ETABS MATE

Concrete Structure Detailer
Software Catalogue

FARASA Engineering Group
website: www.FARASAEG.ir
website: www.ETABSMATE.ir

Document No. 1509112814

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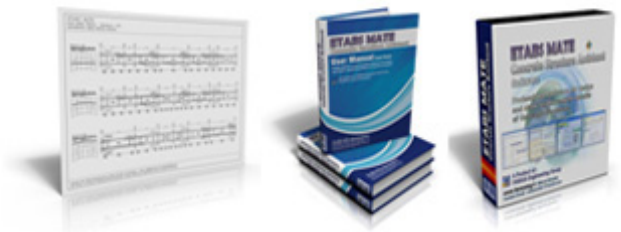
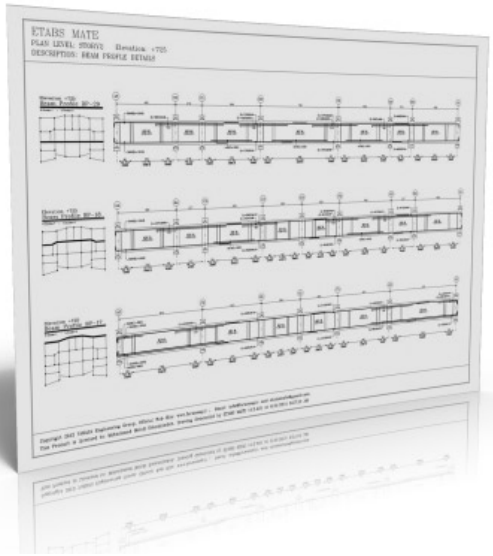


ETABS MATE
Concrete Structure Assistant Software



ETABS MATE

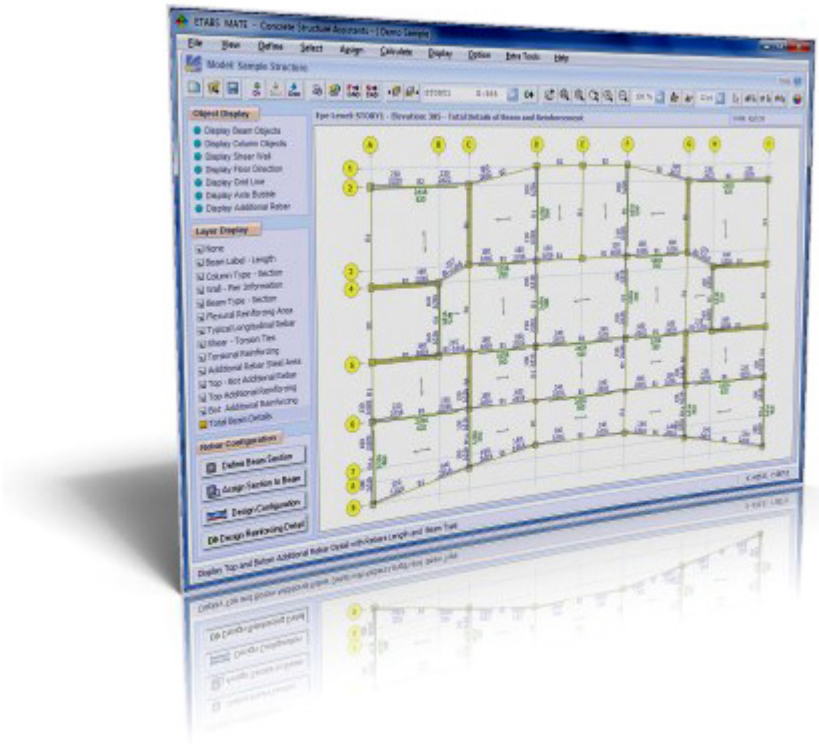
Professional Concrete Structure Detailer Software

This software is a powerful and very quick tool for automatically design and draw reinforcement details of concrete structures in a developed, simple and user friend graphical interface in according to building modeling and design results of ETABS software.

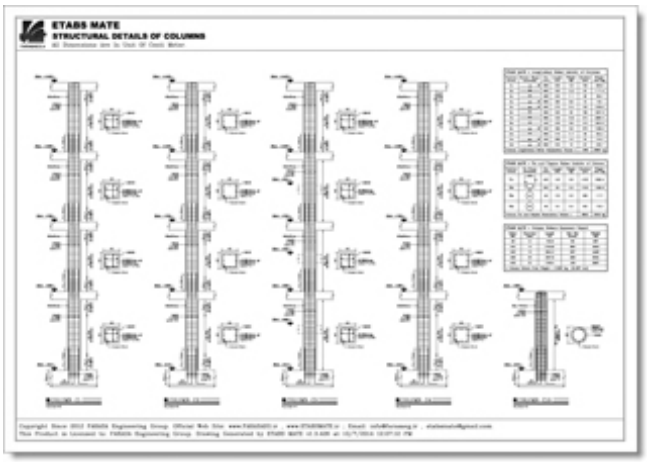
By using this software you can preview your structure model in the graphical user interfaces, design reinforcement details and then generate structural drawings of your projects in few seconds. Also you can generate structural drawings of your model according to envelop of any number of design files. Software can save generated structural drawings in the AutoCAD drawings file format.

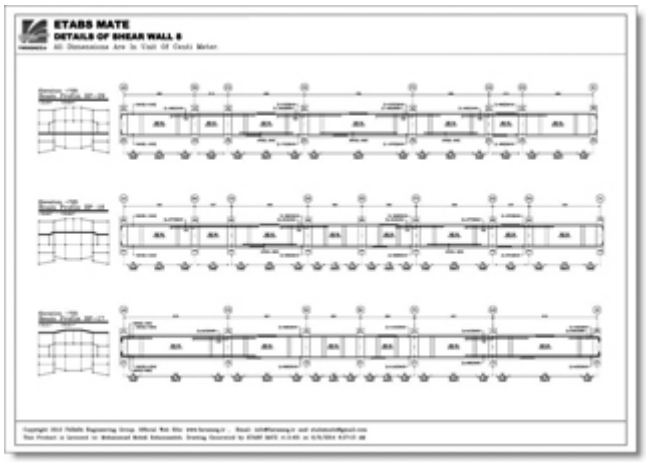
In addition ETABS MATE can prepare several kinds of reports such as structural material list according to element type or story sequence and other useful reports.

ETABS MATE
Concrete Structure Assistant Software



In order to using ETABS MATE software for concrete structure detailing, the project must be model, analyze and design in the ETABS first. Specific instructions or restrictions are not required for labeling or naming the elements or frame sections that they are using in the ETABS modeling. And you can do modeling of your structure in the ETABS without any restrictions or any limitation in any way that you feel comfortable. After the modeling and design processes was completed and when all results were satisfactory and you decide to start the structure detailing, the whole process of structure reinforcement design and generating structural drawing will be completed in just a few minutes by using the ETABS MATE software.





ETABS MATE
Concrete Structure Assistant Software

Features and Capabilities

- **Incredibly speed up reinforcement design and preparing structural drawings process.**
  (about 1 second for a building with 5000 m^2 of area)
- **Compatible to all versions of ETABS Software.**
- **Compatibility of generated drawings with all versions of AutoCAD Software.**
- **Simple Procedure for importing structure from ETABS to ETABS MATE.**
- **User friendly and very simple graphical interfaces.**
- **Independent software without any dependency to other programs.**
- **Equipped with powerful and very quick internal drawing engine.**
- **Easy to edit drawings that generated by software.**
- **Previewing all computed reinforcement details of with a very convenient way in the plans of structure.**
- **You can generate structural drawings with envelop of several design files of one structure.**
- **Automatically calculate splice length of rebar or use user defined multiplayer for calculate them.**
- **Auto labeling all rebars in structural drawings.**
- **Auto generate rebar list table include size, shape, length and weight of rebars in the structural drawings.**
- **Automatically read all defined frame section and wall section from etabs model file and regenerate them.**
- **Ability to define new section or edit properties of section that automatically generated by software.**
- **Ability to define new section or edit properties of section that automatically generated by software.**
- **All reinforcing design parameters can be configured in the software.**
- **Ability to change reinforcing design details in software before generating structural drawings.**
- **Preparing a variety of printable reports such as weight of steel and concrete volume by elements type, story or rebar size.**

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A Brief on How to Work With the ETABS MATE

After the modeling and design processes was completed and when all results were satisfactory and you decide to start the structure detailing, the whole process of structure reinforcement design and generating structural drawing will be completed in just a few minutes by using the ETABS MATE software.

The whole process of concrete reinforcement detail design and generating structural drawings by ETABS MATE software will be carried out in just four simple steps. Here you will introduce with these four simple steps quickly.

1. **Generate Model Text Tile and Save Design Results Files of Structure by ETABS**
2. **Import Prepared Files in the First Step to the ETABS MATE Software**
3. **Adjust the Design Parameters and Run Reinforcement Details Design Procedure**
4. **Generate Structural Drawings of Project in the AutoCAD Drawings File Format**

To get more information about these steps you can download **ETABS MATE Quick Start** article from **Download Center** of official web site of software.

Quick Start

ETABS MATE Quick Start
Just in 4 Steps

Official Website: **www.FARASAEG.ir** » Download Center
www.ETABSMATE.ir » Download Center

