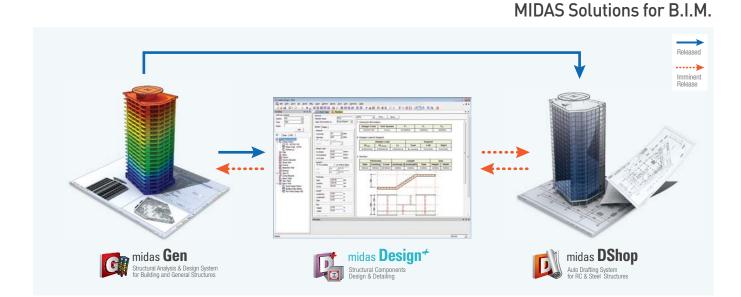


Structural Component Design & Detailing

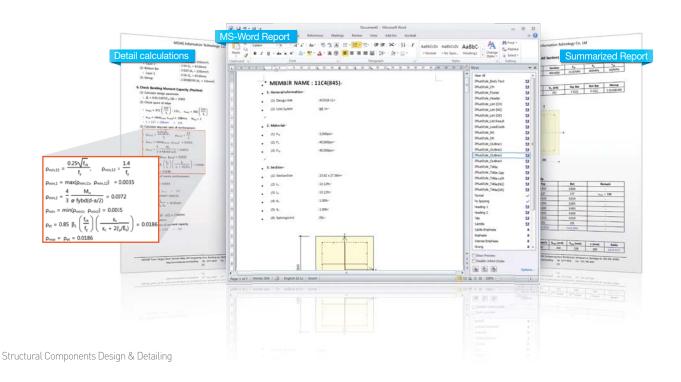
midas Design⁺ is a collection of handy structural component design and detailing tools, which are easy to use and speed up the day-to-day design process. midas Design⁺ is developed to be simple, fast and accurate. It enables engineers to systematically and consistently manage design reports.



User Oriented Output & Results

01

midas Design+ provides high quality output and concise documentation, including drawings and a material quantitiy takeoff.



Next Generation Practical Engineers' Tools

3 Key Features of midas Design+

Intuitive Graphic Interface for efficient design work

- Simple mode for individual components design
- Project mode for member groups by projects
- Compatible with CAD, MS Word & Excel

Interface with midas Gen

• Seamlessly integrated with FE analysis software midas Gen (3D structural analysis software for building and general structures)

Auto Drafting & Editing Functionality

- · Auto-generation & Editing of member design results
- Built-in 2D CAD drawing functionality

Product Range

midas Design⁺ consists of a range of software modules for structural engineers to streamline the process of design and detailing into one design operation providing a competitive edge.

RC Design

- Slab
- Slab long term deflection
- Beam
- Beam long term deflection
- Column
- Column (Irregular)
- Shear Wall
- Shear Wall (Irregular)

Spread Footing

Basement Wall



Stair





Structural component design & detailing tools

Steel Design

Beam & Column Base Plate Bolt Connection Crane Girder Purlin & Girth Web Opening

SRC Design

Composite Beam	
Column	
CFT Column	

Code Design

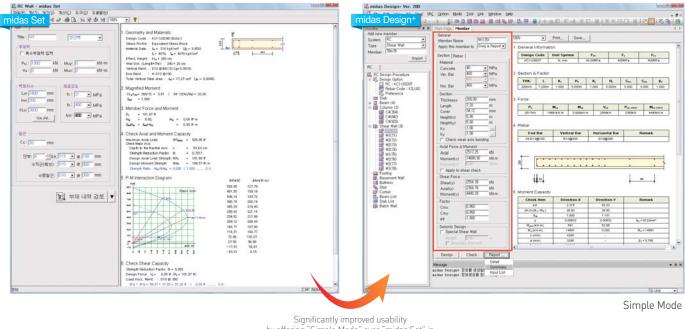
ACI 318-08, 11
AISC-LRFD 05, 10
Eurocodes





Simple Mode

Handle project changes easily and efficiently.



Significantly improved usability by offering "Simple Mode" over "midas Set" in a similar work environment

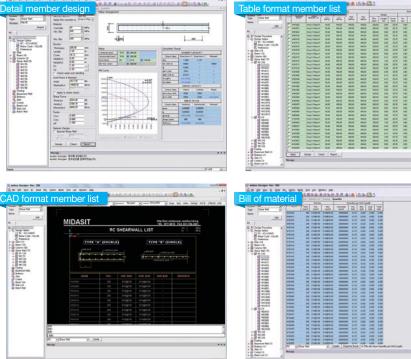
Project Mode

Various reports

Check floor plans and intuitive design results swiftly using "Project Mode".

