

# ARCHICAD 21 and STAR(T) Edition® Feature Comparison Chart

	ARCHICAD 21	SE 2018	SE 2017
<b>Modeling</b>			
Complex, Multi-story Elements	+	+	+
Floor-plan Display Options for Construction Elements	+	+	+
Multi-Plane Roof	+	+	+
Priority Based Connections	+	+	+
Profiled, Slanted Walls, Columns, Beams via the Profile Manager	+	+	+
Curved Profiled Walls and Complex Elements	+	+	+
Shell Tool	+	+	+
Morph Tool	+	+	+
Automatic Model-Based Junctions	+	+	+
Edit Multiple Elements Simultaneously	+	+	+
Composites Without Cores	+	+	+
NURBS Definition in GDL	+	+	+
Sketchup v2016 Support	+	+	+
Stair Tool using "Predictive Design" Technology	+	+	
Railing Tool associative with Stairs, Slabs, Meshes, Roofs and Walls	+	+	
Building Materials and Custom Profiles to GDL Elements	+	+	
3DM (Rhino File) Import-Export	+		
Link Element Heights to Stories	+		
Curtain Wall Tool	+		
<b>Visualization / 3D Exploration</b>			
Internal Rendering Engine	+	+	+
Virtual Tracing - Reference Layer among all Views, Layouts	+	+	+
3D Zones Geometry Fit to Complex Elements	+	+	+
Partial Structure Display	+	+	+
3D Feedback with Working Plane, 3D Guidelines	+	+	+
3D Editing Plane	+	+	+
Snap to Surface in 3D Window; Move & Elevate in One Step	+	+	+
Real-Time Editable 3D Cutting Planes	+	+	+
Two-point Perspective	+	+	+
3D Styles	+	+	
Monochrome Model Visualization	+	+	
Sketch Rendering	+		
CineRender Engine R18	+		
<b>Documentation</b>			
3D Document: Dimensioned and Annotated 3D Views	+	+	+
Interactive, Annotated Door/Window Schedules	+	+	+
Scale Dependant Detailing	+	+	+
Interactive Schedule Data Export to Excel	+	+	+
External Drawings (PDF/DWG/Image from/to SE)	+	+	+
Import Site Survey Geometry as Morphs	+	+	+
Floor-plan Based 3D Document	+	+	+
BIMx Hyper-model Export	+	+	+
Element Previews in Schedules	+	+	+
Text Style Favorites	+	+	
Autotext-based Layers	+	+	

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<b>Workflow-Productivity-Project Management-Performance</b>			
Integrated Layouting, Layout Book	+	+	+
Markup Tools	+	+	+
Supersafe Autosave	+	+	+
Single, Unified Undo Queue for the Entire Project	+	+	+
Easy Creation of Custom Library Parts with Modifiable Attributes	+	+	+
Building Materials, Smart Attribute Management	+	+	+
Conceptual Design with Morph Scheduling	+	+	+
Duplicate Elements in Section and Elevation View	+	+	+
Background Processing Support for Faster Performance	+	+	+
Flexible Editing of Placed PDF Drawings	+	+	+
PDF-Based Data Exchange – Optimized Export, with Layers	+	+	+
Easy Attribute Management/Handling	+	+	+
Snap Points and Guide Lines	+	+	+
Tab Bar on Windows and Mac	+	+	+
Mac Interface: Unified Window Mode with Docking Palettes	+	+	+
List Skin/Component Area in Interactive Schedule	+	+	+
Schedule of Finishes	+	+	+
Predictive Background Processing for Nearly Instant Model Views	+	+	+
Optimized OpenGL Engine for Smoother, Faster Navigation	+	+	+
Surface Painter	+	+	+
Flat User Interface	+	+	+
Vectorial Icons	+	+	+
Graphical Favorites	+	+	+
Retina Display Fully Supported on Mac	+	+	+
User-Defined Element Properties	+	+	+
Touch Bar Support for Apple MacBook Pro	+	+	
Advanced parameter transfer between elements	+	+	
Distribute Along Path	+	+	
Section/Elevation Depth Control	+	+	
Multithreading Available on Unlimited Number of Cores	+		
Project Publisher	+		
(Multi-story) Hotlinked Modules	+		
License Borrowing, NET License	+		
Integrated Building Energy Evaluation	+		
Mass Import of Element Property Data	+		
Revision Management	+		
Publish Layers to PDF from Layout	+		
Publish Element Information for BIMx hyper-models	+		
Renovation Feature with Element-level Statusing	+		
IFC Publishing	+		
PDF Markup Import	+		
Integrated Collision detection between model elements	+		

