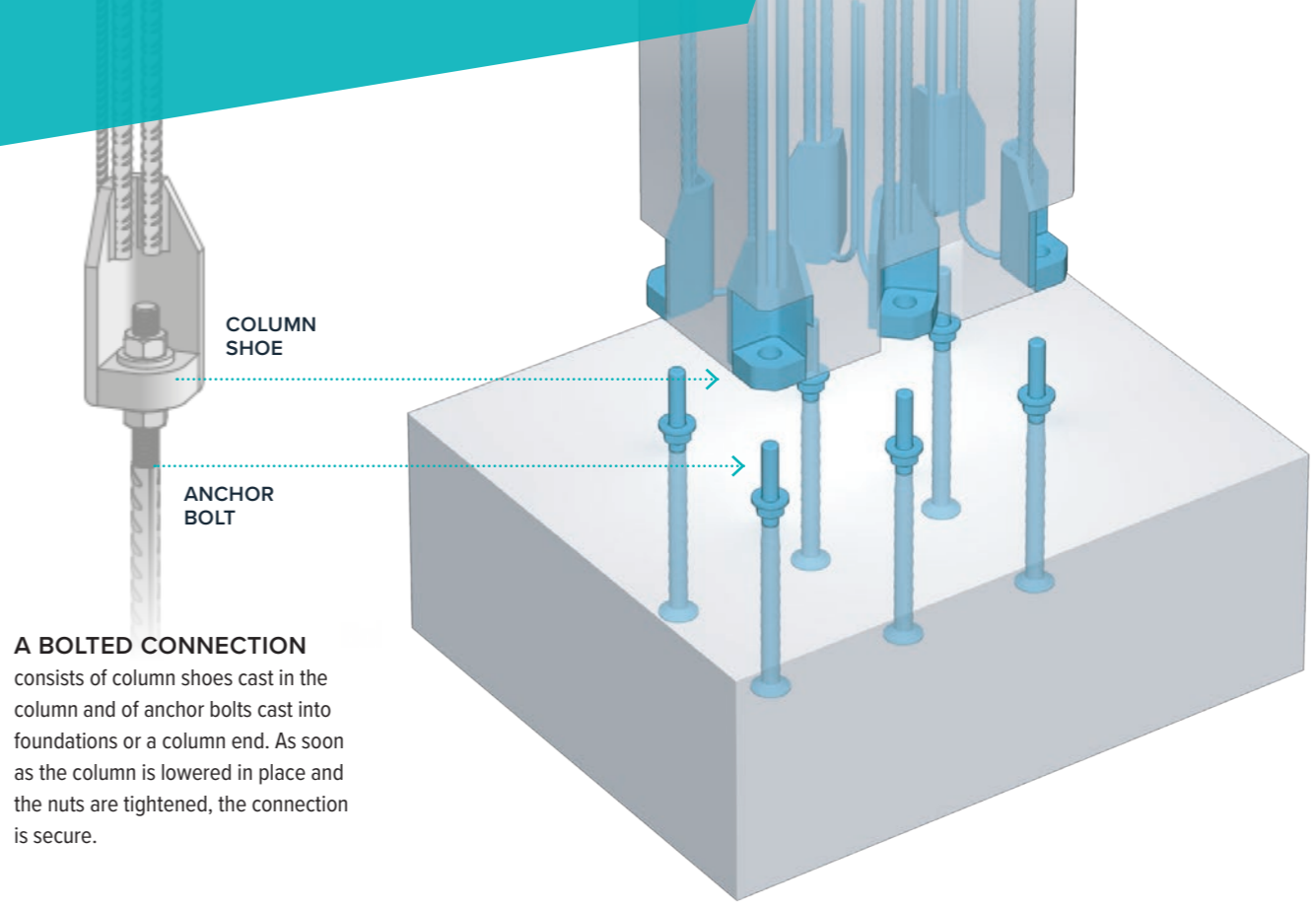
**BOLTED COLUMN
CONNECTIONS**

The background image shows a construction site with several tall, grey concrete columns. A worker in a white hard hat and a high-visibility vest is on a blue scissor lift, working on a horizontal concrete beam that is being attached to the columns. The scene is set against a clear blue sky. The image is overlaid with large, semi-transparent geometric shapes in teal, green, and orange.

