

25 YEARS  
DELIVERING TOMORROW'S AEC

 **AGACAD**  
TOOLS 4 BIM

BUILDING BIM TOGETHER

SHARING BIM ADVANCES

We transform the insights of cutting-edge BIM users into powerful tools that all clients can acquire.

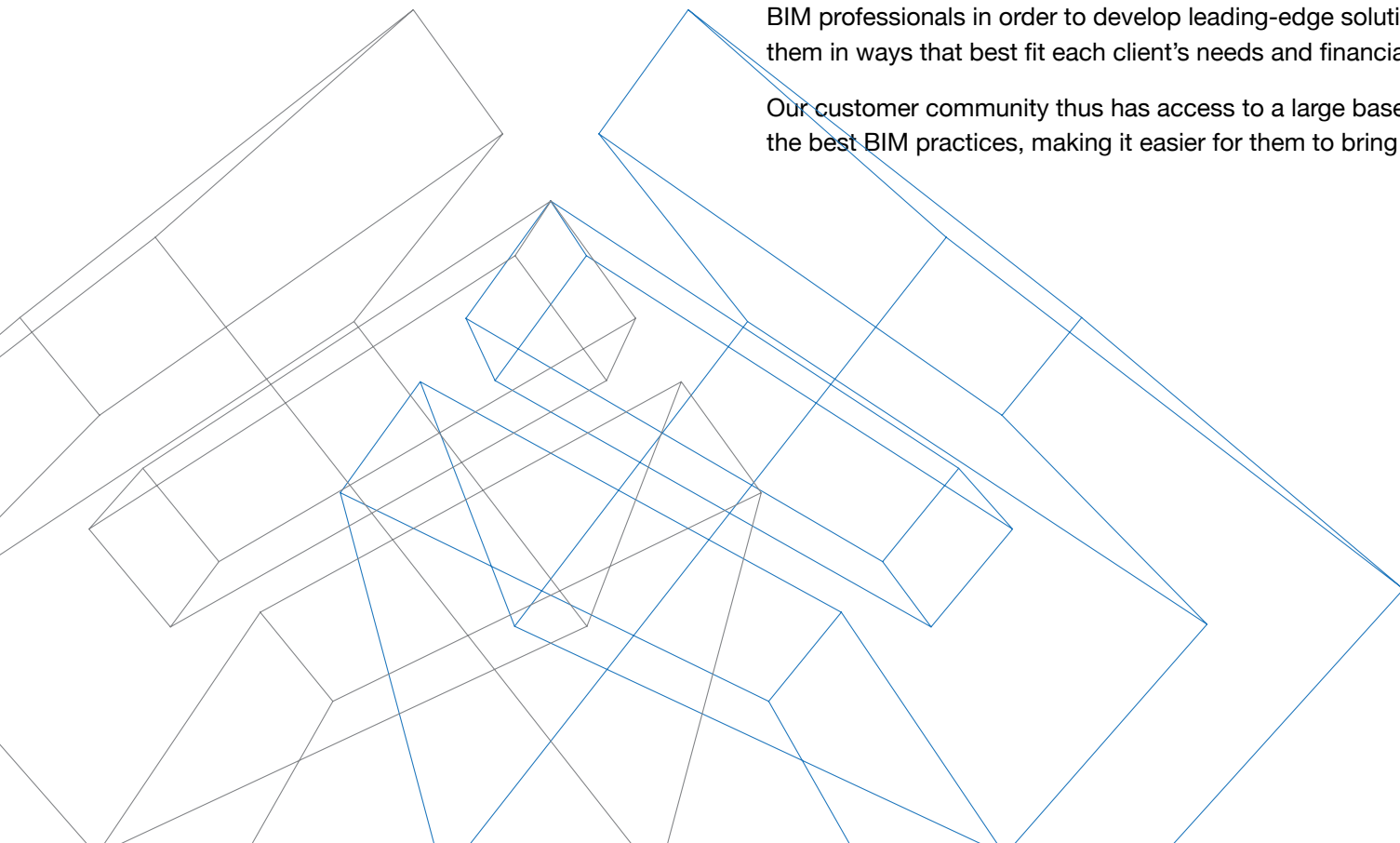
## About AGACAD

AGACAD serves BIM professionals and decision makers throughout the world, adding value and safety to the Building Information Modeling process that is changing how buildings and infrastructure are planned, designed, built, and managed.

