

31.10.2016

Peikko Designer[®]

Release Notes

Date of release 28.10.2016, 1.0.2.67

Column Connection

- Several erection stage loads can be given again

Fastening Plate

- Data from old files is now moved fully, e.g. loads are shown correctly in load table and in calculation results
- Modifications for design case are again possible

Date of release 25.10.2016, 1.0.2.66

Peikko Designer[®] Column Connection link to Tekla

Now it is easy and reliable to export Peikko Designer[®] Column Connection design to Tekla:

1. Make your design in Peikko Designer[®] Column Connection.
2. Click *Export Selected Case(s)* in *Cases Overview* window
3. Save export file
4. Open *PeikkoColumnConnection* -plugin in Tekla
5. Select file location in dropdowns and click *Apply* and *OK*
6. Click footing and column in your Tekla model, and click two point showing x-direction

You will have Anchor Bolts and Column Shoes with needed supplementary reinforcement and grouting into your model according to design case. You can have several design cases in one file. The selection of which of the cases is applicable to model, can be selected in plugin. Plugin includes also tutorial video.

Tekla plugin can be downloaded from Tekla Warehouse. This is the first step of link and it includes concrete parts, so steel columns with supplementary reinforcement for bolts is excluded.

Date of release 8.7.2016

Column Connection

- It is again possible to calculate and see M-N resistance diagrams without inputting loads.

Fastening Plate

- Stud head thickness of JPL fastening plates has been changed. Also the stud heads are now correctly drawn in printouts.

Punching Reinforcement

- The calculation of reinforcement ratio has been changed.

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Date of release: 11.4.2016**General**

- Croatian language added

Column Connection

- ETA design: calculations without bending moment, but internal forces occur, and using National Annexes of Finland or Germany, are now calculated correctly

Punching Reinforcement

- ACI design: calculation of studs adjusted
- ETA design: calculation of minimum reinforcement ratio adjusted

Date of release: 4.2.2016**Column Connection and Fastening Plate**

- Pasting load combinations to load table is no more crashing the software.

Date of release: 3.2.2016**Column Connection and Fastening Plate**

- Decimal separator in load table is usable again.

Date of release: 29.1.2016**Technical Update**

Release includes change to use .NET Framework 4.6 -version and a certificate update.

We ask you to pay attention that you'll have required Framework version in your computer to run Peikko Designer[®] after coming technical update. You can find more information from our newsletter.

General

- Links to Peikko web page updated
- General behavior improved

Column Connection

- Coordinate and load axes are shown more clearly
- If status Chosen is selected, load cases cannot be added
- When steel column has eccentricity, N-M diagrams are visible in results
- Error regarding amount of bolts is dwg is corrected
- Calculation –button in *Fire Design*-tab calculates everything also from *Load Cases*-tab
- Old design files with Dutch design can be opened

Fastening Plate

- Coordinate and load axes are shown more clearly

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Punching Reinforcement

- DSA product code modified to be more user friendly
- ACI based calculation with openings improved
- Improvement on how Imperial and metric units are shown

Date of release: 24.4.2015**Punching Reinforcement**

Design based on ACI 318-14 including design with openings.

Date of release: 2.2.2015**Punching Reinforcement**

Design based on ACI 318-11: Design of DSAR is now available with imperial units.

Date of release: 28.5.2014**General**

- **Help tab**

From Help tab you can find additional information regarding products, link to this page and feedback form to contact Peikko.

Column Connection

- **Design codes**

You can select from two different design methods to find best solution for your design case:

1. Design based on connection performance and resistance

This design method refers to both EN-standards and test results (ETA13/0603). It offers fire design for cases where HPKM Column Shoes are used and takes account stiffness of the joint. In large experimental test series behavior of the whole column connection with several anchor bolts, column shoes and casted joint was verified:

- stiffness
- normal force resistance
- bending moment resistance
- shear force resistance
- fire resistance

2. Design based on product resistances

This design method refers to local standards/EN-standards with resistances based on local product approvals. Column Connection can be designed using these, but it doesn't allow e.g. fire design for HPKM Column Shoes. Netherland national design included.

If you are opening old project file which is made using previous Peikko Designer version, you can make selection do you want use previous or new design method.

- **HPKM Shoe type update**

31.10.2016

HPKM Shoe pictures are updated to be according to ETA. Picture does not affect to the design results of old or new project.

- **Concrete failure check table**
There is now only one result table instead of two tables. The content is improved to be more informative.
- **Splitting reinforcement arrangement**
It is possible to add bars on side of the foundation to prevent splitting crack. Also additional top surface bars can be added.
- **Anchorage of long bolts**
As a default stirrups are calculated for full resistance of bolt and using current lap length with concrete grade C25/30. Usage ratio of current lap length is shown and it can be increased by reducing stirrups.
- **Short bolts**
Anchoring stirrups of short bolts in foundations are from top to bottom of the foundation. And grouting thickness default follows Technical Manuals.
- **Fire design**
Fire design is possible when using Connection design and HPKM Column Shoes.

Punching Reinforcement

- **Design based on ETA-13/0151**
Design of PSB for footings is now available. Automatic evaluation of soil pressure effects for footings and ground slabs is also available.

The effect of slenderness on the punching resistance of the slabs has been demonstrated by our experimental research. Research results can be taken into account in design by selecting the option "Evaluate the influence of the span on $V_{Rd,max}$ ".

- **New design codes added**
Design following Swiss SIA 262:2013 and the Lithuanian National Annex of EN 1992-1-1 is available.
- **New report**
You can print report with equations and references to relevant design norms.

Fastening Plate

- **Calculation result table**
It is now clearer to get over all look at the results before printing report.
- **Several small improvements**
We have made several small improvements to this module to make it more comfortable to use.