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<b>Communication; I/O; Interoperability - PLN, PLA, TPL, MOD File Import</b>			
AutoCAD DWG/DXF Import/Export	+	+	+
Convert Surveyor's Data into ARCHICAD Mesh	+	+	+
Integrated IFC Import/Export Engine, Property Management	+	+	+
Building Element Classification for MEP & Structural Engineering	+	+	+
Data Exchange with Structural Software	+	+	+
Save Elements to Common DWG Blocks	+	+	+
Google Earth and SketchUp Connection	+	+	+
IFC Support for Multiple Standards	+	+	+
PDF/A Export	+	+	+
3D Screenshots	+	+	+
BIM Collaboration Format (BCF)-Based Data Exchange	+	+	+
Scheme-Driven IFC Data Management and Export	+	+	+
ARCHICAD BIM Parameters & Quantity Mappings to IFC Data	+	+	+
Certified Import and Export of IFC 2x3 Coordination View v2.0	+	+	+
Exact IFC Geometry Import; Attribute Handling/Overrides	+	+	+
ID Management of IFC Spatial Elements	+	+	+
Advanced Import of MEP Models w/ Automatic Detection/Conversion	+	+	+
Streamlined IFC data mapping of Library Part Parameters	+	+	+
IFC4 Import-Export	+	+	+
Survey Point Definition	+	+	+
Full Control of IFC Translators	+	+	
Element Classification Management	+	+	
Export Multiple Layouts into Single DWG	+		
Save Exploded DWG Drawings to a Single Layer	+		
DXF/DWG External Reference Support (Xref)	+		
Point Cloud Display	+		
EDU / Trial File Format Support	+		
PMK File Format Support	+		
Export Model to STL Format	+		
Criteria-based Graphic Overrides for Design Communications	+		
Export to gbXML	+		
Export to PHPP	+		
IFC Hotlinks, Classification and Property Management in Hotlinks	+		
ARCHICAD 21 File Open   Save	+ +	- -	- -
EDU File Open   Save	+ -	- -	- -
SE 2016 File Open   Save	+ -	+ -	+ -
SE 2017 File Open   Save	+ -	+ -	+ +
SE 2018 File Open   Save	+ -	+ +	- -
<b>Library</b>			
Model View Options for Library Parts	+	+	+
Embed Only Necessary Library Objects in the Project	+	+	+
Library Migration, Library Management	+	+	+
Keyword Based Search Function Finds Library Parts	+	+	+
Double-Quick Library Loading Times, Fast 3D Handling	+	+	+
Simplified Door/Window UI	+	+	+
No Character Number Limit in Lib Part Names	+	+	+
Embedded Libraries Extracted into Virtual File System	+	+	+
OpenGL Previews in Object Settings	+	+	+

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<b>Teamwork &amp; BIM Server</b>			
Teamwork Extended to Documentation Process - Layouts	+		
BIM Server - Model Based Team Collaboration	+		
Reservation Methods	+		
Instant Team Communication	+		
Delta-Server for Fast and Safe Data Exchange in Teamwork	+		
Control Over Client-Server Technology	+		
Portability and Remote Access	+		
BIM Server Optimized: Autosave Backup, Faster Performance	+		
BIMcloud Control Icon: Single Entry Point for Server Management	+		
Network Diagnostic Tool for all BIMcloud/BIM Server components	+		
Easy Management of Teamwork Libraries	+		
Complete and automatic server backups/restores	+		
Support multiple ARCHICAD versions on a single server	+		