We create solutions for continuous BIM acceleration, ensuring that clients can finish their projects on time, on budget and at the highest quality standards. The result for BIM users is greater profit and less stress.

Unlike consultants who make clients adapt to their own methodology, AGACAD gathers insights and experience from the world's most advanced BIM professionals in order to develop leading-edge solutions and deliver them in ways that best fit each client's needs and financial capacity.

Our customer community thus has access to a large base of knowledge on the best BIM practices, making it easier for them to bring BIM to life.



# For whom does AGACAD create value?

AGACAD's work is driven by our customers' needs, which we strive to meet by developing T4R© extensions and BIM Solutions:

## For Architects, Structural Engineers, and MEP Engineers

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- Solutions for the headaches that Autodesk® Revit® software can cause
- Projects completed on time and at the highest quality standards
- More time for creativity and engineering work since less time is needed for drafting

## For BIM Managers

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- BIM in a way to truly fits your needs
- Easier BIM data analysis and management with no time lost on manual data extraction
- Projects completed on time and at the highest quality standards

## For Owners and Managers of AEC Companies

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- Safer investments
- Reduced project delivery time
- Confidence in the ROI for transitioning from CAD to BIM

## BIM best practices? They're in our solutions!

Always aligned with client needs, the AGACAD team provides solutions for continuous BIM acceleration based on the insights and experience of the most advanced BIM professionals around the world. This gives all our customers access to a large knowledge base on the best BIM practices, making it easier for them to bring BIM to life.

We develop ways to speed up the design process and facilitate the BIM process in response to leading-edge users' actual needs, and incorporating their know-how. This usually means the creation of advanced software, which all who wish may acquire.

## REDUCING BIM STRESS

We help make it easier to bring BIM to life by eliminating tasks that do not create value.

# Leading Autodesk® Revit® extensions



Based on the wish lists of Revit® users worldwide

More than 10,000 Revit users in 130 countries use T4R© (Tools 4 Revit®) software for their everyday professional needs.

*Excel2R: "Our company develops Excel schedules far ahead of our model design, so it is necessary for us to include those schedules with our Revit projects. In the past, we would use AutoCAD and its datalinks to export a CAD file that we would import to Revit which was met with all kinds of inconsistent and bewildering results. Now we can with the push of a button update our schedules, and even at a glance see which schedules are out of date. Beyond that, AGACAD's support is amazing. We encountered a formatting/display issue which we informed them of, and in a very short period of time, the issue was resolved in the next version of the software. I haven't experienced anything like that with any other software company. Incredibly satisfied!"*

Freddie Kleiner, IT/Drafter at TJP Engineering, USA

*I found your tools essential. I mainly used the Legend tool because, as far as I know, it's the only one allowing the separation Left, Right.*

Dominique Compagnon, CEO and Architect at Agence D. COMPAGNON, France

*The Excel2R software works fantastically. I really cannot do without it.*

Donovan Young, CEO and Architect at Donovan Young Architecture, South Africa

*All in all, I am happy with the tools. They seem to be robust and haven't caused any problems in Revit itself that I am aware of.*

Ian Kidston, Owner of All Extension Design Service, Australia

*We have used the Sort Mark software daily, and it has been working very well. We have found it extremely useful. Actually it is a must have for us.*

Mikael Rupponen, BIM Specialist at ALA Architects Ltd, Finland

*Cut Opening: Outstanding tool. Made my day... 'cause it is easy to use and when I run the Interference check (either in Revit or Clash detective in Navis) saves time due to unnecessary clarifications and acceptance of these clashes. Thanks for this tool that thinks of our needs as designers!*

Edgardo J. Lopez, Industrial Sprinkler Corp., Puerto Rico





### Free Revit® Family Search & Sort Utility

Smart Browser Free lets you easily find families in external libraries on your computer or server, check their types and parameters, view them in 2D or 3D, then drag-and-drop to add elements to your project.



### Flexible Element and Grid Renumbering

Sort Mark can renumber any Revit® elements just the way you wish, also detecting and renumbering grids. It determines swing direction and orientation, adding them as properties, recalculates shared coordinates, and more.



### Free MEP Clash-Point Hole-Cutting Tool

Cut Opening Free uses Revit® 'Interference Check' results to automatically create holes wherever ducts, pipes, cable trays or conduits intersect walls, floors, roofs, or ceilings in a project. You can then edit the openings.



