

# Comparison of Commands and Tools by Product for Vectorworks 2019

This document lists all of the commands and tools available in this version of Vectorworks software, and the products in which they are available. This allows you to easily compare features side by side for each product.

The first section covers commands on both regular menus and context menus. The second section covers tools in every tool palette and tool set.

## Vectorworks 2019 Product Comparison: Commands

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Command	Path	F	D	A	L	S	B
1-1/2 Space	Text > Spacing	X	X	X	X	X	X
2D Component Options	Object Context Menu	X	X	X	X	X	X
2D Plan	View > Projection	X	X	X	X	X	X
2D Polys to 3D Source Data...	AEC > Survey Input		X	X			
2D Polys to 3D Source Data...	Landmark > Survey Input				X		
3D Polys to 3D Loci...	AEC > Survey Input		X				
3D Polys to 3D Loci...	Landmark > Survey Input				X		
3D Properties...	AEC > Machine Design		X	X			
3D Properties...	Landmark > Machine Design				X		
3D Properties...	Spotlight > Machine Design					X	X
<Esc><Esc> does not exit group	Window > Edit Group Options	X	X	X	X	X	X
<Esc><Esc> exits group	Window > Edit Group Options	X	X	X	X	X	X
About Vectorworks	Help (Windows only)	X	X	X	X	X	X
About Vectorworks	Vectorworks (Macintosh only)	X	X	X	X	X	X
About...	Cloud	X	X	X	X	X	X
Activate Class	Document Context Menu	X	X	X	X	X	X
Activate Class	Object Context Menu	X	X	X	X	X	X
Activate Layer	Document Context Menu	X	X	X	X	X	X
Activate Layer	Object Context Menu	X	X	X	X	X	X
Activate Object Info Palette	Document Context Menu > Palettes	X	X	X	X	X	X
Activate Object Info Palette	Window > Palettes	X	X	X	X	X	X
Active Layer Scale...	Document Context Menu	X	X	X	X	X	X
Active Only	Document Context Menu > Class Options	X	X	X	X	X	X
Active Only	View > Class Options	X	X	X	X	X	X
Active Only	Document Context Menu > Layer Options	X	X	X	X	X	X
Active Only	View > Layer Options	X	X	X	X	X	X
Add 3D Object To Slab...	AEC		X	X			
Add 3D Object To Slab...	Landmark > Architectural				X		
Add 3D Object To Slab...	Spotlight > Architectural					X	X
Add Area Modifier to Space	Object Context Menu		X	X	X	X	X
Add Dimension	Object Context Menu	X	X	X	X	X	X
Add Leader Line	Object Context Menu	X	X	X	X	X	X
Add Point Loads at Selection...	Braceworks		+				X
Add Solids	Model	X	X	X	X	X	X
Add Specific Marker	Object Context Menu		+			X	X
Add Surface	Modify	X	X	X	X	X	X
Add Text to Database...	Text		X	X	X	X	X
Administrative Release...	Object Context Menu		X	X	X	X	X
Align Bottom	Object Context Menu	X	X	X	X	X	X

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Command	Path	F	D	A	L	S	B
Align Center	Object Context Menu	X	X	X	X	X	X
Align Layer Views	View	X	X	X	X	X	X
Align Left	Object Context Menu	X	X	X	X	X	X
Align Middle	Object Context Menu	X	X	X	X	X	X
Align Right	Object Context Menu	X	X	X	X	X	X
Align Stakes Vertically...	AEC > Roads		X				
Align Stakes Vertically...	Landmark > Roads				X		
Align to Grid	Modify > Align	X	X	X	X	X	X
Align Top	Object Context Menu	X	X	X	X	X	X
Align Working Plane with Current View	Document Context Menu > Working Plane	X	X	X	X	X	X
Align Working Plane with Current View	Modify > Working Plane	X	X	X	X	X	X
Align Working Plane with Layer Plane	Document Context Menu > Working Plane	X	X	X	X	X	X
Align Working Plane with Layer Plane	Modify > Working Plane	X	X	X	X	X	X
Align Working Plane X Axis with Layer Plane	Document Context Menu > Working Plane	X	X	X	X	X	X
Align Working Plane X Axis with Layer Plane	Modify > Working Plane	X	X	X	X	X	X
Align/Distribute 3D...	Modify > Align	X	X	X	X	X	X
Align/Distribute Leader Lines...	Modify > Align	X	X	X	X	X	X
Align/Distribute...	Modify > Align	X	X	X	X	X	X
Allow numeric keypad entry for instant data bar activation	Window > Data Bar Options	X	X	X	X	X	X
Animate Scenes...	Spotlight > Visualization		+			X	X
Arc into Segments...	Modify > Drafting Aids	X	X	X	X	X	X
Arc Smoothing	Modify > Poly Smoothing	X	X	X	X	X	X
Architect	Tools > Workspaces		X	X			
Arrange Icons	Window	X	X	X	X	X	X
Artistic Brush Brown Thin	View > Renderworks Style	X	X	X	X	X	X
Artistic Chunky Thick Purple	View > Renderworks Style	X	X	X	X	X	X
Artistic Cloned Thin Green	View > Renderworks Style	X	X	X	X	X	X
Artistic Pencil Thick Blue	View > Renderworks Style	X	X	X	X	X	X
Artistic Renderworks	View > Rendering	X	X	X	X	X	X
Artistic Renderworks Options...	View > Rendering	X	X	X	X	X	X
Artistic Shadow Blue	View > Renderworks Style	X	X	X	X	X	X
Artistic Taper Thick Black	View > Renderworks Style	X	X	X	X	X	X
Assign Legend Properties to Selected	Object Context Menu		X			X	X
Assign Legend to Instruments...	Object Context Menu		+			X	X
Assign Legend to Instruments...	Spotlight > Label Legend		+			X	X
Assign Multicable Circuits...	Spotlight > Cables		+			X	X
Assign Origin to Selected Hoists	Spotlight > Hoists		+			X	X
Assign to Selection (from Navigation palette)	Object Context Menu		X	X	X	X	X