ALL PRECAST FRAME CONNECTIONS FROM PEIKKO

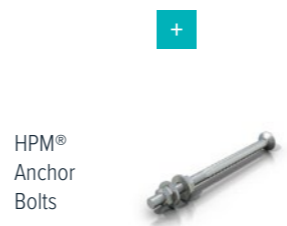
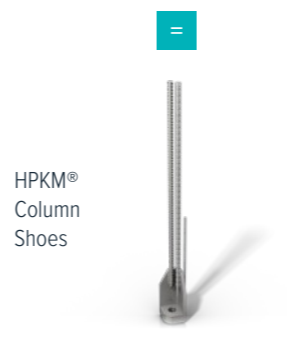


WHAT IS A BOLTED COLUMN CONNECTION?

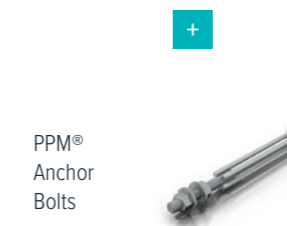
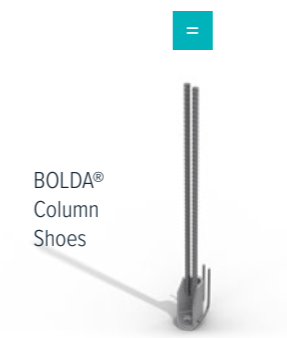


A BOLTED CONNECTION consists of column shoes cast in the column and of anchor bolts cast into foundations or a column end. As soon as the column is lowered in place and the nuts are tightened, the connection is secure.

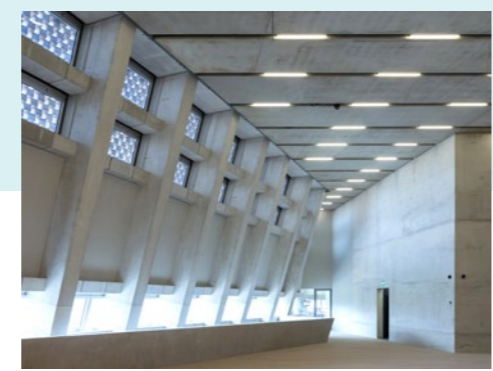
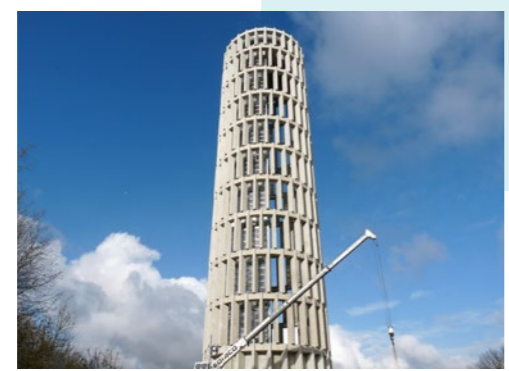
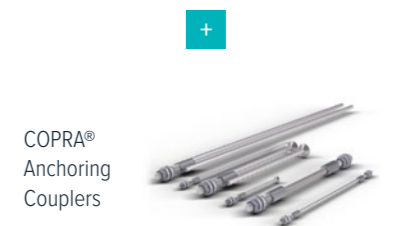
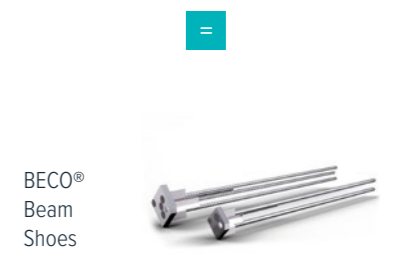
COLUMN CONNECTIONS FOR MODERATE LOADS