### Multi-Sheet Manager with View Control

Smart Sheets lets you create and manage large numbers of sheets in Revit® based on templates and sorting results. Add views instantly to an entire set of sheets and control alignment of positions. And update parameters for many sheets at once.



### Free Multi-Element Auto-Selection Tool

Smart Select for Revit® quickly selects room and space elements by category, family or type, and network elements for any pipe or duct; plus custom filters. Save time and avoid errors – no more manual repetition or missed elements!



### Toolbox for Wall and Join Management

Smart Walls is a powerful add-on for managing walls in Revit®, letting you rapidly disassemble layers into different wall types, fully control joins and gap distances, insert gravity points, split walls by grids, and add orientation, elevation or coordinate details.



### Excel-to-Revit® Data Import and Links

Excel2R imports Microsoft Excel spreadsheets into Revit® projects, including style settings. Tables are easily created and kept current because data are linked. This significantly speeds up project documentation.



### Versatile Floor Panel Creator and Updater

Smart Floors generates pre-stressed concrete floors in Revit® based on walls and other references, with updates when geometry changes. Just click to divide panels, and easily add or modify offsets, positions and holes. Permits core floor with finish layers.



### BIM Project Dimensioning Accelerator

Quick Dimensions enables you to automatically add dimensions to chosen elements – including in elevations and sections! Also create multiple dimension chains at one go, and join isolated dimensions to a chain.



### Beam and Truss Auto-Coping Extension

Sort & Cope eliminates the need to cope structural framing elements one by one in Revit®. This tool lets you cope trusses and other constructions in one click, cope beams by types of connection or intersection, and change coping distance or method.



### Smart Legend Creation and Easy Update

Dynamic Legend creates intelligent legends in Revit® that you can update with a click. It also splits specifications across pages, allows multiple views of any element (including real pictures), and works with linked projects.



### Room and Space Manager + HVAC Tools

RAS Manager automates work in Revit® with rooms and area-measurement rules as well as with spaces and their assignment to zones. It offers smart insertion of rooms and spaces with full engineering data and parameter values including elevations, plus tools to calculate supply and exhaust airflow.



### Overall Heat Transfer Coefficient Calculator

U-Value calculates the overall heat transfer coefficient for walls, floors, roofs, ceilings, and foundation slabs in a Revit® project, as well as for framed constructions. Materials data can be imported for the analysis and results can be exported.

## SECURING BIM BENEFITS

We boost the safety and payback of BIM investments by facilitating fit with client needs and productivity gains.

# BIM solutions for Revit® professionals

## **BIM SOLUTIONS**

Based on the needs and solved problems of the world's most progressive BIM companies

True BIM software for wood and metal framing, precast concrete design, hangers and supports design, MEP openings design and management, sprinkler design, hydraulic systems design, ventilation systems design and BIM data management

*Cut Opening provides good value for money and is a big time saver. I would say that it had already paid off on the first project. Approx 800 holes in concrete prefab elements and floors for Electrical, water and ventilation models.*

Daniel John Davies, ICT / BIM Coordinator at Balslev Consulting Engineers A/S, Denmark

*I use Smart Browser Manage every day to modify our families. We have over 15,000+ families in our library and to look after them manually would be incredibly inefficient. The time savings I gained from using this product paid for its self in the first 2 weeks of use.*

