GstarBIM

All-in-one BIM software for Architects and Interior Designers

GstarBIM
ARCHLINE.XP

All-in-one BIM software for Architects and Interior Designers

GstarBIM is an innovative 3D CAD/BIM software that covers every phase of architectural and interior design – from the first concept to detailed technical documentation. Hawk3D has acquired CadLine, a renowned BIM software developer based in Hungary, in 2025.

Building on 30 years of ARCHLine.XP's deep presence in the European market and extensive experience from a global user base, GstarBIM combines CAD precision with visual design capabilities, with key strengths in ease of use, high-efficiency documentation, and flexible interior customization. It aims to provide comprehensive BIM solution aims to projects from design concept to project delivery.

Data Exchange Enabling Data Sharing

GstarBIM offers deep compatibility with 50+ formats, including Revit, SketchUp, and CAD. facilitating seamless data exchange and collaboration in design projects.

Import

DWG, 3DS, SKP, FBX, IFC, RFA, RVT, PDF, JPG, PLY, E57, RCP, etc.

Export

DWG, IFC, RVT, PDF, PDF3D, SKP, FBX, OBJ, JPG, etc.

Linked formats

DWG, DXF, IFC, RVT, PDF, PLY, E57, RCP, etc.

Comprehensive BIM solution

A fully integrated multi-disciplinary, including building, interior, MEP, etc, 3D BIM solution that delivers a highly efficient, unified design workflow. Supports linking of DWG, PDF, and image files for BIM modeling.

Adopting openBIM ensures project delivery

GstarBIM integrated buildingSMART's bSDD data dictionary service, ensures standardized and lossless data exchange, fully supporting reliable project delivery. BuildingSMART-certified allows IFC import and export based on version IFC 2x3. Also supports IFC 4.x import and export.

Parametric intelligent modeling

Parametric modeling and coordinated intelligent objects, the system enables automatic, project-wide updates and synchronization in response to any design change. With more intuitive and efficient parametric modeling tools significantly improving design efficiency.

Associated 2D and 3D

Enables instant update and synchronization between the 3D model and 2D drawings. Generates plans, elevations, and sections with one-click and supports multi-scale viewports in single layout sheet for printing.

Professional Interior Design

Offers specialized tools for furniture, tiling, and lighting design. Supports diverse design combinations and detailed design, delivering photo-realistic rendering.

KBB modeling and furniture design

Professional cabinet design tools allow standardized cabinets to be reused across projects, while complex cabinets design can be achieved to meet customization requirements.

Extensive library resource

Supports importing components and materials from diverse resources with supporting .skp, .rfa. .3ds formats. Integrated AL warehouse and 3D warehouse from SketchUp.

High-efficiency documentation tools

Flexible layer management, powerful view controls, and familiar shortcut commands enable users to get started quickly without learning from scratch.

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Architectural Design
GstarBIM in Architectural Design

- Building Model Creation
- Parametric Modeling
- Massing and Site

Architectural Design

- MEP Design
- Refurbishment
- Collaboration

Parametric BIM Modeling

With parametric modeling and coordinated intelligent objects, GstarBIM provides intelligent modeling tools, including walls, doors, windows, roofs, columns, beams, stairs, ramps, and railings. Combines the precision of CAD with fast visual design capabilities, offering ease of use, efficient drawing production.
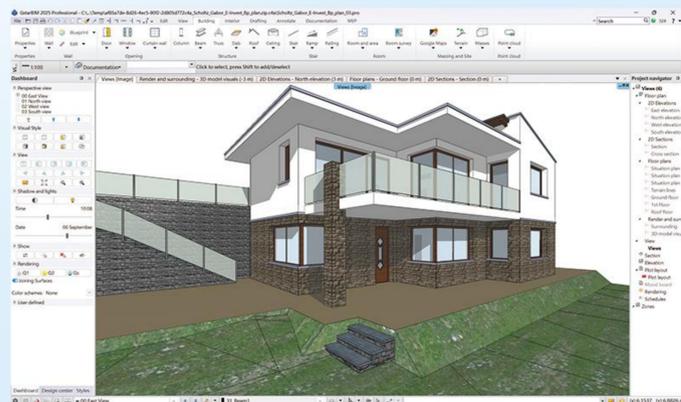
Intelligent BIM Modeling from 2D Drawing

