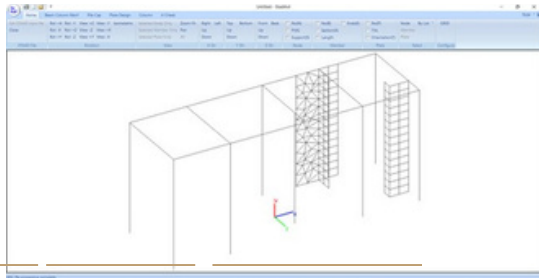


StadAid

StadAid: Smart Assistance for Structural Engineers

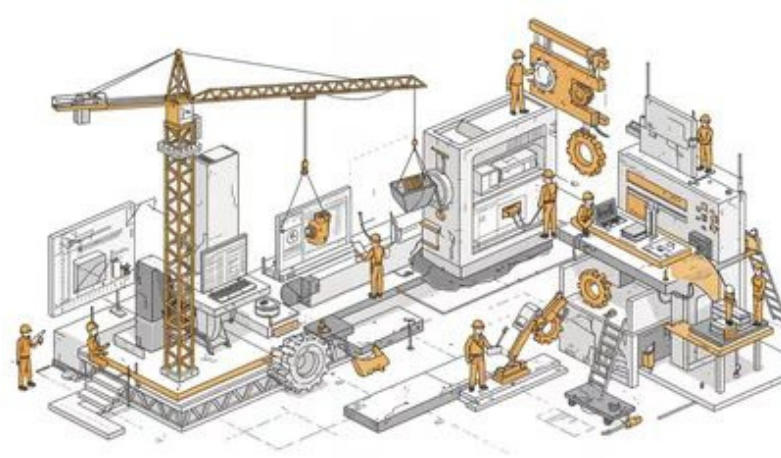
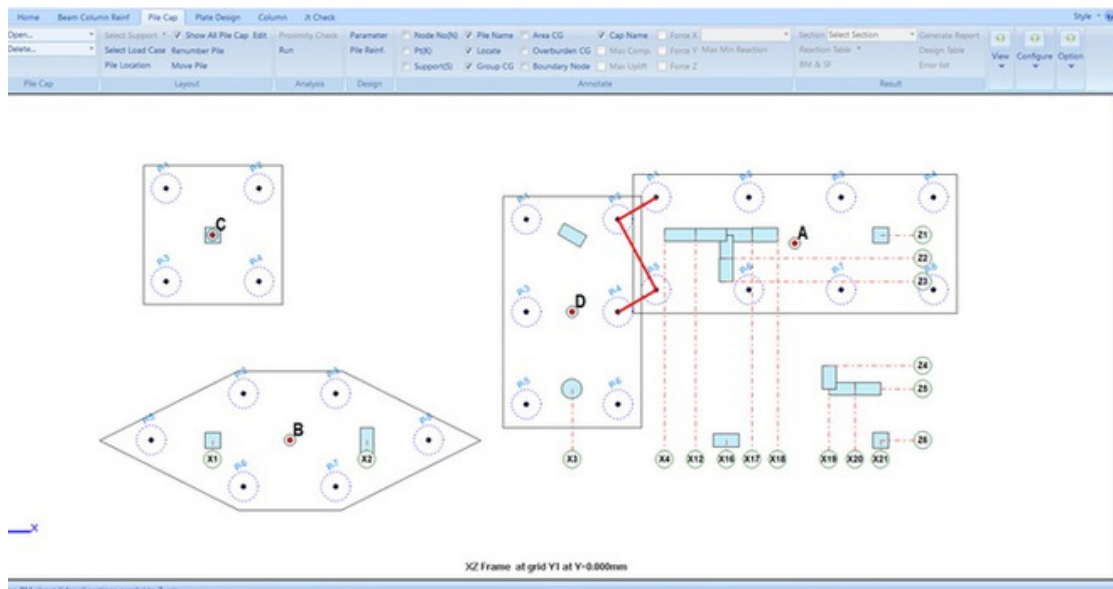
StadAid is an innovative software tool developed by practicing engineers for fellow professionals in the field. It is specifically designed to automate and simplify time-consuming engineering tasks such as design data extraction from graphical interfaces/text output. It also helps in analysis and design of pile caps for multiple columns with conventional method. RCC plate element design is another module to help practising engineers.



Purpose and Integration with STAAD

For the analysis and design of RCC structures, most engineers rely on the world-renowned STAAD software. STAAD performs design operations in batch mode (without RCDC), with design outputs available in the .ANL file or individual members. However, extracting design results for RCC beams and columns through this process is often time-consuming.

StadAid aims to streamline this workflow. It starts by reading the existing input and output files from STAAD and displays detailed RCC design data on its own intuitive graphical interface, significantly improving productivity and decision-making speed.



Current Modules

The latest version of StadAid comes equipped with three powerful core modules designed to streamline structural design workflows:

1. Graphical Display of RCC Beam/Column Design

Data: Automatically extracts design results from STAAD and displays them through an intuitive, interactive graphical interface. This allows engineers to quickly visualize reinforcement details, section properties, and design outcomes.