Ben McKay, CAD System Manager at Wiley & Co, Australia

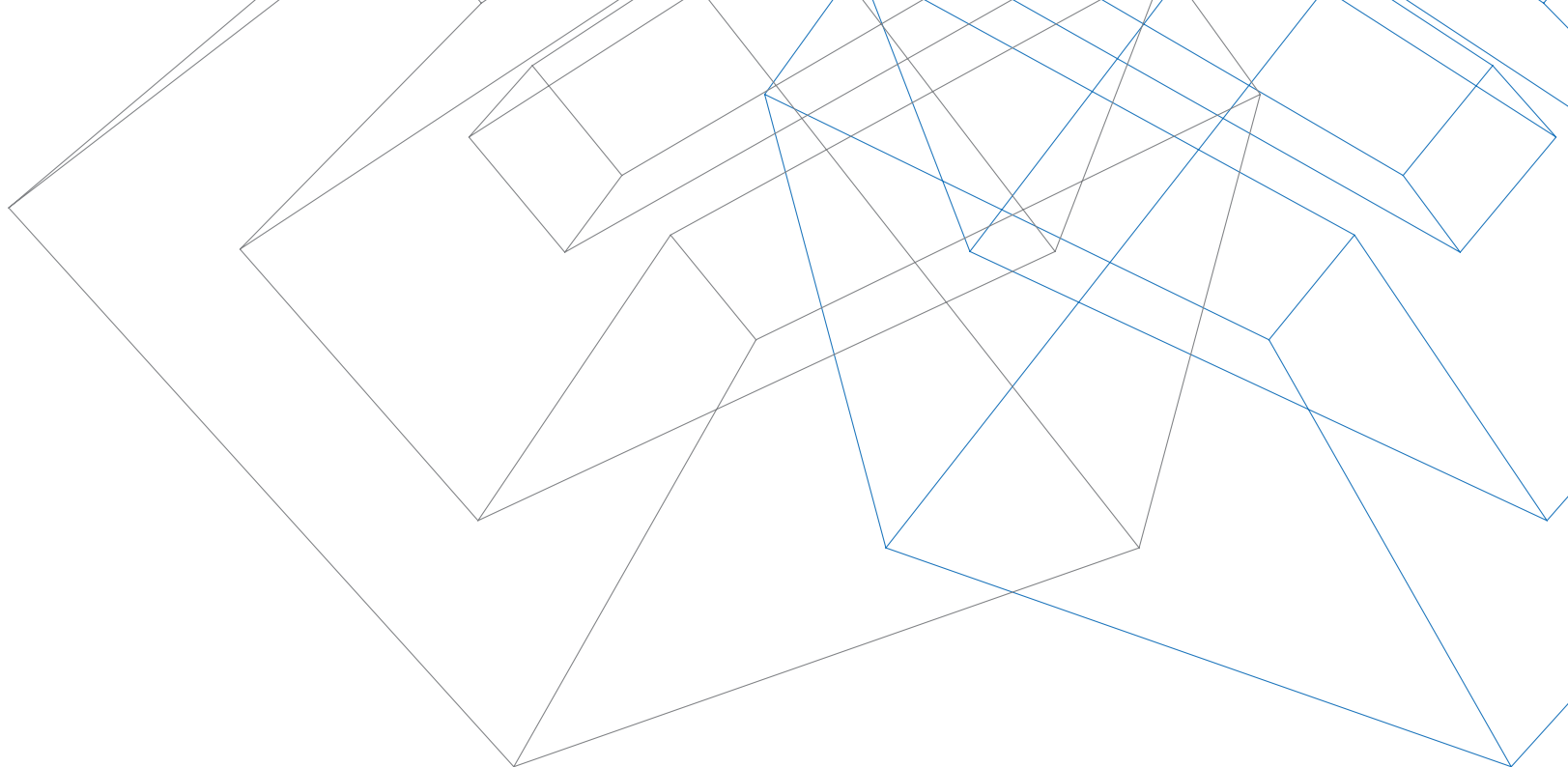
*We are very pleased with the Smart Hangers software and the customer service at AGA CAD.*

Alex Mak, BIM Operator / 3D Modeller at Entire Fire Protection Pty Ltd, Australia

*I think Rafter+ is pretty simple to use and can be very helpful. It saves a lot of time creating roof framing plans; with the advantage of creating take-offs immediately.*

Francisco Contreras Chaves, CEO and Architect at CINCO, Chile





*Truss+RT and Rafter+ are my favorite Revit add-ons. They save me 10-40% of my working time depending on the complexity of the roof. I have tried the other third part of Revit add-ons, but most have not saved any time and proved to be not a great help. In my experience these Tools4Revit add-ons are mainly nice and most useful are Revit apps.*

Heiner Dillmann, Owner of Müller & Neumeister, South Africa

*“Great Customer Services on technical support after sale, timely support on the enquiry.*

*The product Cut Opening itself was also a great time saver tools for the daily operation. The functions suits for the industry on coordination and construction deliverables. Help a lot on man power allocation.”*

Stanley Mok, Project Manager at Good Year Engineering Ltd, HKSAR

*“Wood Framing Truss+ RT allows us to model almost any type of truss, any configuration. It’s intuitive and innovative and has saved us quite a bit of time, especially in the revising and updating of roofs. Overall, AGACAD’s Wood Framing Suite is a great solution for anyone working in Revit who is looking for a more comprehensive, efficient and intuitive system for modeling roof structures. The Metal Framing Truss+ add-on allows us to be more accurate in our work, while utilizing the same truss modeling capabilities of Wood Framing Truss+ RT.*

*It has given substance to our models, which is extremely beneficial to our clients.”*

George Aslanidis, Senior CAD & BIM Technician for Structural Engineering at Thorson Baker + Associates, Inc. (TBA) (United States, Puerto Rico, Canada)





### '3-Click & Fix' Constant Quality Control

BIM Tree Manager enables easy ongoing quality checks to facilitate project integration, improve analysis, and ensure the right physical results. It's amazingly simple to: find and isolate elements in current or linked models, verify geometry and data at any LOD, and quickly fill in gaps or fix mistakes.