Generates 3D BIM models from 2D DWG or raster image floor plans.
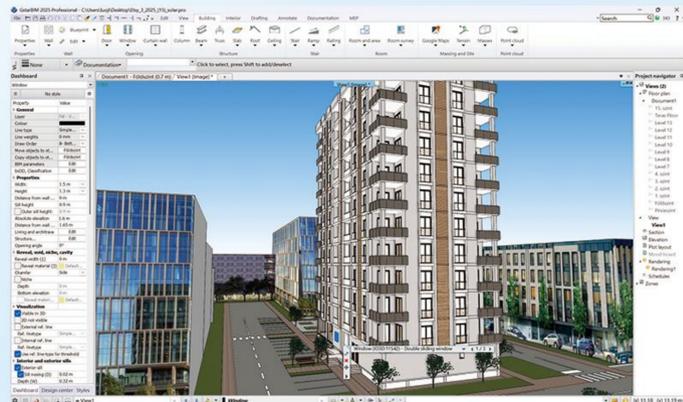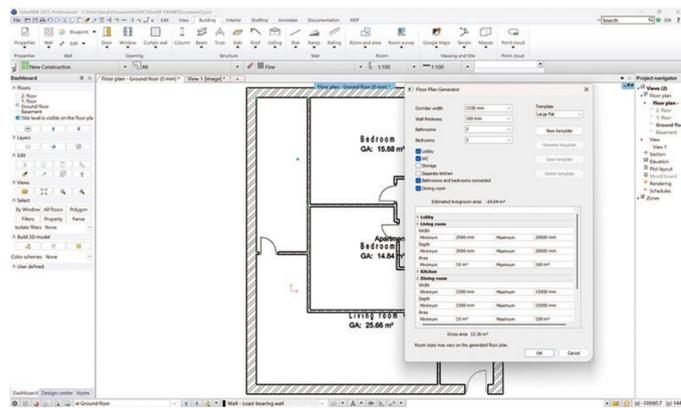
Automatic Floor Plan Generator

Using the intelligent floor plan generator, the software automatically creates complete floor plans and room layouts based on user-defined parameters, requiring only the wall outline as input. This significantly improves efficiency during the conceptual design phase.


Wall Reshape

Offers flexible and precise wall-shaping design, enabling modification of wall geometry. Supports creating complex wall forms—such as curved or polygonal walls—while maintaining associations between walls and other building components.
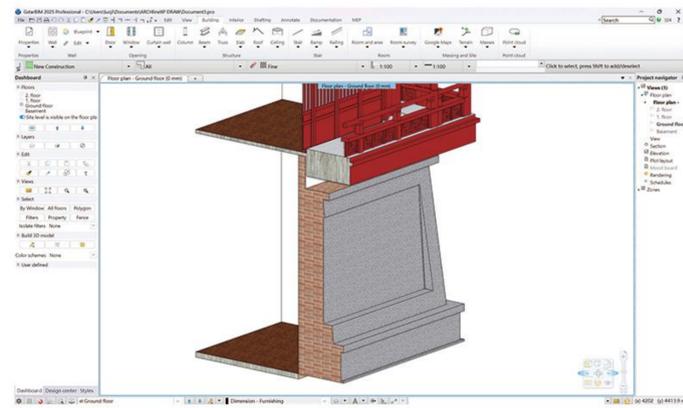

Design Roof Structures on a Professional Level

Flexible tools for detailed roof design. Supports parametric design of eaves, purlins, rafters, and roof tiles, as well as rapid generation of skylights, dormers, and gutters.
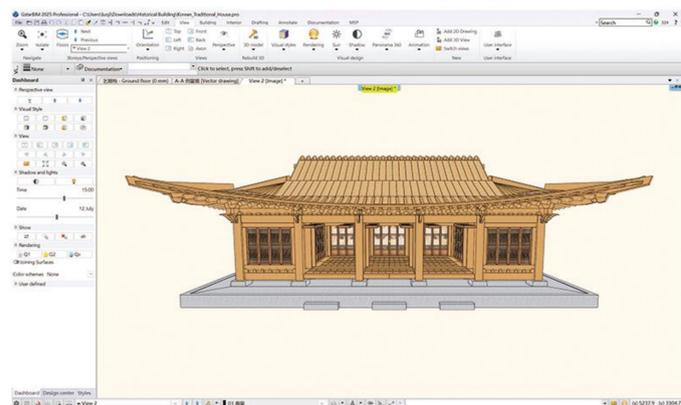
Massing and Site

