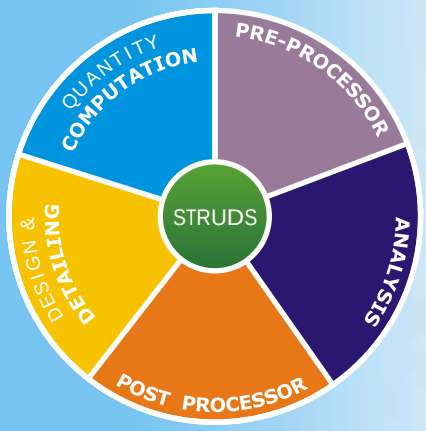
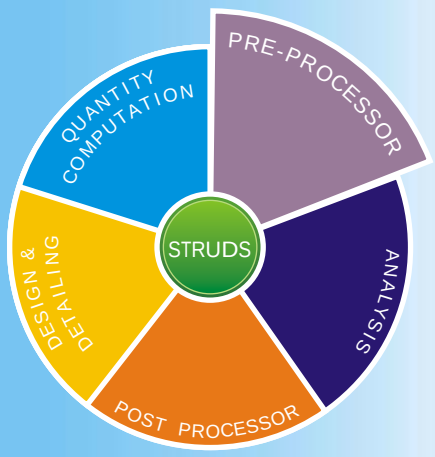
STRUDS®

Structural Analysis, Design & Detailing Software



NOW FEATURED WITH :

- Modelling, Analysis, Design & Detailing of Shear Walls
- T and L shaped columns Modeling, Analysis, Design & Detailing
- Enhanced detailing as per SP-34
- Improved Graphical User Interface
- 3D rendering view for better understanding