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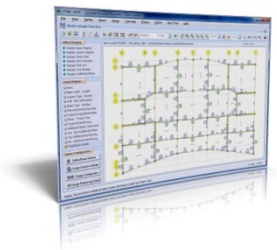
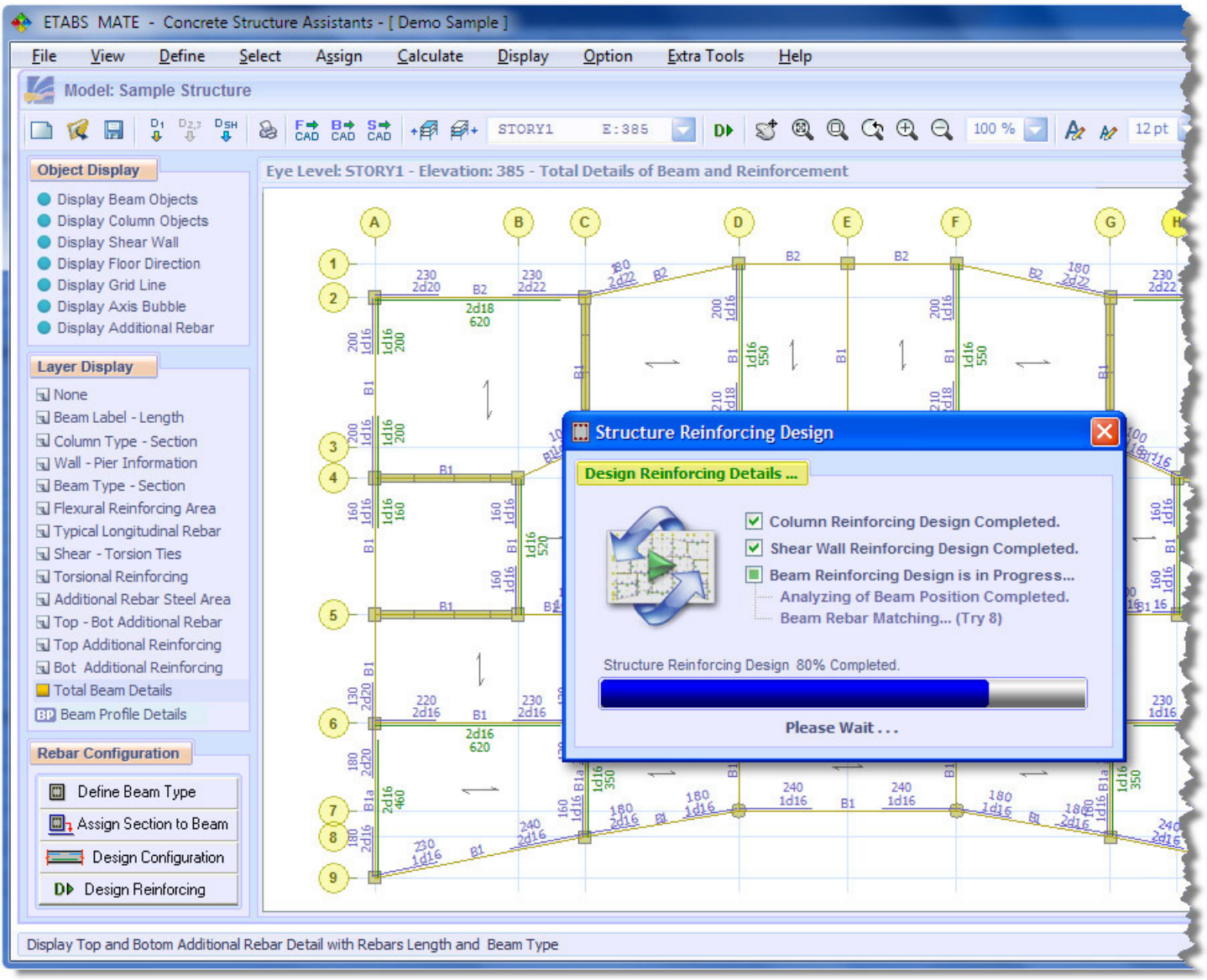


Software Screenshots

To inform more about graphical user interfaces (GUI) and functionality of the software, screenshots from different parts of the software is given below:

Screen shot of main window of software:



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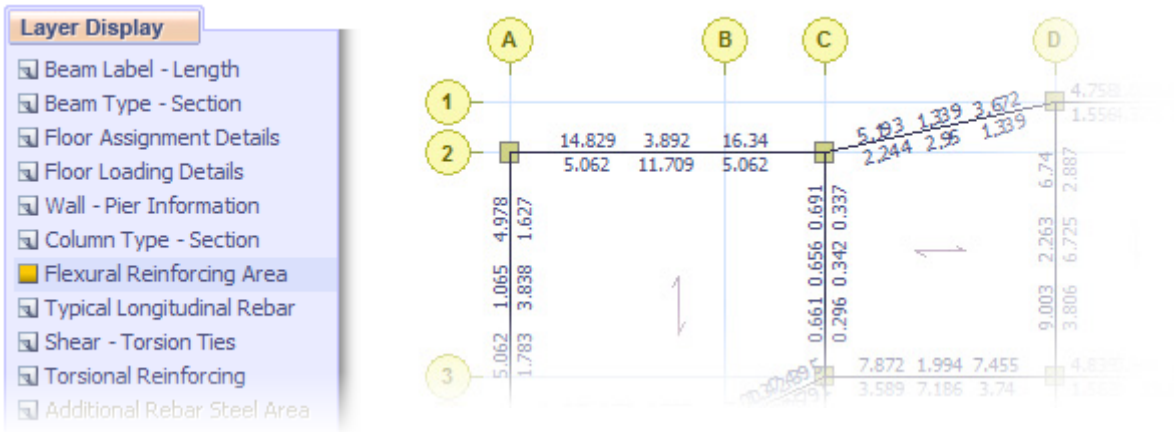
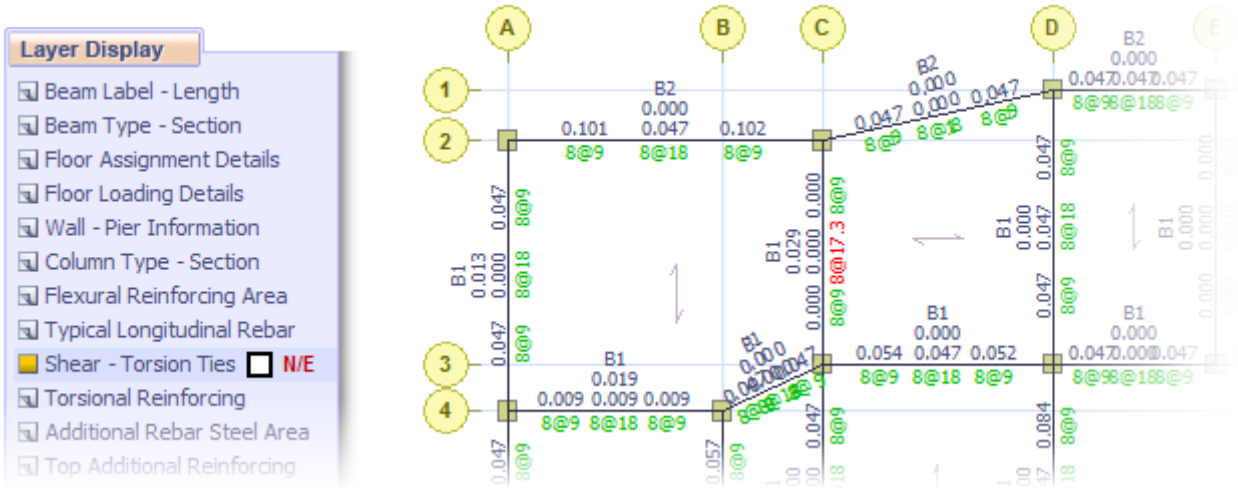
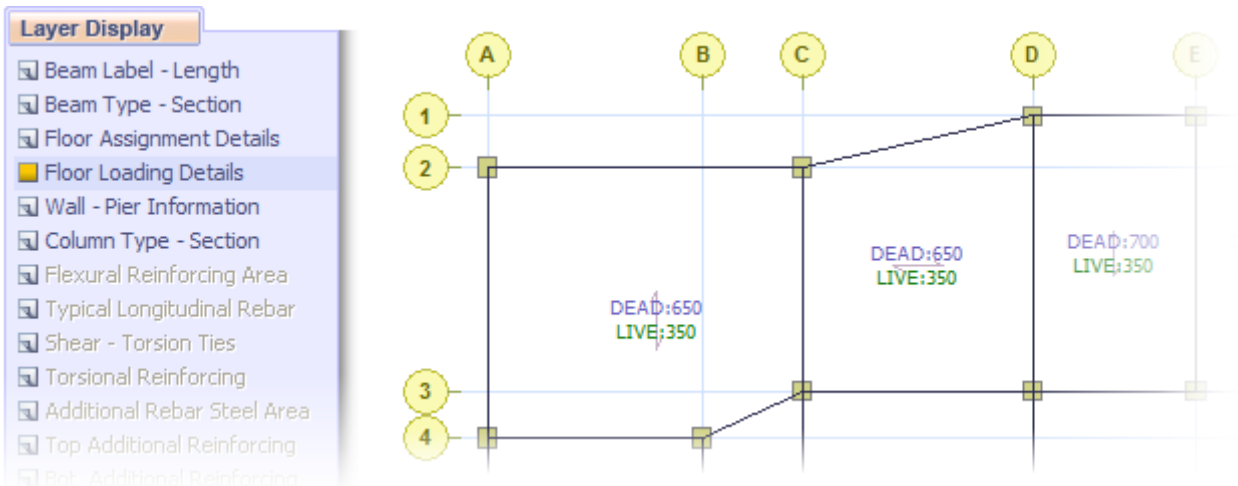
Images from main graphical area of software in several layer display mode:

By using layer display panel in the left side of software you can switch the information that displayed on the elements in the main display of software. Some of this layer has been shown in the below images.







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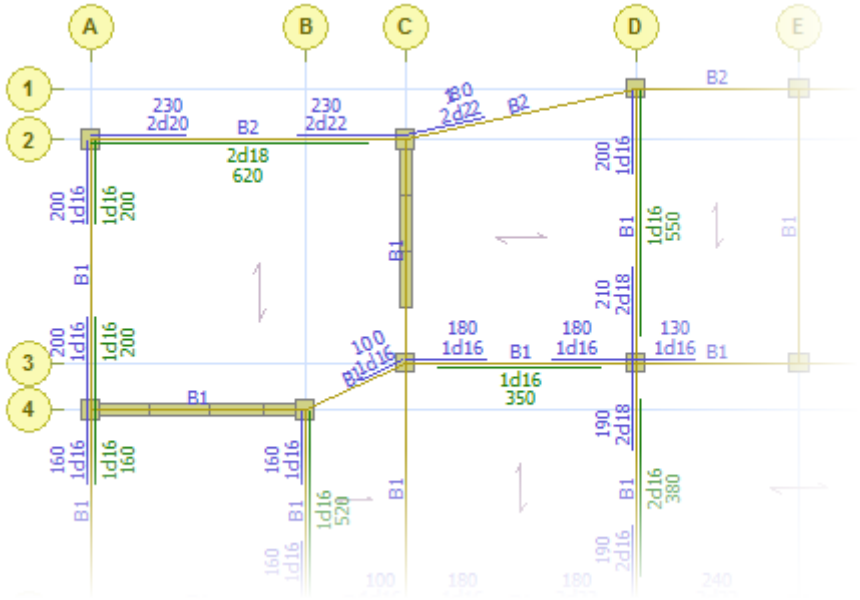
Layer Display
- Beam Label - Length
- Beam Type - Section
- Floor Assignment Details
- Floor Loading Details
- Wall - Pier Information
- Column Type - Section
- Flexural Reinforcing Area
- Typical Longitudinal Rebar
- Shear - Torsion Ties
- Torsional Reinforcing
- Additional Rebar Steel Area
- Top Additional Reinforcing
- Bot Additional Reinforcing
- Total Beam Details
- Beam Profile Details



