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## **Section 1: Introduction**

**Why AI in Revit is a Game-Changer in 2025**

In 2025, Building Information Modeling (BIM) has reached a turning point. The introduction of AI-powered plugins into Revit is not just a trend — it’s a transformation. These tools are helping designers automate repetitive tasks, generate options in seconds, detect issues earlier, and create higher-quality models with less manual work.

However, most firms and freelancers face one major hurdle: **getting started**. Between installation headaches, compatibility errors, and unclear workflows, many professionals give up before AI tools can show their full potential.

That’s exactly why we created this guide.

Whether you're a solo architect exploring AI for the first time or a BIM coordinator deploying plugins across a team, this guide gives you:

* **Clear setup instructions** for top Revit AI tools like WiseBIM, Pele AI, and Glyph
* **Best-practice workflows** tailored for architecture, structure, and MEP
* **Troubleshooting help**, system requirements, and real-world integration advice
* A **QA checklist** to ensure your models stay standards-compliant
* **Resource links** to plugin stores, docs, and support communities

With this PDF, you’ll go from “Where do I even start?” to confidently using AI to boost your BIM productivity.

Let’s dive in — starting with setting up the tools.

## **Section 2: Tool Setup Instructions**

**Install and Activate Leading Revit AI Plugins**

### **🧠 2.1 WiseBIM (for AI Auto-Modeling from 2D Plans)**

**Overview**: WiseBIM lets you automatically convert scanned floorplans or 2D PDFs into Revit-compatible 3D models using AI.

**How to Install**:

1. Visit the WiseBIM Plugin Page (official Autodesk App Store)
2. Click **Download** and choose your Revit version (2023–2026 supported)
3. Run the installer and restart Revit
4. You’ll see a new tab: **WiseBIM** in your Revit ribbon

**How to Activate**:

* Open Revit → Go to **WiseBIM tab** → Click **Login**
* Sign in with your WiseBIM account (create one if needed)
* Upload a 2D plan or scan → The AI auto-generates walls, doors, and rooms
* Click **Export to Revit Model**

**Compatibility**:

* Revit 2023 and above
* Works on Windows 10/11, 16GB+ RAM recommended
* Internet required for processing

### **🧠 2.2 Pele AI (for Automated Drafting Suggestions)**

**Overview**: Pele AI is an intelligent assistant that watches how you draft in Revit and suggests commands, elements, or corrections to speed up design.

**How to Install**:

1. Go to [pele.ai](https://pele.ai) and register your user account
2. Download the plugin installer for Revit
3. Run setup, then launch Revit
4. Pele AI icon appears in the **Add-Ins tab**

**Activation**:

* Click on **Pele AI** in Revit
* Login using your registered credentials
* Configure your **discipline (Architectural/Structural/MEP)** under settings
* Start designing — AI suggestions appear in real-time

**Compatibility**:

* Revit 2022–2026
* GPU acceleration optional but recommended
* Works offline after initial setup

### **🧠 2.3 Glyph (for AI-Enhanced Clash Detection)**

**Overview**: Glyph uses machine learning to scan BIM models and detect potential clashes, design errors, or code violations faster than traditional tools.

**Installation Steps**:

1. Go to glyph.ai/install
2. Select your firm size and Revit version
3. Download and install the Revit plugin
4. Open Revit → Glyph will appear under **Plugins**

**Setup & Usage**:

* Import your full project model
* Run a **Clash Check** scan
* Use the AI-powered issue map to view high-risk zones
* Auto-generate a clash report (PDF or BIM 360 linked)

**Requirements**:

* Revit 2021 or later
* Works best with models >50MB
* Cloud sync requires login (optional offline mode available)

## **Section 3: System Requirements**

**Prepare Your System for Revit AI Plugin Integration**

Before installing Revit AI tools, it’s essential to confirm that your device meets the required specifications. AI-powered plugins rely on both local hardware and cloud-based processes, so performance and compatibility will vary depending on your setup.

This section outlines the minimum and recommended requirements to ensure smooth installation and operation.