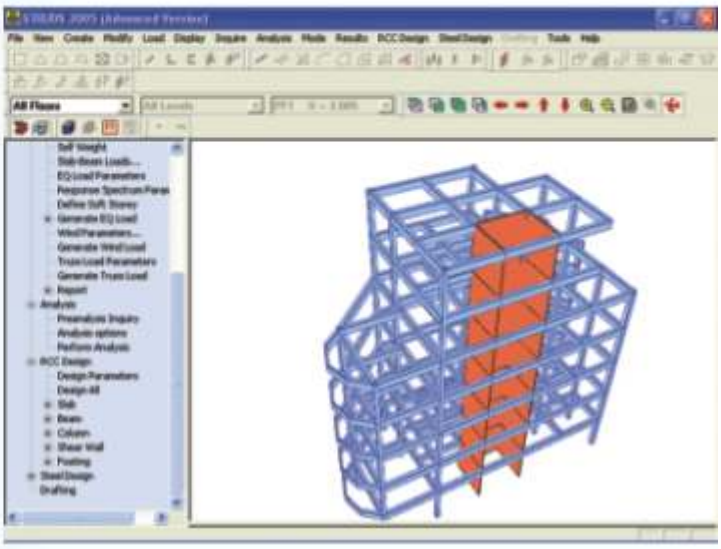


User friendly Graphical Interface for Modeling the Building

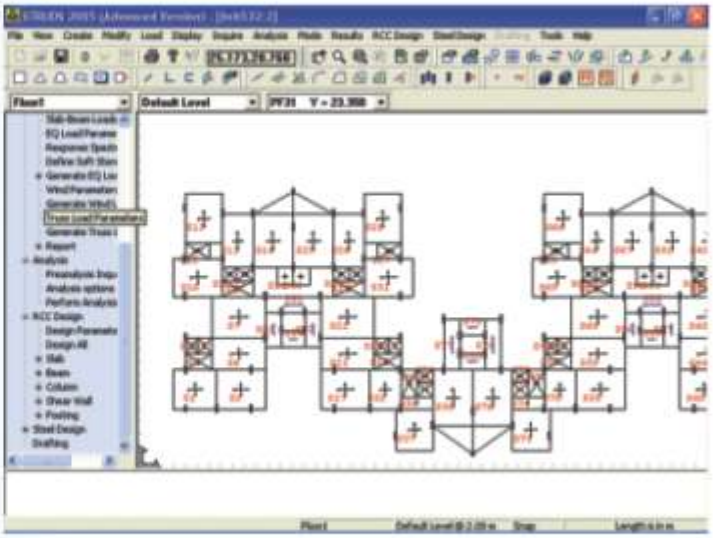
SALIENT FEATURES

PRE-PROCESSOR

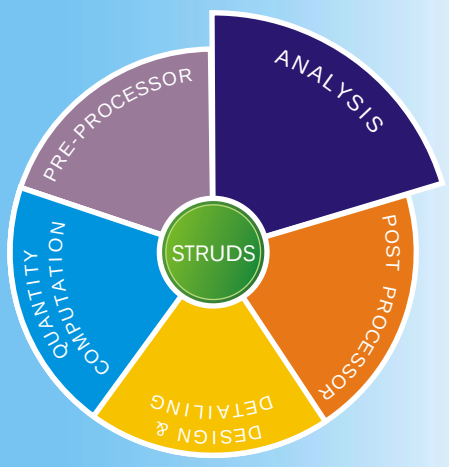
- Extremely easy modelling of building floorwise, objectwise.
- Modelling objects include slabs, beams, columns, shear walls.
- Irregular shaped slabs/ Flat slabs.
- T , L shaped columns and ⊐, L and ⊏ shape shear wall are unique features.
- Isolated / Combined / Raft / Pile foundations, pinned or fixed at the base.
- Area / Line / Point loads on slab.
- Uniform / Non-uniform / Point / Wedge / Triangular / Trapezoidal loads on beams.
- Automatic generation of Slab-Beam loading and Wall loading.
- Automatic generation of Seismic loads as per IS : 1893-2002.
- Automatic generation of wind loads as per IS : 875
- Consideration of Vertical Seismic loads in design of horizontal cantilevers
- In-built load combinations to find the envelope.
- Automatic generation of 2D and 3D frames from the floor plans.
- Import of drawings in DXF format.
- Interface to create STAAD® input file.



Automatically generated
3D Solid View from Floor Plans



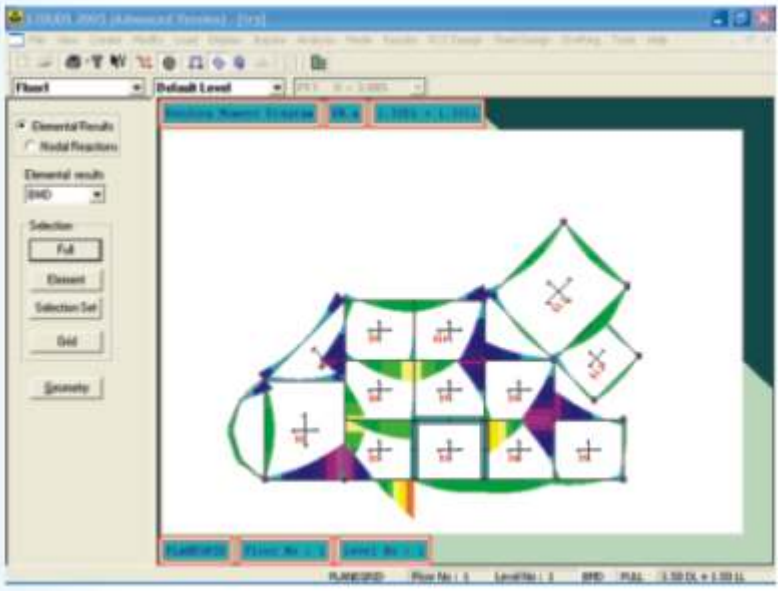
2D Floor Plan View at different Floor Levels

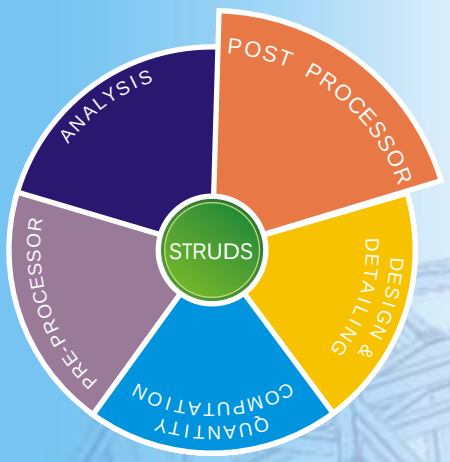


Finite Element Based Static and Response Spectrum Analysis.