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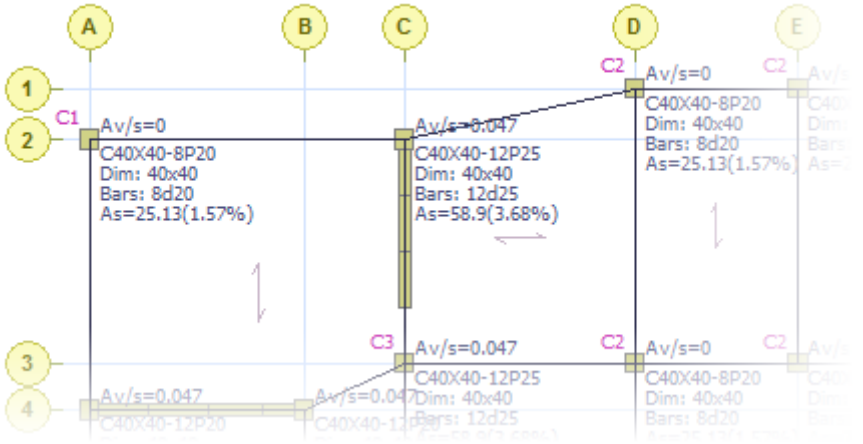

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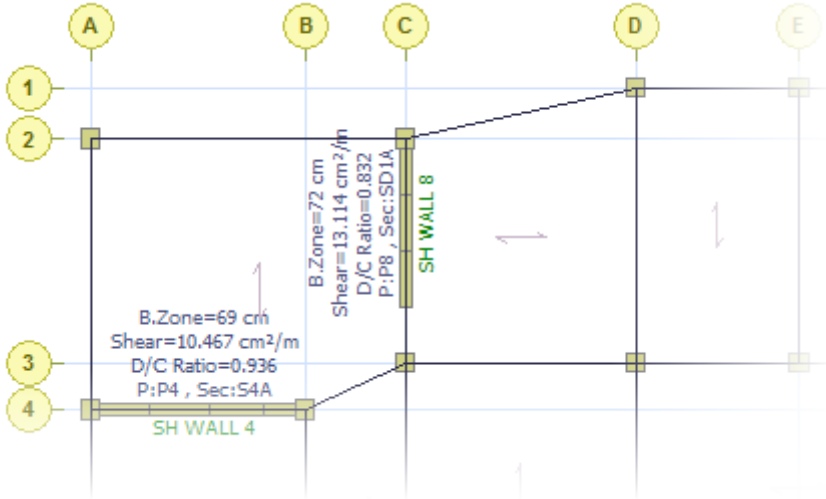

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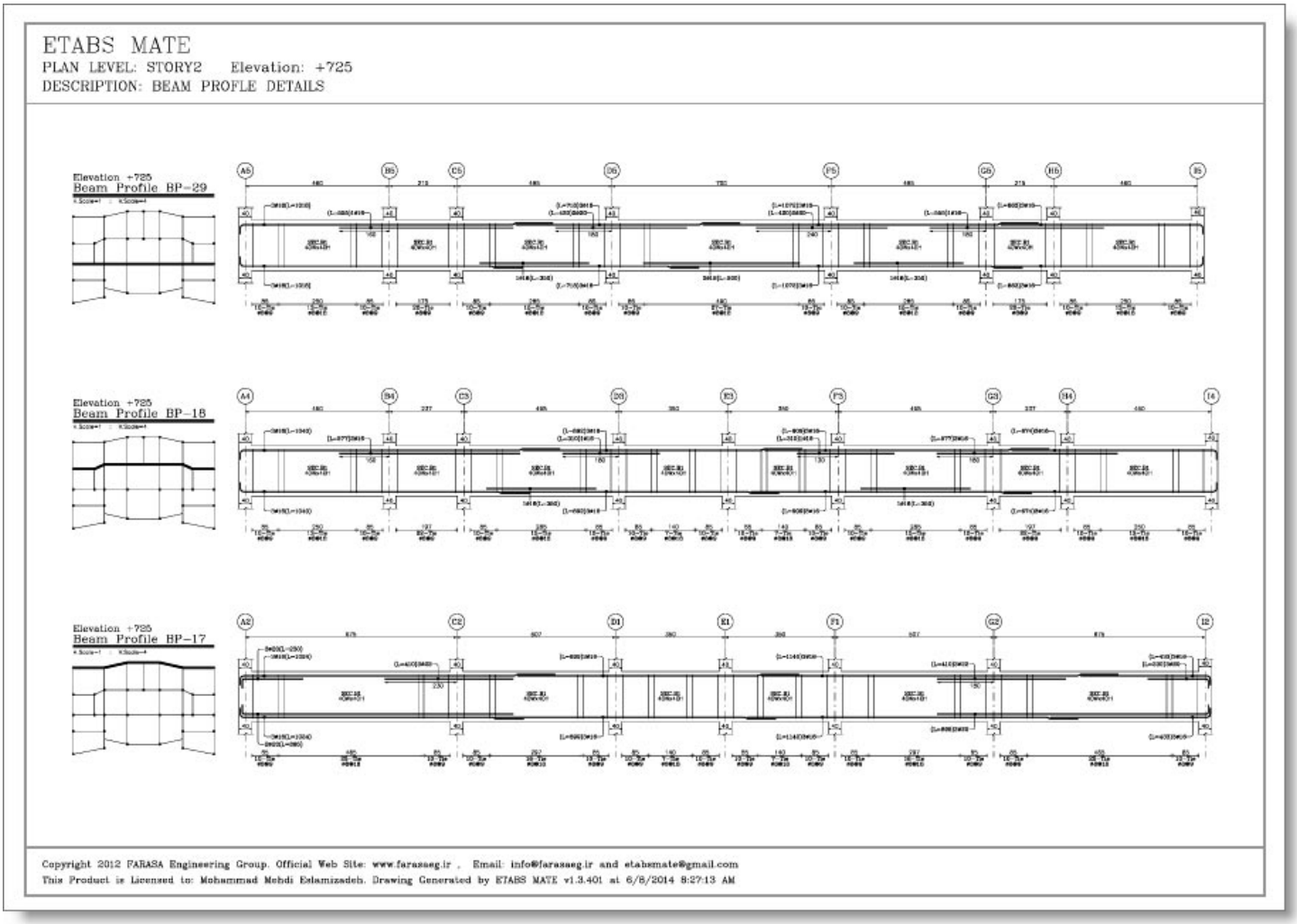
Details of the beam longitudinal profiles generated by software:

Here is a sample of some beam details drawing of a four story building that generated by software.
Total beam profile drawing details of usual buildings take only about one second.



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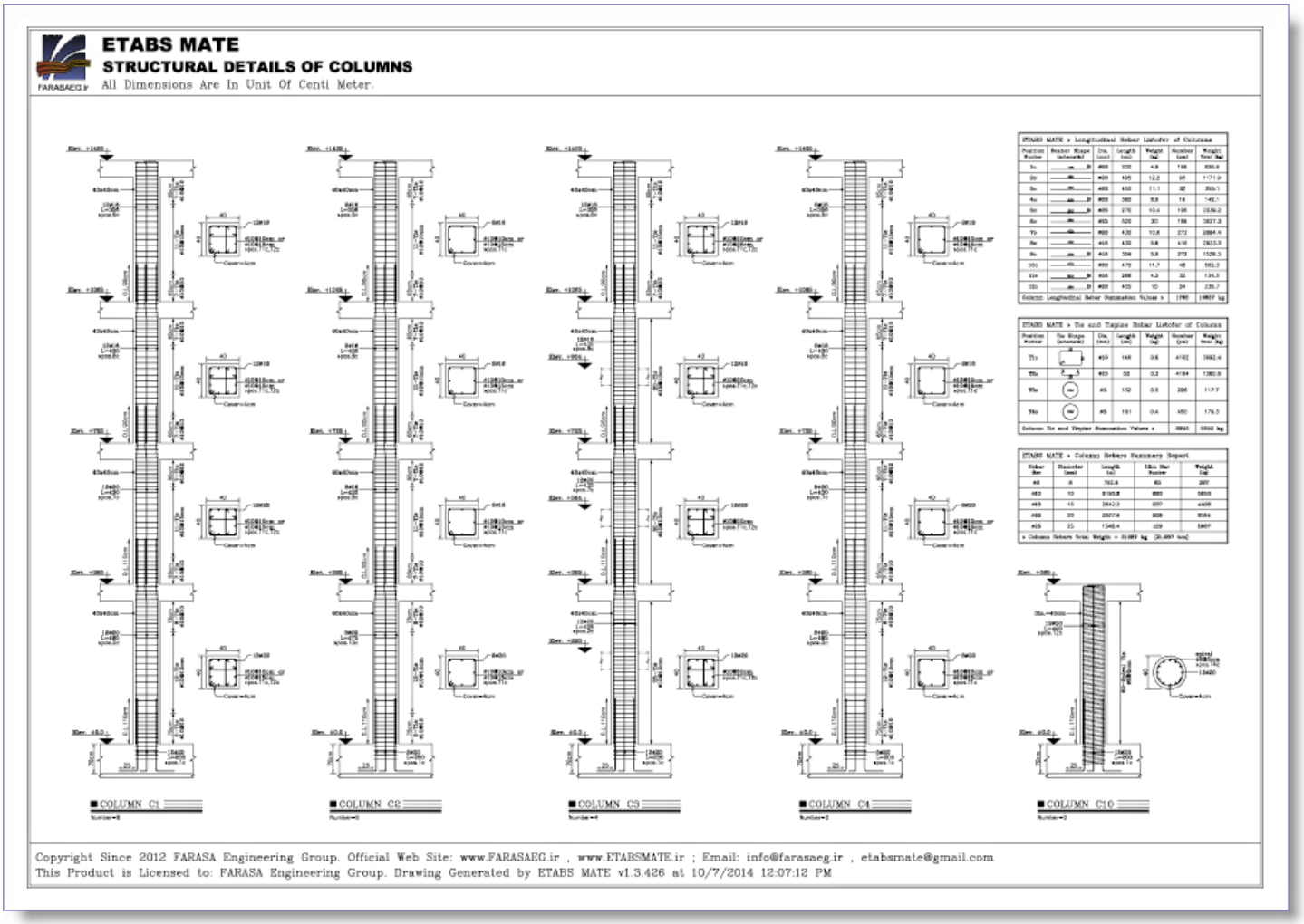
Concrete Structure Assistant Software

Drawings of the columns details generated by software:

Here is a sample of some column details drawing of a four story building that generated by software. Rebar list table of columns is also can be viewed in the image.
Drawing engine of software is very fast so that all consumed time for generating the total frame drawing detail of usual buildings take only less than one second.