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Command	Path	F	D	A	L	S	B
Attach Loads	Object Context Menu		X			X	X
Attach Record...	Tools > Records	X	X	X	X	X	X
Attach to a Hanging Position	Object Context Menu		X			X	X
Attributes	Document Context Menu > Palettes	X	X	X	X	X	X
Attributes	Window > Palettes	X	X	X	X	X	X
Auto cycle to non-displayed fields when tabbing past last field	Window > Data Bar Options	X	X	X	X	X	X
Auto Number Positions	Spotlight		+			X	X
Auto-Hide Docked Palettes	Window > Palette Options	X	X	X	X	X	X
Auto-Hide Floating Palettes	Window > Palette Options	X	X	X	X	X	X
Back	View > Standard Views	X	X	X	X	X	X
Basic	Window > Palettes	X	X	X	X	X	X
Batch Convert...	File	X	X	X	X	X	X
Belt Length Calculator...	AEC > Machine Design		X	X			
Belt Length Calculator...	Landmark > Machine Design				X		
Belt Length Calculator...	Spotlight > Machine Design					X	X
Bezier Spline Smoothing	Modify > Poly Smoothing	X	X	X	X	X	X
Bold	Text > Font Style	X	X	X	X	X	X
Bottom	View > Standard Views	X	X	X	X	X	X
Bottom	Text > Alignment	X	X	X	X	X	X
Bottom Baseline	Text > Alignment	X	X	X	X	X	X
Braceworks	Tools > Workspaces		X				X
Braceworks Preferences...	Braceworks		+				X
Bridle Preferences...	Spotlight > Rigging		+			X	X
Cable Preferences...	Spotlight > Cables		+			X	X
Calculate All Objects...	Braceworks		+				X
Calculate Load Combinations...	Braceworks		+				X
Calculate Selection...	Braceworks		+				X
Calculate Visible...	Braceworks		+				X
Calculation Overview...	Braceworks		+				X
Cancel All Viewport Updates	View	X	X	X	X	X	X
Cascade	Window	X	X	X	X	X	X
Center	Text > Alignment	X	X	X	X	X	X
Center	Text > Alignment	X	X	X	X	X	X
Center Drawing on Internal Origin	Tools > Origin	X	X	X	X	X	X
Centroid	AEC > Machine Design		X	X			
Centroid	Landmark > Machine Design				X		
Centroid	Spotlight > Machine Design					X	X
Chain Length Calculator...	AEC > Machine Design		X	X			