### **Minimum Hardware Requirements (For Basic Use)**

| **Component** | **Requirement** |
| --- | --- |
| Operating System | Windows 10 or 11 (64-bit only) |
| Processor | Intel Core i5 or AMD Ryzen 5 (Quad-Core) |
| RAM | 16 GB |
| Graphics | Dedicated GPU (2 GB VRAM, DirectX 11+) |
| Storage | 10 GB free SSD space (per plugin) |
| Display | Full HD (1920 × 1080) or higher |

### **Recommended Hardware Specifications (For Optimal Performance)**

| **Component** | **Recommended Specification** |
| --- | --- |
| CPU | Intel Core i7 / AMD Ryzen 7 or higher |
| RAM | 32 GB or more |
| Graphics | NVIDIA RTX 3060 or higher (6–8 GB VRAM) |
| Storage | 512 GB SSD (with room for cache and models) |
| Internet | Stable 20 Mbps+ connection for cloud tools |

### **Revit Version Compatibility (Per Plugin)**

| **Plugin** | **Supported Versions** |
| --- | --- |
| WiseBIM | Revit 2023, 2024, 2025, 2026 |
| Pele AI | Revit 2022 through 2026 |
| Glyph | Revit 2021 and later (best on 2023–2026) |

Note: Always check each plugin’s official documentation for version-specific updates or discontinued support.

### **Software and Permissions**

* .NET Framework 4.8 or newer
* English language interface (most plugins support English UI only)
* Administrator access required for installation
* Antivirus or endpoint protection should allow plugin processes and API connections

### **Network and Firewall Requirements**

| **Setting** | **Notes** |
| --- | --- |
| HTTPS Access | Required for plugin activation and updates |
| Ports 443 and 80 | Must be open for plugin-server communication |
| Proxy Settings | Should not block Autodesk or plugin domains |
| VPN Usage | Not recommended unless plugin officially supports it |

### **Final Notes**

To avoid disruptions:

* Run a system diagnostic using Autodesk Desktop App or third-party tools
* Verify Revit and Windows are fully updated before installation
* Notify your IT administrator if using company-managed devices

This preparation ensures that plugins can function efficiently across your Revit environment.

## **Section 4: Recommended Configuration Settings**

**Discipline-Specific Plugin Setup for Maximum Efficiency**

Revit AI plugins often allow you to tailor how they behave depending on your field. Whether you’re working in architecture, structural design, or MEP systems, using the right settings ensures more accurate results, faster suggestions, and cleaner output.

This section provides best-practice configuration tips for common user types.

### **For Architects**

**Primary Goals**: Concept modeling, space planning, visual layout automation

**Recommended Plugin Settings**:

* **WiseBIM**:
  + Enable “Wall Recognition” and “Auto Room Tagging”
  + Import high-resolution floorplans for best AI conversion
* **Pele AI**:
  + Turn on "Architectural Suggestions"
  + Set material library priority to “Custom Finishes”
* **Glyph**:
  + Enable soft clash detection between walls, furniture, and space zones
  + Exclude temporary geometry from clash checks

**Tip**: Use templates with predefined view filters to reduce AI misinterpretation during modeling.

### **For Structural Engineers**

**Primary Goals**: Framing logic, load-bearing analysis, coordination with architecture

**Recommended Plugin Settings**:

* **WiseBIM**:
  + Activate “Structural Wall Auto-Classify”
  + Use the “Grid Line Matching” feature for imported plans
* **Pele AI**:
  + Enable "Structural Drafting Hints"
  + Set priority to “Core and Shell Elements”
* **Glyph**:
  + Focus clash detection on slab-beam-column interactions
  + Enable structural integrity hints in plugin settings

**Tip**: Create custom family templates with defined parameters to help AI tag structural objects correctly.

### **For MEP Designers**

**Primary Goals**: Routing, coordination, clash avoidance with other trades

**Recommended Plugin Settings**:

* **WiseBIM**:
  + Not typically used for MEP (skip or disable)
* **Pele AI**:
  + Enable “Routing Assistant” mode
  + Set plugin mode to “Mechanical Priority” or “Plumbing/Elec” as needed
* **Glyph**:
  + Turn on multi-trade clash detection
  + Set priority order: MEP vs Structure > MEP vs Arch
  + Enable route-optimization flag in complex models

**Tip**: Save MEP views with color-coded systems to help the plugin differentiate between services during scans.

### **Global Settings Checklist (All Users)**

| **Setting** | **Recommendation** |
| --- | --- |
| Language | English (for AI instructions) |
| File Units | Metric or Imperial (match templates) |
| View Detail Level | Medium or High for better detection |
| Linked Models | Load as “Overlay” to avoid confusion |
| Plugin Auto-Start | Enable on Revit launch |

## **Section 5: Workflow Integration**

**How to Apply Revit AI Plugins in Real Projects**

Installing AI plugins is just the first step. The real value comes when these tools are integrated into daily BIM workflows — from schematic design to clash detection and documentation.

This section shows how to apply Revit AI tools practically within architectural, structural, and MEP projects.