### Synchronous Revit® Family Management

Smart Browser Manage adds or changes BIM object parameters and values based on rules, eliminating error-prone manual work to update Revit® families. Adapt in real time to new LOD specifications, object standards, and record-model needs, keeping project and library families in sync across your full BIM team.



### Integrated Design and Creation of Holes

Cut Opening defines and reserves spaces in Revit® models for ducts, pipes, cable trays and conduits. Structural engineers and architects can then review, revise, and create the approved holes with a click. Suitable openings are designed automatically based on the location and types of clashes detected for MEP elements in current, linked, or IFC files.



### Shop Drawings & Dimensions Generation

Smart Assemblies creates the views, rules-based dimensions, and assembly sheets you need for combinations of structural and architectural elements. It thus overcomes limitations in Revit functionality, so that even manufacturers and on-site personnel can generate shop drawings easily.



### Precast Element Design & Documentation in Revit®

This is full-power BIM software for the detailed modeling of precast concrete elements in Revit®. Easily split, update and modify walls and floors. Use flexible rules to insert connection details, plates, grout tubes, anchors, etc. Get dynamic updating of assemblies for project changes, plus automatic sorting of elements, shop drawing generation and more.



### Versatile Rules-Based Object Placement

Insert Elements instantly distributes any number of objects throughout a BIM model at logically defined positions: from furniture and light fixtures to mechanical equipment and structural connections. The database of rules is customizable, and a handy dialog of project elements is drag-and-drop enabled.



### LOD 400 Modeling Automation in Revit®

Smart Details can instantly add any number of face-specific intelligent details – which adapt to host-element changes – throughout BIM models. Easily set up rules to insert or adjust details based on gravity point, depth, adjacent elements and more. Structural engineers save many hours per project.



### Air System Design & Image-to-Data Scans

Smart Diffusers is cutting-edge BIM software for ventilation systems with the unique ability to read data in manufacturer images (.pdf or .jpg), then combine that with project criteria in real time to model the optimal types, numbers, and physical distributions of air terminal devices for any space.



### Fire Protection Design and Integration

Smart Sprinklers is a powerful BIM solution for wet or dry fire protection systems suited to standards in all global regions. Pre-set or custom rules let you place heads throughout a Revit® model, connect them to distribution pipes based on visually-depicted routing options, balance system pressure, and more. All with real-time clash detection.



### Effective Management of MEP Supports

Smart Hangers enables instant large-scale insertion or revision of support elements for ducts, pipes, cable trays, conduits, and other objects throughout a Revit® model. It also offers MEP-element splitting, calculation of hanger-strength needs, instant shop drawings for assemblies, and support for IFC files.



### Heat System Auto-Creation and Balance

R-Heating automates Revit® heating-system work, adds hydraulic balancing functionality, and solves family library problems. Smart load analysis, device distribution, and system connections – with 10,000 radiator types already embedded – can easily triple productivity. It also works with cooling equipment.





### Revit® Turbocharger for Metal Frame Floors

Metal Framing Floor+ greatly accelerates steel framing work in Revit® for floors with any number of layers. It automates the modeling of members, details and openings, plus joist alignment, sheathing layouts, CNC exports and more. Finish faster and boost quality at every BIM stage: from design and documentation to fabrication and construction.



### Revit® Power Booster for Timber Frame Floors

Wood Framing Floor+ turbocharges wood framing in Revit® for floors with any number of layers. It models members, details and openings, also automating joist alignment, sheathing layouts, shop drawings and more. Export to CNC machines and CAD/CAM production lines. Finish faster and prevent errors at every BIM stage: from design and documentation to fabrication and construction.



