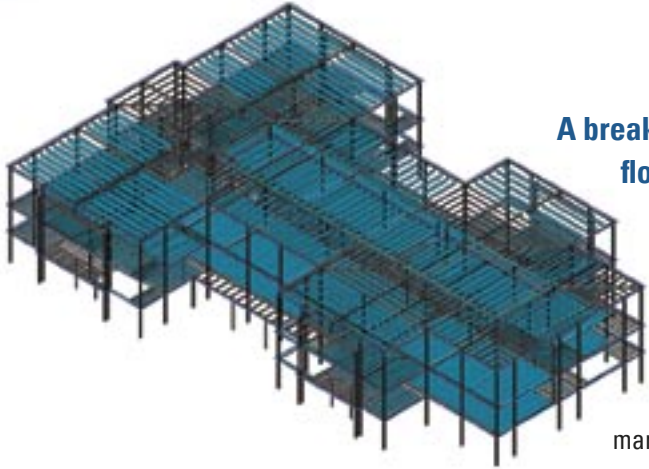


Next Generation Building Design Software



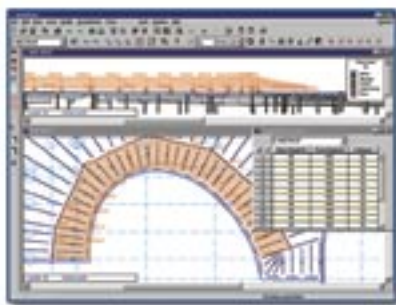
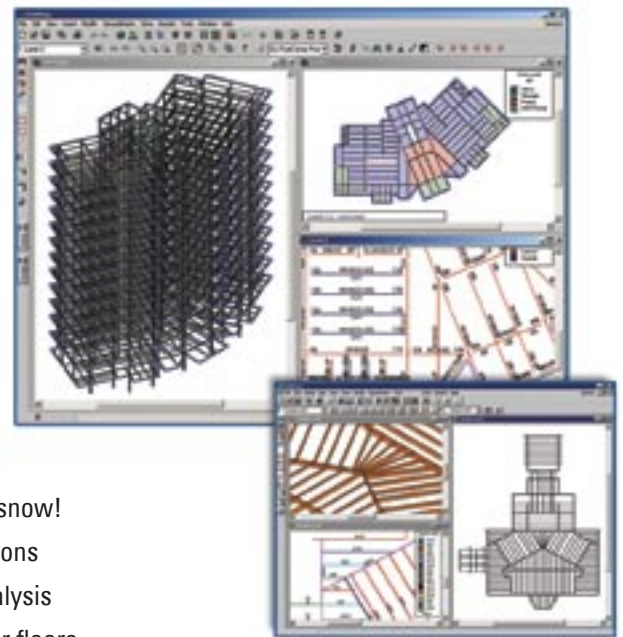
A breakthrough in building analysis and design, RISAFloor designs floor systems and works with RISA-3D to provide a more complete building design solution.

RISAFloor designs gravity beams and columns, working floor by floor in a plan environment to quickly model buildings, manage loads, design beams and columns, and create quality CAD drawings. All popular materials are supported; from steel, wood and concrete to manufactured products, cold-formed steel and composite beams.

RISAFloor fully integrates with RISA-3D on one model, constantly supplying the information needed for the design of lateral systems. This provides unparalleled flexibility in designing gravity and lateral systems; allowing you to explore options easily, and immediately see how changes carry through your project.

Why RISAFloor stands apart:

- Seamless integration with RISA-3D for a total building solution
- Design of steel, composite, wood and concrete floor systems
- Automatic distribution of floor loads, live load reduction and self weights
- Import and export detailed CAD drawings



- Tapered area and line loads—great for snow!
- Continuous beams and absolute deflections
- AISC Design Guide 11 floor vibration analysis
- Parent/Child association between similar floors
- True to scale model rendering—terrific for presentations
- Multiple slabs at one elevation and 1-way or 2-way deck spans
- Multiple views, CAD quality graphic editing, unlimited undo, spreadsheets
- Advanced slab edge tracing

Superior graphic tools, full spreadsheet functionality and a host of other incredible features will leave you wondering how you ever lived without it.

Try RISAFloor today and see how good structural engineering software can be!