Generates 3D terrain models from elevation points, contour lines, and other data sources. Import 3D terrain model from Google Maps. Support .kmz format for data exchange between GstarBIM and Google Earth.
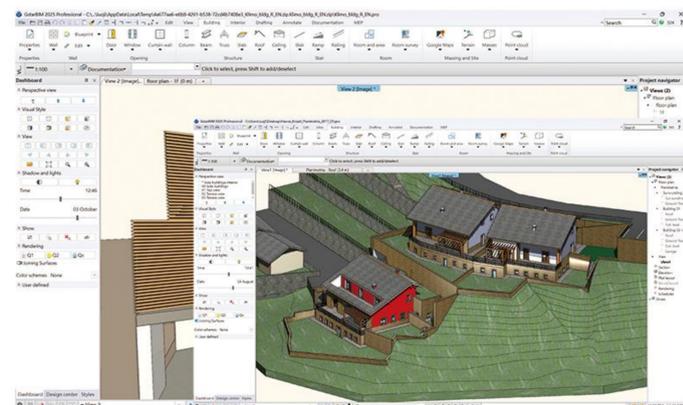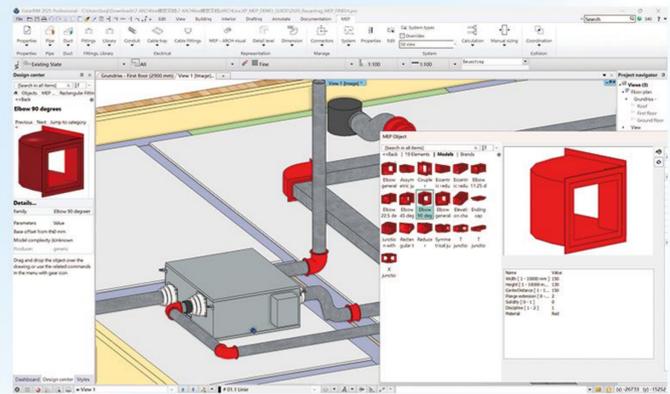
Architectural Design
GstarBIM in Architectural Design

MEP Design

Built-in MEP design module supports HVAC, electrical wiring, and plumbing design. Automatically calculates optimal routing, generates pipes, and inserts required fittings, enabling fast completion of complex layouts.

Connector and Automatic Routing

Supports adding connectors to mechanical equipment and fittings. plan a pipeline route between two connection points after selecting the MEP objects connectors

MEP System Browser

MEP System Browser provides a dedicated view mode to isolate and select MEP systems. It displays the System components with parameters.

Interference Checking

The Interference Check tool searches conflicts among a set of selected elements or all elements in the model, detects conflicts and reduce foreseeable construction risks.

Point Cloud to BIM

Compatible with mainstream point cloud data: .las, .rcs, and .e57, etc. Efficiently converting point cloud data into editable, parametric BIM models for existing buildings.
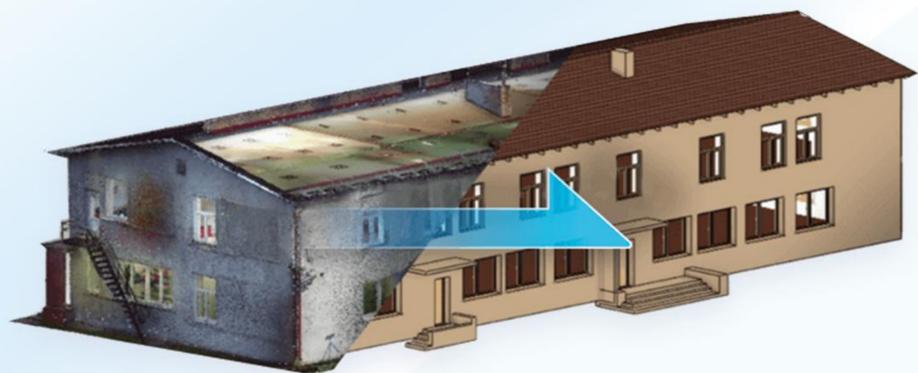
BIM Project Management

Design phase filters allow you to view the project based on the status of the elements, such as New, Existing and Demolition. GstarBIM offers five LOG (Level of Geometry) options ranging from 100 to 400.