2. Pile Cap Design for Multiple Columns (Manual Method-Based):

Based on standard manual design methods, this module requires only key pile cap input parameters from the user. Reactions, loads, and other supporting data are imported directly from STAAD files, reducing manual effort and minimizing errors.

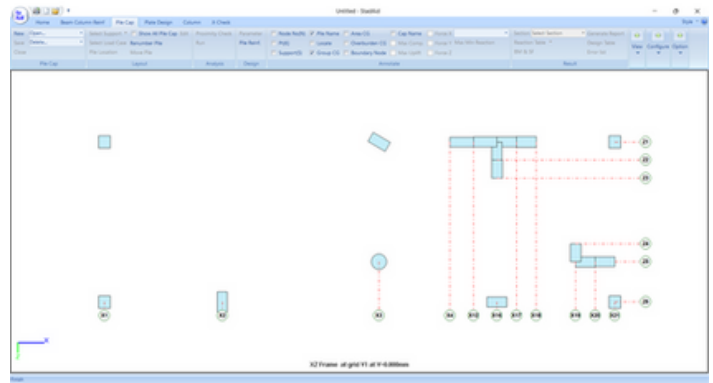
3. Design of RCC Plate Elements:

Users can select individual plates or grouped plates directly from the STAAD model. Once basic design parameters are provided, the module computes the required reinforcement automatically, ensuring accuracy and speed in plate design.

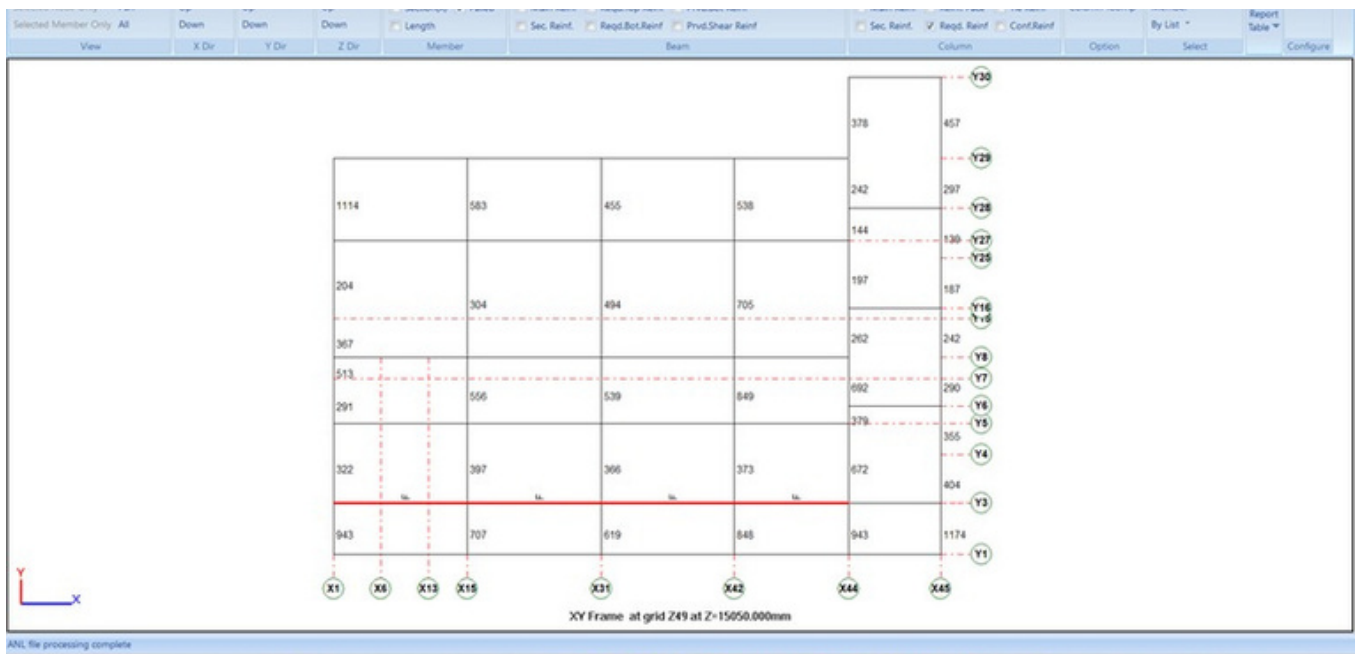
StadAid

Some Key Features

- Reading .STD file and .ANL file to store all data
- Part or all of structure can be selected for view
- Member, Joint & Element number display
- Start and end node identification for members
- Local axis display for elements
- RCC beam/column design data visualization
- Identification of failed/not-designed members
- Pile reaction display in tabular format for all loads with marking for capacity failure
- Superstructure support reaction display in tabular format
- Load case selection for pile reaction and for RCC design of pile cap
- One-way and two-way shear checks for pile caps
- Proximity check for piles of adjacent pile caps.
- Bending moment and shear force diagram for pile caps



- DXF file generation of pile cap layout with piles and columns/walls
- Reinforcement design for pile caps
- Maximum & minimum pile reaction on pile layout
- Support reaction of columns as well as elements for pile cap design
- Plate/element selection on screen as well as already defined group
- RCC design parameters selection for pile cap and elements
- Detailed/smart report generation as per user discretion
- Tabular display of computed Wood-Armer stresses for plates to design reinforcement



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