peikko®

Simplicity of design
Safety of use
Ease of installation

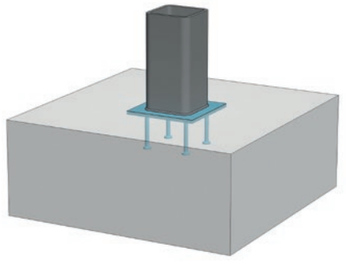
CE

WELDA® ANCHOR PLATES FOR WELDED CONNECTIONS

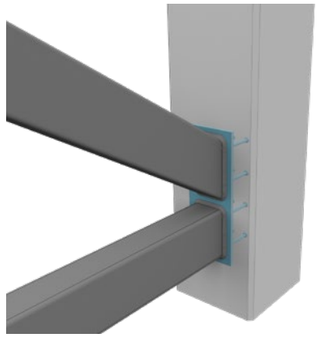
WELDA® ANCHOR PLATES IN USE

WELDA® ANCHOR PLATES are purpose-designed building products used to create a welded connection between different structures. WELDA® Anchor Plates consist of a steel plate and headed studs embedded in concrete either on site or at a precaster's plant. Typical applications include.

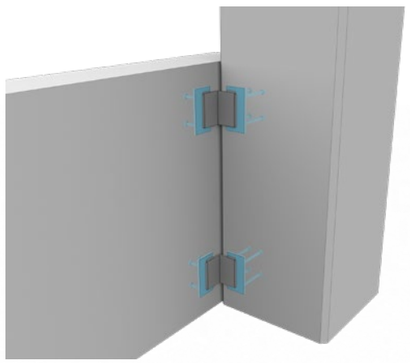
STEEL STRUCTURE TO CONCRETE MEMBER



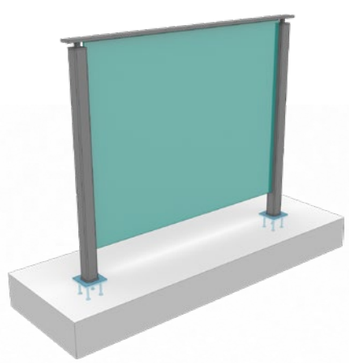
LONG OR MULTIPLE STRUCTURES TO CONCRETE MEMBER

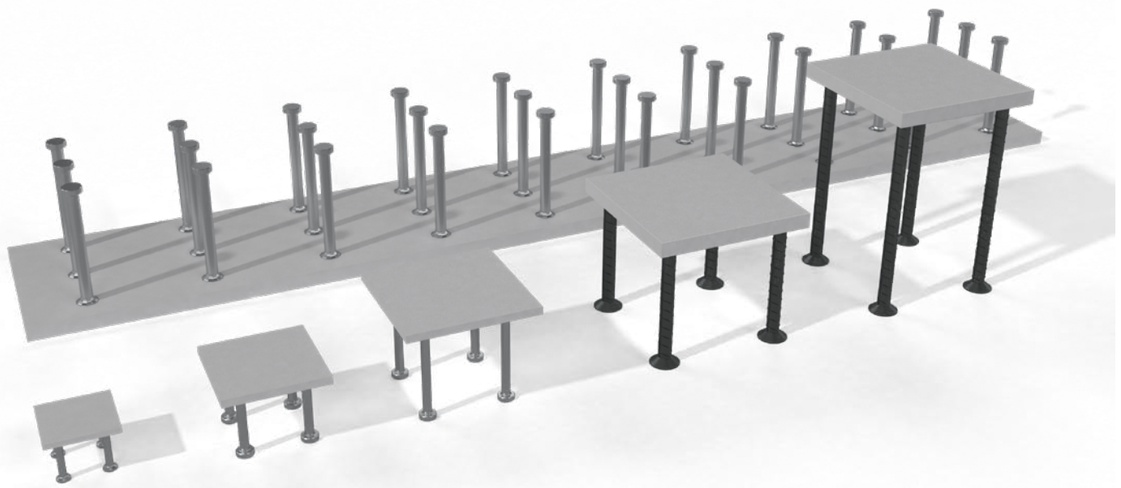


PRECASTED CONCRETE ELEMENT TO CONCRETE MEMBER



OTHER STRUCTURES LIKE BALUSTRADES TO CONCRETE MEMBER





WELDA® ANCHOR PLATES ARE CE MARKED

CE MARKING BASED ON ETA

- Fits to the application
- Design principles inspected and approved
- Product specific type testing and production control
- Installation instructions checked by authorities

PROPER PERFORMANCE OF CONSTRUCTION PRODUCTS is a combination of perfect design and correct installation. WELDA® Anchor Plates are CE marked based on ETA-16/0430. This ensures that both the design and the performance in concrete fulfil the demands set by the authorities for anchor plates.