BIM Parameter

Supports managing BIM parameters. BIM parameters can be added to elements and components. Integrated buildingSMART-certified IFC import and export. Using the IFC file format to exchange data (BIM parameters) and building geometry provides you with unrivalled collaboration opportunities and marks the end of project misinterpretation and data loss.

BIM Collaboration

Supports linked files and central model collaboration, enabling multi-discipline coordination and working area for team collaboration.

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Interior Design
GstarBIM in Interior Design

Room maker

Lighting Design

KBB Modeling and Furniture DESIGN

Smart Object

Tiling

Component and Material Library

Interior Design

Immersive Interior Design Workflow

Provides tools for parametric custom furniture, intelligent tiling, lighting, and ceilings. Supports a full workflow from floor plans to 3D rendering, with real-time simulation of materials, colors, and lighting. Outputs accurate design data, material lists, and cost estimates.
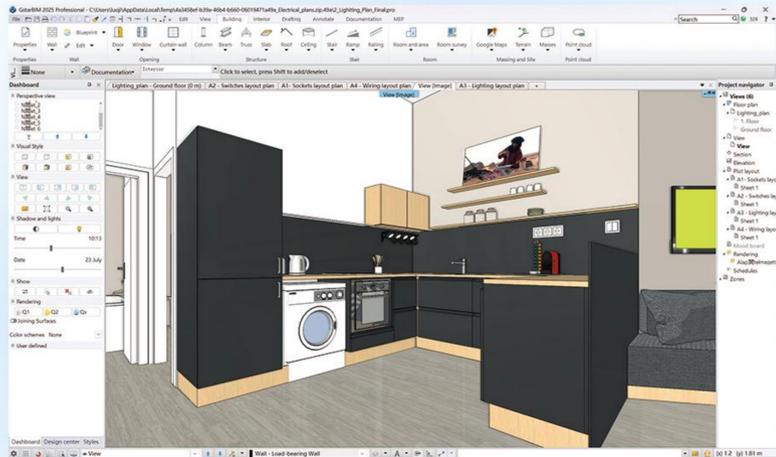

Room maker

Supports parametric for interior design, offering flexibility for design work and decoration.
Parametric placement of interior design elements, including doors, windows, curtains, electrical fixtures, baseboards, wall/floor tiling, and decorative artwork.
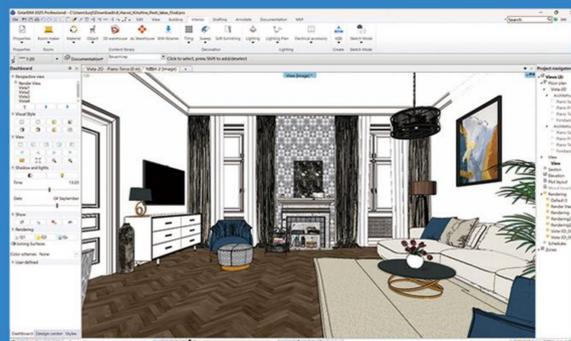
KBB Modeling and Furniture Design