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Chain Length Calculator...	Landmark > Machine Design				X		
Chain Length Calculator...	Spotlight > Machine Design					X	X
Change All Fields...	Tools > Records	X	X	X	X	X	X
Change One Field...	Tools > Records	X	X	X	X	X	X
Change Plant Grouping	AEC > Plants		X				
Change Plant Grouping	Landmark				X		
Change Plant Grouping	Object Context Menu				X		
Change Symbol Attrs...	Tools > Utilities	X	X	X	X	X	X
Check for Updates	Help (Windows only)	X	X	X	X	X	X
Check for Updates	Vectorworks (Macintosh only)	X	X	X	X	X	X
Check Out...	Modify		X	X	X	X	X
Check Out...	Object Context Menu		X	X	X	X	X
Check Spelling...	Text	X	X	X	X	X	X
Choose Plant Data Source...	AEC > Plants		X				
Choose Plant Data Source...	Document Context Menu				X		
Choose Plant Data Source...	Landmark				X		
Circuit Assign Preference...	Spotlight > Cables		+			X	X
Class and Layer Mapping...	Tools		X	X	X		
Clear	Edit	X	X	X	X	X	X
Clear Calculation Results	Braceworks		+				X
Clip Cube	View	X	X	X	X	X	X
Clip Surface	Modify	X	X	X	X	X	X
Close	File	X	X	X	X	X	X
Close Active View Pane	Object Context Menu	X	X	X	X	X	X
Close Active View Pane	View > Multiple View Panes	X	X	X	X	X	X
Close All	Window	X	X	X	X	X	X
Close and Release	File		X	X	X	X	X
Cloud Publish...	Cloud	X	X	X	X	X	X
Combine Into Surface	Modify	X	X	X	X	X	X
Compose	Modify	X	X	X	X	X	X
Compress Images...	Tools	X	X	X	X	X	X
Conductor Sizing Calc...	AEC > Electrical		X	X			
Conduit Sizing Calc...	AEC > Electrical		X	X			
Control Values for Keys...	AEC > Machine Design		X	X			
Control Values for Keys...	Landmark > Machine Design				X		
Control Values for Keys...	Spotlight > Machine Design					X	X
Conversion Factors...	AEC > Machine Design		X	X			
Conversion Factors...	Landmark > Machine Design				X		
Conversion Factors...	Spotlight > Machine Design					X	X

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Command	Path	F	D	A	L	S	B
Convert Arc to Radius Polyline	Object Context Menu	X	X	X	X	X	X
Convert Copy to Lines	Modify > Convert	X	X	X	X	X	X
Convert Copy to Polygons	Modify > Convert	X	X	X	X	X	X
Convert Object to Dimension	Modify > Convert	X	X	X	X	X	X
Convert Old Notes to New...	Text		X	X	X	X	X
Convert Text to Polylines	Text	X	X	X	X	X	X
Convert to 3D Polys	Modify > Convert	X	X	X	X	X	X
Convert To Accessory	Spotlight > Object Conversion		+			X	X
Convert to Area Light...	Modify > Convert	X	X	X	X	X	X
Convert to Boundary	Object Context Menu		X		X		
Convert to Cable...	Spotlight > Cables		+			X	X
Convert to Generic Solids	Modify > Convert	X	X	X	X	X	X
Convert to Group	Modify > Convert	X	X	X	X	X	X
Convert To Hanging Position	Spotlight > Object Conversion		+			X	X
Convert To Instrument	Spotlight > Object Conversion		+			X	X
Convert to Line Light...	Modify > Convert	X	X	X	X	X	X
Convert to Lines	Modify > Convert	X	X	X	X	X	X
Convert to Menu Command	Object Context Menu		X	X	X	X	X
Convert to Mesh	Modify > Convert	X	X	X	X	X	X
Convert To MultiCircuit	Spotlight > Object Conversion		+			X	X
Convert to NURBS	Modify > Convert	X	X	X	X	X	X
Convert to Object Node	Object Context Menu		X	X	X	X	X
Convert to Pathway	Object Context Menu		X		X		
Convert to Plug-in Object	Modify > Convert	X	X	X	X	X	X
Convert to Polygons	Modify > Convert	X	X	X	X	X	X
Convert to Subdivision	Modify > Convert	X	X	X	X	X	X
Convert to Truss...	Braceworks		+				X
Convert to Viewport	Modify > Convert		X	X	X	X	X
Convert to Viewport (from layer link)	Object Context Menu	X	+	+	+	+	+
Convert to Wrapper Node	Object Context Menu	X	X	X	X	X	X
Convert Truss to Symbol...	Braceworks		+				X
Copy	Edit	X	X	X	X	X	X
Copy	Object Context Menu	X	X	X	X	X	X
Crease all Edges	Object Context Menu	X	X	X	X	X	X
Crease all Vertices	Object Context Menu	X	X	X	X	X	X
Create 3D Loci at Grade Points	AEC > Terrain		X				
Create 3D Loci at Grade Points	Landmark				X		
Create 3D Object From 2D	AEC > Machine Design		X	X			
Create 3D Object From 2D	Landmark > Machine Design				X		

+ Command can be added to the workspace; see the Workspace Editor section in the Vectorworks help system

