

# ARCHICAD 23 and STAR(T) Edition® Feature Comparison Chart

	ARCHICAD 23	SE 2020	SE 2019
<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	+	+	+
Custom Geometry Modifiers in Profiles	+	+	+
Stair and Railing Tool Further Enhancements	+	+	+
Advanced Column and Beam Tools	+	+	
Opening Tool	+	+	
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	+	+	+
Renewed, built-in Surface Catalog	+	+	
Sketch Rendering	+		
CineRender Engine R20	+		

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<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 Labels	+	+	+
Rich Text in GDL-Related Texts	+	+	+
Reassociation of a Label to another element using Cmd/Ctrl + Click	+	+	+
New System Autotext for today's date	+	+	+
Multi-selection editing supported by Interactive Schedule	+	+	+
Enhanced Security Options for PDF	+	+	+
Custom Graphical Label	+	+	+
Improved 2D Representation and Documentation Improvements for Columns and Beams	+	+	
Improved 2D representation of certain hidden element types	+	+	
Floor Plan Representation Improvements of Connected Slabs	+	+	
<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	+	+	+

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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	+	+	+
High Resloution Support on WIN	+	+	+
Improved Performance of Morph Elements	+	+	+
Smooth Pan and 2D Navigation for Vectorial Model Views	+	+	+
Simplified Selections Palette with Modernized Interface	+	+	+
New Work Environment Option	+	+	+
Selection of Overhead Elements in Floor Plan by their outline	+	+	+
Element Transfer Settings Home Story definitions updated	+	+	+
Automatically detected logical zone by the "Reference line" algorithm	+	+	+
Updated interface for Sun Study and Create Fly-Through dialogs	+	+	+
New algorithm for calculating Sun position	+	+	+
Multi-selection supported by Work Environment lists	+	+	+
New Info Box command for all Library parts to "Reset to Default Settings"	+	+	+
Trackpad support for Mac	+	+	+
GRAPHISOFT ID - Unified Login	+	+	+
Updated Model View Options Dialog	+	+	+
Updated Attribute Manager Dialog	+	+	+
Introduction of Decimeters in Project Preferences / Working Units	+	+	+
Priority-based Selection Highlights of Walls on Floor Plan	+	+	+
Expression Defined Property Values	+	+	+
Optimized raw performance	+	+	
Reduced file size	+	+	
Faster opening of projects	+	+	
Faster IFC import-export	+	+	
Instant switching between tabs	+	+	
Reduced rebuilding time of model views	+	+	

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	ARCHICAD 23	SE 2020	SE 2019
New Startup Dialog	+	+	
New Action Center	+	+	
Open multiple project with one click	+	+	
Activate the desired design views with Tab Previews	+	+	
Simplified Shell and Morph Input Dialogs	+	+	
Updated Info Box panels of the Zone and Label tools	+	+	
Sunlight Settings provide live feedback about the cast- and self shadows	+	+	
Sun Study animations displayed with customized date and time options, and location stamp	+	+	
Text Label Pointer lines options	+	+	
Unique IDs in View Settings	+	+	
Integrated Software Key Activation & Deactivation	+	+	
Delete and Replace Dialog Improvements	+	+	
Search in Work Environment	+	+	
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	+		
Element Transfer Settings: New options for Curtain Wall	+		
Collision Detection Enhancements	+		
Curtain Wall Renewal	+		
Curtain Wall Enhancement with fixed window or louver sash	+		
Curtain Wall Profiled Edge Panels can be moved to any position	+		

# ARCHICAD 23 and STAR(T) Edition® Feature Comparison Chart

	ARCHICAD 23	SE 2020	SE 2019
<b>Communication; I/O; Interopereability - PLN, PLA, TPL, MOD File Import</b>			
AutoCAD DWG/DXF Import/ExportDWG/DXF	+	+	+
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	+	+	+
Layer Mapping at IFC Model Import	+	+	+
Import of NURBS Geometry from IFC Files	+	+	+
Import of IFC Properties as ARCHICAD Properties	+	+	+
Export of Component Quantities and Properties to IFC	+	+	+
IFC Schema Compatibility and Import Improvements	+	+	
IFC Schema Filtering	+	+	
Bluebeam Connection *	+		
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	+		

# ARCHICAD 23 and STAR(T) Edition® Feature Comparison Chart

	ARCHICAD 23	SE 2020	SE 2019
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	+		
Rhino-Grasshopper-ARCHICAD live connection	+		
ARCHICAD 23 File Open   Save	+ +	- -	- -
EDU File Open   Save	+ -	- -	- -
SE 2017 File Open   Save	+ -	+ -	+ -
SE 2018 File Open   Save	+ -	+ -	+ -
SE 2019 File Open   Save	+ -	+ -	+ +
SE 2020 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	+	+	+
New Detail Level Geometries for Generic Library Parts	+	+	+
New Detail Level Settings for Library Parts in the Model View Options	+	+	+
Enhanced Ramp Library Part	+	+	
Enhanced Elevator Library Part	+	+	
Window Library Element Improvements	+	+	
<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	+		

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	ARCHICAD 23	SE 2020	SE 2019
Easy Management of Teamwork Libraries	+		
Complete and automatic server backups/restores	+		
Support multiple ARCHICAD versions on a single server	+		
Improved Performance of Teamwork Element Reservation	+		

\* Blubeam connection is part of the US ARCHICAD package only, all other versions must download and install the free add-on.