Highly flexible parametric cabinet design supports easy creation and combination of door panel types. Enables complex curved cabinets with matching countertops and baseboards. Automatically generates cabinet breakdown views, cutting lists, and bills of materials.
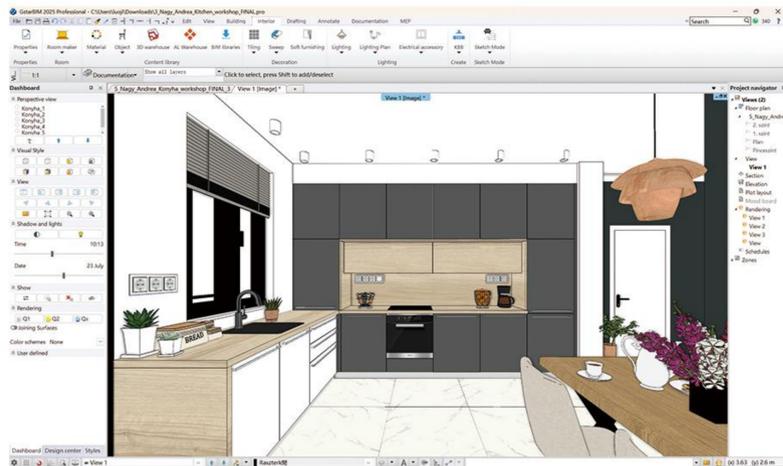

Tiling

Simplifies complex tiling workflows through advanced tiling tools. Automatically calculates tiling patterns and optimizes tile grout to reduce material waste with integrated quantity takeoff.

Lighting Design

Supports fixture placement, IES data import, and multi-parameter light source adjustments.
From simple layouts to complex lighting plans, GstarBIM delivers flexible lighting design with accurate IES-based lighting simulation.
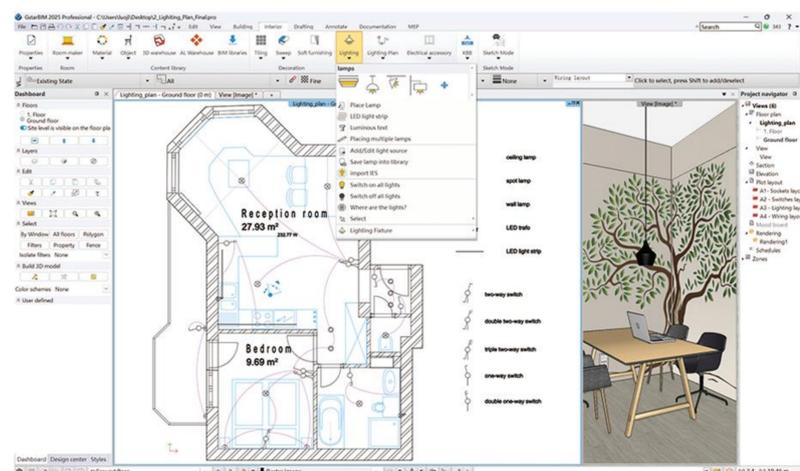
Smart Object

Smart Object Parts is an easy-to-use tool that gives you an efficient interface for creating complex furniture parts.
Using the components created by the Loft tool and the Smart Object Parts, the Smart Object assembly can merge them together and produce various types of upholstered furniture.

Component and Material Library

Integrated AL Warehouse and Trimble 3D Warehouse, allowing directly download components for use.
Support 50+ file formats including .skp, .rfa. .3ds, allow import or batch export components, easy migration or sharing of library files.

Documentation
Efficient Documentation

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- Associated 2D and 3D
- Flexible Layer Management
- Auto Dimensioning