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Command	Path	F	D	A	L	S	B
Create 3D Object From 2D	Spotlight > Machine Design					X	X
Create Animation...	Model	X	X	X	X	X	X
Create Auto Hybrid	AEC		X	X			
Create Auto Hybrid	Landmark > Architectural				X		
Create Auto Hybrid	Spotlight > Architectural					X	X
Create Batch Render Job...	View > Rendering	X	X	X	X	X	X
Create Bridle Assembly Diagrams...	Spotlight > Rigging		+			X	X
Create Bridle Report...	Spotlight > Reports		+			X	X
Create Cable Worksheet...	Spotlight > Reports		+			X	X
Create Calculation Report...	Braceworks		+				X
Create Color Chart...	Tools > Utilities	X	X	X	X	X	X
Create Detail Viewport...	View		X	X	X	X	X
Create Dividing Lines...	Modify > Drafting Aids	X	X	X	X	X	X
Create Drape Surface...	Model > 3D Power Pack	X	X	X	X	X	X
Create Existing Trees From Loci...	AEC > Existing Trees		X				
Create Existing Trees From Loci...	Landmark > Existing Trees				X		
Create Fillet Surface...	Model > 3D Power Pack	X	X	X	X	X	X
Create Floating View Pane	Object Context Menu	X	X	X	X	X	X
Create Floating View Pane	View > Multiple View Panes	X	X	X	X	X	X
Create Gobo Texture...	Spotlight > Visualization		+			X	X
Create Grade Limits from Pad...	AEC > Terrain		X				
Create Grade Limits from Pad...	Landmark				X		
Create Helix-Spiral...	Model > 3D Power Pack	X	X	X	X	X	X
Create Hoist Symbol Key	Spotlight > Reports		+			X	X
Create Hoist Worksheet...	Spotlight > Reports		+			X	X
Create Horizontal Section Viewport...	View		X	X	X	X	X
Create Image Prop...	Model	X	X	X	X	X	X
Create Interior Elevation Viewport...	View		X	X			
Create Interpolated Surface...	Model > 3D Power Pack	X	X	X	X	X	X
Create Joists...	AEC > Framing		X	X			
Create Joists...	Landmark > Architectural				X		
Create Label	AEC > Energos		X	X			
Create Label Legend from Instrument...	Spotlight > Label Legend		+			X	X
Create Layer Link...	View	X	+	+	+	+	+
Create Lectern...	Event Design		+			X	X
Create Multiple Viewports...	View		X	X	X	X	X
Create Objects from Shapes...	AEC		X	X			
Create Objects from Shapes...	Landmark				X		
Create Objects from Shapes...	Modify					X	X

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Command	Path	F	D	A	L	S	B
Create Objects from Shapes...	Object Context Menu		X	X	X	X	X
Create Pad from Grade Limits...	AEC > Terrain		X				
Create Pad from Grade Limits...	Landmark				X		
Create Panel Riser Diag...	Tools > Reports		X	X			
Create Panel Schedule...	Tools > Reports		X	X			
Create Piping Runs	AEC > Electrical		X	X			
Create Planar Caps	Model > 3D Power Pack	X	X	X	X	X	X
Create Plant from Object	Object Context Menu		X		X		
Create Plant Style from Catalog...	AEC > Plants		X				
Create Plant Style from Catalog...	Landmark				X		
Create Plant Style from Selection...	AEC > Plants		X				
Create Plant Style from Selection...	Document Context Menu				X		
Create Plant Style from Selection...	Landmark				X		
Create Plot and Model View...	Spotlight > Visualization		+			X	X
Create Plug-in Style...	Tools	X	X	X	X	X	X
Create Polys from Walls...	AEC		X	X			
Create Polys from Walls...	Landmark > Architectural				X		
Create Polys from Walls...	Spotlight > Architectural					X	X
Create Redline Status WS	Text > Redlines		X	X	X	X	X
Create Report...	Spotlight > Reports		+			X	X
Create Report...	Tools > Reports	X	X	X	X	+	+
Create Retaining Wall Site Modifier...	AEC > Terrain		X				
Create Retaining Wall Site Modifier...	Landmark				X		
Create Rm Finish Legend...	Tools > Reports		X	X			
Create Road from Stakes...	AEC > Roads		X				
Create Road from Stakes...	Landmark > Roads				X		
Create Roof...	AEC		X	X			
Create Roof...	Landmark > Architectural				X		
Create Roof...	Spotlight > Architectural					X	X
Create Room...	Event Design		+			X	X
Create Saddle	Object Context Menu		X	X	X	X	X
Create Screen...	Event Design		+			X	X
Create Seating Layout...	AEC		X	X			
Create Seating Layout...	Spotlight > Architectural					X	X
Create Seating Section...	Event Design		+			X	X
Create Section Viewport (from clip cube)	Object Context Menu		X	X	X	X	X
Create Section Viewport...	View		X	X	X	X	X
Create Sheet List...	Tools > Reports		X	X			
Create Similar Object	Object Context Menu		X	X	X	X	X



