



For the architectural, engineering, and construction (AEC) industry professional, Vectorworks Architect provides a great deal of value-added, industry-specific functionality to the already powerful foundation of Fundamentals. While Fundamentals is a valuable general modeling and drawing tool, Vectorworks Architect gives industry professionals a complete solution to design, model, share, and document projects. If you need to extend your reach further into landscape and site design, or even entertainment design, consider Vectorworks Designer.

	Fundamentals	Architect	Architect's Benefits
Interface and Workflows			
Object Information Palette	✓	✓	
Resource Manager	✓	✓	
Multiple View Panes	✓	✓	
Vectorworks scripting using Python 3	✓	✓	
Navigation Palette		✓	Quick access to the organization of your file, including classes, design and sheet layers, viewports and references.
Visualization Palette		✓	Centralized control of lighting objects in models
Marionette Graphical Scripting		✓	Extend Vectorworks functionality by creating custom tools, exploring complex parametric forms, and automating workflows with integrated visual programming
Project Sharing		✓	Collaborate on projects with other Vectorworks users in your office
Powerful 3D			
Core 3D modeling tools and commands	✓	✓	
Basic light source object and lighting options	✓	✓	
High-quality rendering with Renderworks	✓	✓	
Subdivision modeling	✓	✓	
Advanced 3D modeling, manipulation, and editing tools and commands		✓	Additional tools and commands to create and manipulate objects
Advanced lighting objects and options		✓	Create accurate daylighting and shadow studies with a physical sun connected to your project's geographic location
2D Drawing and Documentation			
Best-in-class 2D shape creation and editing tools	✓	✓	
WYSIWYG text and annotation features	✓	✓	
Hyperlinks	✓	✓	
Database worksheets	✓	✓	

Images in worksheets	✓	Enhance the graphic quality of schedules with images of objects and symbols
Preformatted, typical object schedules	✓	Get a quick start using common object schedules, such as Doors, Windows, and Room Finishes
Data visualization in viewports	✓	Control the graphic attributes of objects in viewports, based upon data and parametric values, creating dynamic presentations without changing model parameters.
Automatic Document Coordination and advanced documentation tools	✓	Generate and easily coordinate 2D technical documentation directly from the model, with plan, section, elevation, and detail views linked to typical graphical markers on drawings, as well as a central keynote database and automated title block and document issue management

BIM

Simplified building modeling tools and commands (Walls, Roofs and Roof Faces, Floors, Columns and Simple Stair)	✓	✓
Variety of generic furniture, fixture, and equipment objects	✓	✓
Fully-featured building model objects with advanced configuration, multi-component, and style controls (including Doors, Windows, Slab, Space, Stair, Ramp, Structural Member, Railing, and more).		✓
Building Stories and Level constraints		✓
Advanced space planning tools		✓
Core site model creation and editing tools		✓
Manufacturer-specific object libraries, from Vectorworks content partners and bimobject		✓
Detailing objects and tools		✓
Core HVAC, mechanical, electrical, and plumbing tools		✓
Energos		✓

Interoperability

Publish command enabling advanced options for batch printing and export of PDF, DWG/DXF, or DWF files.	✓	✓	
DWG, DXF, and DWF export and import	✓	✓	
3DM, STL, and OBJ export and import	✓	✓	
IFC2x3 and IFC4 export and import		✓	Use the international openBIM® data standard to exchange important BIM geometry and data for design and coordination
PDF import		✓	Import PDF documents and details to enhance your own documentation with regulatory forms and specific manufacturer information
3DS export		✓	Share models and projects with external modeling and rendering platforms
3D PDF export		✓	Provide models to clients in 3D via PDF documents and viewers
SHP import		✓	Import GIS data to create accurate site plans and models
SKP import / COLLADA export		✓	Share objects and other design models via 3D Warehouse and SketchUp by Trimble, Inc.
RVT and RFA import		✓	Import Autodesk Revit model and family files as references or translate to native Vectorworks objects
Web View virtual reality export		✓	Easily share your models on any web-enabled device, with immersive VR modes, without the need for special software
External database connections and management via ODBC		✓	Leverage the power of a completely external database to link and manage data in Vectorworks objects and models