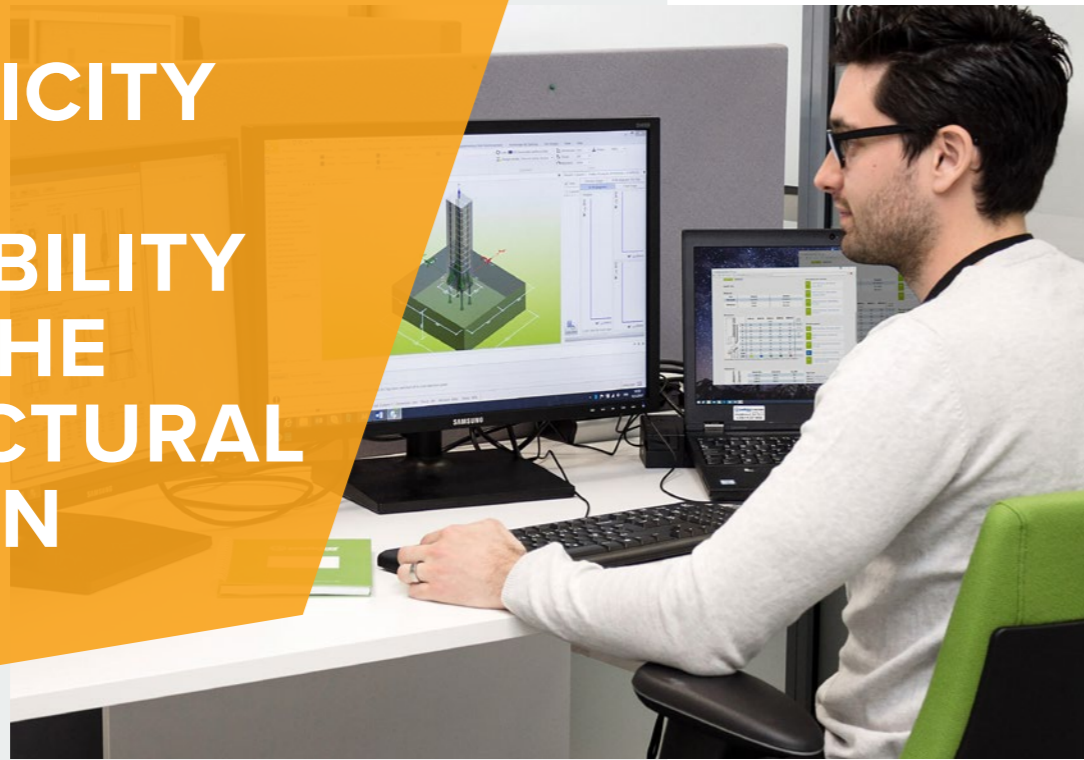
COLUMN CONNECTIONS FOR HIGH LOADS



EFFECTIVE COLUMN TO BEAM CONNECTIONS



SIMPLICITY AND RELIABILITY FOR THE STRUCTURAL DESIGN



USING PEIKKO'S OWN DESIGN SOFTWARE **PEIKKO DESIGNER®** you can select and calculate a suitable Peikko Column Connection for construction stage and final stage. Use direct input from Peikko Designer® to Tekla, or use our free plugins to insert the connection into Revit and AutoCAD models.

Free design software
Peikko Designer® for
easier and faster design

BENEFITS FOR DESIGNER

- The connection is stiff when the nuts are tightened, no temporary bracing needed on site
- Create architecturally demanding structures like inclined columns
- Our technical customer service assists throughout the design process