Documentation

- Auto Quantity Calculation
- Sheet Layout & Viewport
- Revision & Ploting

Associated 2D and 3D

Automatically generates 2D drawings based on the BIM model. Provides section tools supporting horizontal sections, segmented sections, and terrain sections. Viewports and visibility can be defined according to plot requirements, and all related drawings are automatically updated when the model changes, to ensure project accuracy.
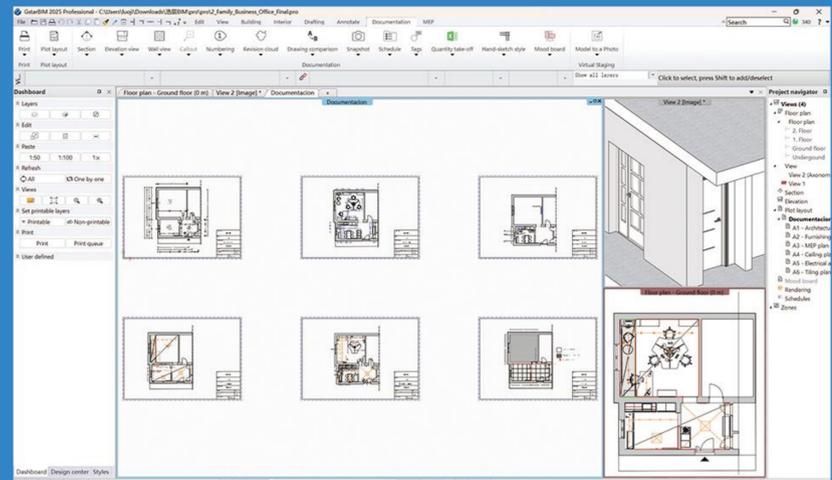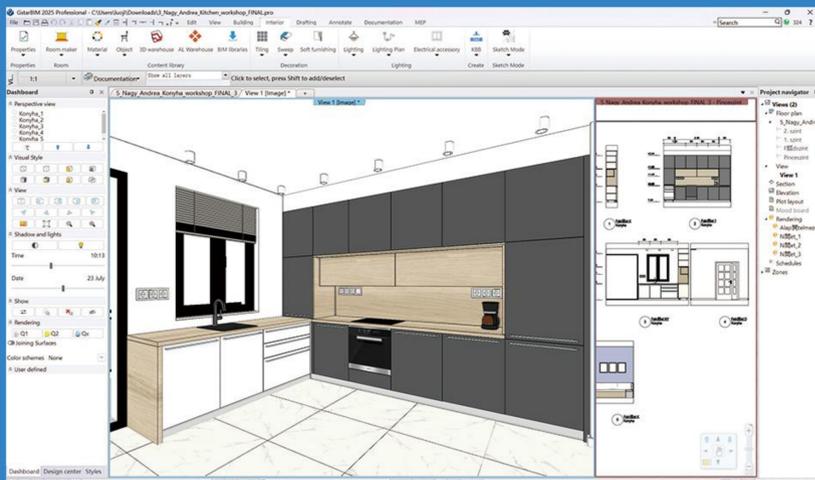
Flexible Layer Management

The layer management controls the visibility, line types, and print status of layers across different viewports based on plot requirements.

Auto Dimensioning

Provides automatic dimensioning for components such as walls, doors, windows, and openings across the entire plan or selected areas. Supports manual or automatic batch placement of tags, with all related annotations—including dimension styles—updating automatically when the model changes.

Documentation Tools

Provides extensive standard symbol library for annotation with intelligent room tag placement. Title blocks are highly customizable, with information linked to project parameters. Supports automatic generation of interior wall elevation views with precise dimension annotations.

Auto Quantity Calculation

Components in the model are linked to its attribute parameters and automatically updates schedule/quantity/table results after design changes.

Sheet Layout & Viewport

Supports batch creation of sheet layouts and flexible viewport placement with viewport scale and various viewport view styles.

Revision & Plotting

Supports comparison between two design phases, revision cloud management, and powerful batch printing or PDF export to significantly improve documentation efficiency.