ANALYSIS

- Building could be idealized as floor-grids, a set of plane frames or entire 3D space frame
- 3D frames static analysis including shear wall analysis
- Response Spectrum Analysis with IS Code predefined spectra
- Rigid Floor-Diaphragm Action, Soft Storey effect
- Torsion effect due to eccentricity in Centre of mass and Centre of Stiffness taken in to consideration
- Front width optimization for faster analysis

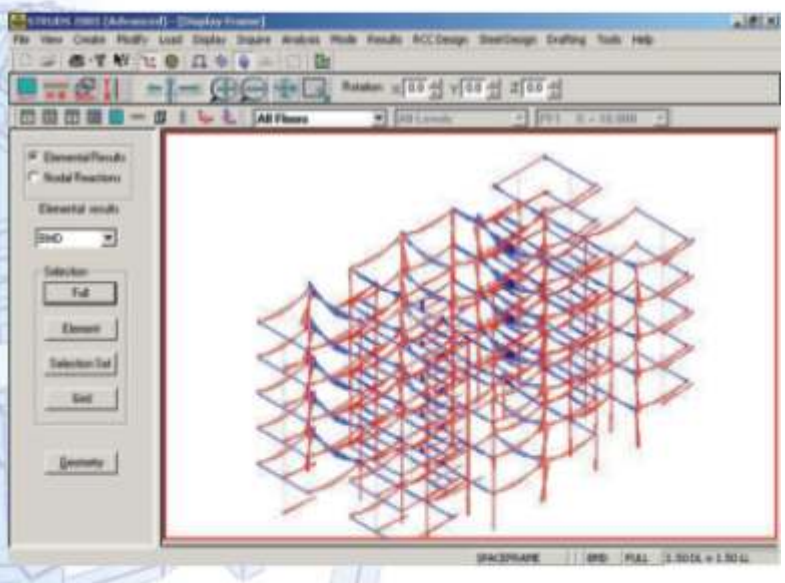




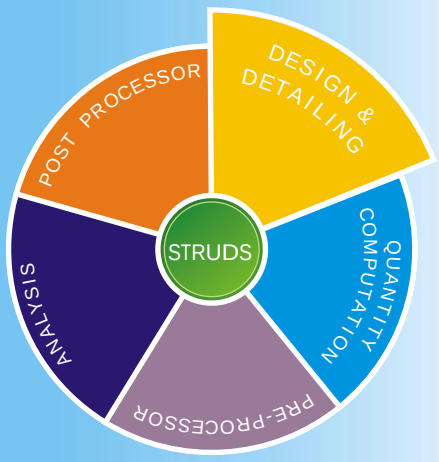
View the Structural Behavior under different load combinations.

POST PROCESSOR

- BMD / SFD / Axial / Torsion / Support Reaction / Deflection / Free body diagrams.
- Diagrams visualization in Floor / Plane Frame / Space Frame.
- Diagrams represented in Contour view.
- Detailed Analysis reports.
- Shear Wall Analysis reports.



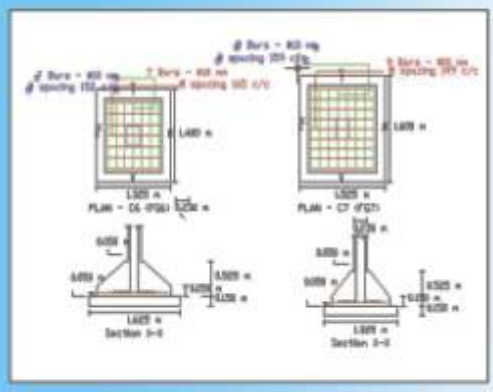
Visualization of Analysis Results.