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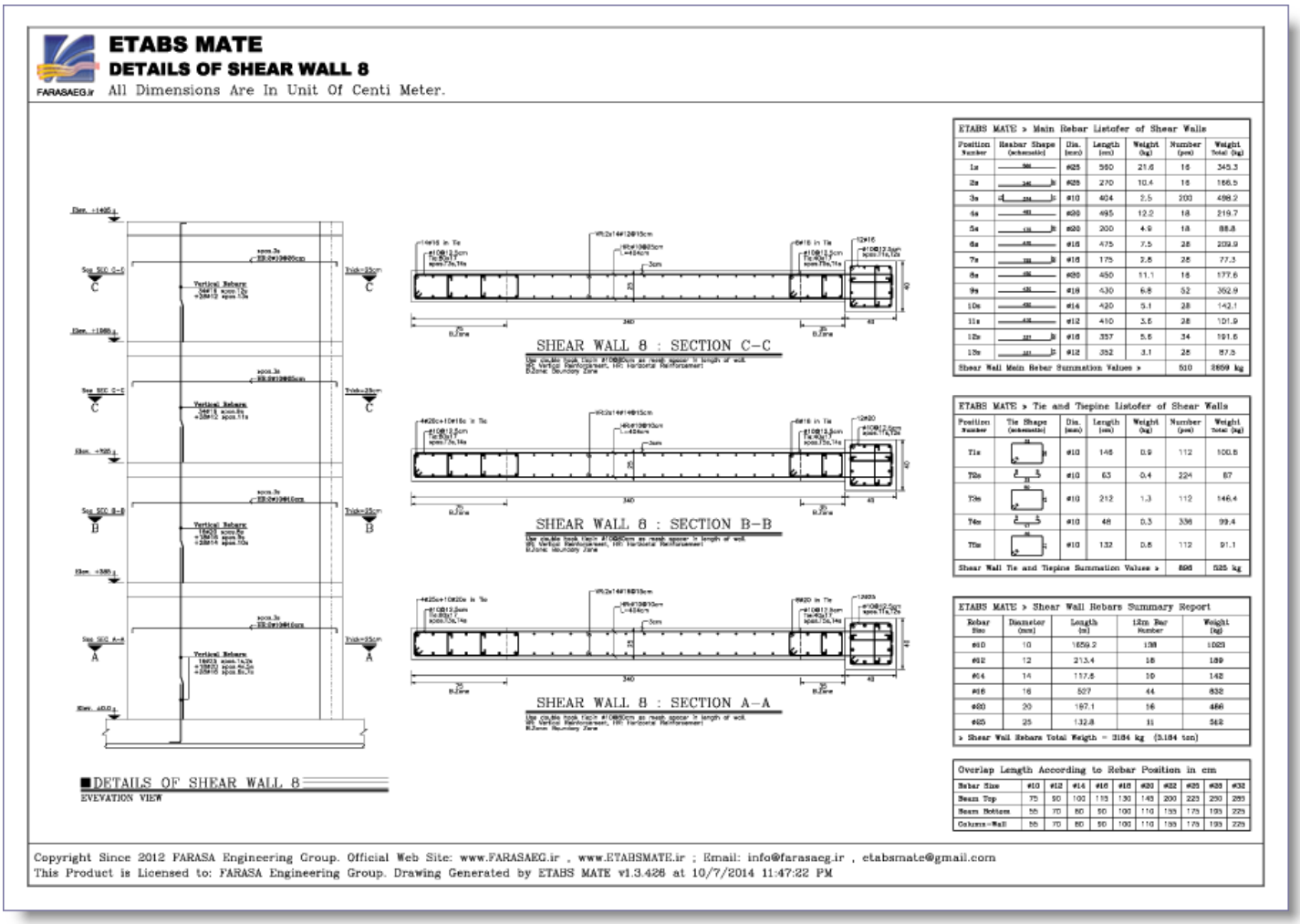
Drawings of the shear walls details generated by software:

Here is a sample of shear wall details drawing of a four story building that generated by ETABS MATE software. Rebar list table of the wall is also can be viewed in this image.
Drawing engine of software is very fast so that all consumed time for generating the total shear walls details of usual buildings take only less than one second.



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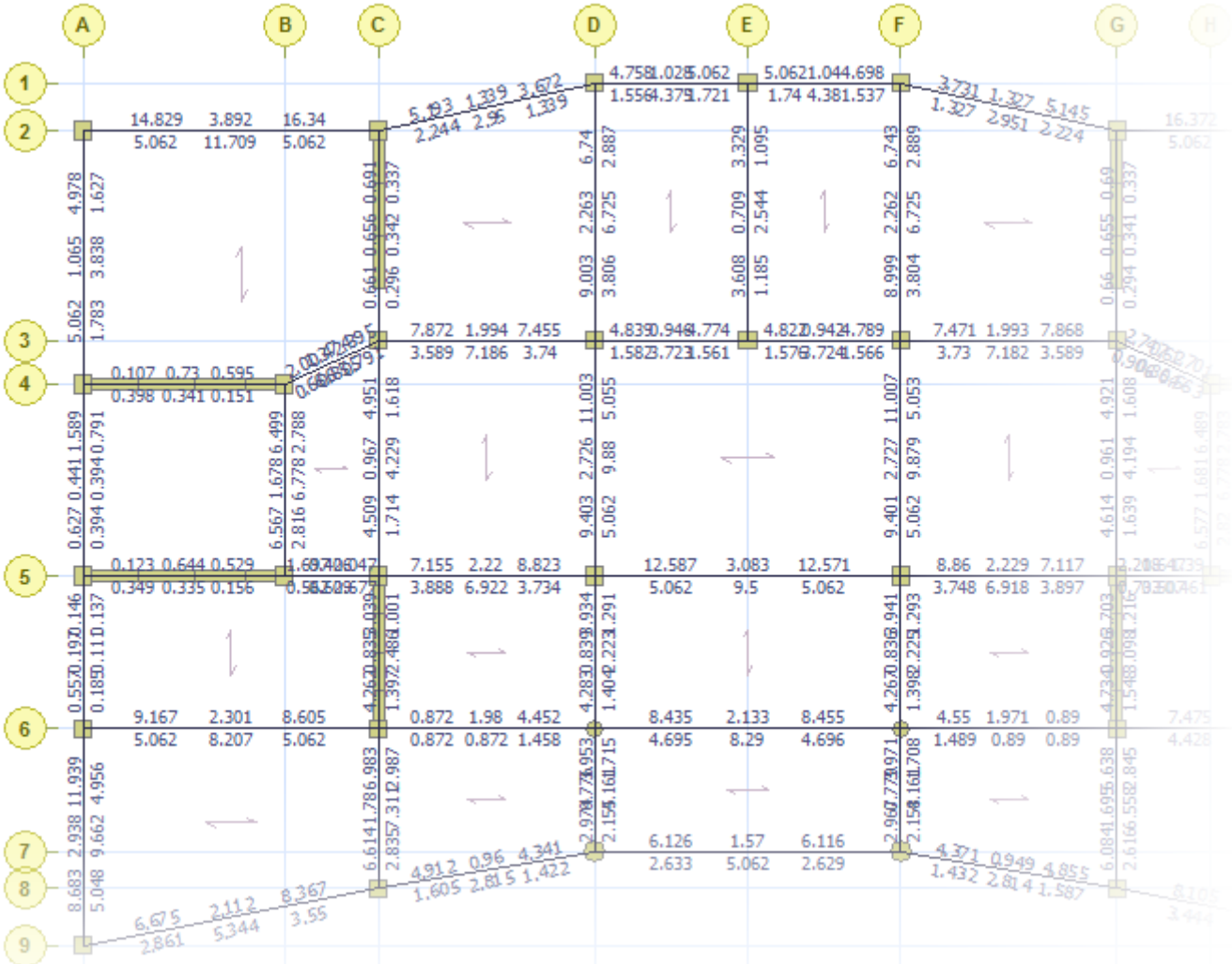
Software envelops all imported design files data and displays them on the structure:

If you have more design data files, you can import them to the software. In this case, software envelops all design data points for each position of element. So all design values that show in the software on the elements are the maximum value of all imported design data files for each position. Also software considers these maximum values of each element positions in the reinforcement details design procedures.



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All information related to the shear walls is easily visible in plan:

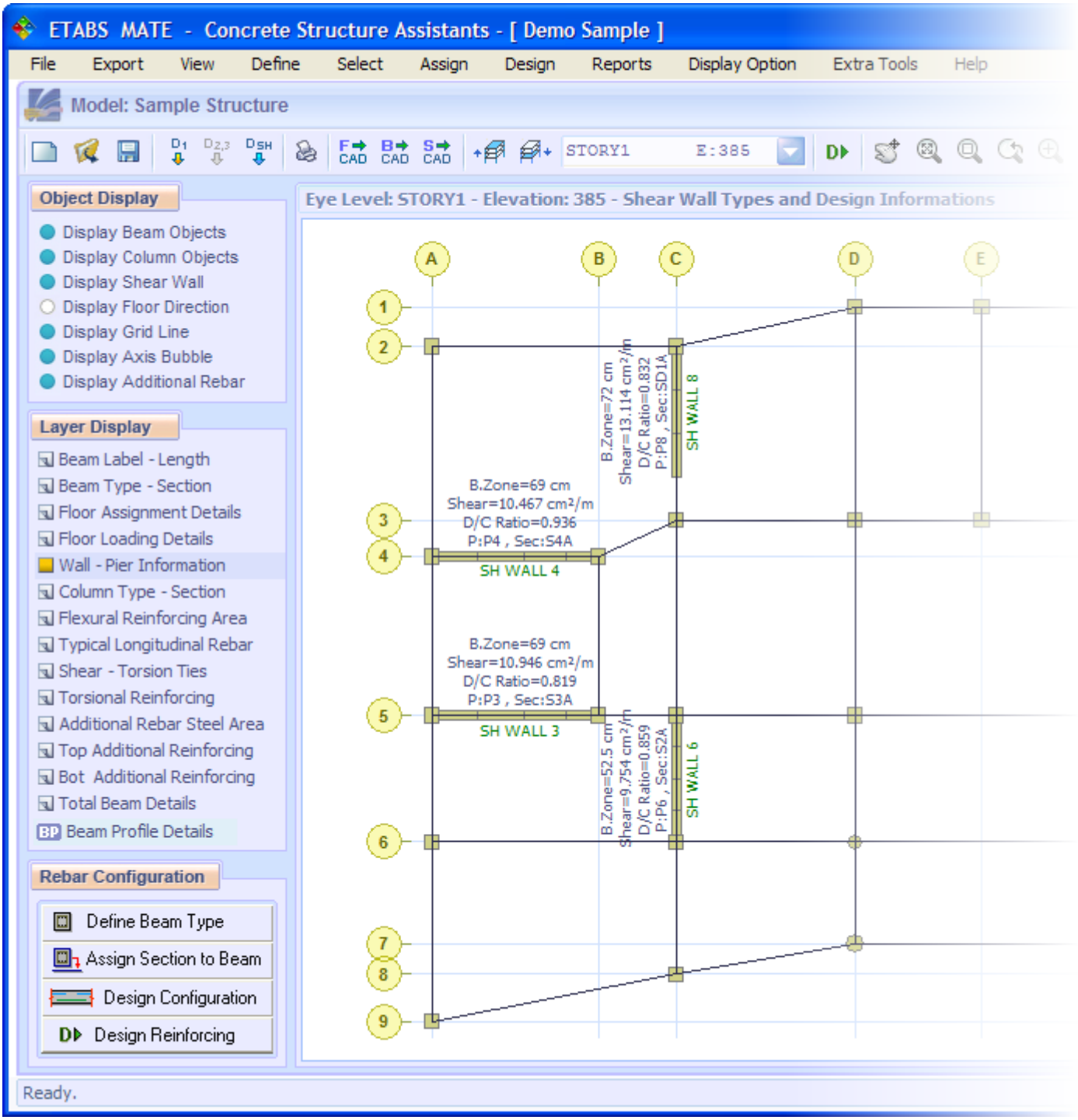

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Image of editing shear wall design details:

By click on any wall, all information that related to the selected shear wall will be show by the below interface in the all stories, this information is editable as seen in the following image:

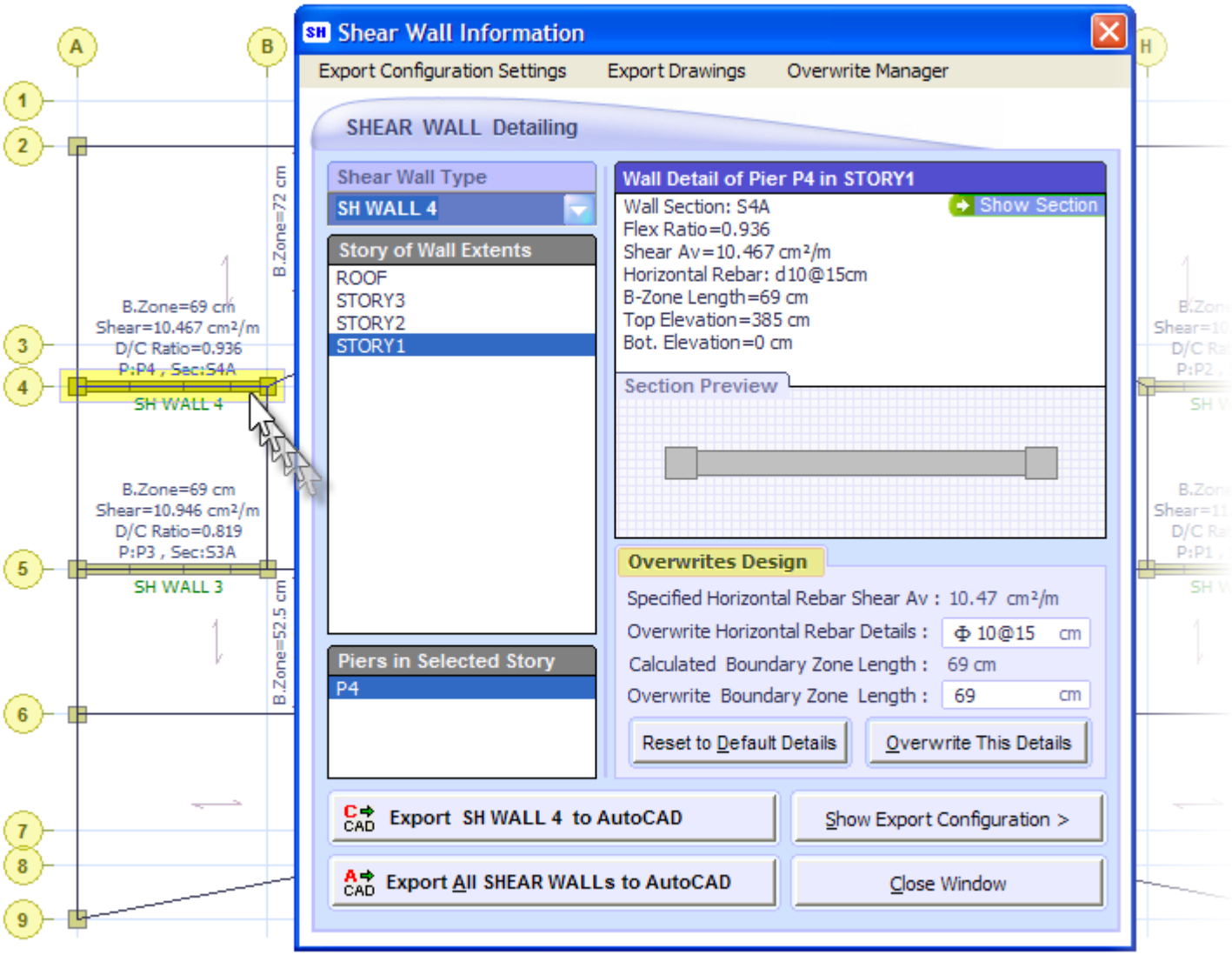

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Image of beams geometric properties interface

By click on any beam in a respective layer, all geometric information related to the selected beam will be displayed as seen in the following image:

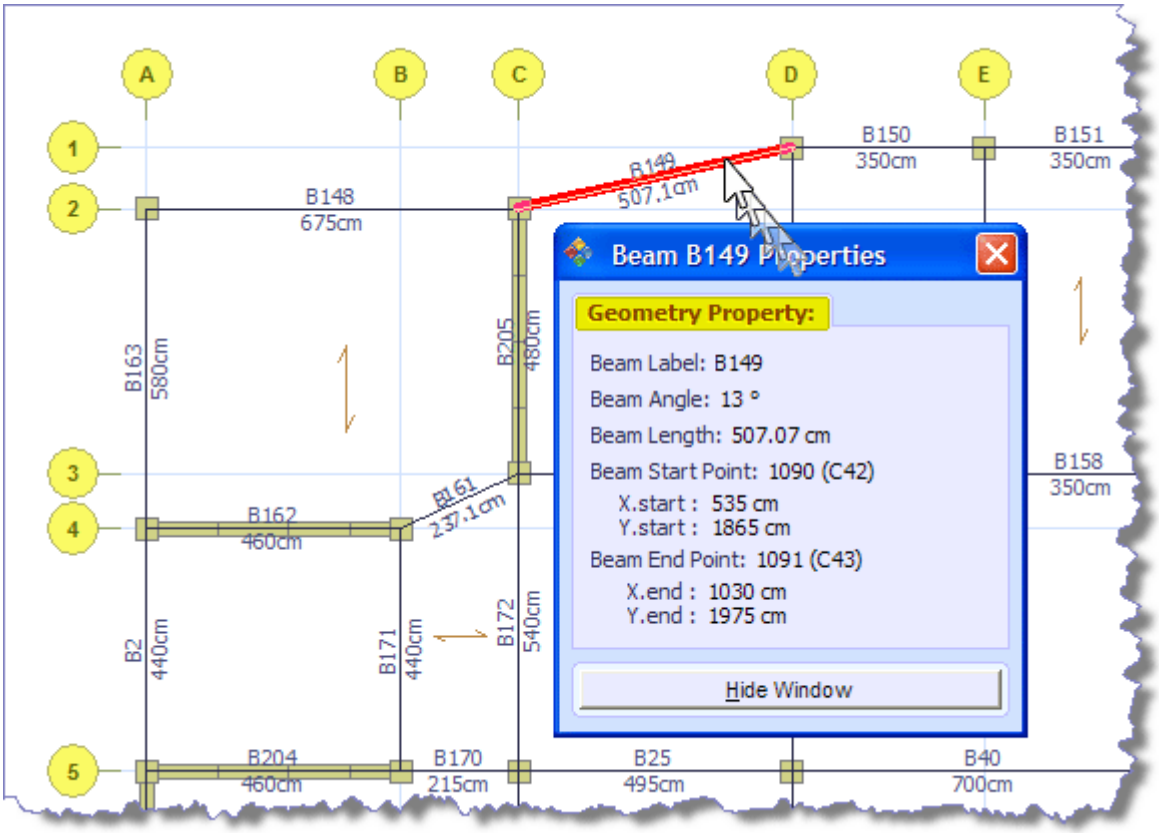
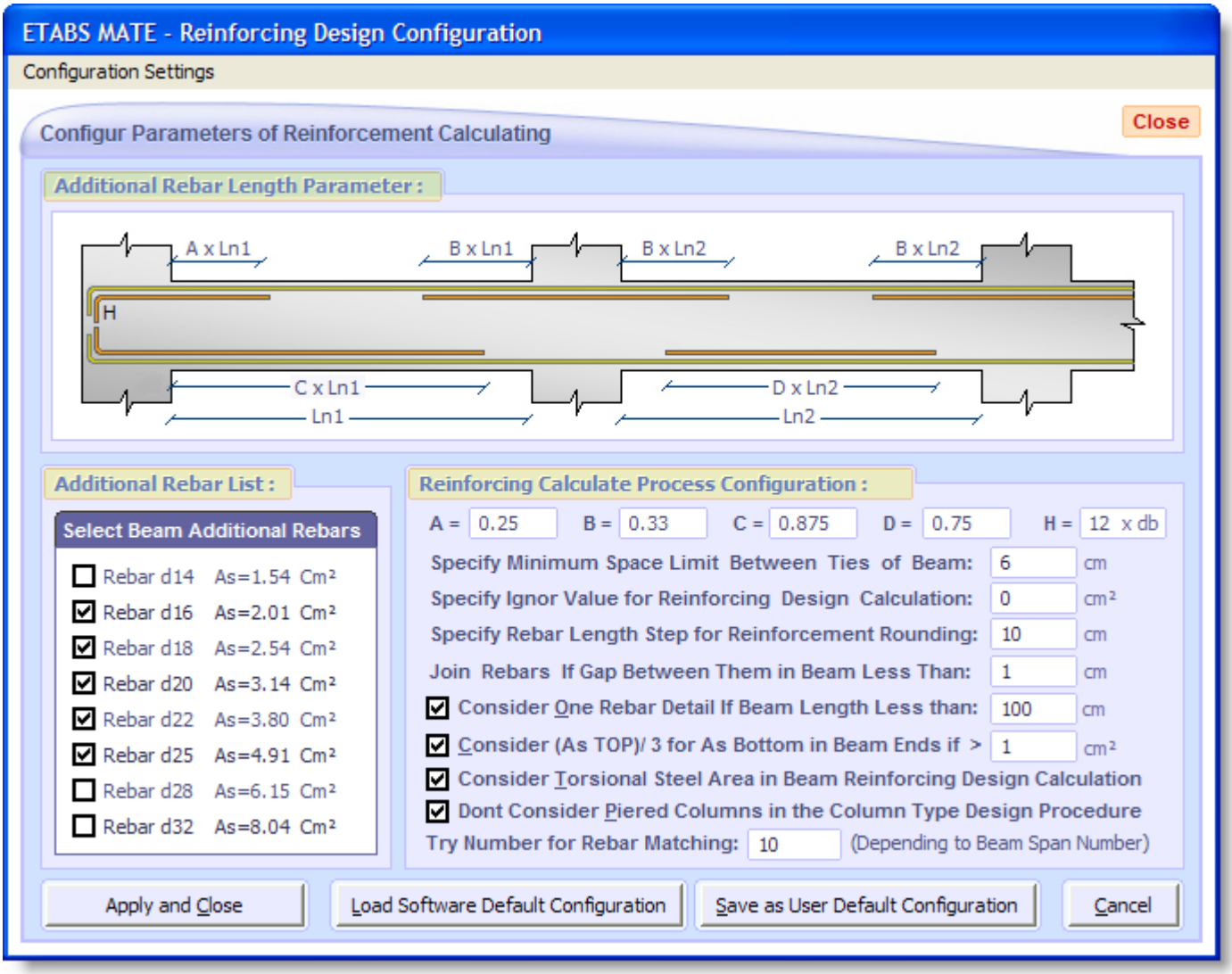


Image of how to set the parameters of the structural reinforcement design:

In this interface you can configure frame reinforcing design parameters. These parameters can be visible in the following image and you can configure them simply.