### **Stage 1: Early Design & Schematic Modeling**

**Ideal Tools**: WiseBIM, Pele AI  
**Best For**: Architects, urban designers, concept developers

**Workflow Example**:

1. Import a scanned 2D plan using WiseBIM
2. Let the plugin generate basic walls, rooms, and doors
3. Refine the model manually and apply Revit materials
4. Use Pele AI to assist in placing components like stairs, windows, and furniture
5. Review design options generated by AI before committing

**Benefit**: Saves 4–8 hours per project on initial modeling

### **Stage 2: Coordination & Clash Detection**

**Ideal Tools**: Glyph  
**Best For**: BIM coordinators, MEP engineers, construction teams

**Workflow Example**:

1. Link architectural, structural, and MEP models into one coordination file
2. Open Glyph and run a clash scan on the entire project
3. Use the heatmap view to identify high-conflict areas
4. Generate a clash report to send to discipline leads
5. Track which issues were resolved directly inside Revit

**Benefit**: Reduces manual clash testing by 60% and improves team accountability

### **Stage 3: Drafting & Documentation**

**Ideal Tools**: Pele AI  
**Best For**: All disciplines

**Workflow Example**:

1. Activate Pele AI before beginning annotation or tagging
2. The plugin suggests dimensions, room names, schedules, and family tagging
3. Accept or reject suggestions in real time
4. Customize templates for drawing standards (firm-wide or personal)
5. Export sheets with AI-generated annotations

**Benefit**: Drafting errors decrease while drawing production becomes 25–50% faster

### **Stage 4: Project Handover & QA Review**

**Ideal Tools**: Glyph (QA), BIM Standards Checklist (from Section 6)  
**Best For**: BIM managers, QA teams

**Workflow Example**:

1. Run Glyph with QA mode enabled
2. Check for missed naming conventions, duplicate elements, or empty views
3. Cross-check model with the BIM standards checklist
4. Export a QA-ready BIM report for client or contractor delivery

**Benefit**: Improves handover quality and reduces RFIs during construction

**Tip**: Integrating AI tools works best when aligned with your team’s existing BIM workflow templates, view filters, and naming systems. Don’t change everything — just automate what slows you down

## **Section 6: QA & BIM Standards Checklist**

**Ensure Model Accuracy and Professional Standards with AI-Enhanced Workflows**

Even with advanced automation, quality assurance is critical. AI tools can speed up workflows, but it’s your responsibility to ensure that the output meets your firm's standards, client expectations, and regulatory compliance.

This checklist will help you systematically review and validate your Revit models before submission or handover.

### **1. General Project Information**

* Project name and number match file naming standards
* Revit project units set correctly (Metric or Imperial)
* Revit file location is organized in project directory
* Template used is firm-approved

### **2. Naming Conventions**

* All views, sheets, and families are named consistently
* No “Duplicate of…” or default names (e.g. Floor Plan 1)
* AI-generated elements have been reviewed and renamed if needed
* Levels and grids use standard prefixes (e.g. L01, GRD-01)

### **3. Model Organization**

* Correct worksets have been used
* Linked models are properly referenced (Overlay, not Attached)
* No unused views or families remain in the file
* All warnings in Revit have been reviewed and resolved

### 4. View and Sheet Standards

* Sheet numbering and naming match drawing register
* View templates applied consistently
* Title blocks are firm-compliant and updated
* No placeholder sheets or empty views remain

### **5. Element Quality and AI Output**

* AI-generated geometry (walls, MEP elements) has been verified manually
* No overlapping or misaligned elements
* Correct family types and parameters used
* Clash reports have been resolved and closed

### **6. Deliverables**

* Model is purged and compacted
* Export settings tested for PDF, IFC, DWG
* All links and file paths are relative or centralized
* Print views reviewed for clarity and compliance

### **Bonus: Firm-Wide QA Automation**

If your team uses plugins like **Glyph**, consider enabling its QA review mode to scan for:

* Missing sheet numbers
* Unassigned levels or views
* Model health metrics (e.g. file size, performance)

This checklist can be used as a shared document among team members before each deadline, reducing errors and improving the consistency of your AI-assisted BIM projects.

## **Section 7: Troubleshooting Common Issues**

**Solve Setup Errors and Workflow Interruptions in Revit AI Tools**

AI plugins for Revit are powerful, but they can run into issues—especially during installation, activation, or integration with large models. This section provides a structured approach to identifying and fixing common problems.