RISAFloor Version 2.0 Specifications

Modeling Features

- Manage one model with both RISAFloor & RISA-3D
- Parent/Child floors that let you mimic one floor within another, eliminating repetitive modeling or modifications
- Single project grid used on all floors and in RISA-3D
- Versatile drawing grids (orthogonal, radial, skewed)
- Universal and Object Snaps allow you to draw without grids
- Automatic generation of grids, columns, girders, walls, in fill beams, properties, loads, slab edges and decks
- Powerful graphic select/unselect tools including box, line, polygon, invert, criteria, spreadsheet selection, with locking
- Saved selections to quickly recall desired selections
- Real spreadsheets with cut, paste, fill, math, etc.
- Dynamic synchronization between spreadsheets and views
- Constant in-stream error checking and data validation
- Support for all units systems & conversions at any time
- Modification tools that change multiple items at once
- Multiple slabs allowed on one floor
- Automatic interaction with RISASection libraries
- Extensive DXF import/export of CAD drawings

Analysis Features

- Smart area loads (additive or exclusive in overlapping regions)
- Tapered area loads and tapered line loads (great for snow)
- Continuous members? Cantilevers? Not a problem!
- Automatic 1-way or 2-way attribution of point, line and area loads to beams, walls and columns
- Automatic live load reductions
- Automatic wind load and seismic load generation (for RISA-3D)
- Effective width calculations for composite beams
- Automatic checking of deck/slab spans
- Simple and continuous beams with pinned or fixed ends
- Weak axis bending of members
- Detailed deflection analysis and control
- AISC Design Guide 11 beam vibration analysis
- Automatic self-weight calculation
- User defined load combinations, easily edited in spreadsheets

Design Features

- Designs hot rolled steel (composite and noncomposite), concrete, cold formed steel and wood
- Designs steel and wood joists
- Steel Design Codes: AISC ASD 9th, LRFD 2nd & 3rd, HSS Specification, CAN/CSA-S161-1994 & 2004, BS 5950-1-2000, IS 800-1984, Euro 3-1993 including local shape databases
- ACI 1999/2002, BS 8110-97, CSA A233-94, IS456:2000, EC 2-1992 with consistent bar sizes through adjacent spans
- Exact integration of concrete stress distributions using parabolic or rectangular stress blocks
- Concrete beam detailing (Rectangular, T and L)
- AISI 1999 cold formed steel design
- NDS 1991/1997/2001 wood design, including SCL, multi-ply, full sawn
- Interactive member redesign and updating
- Automatic assignment of unbraced lengths with overrides
- Uniform and segmented stud layouts for composite beams
- Optimization of members per code, size and deflection criteria
- Construction dead and live load checking
- AISC, HSS, CAN, ARBED, AISI, NDS, foreign databases
- Steel and Wood product databases
- Model freezing for evaluation of pre-existing designs

Graphics Features

- Extraordinary “true to scale” rendering, even when drawing
- Rotate, zoom, pan, scroll and snap views
- Saved views to quickly restore frequent or desired views
- Multiple views to show different views and floors simultaneously
- Ability to view a ghost image of the floor below the current floor
- View (with zoom, rotate, etc.) a rendering of the full building model
- High-speed redraw algorithm for instant refreshing
- Dynamic scrolling that lets you stop right where you want
- High quality customizable graphics printing

Results Features

- Interactive redesign dialog lets you control the designs
- Graphic presentation of color-coded member results and plotted member designs
- Truly interactive spreadsheet results of: designs, code checks, moments, deflections, shear, reactions, vibrations column forces, column designs and material takeoffs
- Relative and Absolute (i.e. girder + beam) deflections
- Color plotting & printing of area load and deck assignments, both “as input” and “as applied”
- Generation of CAD drawings including beams, columns, slab edges, member designs and reactions
- Standard and user-defined reports
- Customizable beam detail reports
- Saved solution results

RISA-3D Integration

RISAFloor and RISA-3D are so tightly integrated that they operate as one program on the same building model. Optimize the gravity system in RISAFloor and the lateral system in RISA-3D, with a free and complete flow of information both ways. Lateral models are created and loaded automatically as you model and solve in RISAFloor. When you are ready to work on the lateral system, RISA-3D takes it from there.

- Lateral models created as you define & change floors
- Gravity loads are automatically applied & updated
- Wind loads (ASCE-7,2002), including partial wind cases, are generated automatically
- Seismic loads (UBC & IBC), including accidental torsion, are generated automatically
- Detailed reports for Wind and Seismic load calculations
- View and edit all loads in RISA-3D’s spreadsheets or plot & print them
- Combine all gravity and lateral loads in standard load combinations which can be edited by the user

Use all the power of RISA-3D for your lateral system. Tension-only bracing, sloping columns, openings in walls, compression-only soil springs, are just a few of the possibilities. Even better, the RISA-3D and RISAFloor interfaces are the same.

General Features

- Optimized for Windows 98/2000/NT4/ME/XP
- Completely stand-alone or integrated with RISA-3D
- Automatic timed data backup
- Extensive customization options & user defaults
- Unlimited undo/redo capability
- Comprehensive printed reference manual with tutorial
- Encyclopedic online help with index and cross-reference
- Instant online program updates via WebUpdate