VARIANTS OF WELDA® ANCHOR PLATES

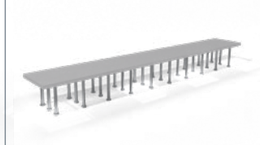
MODERATE LOADS

WELDA® Anchor Plate

HIGH LOADS

WELDA® Strong Anchor Plate

LONG OR MULTIPLE CONNECTIONS



Long WELDA® Anchor Plate

PROJECT SPECIFIC

WELDA® Modified Anchor Plate
WELDA® Strong Modified Anchor Plate

MATERIAL OPTIONS

		Type of environment			
Plate	Anchors	Dry internal	ermanent damp internal	External incl. industrial and marine	Seawater and chemicals
Black	Black	●	○	○	○
Rustproof	Black	●	(●)	(●)	(●)
Rustproof	Rustproof	●	●	●	(●)
Acid proof	Rustproof	●	●	●	(●)

○ Requires sufficient concrete cover and surface treatment
(●) Requires sufficient concrete cover

SIMPLICITY AND RELIABILITY FOR THE STRUCTURAL DESIGN

USING PEIKKO'S OWN DESIGN SOFTWARE PEIKKO DESIGNER® you can select, modify and calculate a suitable WELDA® Anchor Plate for your project need.

Use our free tools to insert WELDA® Anchor Plate into Tekla, Revit and AutoCAD models

www.peikko.com/designtools

DESIGNER BENEFITS:

- Anchor Plates optimized for Eurocode calculations
- CE mark based on ETA is the easiest way to certify conformity to requirements set to anchor plates by authorities
- Our free design tools and technical customer service assist you throughout the design process
- Extra-long anchors offer possibility to avoid time consuming design and approval process of supplementary reinforcement
- New design method reduces supplementary reinforcement for the benefit of whole project

OPTIMIZED THROUGH RESEARCH – REDUCE SUPPLEMENTARY REINFORCEMENT

Design, approving and executing of supplementary reinforcement is a time consuming process. If that could be avoided or at least reduced that would release time to other tasks in the project.

Supplementary reinforcement can be avoided at its simplest by increasing anchoring depth. WELDA® Anchor Plates are available also with extra-long anchors so that time spent to design supplementary reinforcement is time wasted.

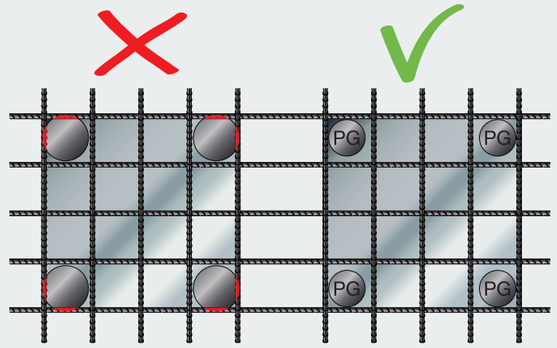
Increasing anchoring depth is not always possible e.g. due to thickness of structure and supplementary reinforcement is necessary to design.

Extensive research done by Peikko has led to the new design recommendations. They allow Peikko to guarantee significantly greater resistances to WELDA® Anchor Plates in comparison to current European design standards. Thanks to this both amount and diameter of supplementary reinforcement can be reduced without compromising resistance. New design method is approved by Finnish Concrete Association.

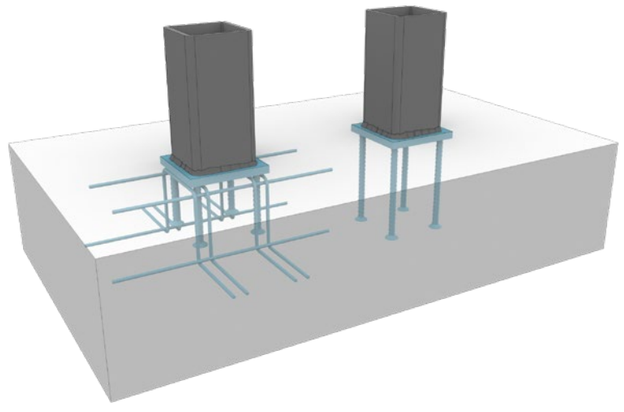
EFFICIENCY OF INSTALLATION IN PRECASTING OR ON SITE

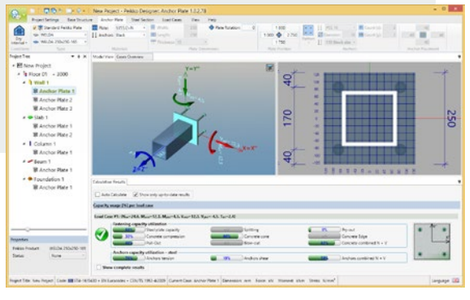
AT SITE OR AT PRECASTER INSTALLATION of anchor plates can be problematic e.g. in heavily reinforced constructions. Optimized shape and size of anchors of WELDA® Anchor Plates shorten the installation time improving efficiency.

Large anchor heads collide often with reinforcement making installation unnecessarily difficult. Area of anchor heads of WELDA® Anchor Plates is smallest available making it easy to install the plate to its correct position regardless of amount of reinforcement.



MULTITUDE OF ANCHOR LENGHTS enable moving anchoring depth deeper to avoid or to reduce the need of supplementary reinforcement. Thanks to longer anchors also collisions with main reinforcement can be avoided.





EXPERT ADVICE LOCALLY AVAILABLE

Peikko offers expert advice during both design and construction. Peikko supplies a large selection of concrete connections and composite beams for both precast and cast-in-situ solutions in a wide variety of applications.

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.