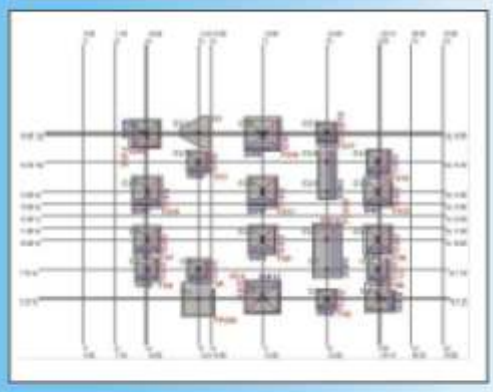


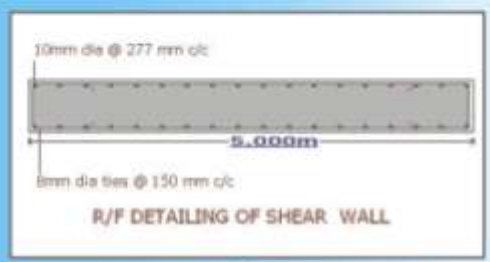
DESIGN & DETAILING

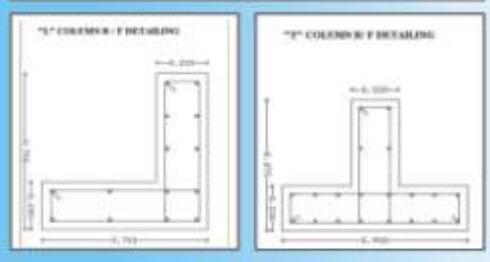
- Design Of Regular One Way / Two Way / Flat / Cantilever Slabs.
- Design of Singly / Doubly / Reinforced beams as rectangular, T or L shaped.
- Design of ▢ , ○, T, L shaped columns as Axial, Uniaxial & Biaxial design.
- Design of isolated, Combined footings, Raft and Pile foundations.
- Design of ▬, L , ⊏ shaped Shear Walls.
- Detail step-by-step design reports as per relevant IS Code Clauses.
- Ductile Detailing of Structural Components as per IS : 13920-1993.
- Detail design drawings as per SP-34.
- Export drawings in DXF format to any CAD Software.
- Bar bending schedules produced.

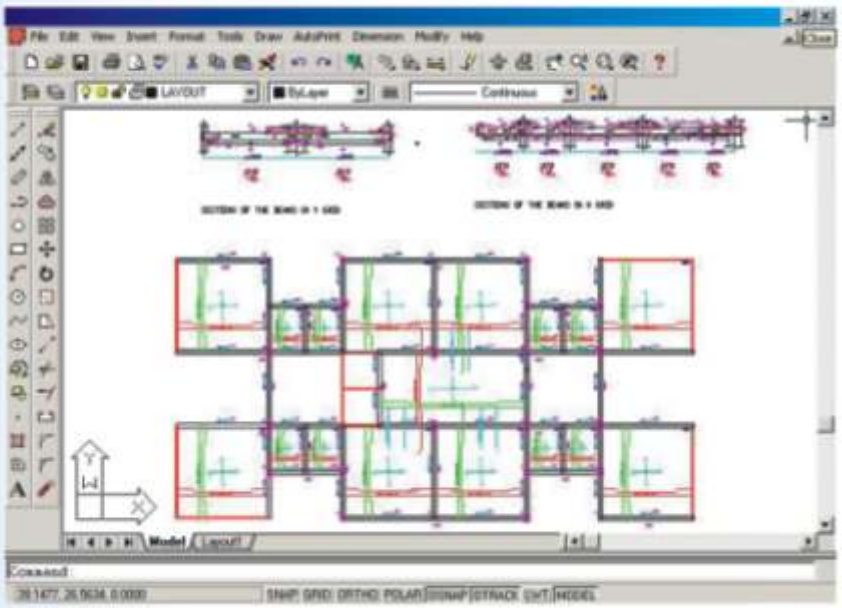
Seamlessly
Integrated Design
based on IS and BS codes.