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Command	Path	F	D	A	L	S	B
Create Site Model Volume List...	AEC > Terrain		X	X			
Create Site Model Volume List...	Landmark				X		
Create Solid Section from Grade Objects	AEC		X	X			
Create Solid Section from Grade Objects	Landmark > Architectural				X		
Create Solid Section from Grade Objects	Spotlight > Architectural					X	X
Create Spaces from Polys	AEC > Space Planning		X	X	+	+	
Create Spaces from Walls...	AEC > Space Planning		X	X	+	+	
Create Stage...	Event Design		+			X	X
Create Stair...	Event Design		+			X	X
Create Standard Viewports..	File > Document Settings		X	X			
Create Stepped Wall...	AEC		X	X			
Create Stepped Wall...	Landmark > Architectural				X		
Create Subdivision Primitive...	Model	X	X	X	X	X	X
Create Surface Array...	Model		X	X	X	X	X
Create Surface from Curves	Model > 3D Power Pack	X	X	X	X	X	X
Create Symbol...	Modify	X	X	X	X	X	X
Create Viewport...	View	X	X	X	X	X	X
Create Views	Event Design		+			X	X
Create Wall Projection...	AEC		X	X			
Create Wall Projection...	Landmark > Architectural				X		
Create Wall Projection...	Spotlight > Architectural					X	X
Create Wall Recess...	AEC		X	X			
Create Wall Recess...	Landmark > Architectural				X		
Create Wall Recess...	Spotlight > Architectural					X	X
Create Walls from Spaces...	AEC > Space Planning		X	X	+	+	
Cross Section Workload...	Braceworks		+				X
Cubic Spline Smoothing	Modify > Poly Smoothing	X	X	X	X	X	X
Custom Checkout...	Tools		X	X	X	X	X
Custom Modification...	Tools		X	X	X	X	X
Custom Release...	Tools		X	X	X	X	X
Custom Renderworks	View > Rendering	X	X	X	X	X	X
Custom Renderworks Options...	View > Rendering	X	X	X	X	X	X
Custom Selection...	Tools	X	X	X	X	X	X
Custom Tool/Attribute...	Tools	X	X	X	X	X	X
Cut	Edit	X	X	X	X	X	X
Cut	Object Context Menu	X	X	X	X	X	X
Cut 2D Section	Model	X	+	+	+	+	+
Cut 3D Section	Model	X	+	+	+	+	+
Dashed Hidden Line	View > Rendering	X	X	X	X	X	X

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Command	Path	F	D	A	L	S	B
Decompose	Modify	X	X	X	X	X	X
Delete (slab drain valleys)	Object Context Menu		X	X	X	X	X
Delete (slab drains)	Object Context Menu		X	X	X	X	X
Delete (slab slope valleys)	Object Context Menu		X	X	X	X	X
Delete All Guides	Modify > Guides	X	X	X	X	X	X
Delete Dimension	Object Context Menu	X	X	X	X	X	X
Delete Frames	Object Context Menu		X	X	X	X	X
Delete Leader Line	Object Context Menu	X	X	X	X	X	X
Delete Wall Peaks...	AEC		X	X			
Delete Wall Peaks...	Landmark > Architectural				X		
Delete Witness Line	Object Context Menu	X	X	X	X	X	X
Designer	Tools > Workspaces		X				
Detach From Pipe Network	Object Context Menu		X		X		
Detach Record...	Tools > Records	X	X	X	X	X	X
Dimension Exterior Walls...	AEC		X	X			
Dimension Exterior Walls...	Landmark > Architectural				X		
Dimension Exterior Walls...	Spotlight > Architectural					X	X
Disassociate	Object Context Menu	X	X	X	X	X	X
Display Repetitions (line type editing)	Object Context Menu	X	X	X	X	X	X
Display Tile Repetitions	Object Context Menu	X	X	X	X	X	X
Distribute Frames	Object Context Menu		X	X	X	X	X
Distribute Horizontally (Spacing)	Object Context Menu	X	X	X	X	X	X
Distribute Vertically (Spacing)	Object Context Menu	X	X	X	X	X	X
Do not allow instant data bar activation	Window > Data Bar Options	X	X	X	X	X	X
Do not allow numeric keypad entry for instant data bar activation	Window > Data Bar Options	X	X	X	X	X	X
Do not auto cycle to non-displayed fields when tabbing past last field	Window > Data Bar Options	X	X	X	X	X	X
Do not show floating data bar after datum creation	Window > Data Bar Options	X	X	X	X	X	X
Do not use floating data bar - show data bar fields on fixed data bar	Window > Data Bar Options	X	X	X	X	X	X
Document Preferences...	Document Context Menu	X	X	X	X	X	X
Document Preferences...	File > Document Settings	X	X	X	X	X	X
Document Setup...	File > Document Settings		X	X	X		
Double Space	Text > Spacing	X	X	X	X	X	X
Download Content	Help	X	X	X	X	X	X
Draw Cam Diagrams	AEC > Machine Design		X	X			
Draw Cam Diagrams	Landmark > Machine Design				X		
Draw Cam Diagrams	Spotlight > Machine Design					X	X
Dropbox Integration	Cloud	X	X	X	X	X	X
Duplicate	Edit	X	X	X	X	X	X

