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, concrete and masonry 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 hot rolled steel (composite and non-composite), cold formed steel, steel products, wood, wood products, masonry 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
  - Sloped member design—perfect for roofs!

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!

CONTACT
TECHNOTRADE-LAHORE
TEL: 92-42-35832403
E-MAIL: sales@technotrade.com.pk
RISAFloor Version 4.1 Specifications

Modeling Features
- Manage one model with RISAFloor, RISA-3D and RISAFoundation
- 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/RISAFoundation
- 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
- True spreadsheet editing with cut, paste, fill, math, etc.
- Dynamic synchronization between spreadsheets and views
- Constant in-stream error checking and data validation
- Unlimited undo/redo, automatic timed backup
- Modification tools that change multiple items at once
- Multiple slabs allowed on one floor
- Automatic interaction with RISASection custom shape libraries
- CIS/2 export, also DXF import/export
- Robust two-way link with Revit Structure 2009

Analysis Features
- Smart area loads (additive or exclusive in overlapping regions)
- Tapered area loads and tapered line loads (great for snow)
- Automatic 1-way or 2-way attribution of point, line and area loads to beams, walls and columns
- Automatic effective width calculations for composite beams
- Automatic checking of deck and slab spans
- Column stacks: Model columns splice point to splice point
- Simple or continuous beams with pinned or fixed ends, cantilevers
- Weak axis bending of members
- Detailed deflection analysis and control
- AISC Design Guide 11 beam vibration analysis (full floor)
- Automatic self-weight calculation
- User defined load combinations, easily edited in spreadsheets

Design Features
- Designs hot rolled steel (composite and non-composite), concrete, cold formed steel, steel joists, wood, wood joists and masonry
- Design for custom rebar layouts & Concrete beam detailing (Rectangular, T and L)
- Masonry Design Codes: MSJC 1999/2002/05, UBC 97 (ASD & Strength)
- Masonry wall design for in-plane, out-of-plane & bearing loads. Choose from two design methods: segmented & force transfer around openings
- AISI 1999/2001, CSA S136-01 cold formed steel design
- NDS 91/97/2001/2005 wood design, SCL, multi-ply, full sawn, Gilams
- Wood wall design including customizable databases of hold downs & panel schedules
- Interactive member redesign and updating
- Automatic assignment of unbraced lengths with overrides
- Optimization of members per code, size and deflection criteria
- Steel and Wood joist databases
- Model freezing for evaluation of pre-existing designs

Graphics Features
- “True to scale” rendering with translucency, even when drawing
- Dynamically rotate, zoom, pan, scroll and snap views
- Font and Color control
- 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
- High quality customizable graphics printing

Results Features
- Interactive redesign dialog lets you control the designs, makes “what if” design comparisons very easy to do
- Graphic presentation of color-coded member results and designs
- Interactive spreadsheet results: designs, code checks, moments, deflections, shear, reactions, vibrations, column forces, column designs, material take offs
- Relative and Absolute (i.e. girder + beam) deflections
- Color plotting & printing of area load and deck assignments, both as input by the user and as combined and clipped by the program
- Generation of CAD drawings including beams, columns, slab edges, member designs and reactions
- Customizable beam detail reports

Integrated Building Design
RISAFloor, RISA-3D and RISAFoundation are so tightly integrated they operate as one program on the same building model. Optimize the gravity system in RISAFloor, the lateral system in RISA-3D and the foundation system in RISAFoundation, 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 7-2005, IS875-97), including partial wind cases, are generated automatically
- Seismic loads (UBC, IBC, ASCE 7, CBC & IS1893), including accidental torsion, are generated automatically
- Detailed reports for Wind and Seismic load calculations
- Combine all gravity and lateral loads in standard load combinations which can be edited by the user
- All reactions (columns and walls) are automatically imported into RISAFoundation for design and detailing of the foundation system
- Rigid & flexible diaphragm analysis and wood diaphragm design

Use all the power of RISA-3D for your lateral system: Tension-only bracing, sloping roofs and openings in walls are just a few of the possibilities. Even better, the RISAFloor, RISA-3D and RISAFoundation interfaces are the same, making them much easier to learn and use.

General Features
- Optimized for Windows 2000/XP/Vista
- Operates completely stand-alone or integrated with RISA-3D
- Extensive customization options & user defaults
- Support for all unit systems & conversions at any time
- Comprehensive printed reference manual with tutorial
- Encyclopedic online help with index and cross-reference
- Technical support provided by Professional Engineers