After making any changes in this interface all frame designed reinforcement details of structure frame will be reset and you must redesign reinforcement details again.

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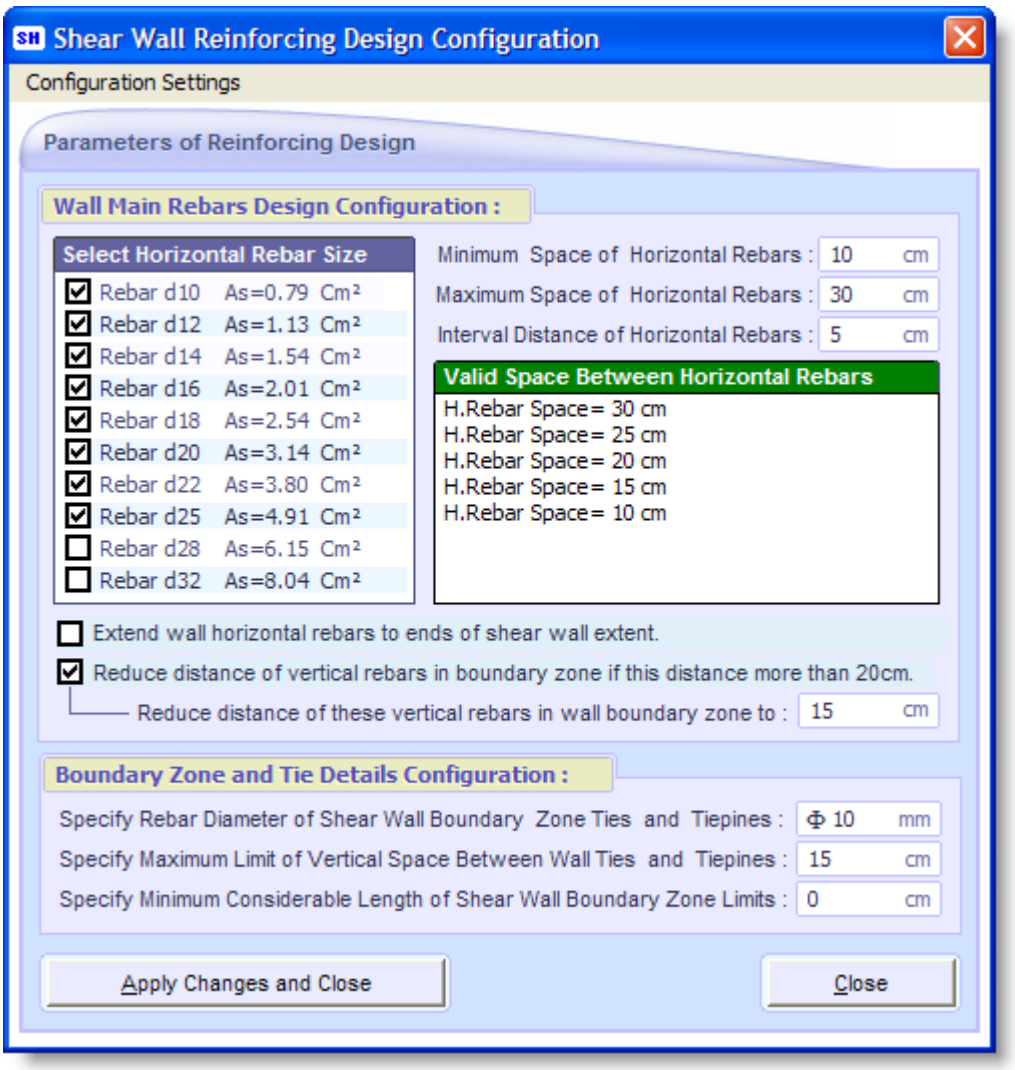
Image of how to set the parameters of the shear wall reinforcement design:

In this interface you can configure Shear Wall reinforcing design parameters. These parameters can be visible in the following image and you can configure them simply.



After changing these parameters, new configuration settings affect on the shear wall reinforcing design automatically by clicking on apply change button, and you don't need to redesign structure again.

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Image of how to assign longitudinal and shear reinforcement of the beam sections:

After importing structure model to the ETABS MATE, software automatically import all frame sections which they are used in the structure elements. Then software assigns some design properties such as type name, longitudinal and transverse reinforcements to the each type automatically as seen on the following image.
By this interface you can manage all beam types of the project and also you can view and modify each beam type properties such as type name, longitudinal rebar details and shear reinforcement details if necessary, as seen in the following image.

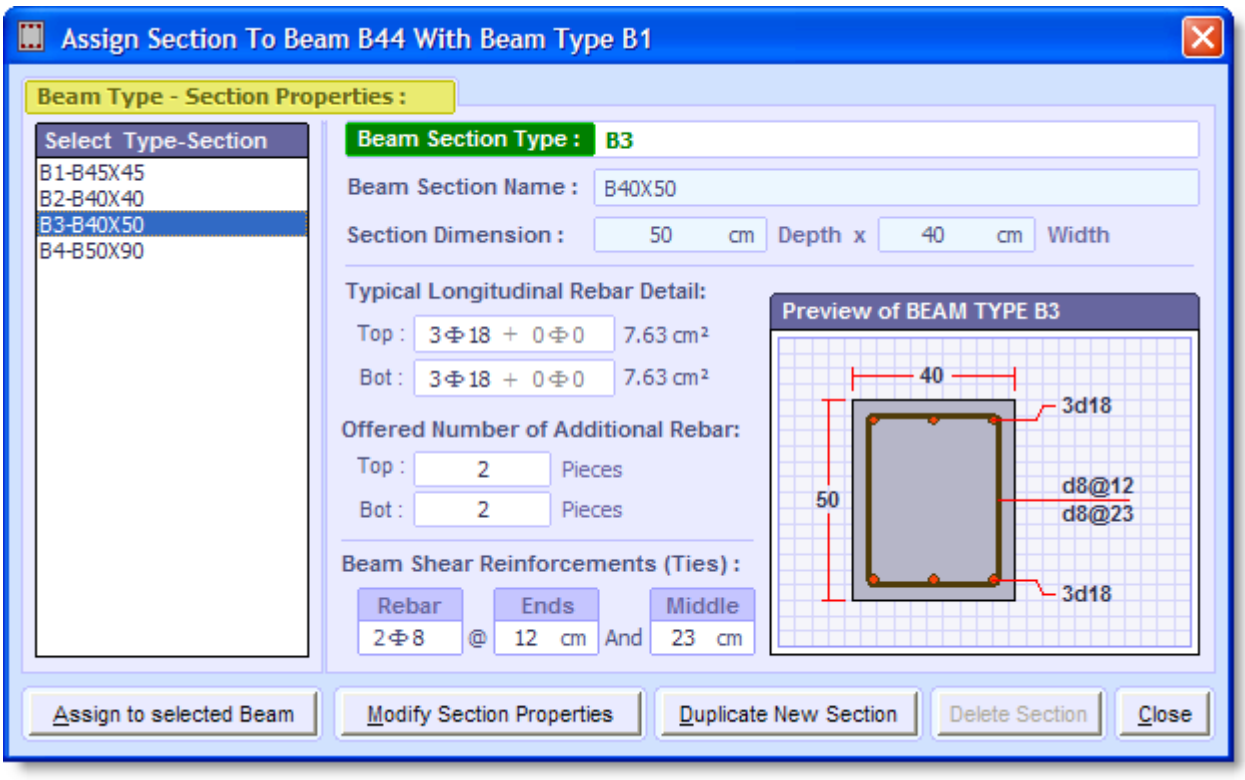

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Image of designed beam additional reinforcement details in the graphical area of software:

After the completion of the design process, software design results will be visible in the main window of software. For example in the beam additional reinforcement layer you can see number, size and length of additional rebars of beam as seen in the following image.

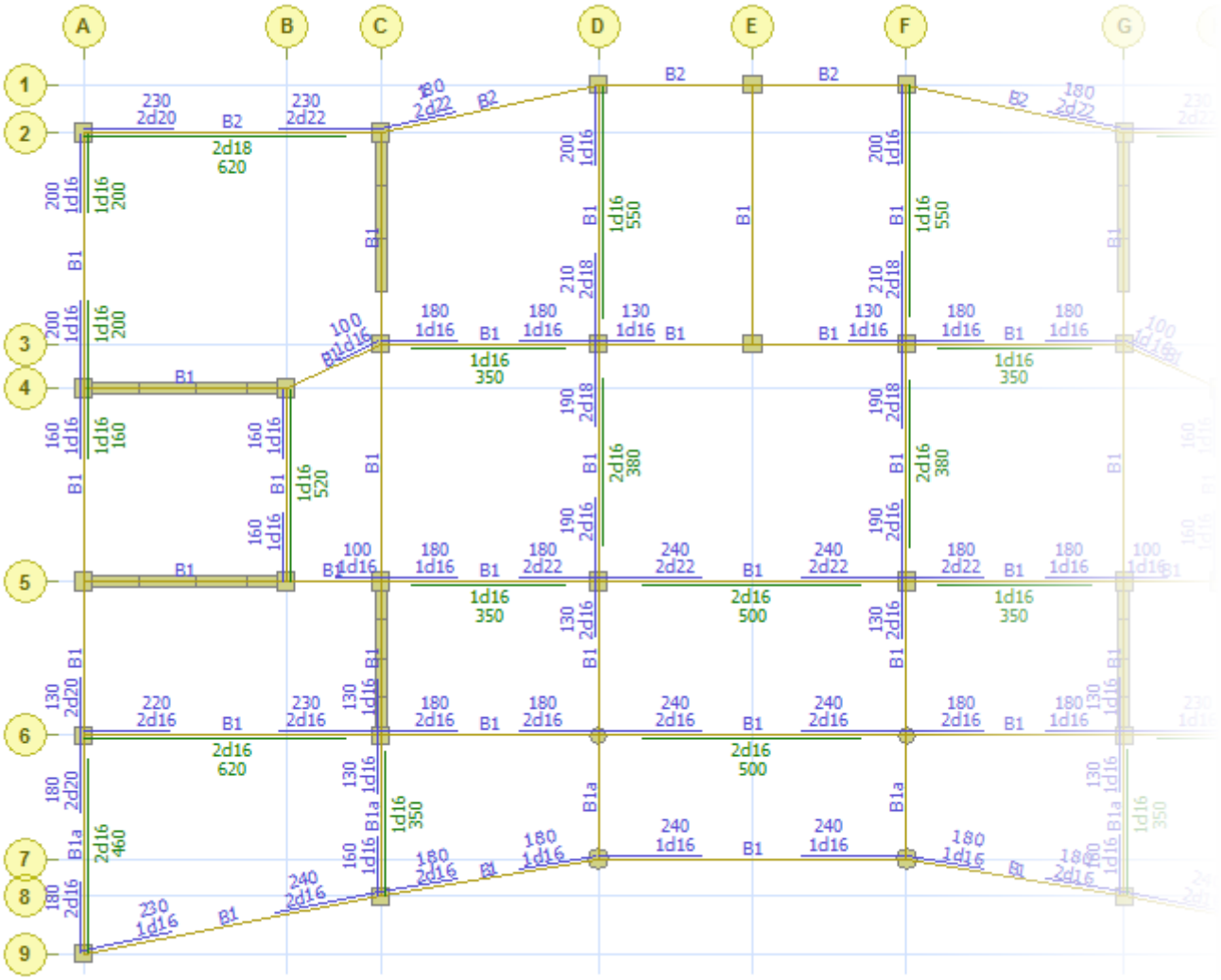

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Image of editing beam longitudinal reinforcement design details:

All reinforcement details that designed by software can be edited by the user via right-clicking on the element and the following communication window:

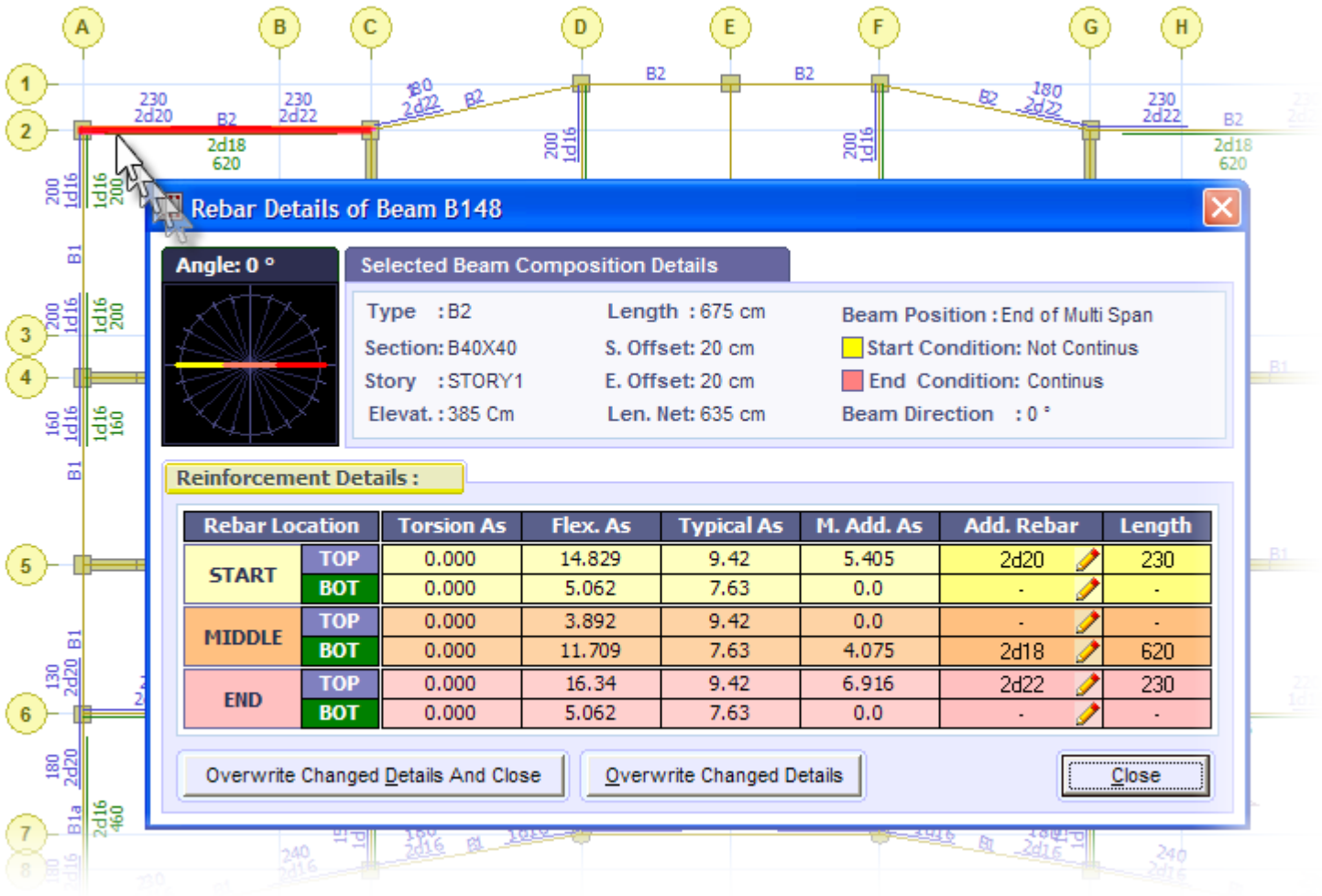

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Image of editing beam transverse reinforcement design details:

All reinforcement details that designed by software can be viewed by the user via right-clicking on the element and the following interface:

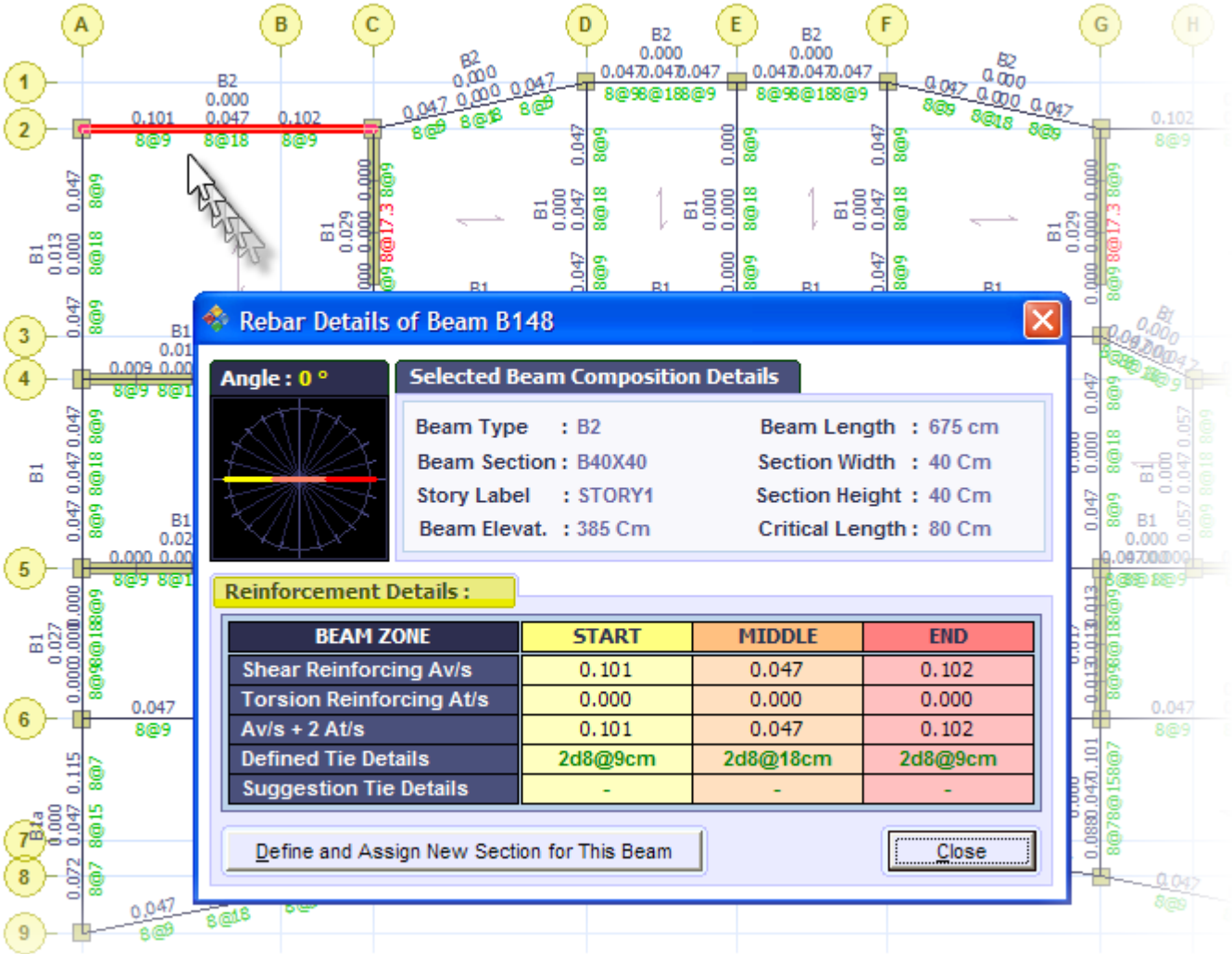

Image of generating frame drawings interface:

This interface contains frame drawings parameters as seen in the following image.
By using this interface you can configure the drawings parameters if necessary and then generate the frame drawings and save it in AutoCAD file format.