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Command	Path	F	D	A	L	S	B
Duplicate Along Path...	Edit	X	X	X	X	X	X
Duplicate Array...	Edit	X	X	X	X	X	X
Edit	Object Context Menu	X	X	X	X	X	X
Edit 2D Components	Object Context Menu	X	X	X	X	X	X
Edit 3D Component	Object Context Menu	X	X	X	X	X	X
Edit 3D Wall Hole Component	Object Context Menu	X	X	X	X	X	X
Edit Annotations	Object Context Menu	X	X	X	X	X	X
Edit Border Slab Style	Object Context Menu		X		X		
Edit Boundary	Object Context Menu		X	X	X	X	X
Edit Camera	Object Context Menu	X	X	X	X	X	X
Edit Connection(s)	Object Context Menu		X	X	X	X	X
Edit Constraints...	Modify	X	X	X	X	X	X
Edit Control Geometry	Object Context Menu	X	X	X	X	X	X
Edit Crop (design layer)	Object Context Menu		X	X	X	X	X
Edit Crop (layer link)	Object Context Menu	X	X	X	X	X	X
Edit Crop (pdf)	Modify		X	X	X	X	X
Edit Crop (sheet layer)	Object Context Menu	X	X	X	X	X	X
Edit Current Workspace...	Tools > Workspaces	X	X	X	X	X	X
Edit Description	Object Context Menu		X	X	X	X	X
Edit Design Layer	Object Context Menu	X	X	X	X	X	X
Edit Dimension	Object Context Menu	X	X	X	X	X	X
Edit Drain(s)	Object Context Menu		X	X	X	X	X
Edit Elevation In-Place	Object Context Menu		X	X	X	X	
Edit Existing Site Model Contours	Object Context Menu		X	X	X		
Edit Existing Site Model Surface	Object Context Menu		X	X	X		
Edit Frames	Object Context Menu		X	X	X	X	X
Edit Group	Modify	X	X	X	X	X	X
Edit Image Attributes	Object Context Menu	X	X	X	X	X	X
Edit Image Effects	Object Context Menu	X	X	X	X	X	X
Edit Light	Object Context Menu		X			X	X
Edit Main Slab Style	Object Context Menu		X		X		
Edit Marker List...	Tools > Options	X	X	X	X	X	X
Edit Modifiers	Object Context Menu		X	X	X	X	X
Edit Object Connection	Tools > Database		X	X	X	X	X
Edit Panels	Object Context Menu		X	X	X	X	X
Edit Path	Object Context Menu	X	X	X	X	X	X
Edit Plug-in Style	Object Context Menu	X	X	X	X	X	X
Edit Profile	Object Context Menu	X	X	X	X	X	X
Edit Proposed Site Model Contours	Object Context Menu		X	X	X		

## Vectorworks 2019 Product Comparison: Commands

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Command	Path	F	D	A	L	S	B
Edit Proposed Site Model Surface	Object Context Menu		X	X	X		
Edit Referenced Design Layer (design layer)	Object Context Menu	X	X	X	X	X	X
Edit Roof Style	Object Context Menu		X	X	X	X	X
Edit Script	Object Context Menu		X	X	X	X	X
Edit Section In-Place	Object Context Menu		X	X	X	X	
Edit Site Model Crop	Object Context Menu		X	X	X		
Edit Slab Addition Settings	Object Context Menu		X	X	X	X	X
Edit Slab Style	Object Context Menu		X	X	X	X	X
Edit Slab Subtraction Settings	Object Context Menu		X	X	X	X	X
Edit Tag Data	Object Context Menu		X	X	X	X	X
Edit Tag Layout	Object Context Menu		X	X	X	X	X
Edit Valley(s) (slab slope valleys)	Object Context Menu		X	X	X	X	X
Edit Vision Data...	Spotlight > Visualization		+			X	X
Edit Wall Style	Object Context Menu		X	X	X	X	X
Enable Multiple View Panes	Object Context Menu	X	X	X	X	X	X
Enable Multiple View Panes	View > Multiple View Panes	X	X	X	X	X	X
Encrypt Script...	Tools > Plug-ins	X	X	X	X	X	X
Engineering Properties...	Model	X	X	X	X	X	X
Even Divide...	Modify > Drafting Aids	X	X	X	X	X	X
Exit Group	Modify	X	X	X	X	X	X
Exit Viewport	Object Context Menu	X	X	X	X	X	X
Export 3D PDF (3D only)...	File > Export		X	X	X	X	X
Export 3DS (3D only)...	File > Export		X	X	X	X	X
Export as Vectorworks <previous version> File	File > Export	X	X	X	X	X	X
Export ASCII Patch...	File > Export		+			X	X
Export Cinema 4D (3D only)...	File > Export	X	X	X	X	X	X
Export COLLADA (3D only)...	File > Export	X	X	X	X	X	X
Export Database...	File > Export	X	X	X	X	X	X
Export DSTV...	Braceworks		+				X
Export DWF...	File > Export	X	X	X	X	X	X
Export DXF/DWG...	File > Export	X	X	X	X	X	X
Export Energy Data...	AEC > Energos		X	X			
Export EPSF...	File > Export	X	X	X	X	X	X
Export ESC...	File > Export		+			X	X
Export FBX (3D only)...	File > Export	X	X	X	X	X	X
Export High Dynamic Range Image (HDRI)...	File > Export	X	X	X	X	X	X
Export Hoist Data...	File > Export		+			X	X
Export IFC Project...	File > Export		X	X	X	X	X
Export IGES (3D only)...	File > Export	X	X	X	X	X	X