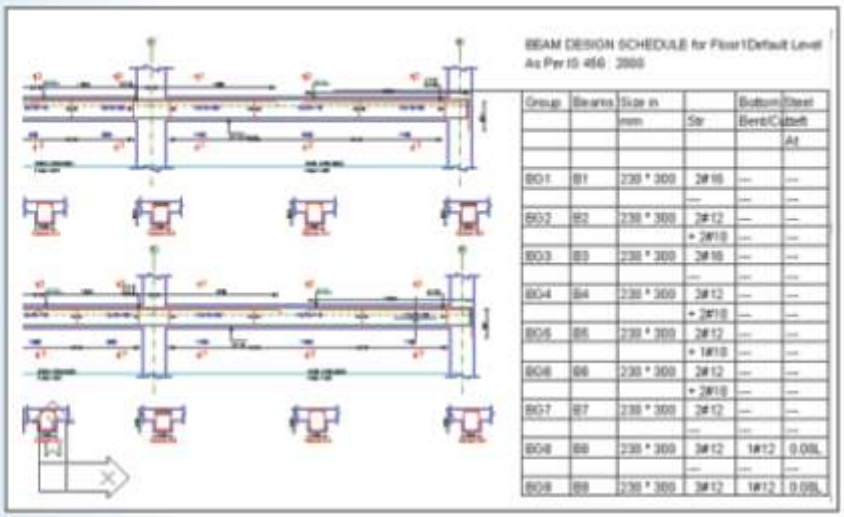




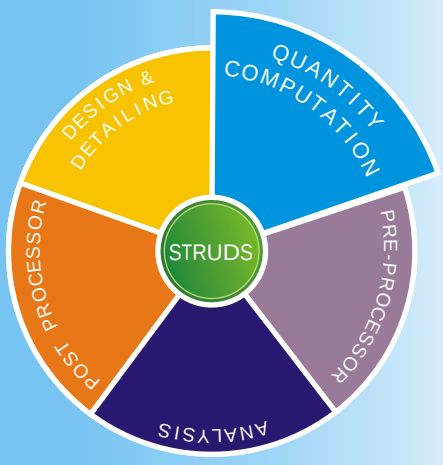








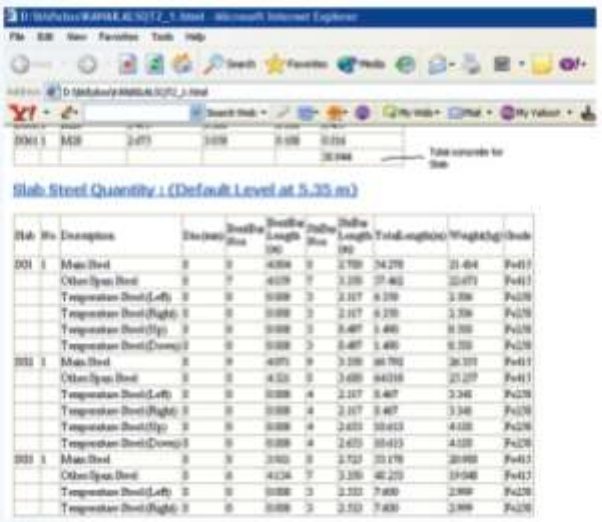
Ductility detailing provisions as per IS : 13920-1993 and SP-34.



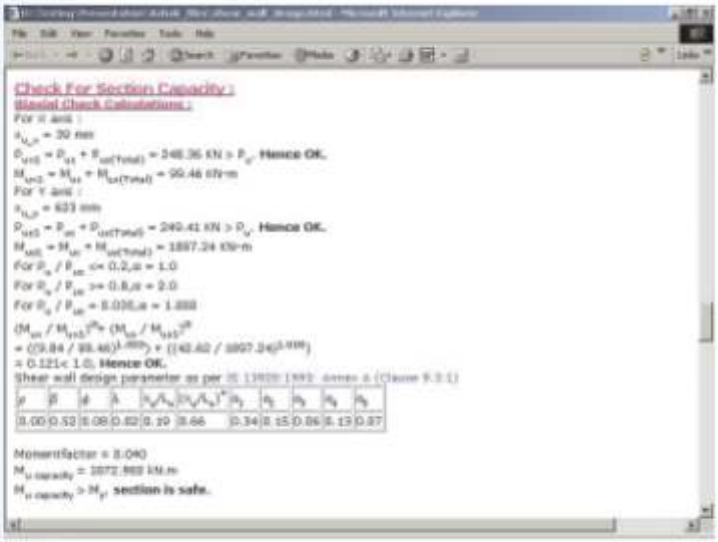
Concrete and Steel Quantities.

QUANTITY COMPUTATION

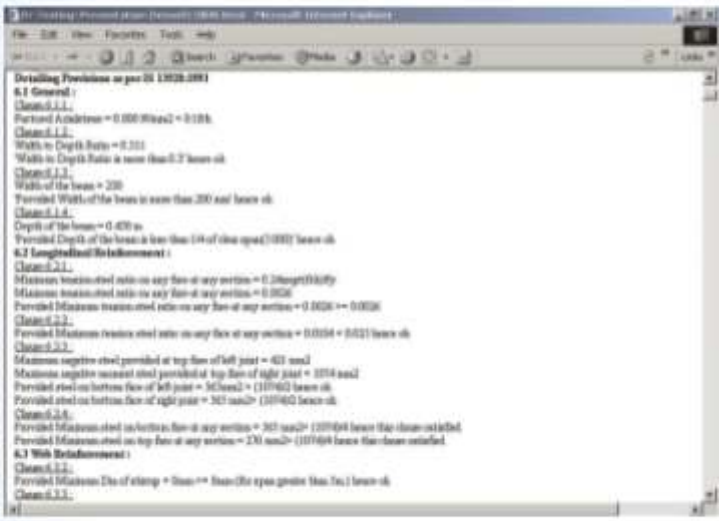
- Computation of quantities of concrete and steel.
- Grade wise / Diameter wise breakup of steel produced.
- Seamless integration with QE-Pro™ (Quantity Estimation & Project Management Software of SoftTech.



REPORTS



Detail Design Reports with step by step Calculations



IS Code clauses wise Detail Reports

Here is What our Esteemed Customers Say...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"Congratulations to SoftTech for producing the most user friendly structural analysis and design software. My investment in STRUDS is fully justified." - Mr. Pravin T. Gala Consulting Engineer, Mumbai

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