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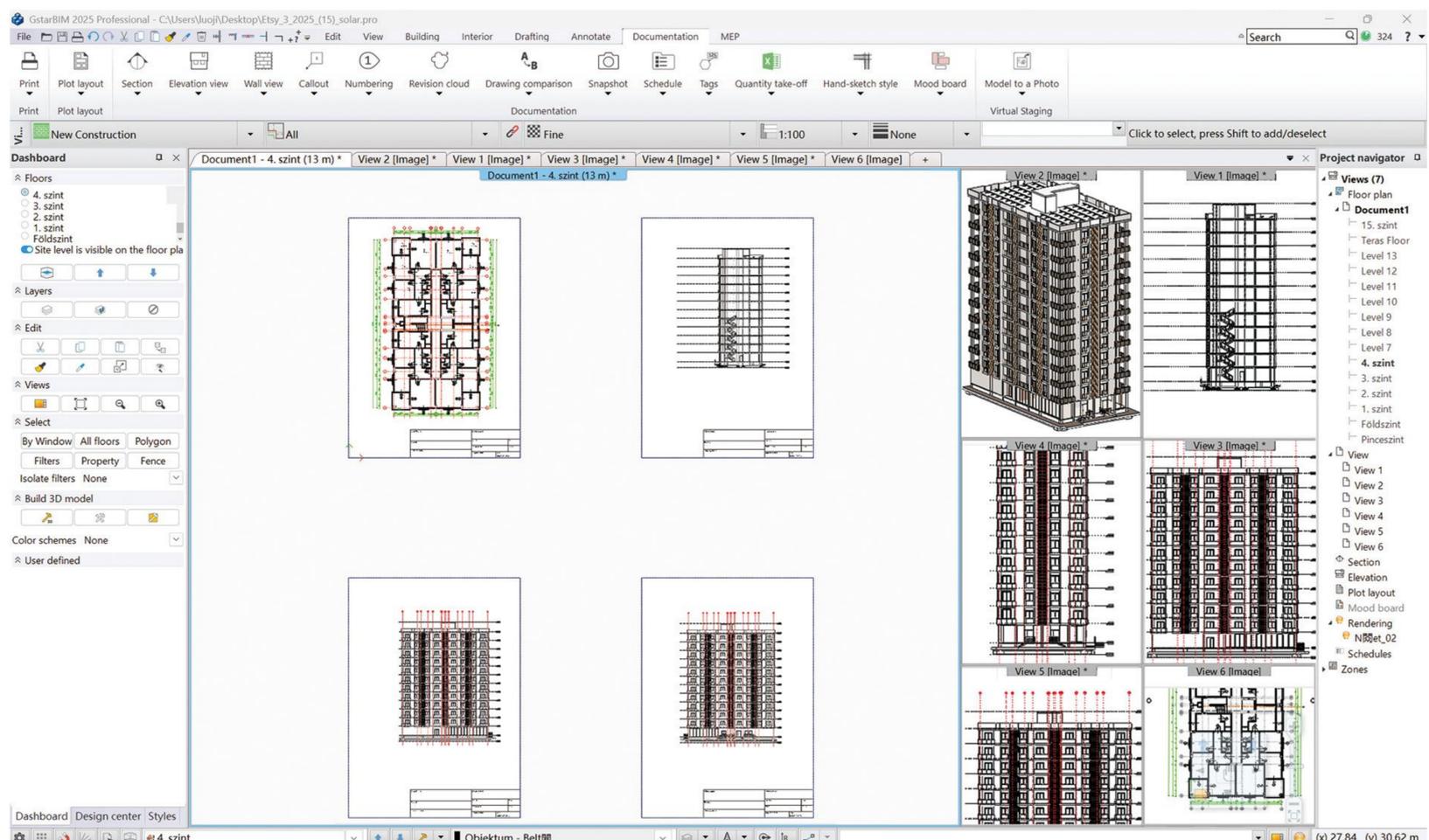
Visual Design
Powerful Visual Design

☂ Diverse Visual Styles

🖥 Profesional Integrated Rendering

☀ Sun and Shadow Simulation

Visual Design

✨ Animation

🔄 Panorama 360

💡 D5 Render Plugin

Diverse Visual Styles

Offers Wireframe, Shaded, Grayscale, Paper Model, and other visual styles. 3D Section Box handles complex model inspection, with support for underlay floor plan on 3D view.

Integrated Rendering

The integrated rendering in GstarBIM delivers accurate lighting and shadows, with photo-quality output, and precise control over light sources and model complexity. Real-time rendering instantly outputs photo-realistic images as model or parameter changes are made.

Material Library and Detailed Material Controls

Offers extensive preset rendering styles with detailed control over material properties such as brightness, reflection, roughness, bump mapping, and transparency for photo-realistic visualization.

Sun and Shadow Simulation

Supports sun position based on geographical location, date, and time, to simulate the movement of the sun and the appearance of natural lights and shadows.

Animation

Supports walk and fly or path 3D animation. Create construction animation that visually describes the construction sequence with programmed timelines.

Panorama 360

Creates interactive 360° panoramic virtual tours with HTML output for presentations, design reviews, marketing, and direct VR experiences.

D5 Render Plugin

Official D5 render plugin enables one-click synchronization of GstarBIM models to D5 Render, with full data connection transfers the model, lights, materials and even camera viewpoints.

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