+ Command can be added to the workspace; see the Workspace Editor section in the Vectorworks help system

## Vectorworks 2019 Product Comparison: Commands

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Command	Path	F	D	A	L	S	B
Export Image File...	File > Export	X	X	X	X	X	X
Export Instrument Data	File > Export		+			X	X
Export KML (3D only)...	File > Export		X	X	X	X	X
Export Metafile...	File > Export	X	X	X	X	X	X
Export OBJ (3D only)...	File > Export	X	X	X	X	X	X
Export Panorama (3D only)...	File > Export	X	X	X	X	X	X
Export Parasolid X_T (3D only)...	File > Export	X	X	X	X	X	X
Export PDF...	File > Export	X	X	X	X	X	X
Export Plant	Object Context Menu		X		X		
Export Resource	Object Context Menu		X	X	X	X	X
Export Rhino 3DM (3D only)...	File > Export	X	X	X	X	X	X
Export SAT (3D only)...	File > Export	X	X	X	X	X	X
Export Script...	File > Export	X	X	X	X	X	X
Export Shapefile...	File > Export		X	X	X		
Export Simple VectorScript (3D only)...	File > Export	X	X	X	X	X	X
Export STEP (3D only)...	File > Export	X	X	X	X	X	X
Export STL (3D only)...	File > Export	X	X	X	X	X	X
Export Web View (3D only)...	File > Export		X	X	X	X	X
Export Worksheet...	File > Export	X	X	X	X	X	X
Extend NURBS...	Model > 3D Power Pack	X	X	X	X	X	X
Extract 3D Loci from Point Cloud ...	Model > Point Clouds		X	X	X	X	X
Extrude Along Path	Model	X	X	X	X	X	X
Extrude...	Model	X	X	X	X	X	X
Fast Renderworks	View > Rendering	X	X	X	X	X	X
File Info...	File	X	X	X	X	X	X
Final Quality Renderworks	View > Rendering	X	X	X	X	X	X
Final Shaded Polygon	View > Rendering	X	X	X	X	X	X
Find and Modify...	Spotlight		+			X	X
Find-Replace Text...	Text	X	X	X	X	X	X
Fit Bottom of Space to Objects	AEC > Space Planning		X	X	+	+	
Fit To Objects	View > Zoom	X	X	X	X	X	X
Fit To Page Area	View > Zoom	X	X	X	X	X	X
Fit Top of Space to Objects	AEC > Space Planning		X	X	+	+	
Fit Walls to Objects...	AEC		X	X			
Fit Walls to Objects...	Landmark > Architectural				X		
Flip	Object Context Menu	X	X	X	X	X	X
Flip Horizontal	Modify > Rotate	X	X	X	X	X	X
Flip Horizontal	Object Context Menu > Rotate	X	X	X	X	X	X
Flip Vertical	Modify > Rotate	X	X	X	X	X	X

+ Command can be added to the workspace; see the Workspace Editor section in the Vectorworks help system