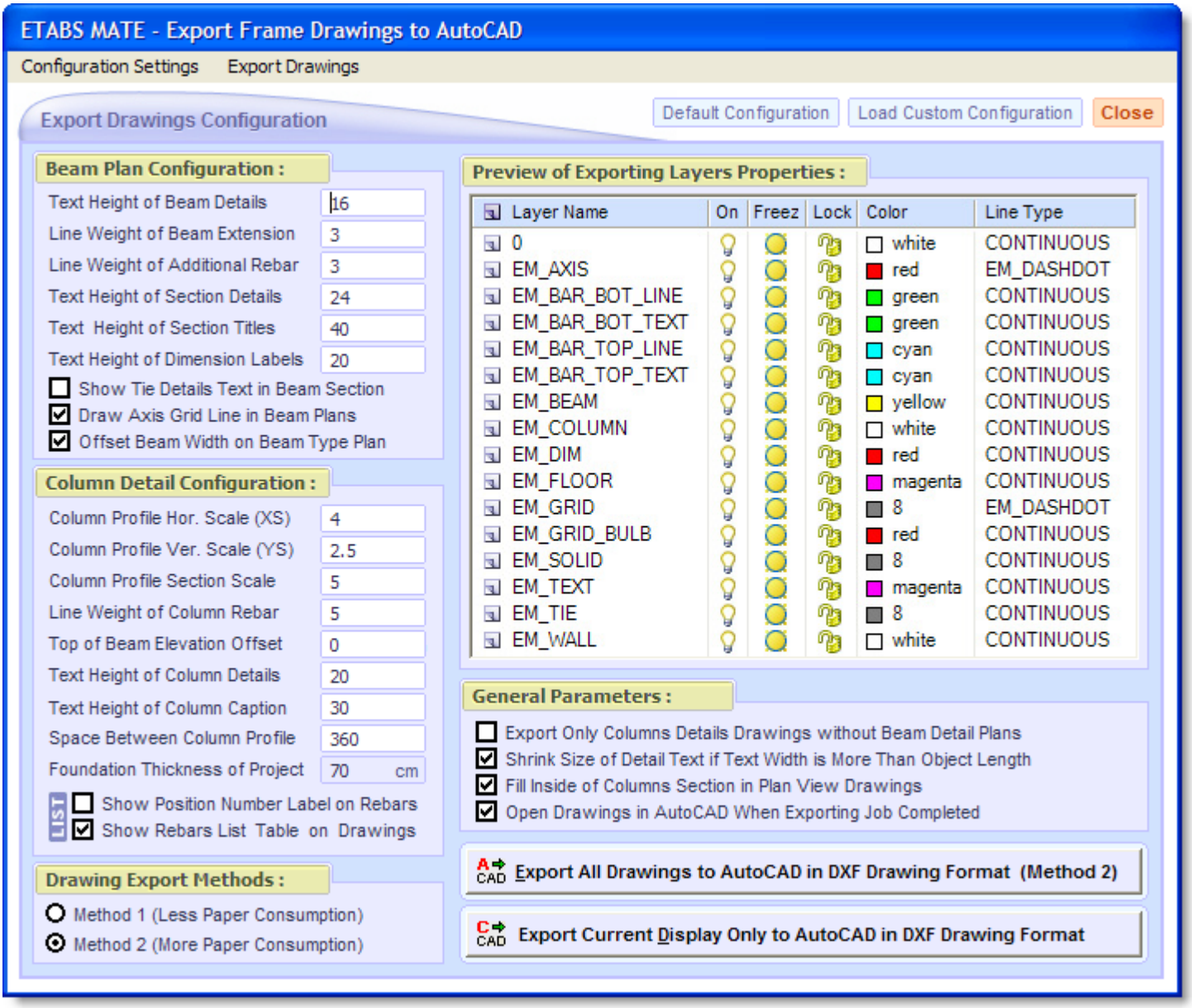

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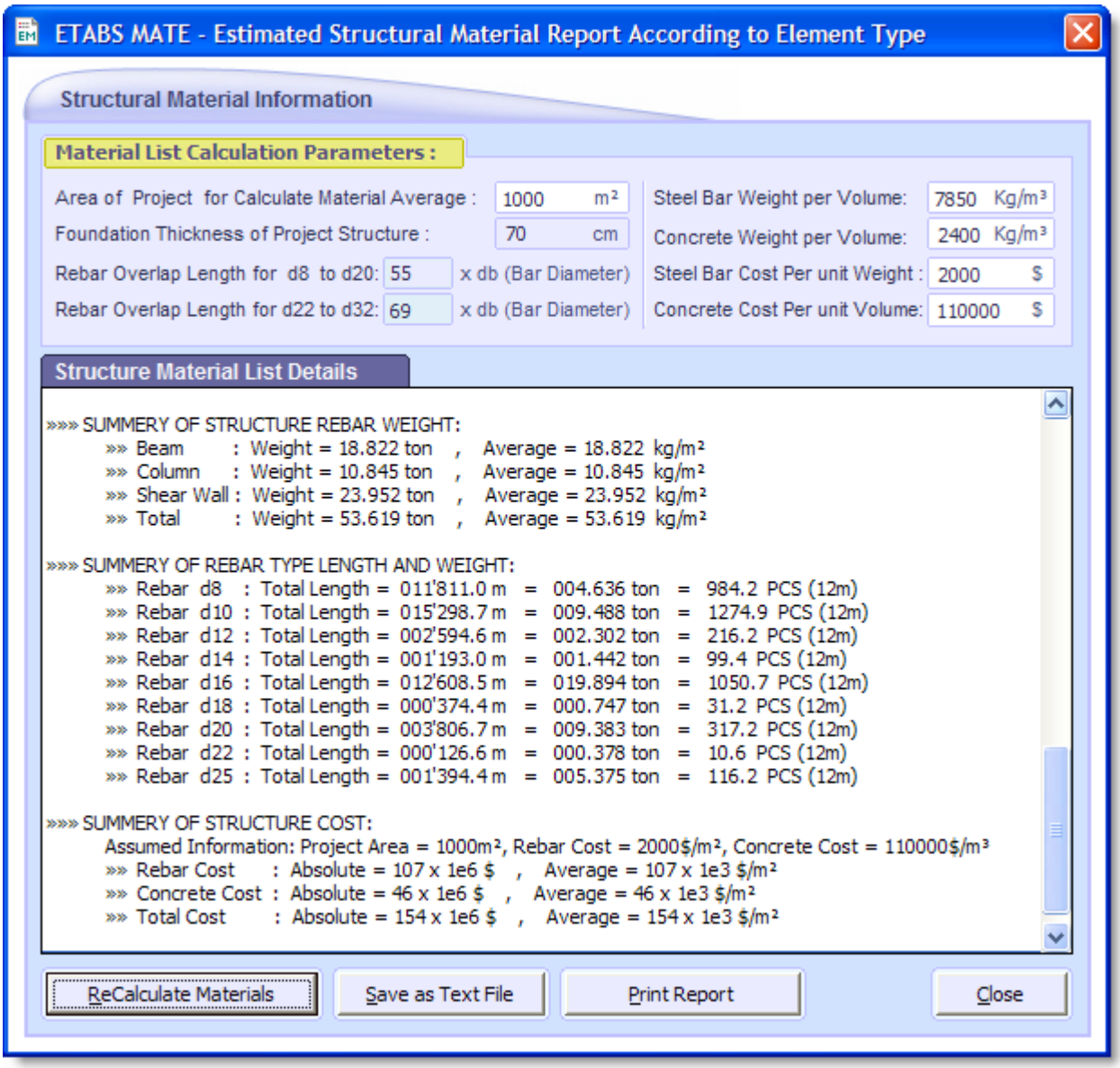
Image of material report generator interface of software:

Software can provide several reports of reinforcement weight and concrete volume of structure.
By using this interface, software will calculate material list of your project and generate its report. This report contains weight of rebar and volume of concrete of total structure by type of elements and by story sequence as seen in the following image.
These reports can be saved in text format or printed directly by software.



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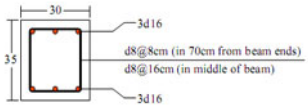
Sample of output reports that printed directly by ETABS MATE software:

ETABS MATE
Model: 3.31 > Beam Section Properties

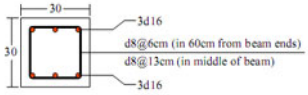
» BEAM TYPE B1

Section : B30X35
Dimension : Depth= 35 cm, Width= 30 cm
Rebar Cover : 4 cm
Flexural Reinforcement :
Top Longitudinal Rebar Detail= 3d16 TOP
Bot Longitudinal Rebar Detail= 3d16 BOT
Shear Reinforcement :
d8 @ 8 cm in Beam Ends (70 cm)
d8 @ 16 cm in Beam Middle



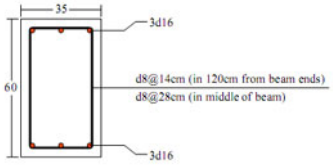
» BEAM TYPE B2

Section : B30X30
Dimension : Depth= 30 cm, Width= 30 cm
Rebar Cover : 4 cm
Flexural Reinforcement :
Top Longitudinal Rebar Detail= 3d16 TOP
Bot Longitudinal Rebar Detail= 3d16 BOT
Shear Reinforcement :
d8 @ 6 cm in Beam Ends (60 cm)
d8 @ 13 cm in Beam Middle



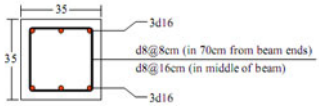
» BEAM TYPE B3

Section : B60X35
Dimension : Depth= 60 cm, Width= 35 cm
Rebar Cover : 4 cm
Flexural Reinforcement :
Top Longitudinal Rebar Detail= 3d16 TOP
Bot Longitudinal Rebar Detail= 3d16 BOT
Shear Reinforcement :
d8 @ 14 cm in Beam Ends (120 cm)
d8 @ 28 cm in Beam Middle



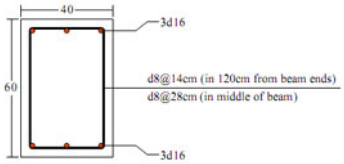
» BEAM TYPE B4

Section : B35X35
Dimension : Depth= 35 cm, Width= 35 cm
Rebar Cover : 4 cm
Flexural Reinforcement :
Top Longitudinal Rebar Detail= 3d16 TOP
Bot Longitudinal Rebar Detail= 3d16 BOT
Shear Reinforcement :
d8 @ 8 cm in Beam Ends (70 cm)
d8 @ 16 cm in Beam Middle



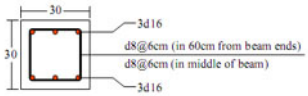
» BEAM TYPE B5

Section : B60X40
Dimension : Depth= 60 cm, Width= 40 cm
Rebar Cover : 4 cm
Flexural Reinforcement :
Top Longitudinal Rebar Detail= 3d16 TOP
Bot Longitudinal Rebar Detail= 3d16 BOT
Shear Reinforcement :
d8 @ 14 cm in Beam Ends (120 cm)
d8 @ 28 cm in Beam Middle



» BEAM TYPE B2a

Section : B30X30
Dimension : Depth= 30 cm, Width= 30 cm
Rebar Cover : 4 cm
Flexural Reinforcement :
Top Longitudinal Rebar Detail= 3d16 TOP
Bot Longitudinal Rebar Detail= 3d16 BOT
Shear Reinforcement :
d8 @ 6 cm in Beam Ends (60 cm)
d8 @ 6 cm in Beam Middle



» BEAM TYPE B1a

Section : B30X35
Dimension : Depth= 35 cm, Width= 30 cm
Rebar Cover : 4 cm
Flexural Reinforcement :
Top Longitudinal Rebar Detail= 3d16 TOP
Bot Longitudinal Rebar Detail= 3d16 BOT
Shear Reinforcement :
d10 @ 8 cm in Beam Ends (70 cm)
d10 @ 16 cm in Beam Middle

ETABS MATE
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How to Activate Your ETABS MATE Software

Please download ETABS MATE setup file from download center of software official website and then install it on the desired computer. In this case software will be activated in the trial mode on your computer. \

www.FARASAEG.ir » Download Center
www.ETABSMATE.ir » Download Center

In the trial mode, you can see the features and abilities of the software by opening the "**Demo Sample**" from **File** menu of the software. By demo sample model you can evaluate the program performance of different parts of the software.
In the case of satisfaction with application performance and want to activate all functions and turn it into a full version, you must register your software. You can register your copy of software by **'Buy Software** ' and **'Software Activation**' link in the software site top menu.

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Concrete Structure Assistant Software

To get more information and download the trial version of ETABS MATE software and its drawing samples in AutoCAD file format, please visit the official web site of software.

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