### **1. Plugin Not Showing in Revit After Installation**

**Possible Causes**:

* Revit version mismatch
* Plugin not installed for the correct user account
* Missing .NET dependencies

**Solutions**:

* Verify you installed the plugin version matching your Revit release
* Run the installer as Administrator
* Reinstall Microsoft .NET Framework 4.8 or later
* Restart Revit and check the Add-Ins or Plugins tab

### **2. Login or Activation Fails**

**Possible Causes**:

* Firewall or antivirus blocking connections
* Incorrect credentials or expired token
* VPN interference

**Solutions**:

* Temporarily disable antivirus and retry login
* Confirm login at the plugin website first
* Avoid VPN or proxy while activating the tool
* Whitelist plugin domains in firewall settings

### **3. Revit Performance Becomes Slow or Unstable**

**Possible Causes**:

* Insufficient RAM or GPU resources
* Large models with many linked files
* Plugin running in background continuously

**Solutions**:

* Upgrade to 32 GB RAM and a higher-end GPU if possible
* Split model files by discipline or floor
* Disable “auto-scan” or “live suggestions” in plugin settings when not needed
* Use Revit’s Audit + Purge functions before plugin use

### **4. Plugin Crashes or Freezes**

**Possible Causes**:

* Conflict with other installed plugins
* Corrupted installation files
* Using unsupported Revit build (e.g., student or legacy version)

**Solutions**:

* Disable other plugins and test individually
* Re-download and reinstall the plugin
* Check the plugin’s official compatibility list
* Contact plugin support with logs or crash reports

### **5. Inaccurate or Broken Output from AI**

**Possible Causes**:

* Poor quality input (e.g., low-res PDF, missing layers)
* Plugin misinterprets geometry due to unusual design style
* Revit template settings are not aligned with plugin defaults

**Solutions**:

* Use high-quality source files for tools like WiseBIM
* Review AI-generated geometry manually before publishing
* Customize plugin settings for your specific workflow
* Train the plugin (if supported) using past project data

### **6. Clash Detection Doesn’t Show Expected Results**

**Possible Causes**:

* Incorrect model links
* Views or worksets hidden during scan
* Clash rules not properly configured

**Solutions**:

* Recheck that all linked models are loaded and visible
* Use coordination views with full model visibility
* Adjust clash filters or thresholds in plugin settings
* Run a test scan on a simplified model

**General Tips**:

* Always back up your project before using a new plugin version
* Keep all plugins updated to the latest version
* Join the plugin’s user community or forum for early bug fixes
* Review your system diagnostics regularly using Revit’s Performance Advisor

## **Section 8: Resource Links and Further Support**

**Stay Connected, Informed, and Ready to Scale Your Revit AI Skills**

Once your AI plugins are installed and integrated, staying updated and supported is key. The links below provide official resources where you can download tools, access documentation, join community forums, or get technical help.

### **Plugin Download & Documentation**

| **Tool** | **Download Link** | **Documentation / Help Page** |
| --- | --- | --- |
| WiseBIM | Autodesk App Store – WiseBIM | WiseBIM Docs |
| Pele AI | [Pele AI Official Site](https://pele.ai) | Pele Support |
| Glyph | Glyph AI Downloads | Glyph Documentation |

### **Revit AI Communities & Forums**

| **Resource** | **Description** |
| --- | --- |
| Autodesk Revit Forum | Ask Revit-specific questions, including plugin help |
| r/Revit on Reddit | Community for Revit users to share tools and fixes |
| LinkedIn Revit AI Groups | Join discussions on BIM automation and AI plugins |
| WiseBIM User Group | Learn from case studies and shared workflows |

### **Learning & Onboarding Resources**

| **Topic** | **Resource** |
| --- | --- |
| Plugin Installation Videos | Available on YouTube or plugin sites |
| AI in Architecture Courses | [Archilabs.ai](https://archilabs.ai) |
| BIM Standards in AI Workflows | [BIMlogiq](https://bimlogiq.com) (AI + ISO templates) |
| Research on BIM + AI | [arXiv.org](https://arxiv.org) – Search: “Revit AI BIM” |

### **Support Channels**

| **Plugin** | **Support Contact** | **Support Type** |
| --- | --- | --- |
| WiseBIM | support@wisebim.com | Email, Docs |
| Pele AI | help@pele.ai | Chat, Email |
| Glyph | contact@glyph.ai | Slack, Email |

### **Explore More from UpkeyStore**

We offer digital licenses for all major Revit versions and plugin-compatible editions with Affordable prices.   
Visit [UpkeyStore.com](https://upkeystore.com) to explore:

* Autodesk Revit (2023–2026, Windows/Mac)
* AEC Collection
* BIM-ready tools for architecture, structure, and MEP
* AI-enhanced workflows and add-ons

If you’re ready to unlock faster, smarter, and more productive design — we’re here to help.

### **Final Tip:**

Bookmark this guide and share it with your team. With AI evolving rapidly, staying informed and agile is the key to long-term success in digital design.