### Metal Wall Frame Design and Drawings

Metal Framing Wall+ gives Revit® users a one-stop full-power platform for whole metal stud walls – from the auto-design of light gauge steel framing and real-time take-offs, to shop drawings and cut lists. Optional CNC output enables your model data to be automatically exported to manufacturing (Howick, Pinnacle machines etc). CNC drivers support both C+C and C+U framing types.



### Ready-to-Build Wood Wall Frame Design

Wood Framing Wall+ is a full and efficient solution for timber wall frames – from auto-design based on pre-set or custom rules, with real-time take-offs and views, to shop drawings and cut lists ready for production. Just click to edit or save configurations as templates, export to CNC machines, and more.



### Revit® Steel Roof Rafter Creator for Any Geometry

Metal Framing Rafter+ lets you quickly create full rafter systems in Revit® models for light gauge steel frame roofs of any shape or complexity. Custom-framing functions and versatile schedule generation further accelerate BIM workflow. No more drafting – just decide and design.



### Wood Rafter Systems for Any Geometry

Wood Framing Rafter+ expedites the design and documentation of wooden rafter framing for roofs of any shape or complexity. Revit® users benefit from auto-generation of rafter systems, beams, openings, and schedules, plus powerful custom-framing functions and real-time take-offs and views.



### Steel Roof Truss Creation on Demand

Metal Framing Truss+ offers a versatile platform to quickly build light gauge steel truss systems for roofs of any shape, perform structural analysis on them, and generate shop drawings with a click. Changes are easy and occur in real time, and you can export models to CNC machines for manufacturing.



### Full Wooden Truss Creation in Minutes

Truss+ RT gives Revit® users a new single robust platform to build wood truss systems in a blink, perform structural and other analyses, and generate shop drawings with a click. Functions are versatile, parameters easy to control, and changes occur in real time. No drafting – you just design and decide.



### Full-Feature Metal Roof Framing Solution for Revit®

Metal Framing Roof+ lets you quickly create even highly complex steel framing for roofs in Revit® models. Powerful features simplify roof panel layout planning, roof splitting and more. The software automates shop drawings, including the sorting, tagging, dimensioning and scheduling of all frames, as well as exports to CNC machines.



### Full-Feature Timber Roof Framing Creator for Revit®

Wood Framing Roof+ enables the quick and easy creation of even complex wood framing for roofs in Revit® models. Powerful features simplify roof panel layout planning, roof splitting and more. The software automates shop drawings, including the sorting, tagging, dimensioning and scheduling of all frames, as well as exports to CNC machines.

## Missing some Functionality? Become Our Customer!

We continually develop our existing solutions while also creating new products to meet our customers' needs.

That means every customer is wanted and every customer is important.

You are welcome to join our community and work together with us to create the best-ever tools for BIM!

## FOR THE GOOD OF THE BIM INDUSTRY

We actively support progress in the BIM industry,  
seeking to ensure a market that offers benefits for all.  
Together we can build a better BIM!  
Together we can build up the BIM industry!

Progress toward an authentic BIM industry is the responsibility of all in the AEC sectors. Many have already decided to move to BIM with AGACAD and regularly request further product development. These companies not only benefit from continuous BIM acceleration in their projects, but also contribute to the overall growth of BIM.

It's time to work together for the sake of the new BIM industry!

### **Benefits we can achieve from collaboration:**

- Less stress in daily work
- Faster design completion
- Continuous BIM acceleration
- Easier BIM
- Savings of time and money
- Increased profitability of projects
- Satisfaction with ROI

# Who we are

We are energetic and visionary engineers with expertise in computer-aided design, BIM processes and software development.

We share the expertise of the worlds' leading BIM users. It's in our solutions.

## Our Values are:

- Competence - We are qualified engineers, programmers and BIM experts who have been working in the CAD BIM market since 1991.
- Living BIM - We base our work on the real-life, cutting-edge experience of the world's most progressive BIM organizations, whom we serve by developing BIM solutions customized to their needs.
- Customer Alignment – We develop BIM tools based on the wish lists of our existing customers.
- Honesty - We say and do what we mean.
- Sincerity - We strive to respond thoughtfully and considerately to the needs of every client.
- Socially-mindedness - We actively support the development of a BIM industry that offers benefits for all.

# More facts

AGACAD is the developer of the world's widest range of true BIM software for Revit® professionals. Its solutions –with 10,000+ users in 130 countries– share top practitioners' insights and approaches and automate best practices in a spirit of 'Building BIM Together'. AGACAD is now celebrating 25 YEARS DELIVERING TOMORROW'S AEC.



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