Detail member design Table format member list CAD format member list Bill of materials

 Beyond simple components design, Project Mode generates high quality reports including BOM



12 (h in you it you int you

Streamline the Everyday Design Process – never been so easy & transparent

Accurate Calculation Results & High Quality Output

 Is Garant Information

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 AaBbC Artico N. Top for first format 12. Check Moment Capacity (1) Calculate capacity of comp on stress block • $\beta_1 = 0.850$ • c = 453 mm $a = \beta_1 \cdot c = 385 \text{ mm}$ $\begin{array}{l} A_{eem} = 151174 \mbox{ mm}^2 \\ \cdot \ C_{ex} = 134 \mbox{ mm} \\ \cdot \ C_e = 0.85 \ \cdot \ f_{ek} \ \cdot \ A_{eem} = 3084 \mbox{ kN} \end{array}$ $M_{n_{\rm N}} = c_{\rm e} + c_{\rm e_{\rm N}} = 301 \, \rm kN \cdot m$ $M_{n_{\rm V}} = c_{\rm e} + c_{\rm e_{\rm V}} = 413 \, \rm kN \cdot m$ 2) Calculate capacity of reba n Santan 4. 8. 6. Billiatti Jolii ufia atti ufia atti ufia N. Top for Not for Strong Tanait 8 7647 5578 8 108 5578

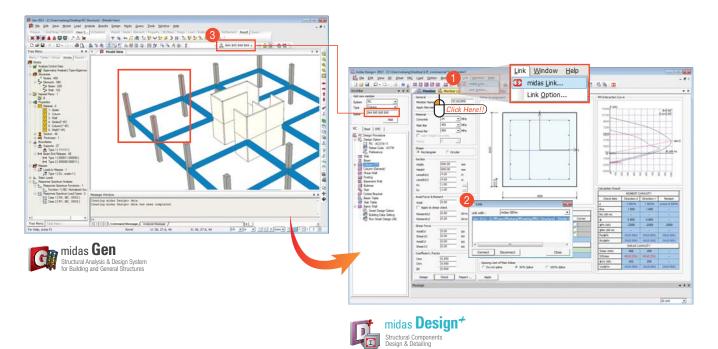
· Detail calculation reports for structural engineers

Customization of the Word format report by the user

• Summary report with input data for checking

Interface with midas Gen

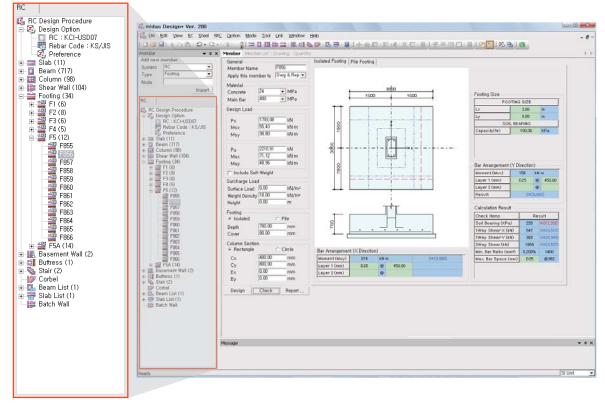
Seamlessly integrated with FE analysis software midas Gen. (3D structural analysis software for building and general structures)





Integrated Management System for Design Results

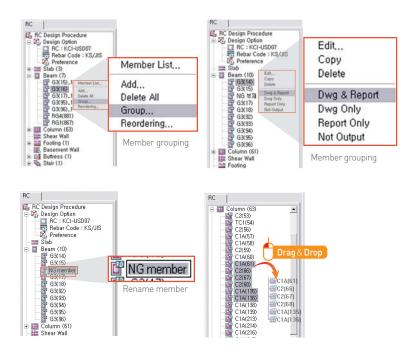
midas Design⁺ enables the engineers to increase their efficiency and productivity with integrated project management of design results.



Project management

Works Tree

Using the various features of the Works Tree menu, the users can manage all RC design results systematically.



Batch Design

Design all the members using the Batch Design function.

RC	
🔽 Slab (3)	🔽 Stair (1)
🔽 Beam (22)	🔽 Buttress (1)
Column (63)	🔽 Corbel (1)
✓ ShearWall (0) ✓ Footing (1)	🔽 Beam List (0)
🗸 BaseWall (0)	🔽 Slab List (0)
Steel	
🗖 Beam & Column	🗖 Purlin & Girt
Bolt Connection	🦵 Web Opening
🗖 Base Plate	🖵 Welding
🗖 Crane Girder	
SRC	
🗖 Composite Beam	
🗖 Base Plate	
🗖 Column	🖵 CFT Column



Auto Reinforcement Drawing in DWG format

Beyond component design tools, midas Design* provide high efficient productivity with powerful auto drafting.



Footings

Total Solutions for Design & Drafting !