

ARCHICAD® 22

New Features Comparison to Earlier Versions



	ARCHICAD 22	ARCHICAD 21	ARCHICAD 20	ARCHICAD 19	ArchICAD 18	ArchICAD 17	ArchICAD 16	ArchICAD 15
BIM Modeling								
Complex, Multi-story Elements	+	+	+	+	+	+	+	+
Reshaping Elements in Any View	+	+	+	+	+	+	+	+
Curved/Profiled/Complex Walls and Columns	+	+	+	+	+	+	+	+
Use Any Number of Layers in Composite Elements	+	+	+	+	+	+	+	+
Shell Tool	+	+	+	+	+	+	+	+
Multi-Plane Roof	+	+	+	+	+	+	+	+
Model Element Connections Management	+	+	+	+	+	+	+	+
Morph Tool	+	+	+	+	+	+	+	
Priority-Based Junctions	+	+	+	+	+	+		
Link Element Heights to Stories, Adjust Walls to Slab Core	+	+	+	+	+	+		
Curved Beam	+	+	+	+	+	+		
Anchor Door/Window Reveal to Wall Core	+	+	+	+	+	+		
Air Gaps in Composite Structures: Correct Display and Handling	+	+	+	+	+			
Building Materials: Expanded Properties and Tags	+	+	+	+	+			
Surface Painter	+	+	+	+				
NURBS Definition in GDL	+	+	+					
3DM (Rhino File) Import-Export	+	+	+					
Stair Tool using "Predictive Design" Technology	+	+						
Railing Tool associative with Stairs, Slabs, Meshes, Roofs and Walls	+	+						
Complex Curtain Wall Systems with Modular Patterns	+							
Algorithmic Curtain Wall System Creation	+							
Profiled Curtain Wall Frames and Panel Edges	+							
Polygonal Curtain Wall Window	+							
Stair Headroom: Visualization and Collision Detection	+							
Parametric Profiles with Custom Geometry	+							
Visualization / 3D Operations								
3D Zones Geometry Fit to Complex Elements	+	+	+	+	+	+	+	+
Virtual Tracing - Reference Layer among all Views, Layouts	+	+	+	+	+	+	+	+
Partial Structure Display by Load-Bearing Classification	+	+	+	+	+	+	+	+
Context Sensitive Smart Cursor	+	+	+	+	+	+	+	+
3D Editing Plane	+	+	+	+	+	+	+	+
3D Feedback with Working Plane, 3D Guide Lines	+	+	+	+	+	+	+	+
Snap to Surface in 3D Window	+	+	+	+	+	+	+	
Display Story Info on Guide Lines	+	+	+	+	+	+		
Easily Editable Real-Time 3D Cutting Planes	+	+	+	+	+	+		
MAXON® CineRender Engine for Professional Visualization	+	+	+	+	+			
Physical Engine and Cameras; Grass; White Model Effect	+	+	+	+	+			









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Building Materials, incl. Surface, Priority, Thermal Property, etc.	+	+	+	+	+	+		
Background Processing Support, Optimization of Multi-core CPUs	+	+	+	+	+	+		
Revision Management – All-Round Model-Based Change Tracking	+	+	+	+	+			
CineRender in the Background using Multiple Cores	+	+	+	+	+			
Optimized OpenGL Engine for Smoother, Faster Navigation	+	+	+	+				
Tab-based Navigation	+	+	+	+				
User-Defined Element Properties	+	+	+					
Mass Import of Element Property Data	+	+	+					
Flat User Interface	+	+	+					
Graphical Favorites	+	+	+					
Retina Display Fully Supported on Mac	+	+	+					
Touch Bar Support for Apple MacBook Pro	+	+						
Enhanced Parameter Transfer between Elements	+	+						
Advanced Element Classification and Classification Management & exchange	+	+						
Collision Detection Between Model Elements	+	+						
Priority Based Selection Highlights for Walls on Floor Plan	+							
Expression Defined Property Values	+							
Smooth Pan and 2D Navigation in Vectorial Model Views	+							
High Resolution Support on WIN	+							
Integrate with Engineering, OPEN BIM								
Predefined IFC Export/Import Settings (IFC Translation Setup)	+	+	+	+	+	+	+	+
Detect Changes Between IFC Model Versions	+	+	+	+	+	+	+	+
Distinguish XREF Layers from other Layers	+	+	+	+	+	+	+	+
Merge Model Content to an Existing IFC File	+	+	+	+	+	+	+	+
Support for FM-specific IFC Data: Classification Reference, Space Occupant and etc.	+	+	+	+	+	+	+	
Standard Classification Systems (OmniClass, Uniclass, etc.)	+	+	+	+	+	+	+	
Export to COBie	+	+	+	+	+	+		
Multilevel IFC Assignment (Group, System, Zone) Support	+	+	+	+	+	+		
Site Context Element Definition	+	+	+	+	+	+		
IFC Format Supported in Publisher	+	+	+	+	+	+		
Optimized PDF Export with Layers	+	+	+	+	+			
Flexible Editing of Placed PDF Drawings	+	+	+	+	+			
BIM Collaboration Format (BCF) Support	+	+	+	+	+			
Scheme-Driven IFC Data Management on Type and Instance Levels	+	+	+	+	+			
Custom Mapping of Model Parameters and Quantities to IFC Data	+	+	+	+	+			
Export of All BIM Properties as IFC Data	+	+	+	+	+			
Use IFC data in Documentations (Labels, Schedules) and Element Search Criteria	+	+	+	+	+			
Certified Import-Export of IFC2x3 Coordination View v2.0	+	+	+	+	+			

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PLN Format Snapshots to Quickly Recover project Data in ARCHICAD	+	+	+	+	+	+	+	
Browser-Based Management interface	+	+	+	+	+			
Horizontal Scaling Across Multiple Computers	+	+	+	+	+			
Optimization for Remote Teams	+	+	+	+	+			
Team Messaging with Views	+	+	+	+	+			
BIMcloud Control Center: Single Entry Point for Server Management	+	+	+	+				
Network Diagnostic Tool	+	+	+	+				
Communication with BIMx	+	+	+	+				
BIMx PRO License Included	+	+	+	+				
Easy Management of Teamwork Libraries	+	+	+					
Server Communication in a Separate Thread	+	+	+					
Complete and Automatic Server Backups/Restores	+	+						
Support Multiple ARCHICAD Versions on a Single Server	+	+						
Reservation Assistant	+							