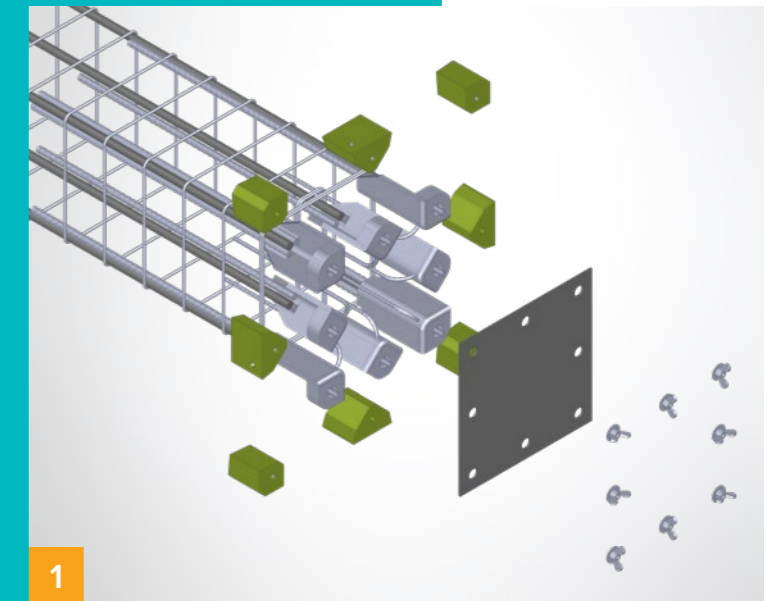
www.peikko.com/designtools



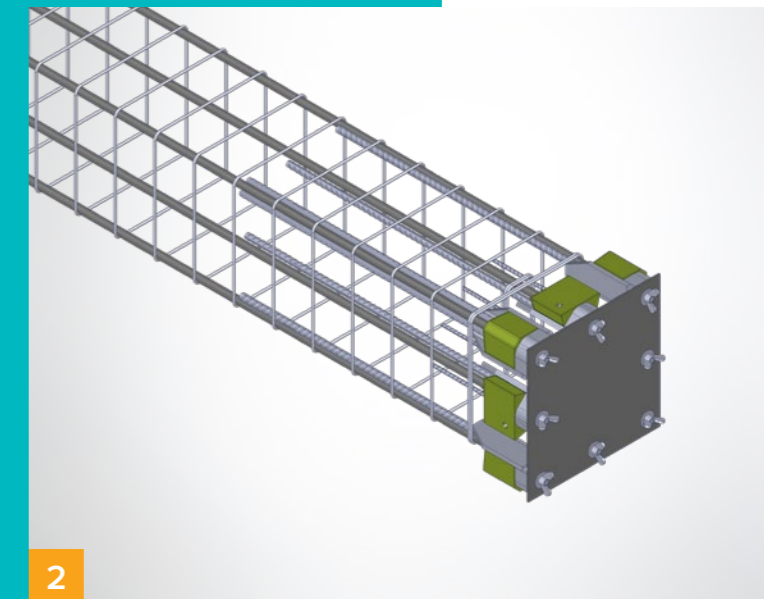
EASY AND EFFICIENT PRECASTING

THE INSTALLATION PROCESS of a bolted column connection is different from the conventional methods, but just as easy.

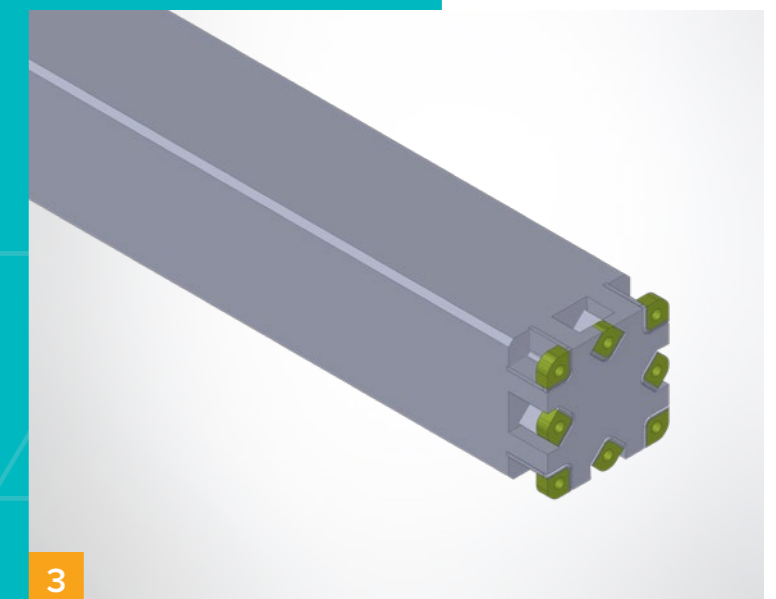
Fix the column shoes and the recess boxes to the end plate.



Install the fixed column shoe package into the reinforcement.



Cast the column and remove the recess boxes.



SPEED OF ERECTION AND SAFETY ON SITE

ON SITE, speed and safety are everything. Bolted column connections offer a lot of advantages when compared to starter bars or socket foundations – you can easily install columns to foundations and beams or make column-to-column connections.



BENEFITS ON SITE

- No temporary bracing needed, the connection is stiff when the nuts are tightened
- Crane can move on to next column when the nuts are tightened
- Only two men and a crane operator needed for installation

WHY CHOOSE PEIKKO'S BOLTED COLUMN CONNECTION?



THERE ARE SEVERAL ways to connect columns. All of them work, but there are considerable differences in their design and installation processes.

Most competing systems are also slower to install and require a large crew temporary bracing to let the grout cure. This leads to unnecessary loss of time and unprofitable use of man-power. It can also affect safety on site.

If you need to reduce the thickness of foundation due to groundwater level or in order to lessen interference with existing structures, Peikko's bolted column connection is the best choice.

Bolted connections can also be used in seismic areas, where the main objective is to ensure that the building sustains earthquake without collapse. Instead of overdesigning the connection, an energy dissipating Peikko Column Connection for seismic zones can save up to 28% of concrete.

BENEFITS OF PEIKKO BOLTED COLUMN CONNECTION

- Easy design process
- Tested, reliable, and safe
- Fast erection process
- Completed connection as stiff as a cast-in-situ connection



For more information on Peikko's bolted column connections, visit www.peikko.com/column-connections



1 Fix the foundation anchor bolts to the PPL template.



2 Position the PPL template with anchor bolts to the foundation and cast.



3 Remove the PPL template and level the nuts.



4 Lower the column.



5 Tighten the upper nuts and check the verticality, release the crane.



6 Grout the joint and the column pockets.

 EXPERT ADVICE LOCALLY AVAILABLE

Peikko offers expert advice during both design and construction, making for an effortless switch from other systems to bolted column connections.

www.peikko.com



A faster, safer, and more efficient way to design and build

Peikko supplies slim floor structures and connection technology for precast and cast-in-situ applications. Peikko's innovative solutions make your construction process more efficient.