## Vectorworks 2019 Product Comparison: Commands

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Command	Path	F	D	A	L	S	B
Flip Vertical	Object Context Menu > Rotate	X	X	X	X	X	X
Flip X'	Document Context Menu > Working Plane	X	X	X	X	X	X
Flip X'	Modify > Working Plane	X	X	X	X	X	X
Flip Y'	Document Context Menu > Working Plane	X	X	X	X	X	X
Flip Y'	Modify > Working Plane	X	X	X	X	X	X
Flip Z'	Document Context Menu > Working Plane	X	X	X	X	X	X
Flip Z'	Modify > Working Plane	X	X	X	X	X	X
Floating palettes can dock to each other	Window > Palette Options	X	X	X	X	X	X
Floor...	AEC		X	X			
Floor...	Landmark > Architectural				X		
Floor...	Spotlight > Architectural					X	X
Focus Instruments at Next Click	Document Context Menu		+			X	X
Focus Instruments...	Object Context Menu		+			X	X
Focus Instruments...	Spotlight					X	X
Font (list of installed fonts)	Text	X	X	X	X	X	X
Force Select	Document Context Menu	X	X	X	X	X	X
Force Select	Object Context Menu	X	X	X	X	X	X
Format Text...	Text	X	X	X	X	X	X
Front	View > Standard Views	X	X	X	X	X	X
Fundamentals	Tools > Workspaces	X	X	X	X	X	X
Generate 2D from 3D Component	Object Context Menu	X	X	X	X	X	X
Generate Paperwork...	Spotlight > Reports		+			X	X
Georeferencing...	File > Document Settings		X	X	X		
Get Distance Start to Click	Spotlight > Cables		+			X	X
Getting Started Guides	Help	X	X	X	X	X	X
Gray Others	Document Context Menu > Class Options	X	X	X	X	X	X
Gray Others	View > Class Options	X	X	X	X	X	X
Gray Others	Document Context Menu > Layer Options	X	X	X	X	X	X
Gray Others	View > Layer Options	X	X	X	X	X	X
Gray/Snap Others	Document Context Menu > Class Options	X	X	X	X	X	X
Gray/Snap Others	View > Class Options	X	X	X	X	X	X
Gray/Snap Others	Document Context Menu > Layer Options	X	X	X	X	X	X
Gray/Snap Others	View > Layer Options	X	X	X	X	X	X
Grid Method Entry...	AEC > Survey Input		X	X			
Grid Method Entry...	Landmark > Survey Input				X		
Group	Modify	X	X	X	X	X	X
Hatch...	Modify	X	X	X	X	X	X
Help	Cloud	X	X	X	X	X	X
Hidden Line	View > Rendering	X	X	X	X	X	X

## Vectorworks 2019 Product Comparison: Commands

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Command	Path	F	D	A	L	S	B
Hide (property line object)	Object Context Menu		X	X	X		
Hide Enabled Palettes	Document Context Menu > Palettes	X	X	X	X	X	X
Hide Enabled Palettes	Window > Palettes	X	X	X	X	X	X
Hide Guides	Modify > Guides	X	X	X	X	X	X
Hide Jump	Object Context Menu		X		X		
Hide Others	Vectorworks (Macintosh only)	X	X	X	X	X	X
Hide Vectorworks	Vectorworks (Macintosh only)	X	X	X	X	X	X
Hide Warning Icons	AEC > Irrigation		X				
Hide Warning Icons	Landmark > Irrigation				X		
Highlight objects I have checked out	View > Project Sharing Options		X	X	X	X	X
Highlight objects using User Colors	View > Project Sharing Options		X	X	X	X	X
IFC Data Mapping...	AEC		X	X			
IFC Data Mapping...	Landmark > Architectural				X		
IFC Data Mapping...	Spotlight > Architectural					X	X
IFC Data...	AEC		X	X			
IFC Data...	Landmark > Architectural				X		
IFC Data...	Spotlight > Architectural					X	X
IFC Zones, Systems and Groups...	AEC		X	X			
Import 3DS (3D only)...	File > Import		X	X	X	X	X
Import Adjacency Matrix...	AEC > Space Planning		X	X	+	+	
Import Cinema 4D Textures...	File > Import	X	X	X	X	X	X
Import DXF/DWG or DWF...	File > Import	X	X	X	X	X	X
Import EPSF...	File > Import	X	X	X	X	X	X
Import Hoist Data...	File > Import		+			X	X
Import IFC...	File > Import		X	X	X	X	X
Import IGES (3D only)...	File > Import	X	X	X	X	X	X
Import Image File...	File > Import	X	X	X	X	X	X
Import Instrument Data	File > Import		+			X	X
Import Metafile as Bitmap...	File > Import	X	X	X	X	X	X
Import Metafile...	File > Import	X	X	X	X	X	X
Import mtextur...	File > Import	X	X	X	X	X	X
Import OBJ (3D only)...	File > Import	X	X	X	X	X	X
Import Parasolid X_T (3D only)...	File > Import	X	X	X	X	X	X
Import PartSpec...	AEC > Machine Design		X	X			
Import PartSpec...	Landmark > Machine Design				X		
Import PartSpec...	Spotlight > Machine Design					X	X
Import PDF...	File > Import		X	X	X	X	X
Import PICT as Bitmap...	File > Import	X	X	X	X	X	X
Import PICT...	File > Import	X	X	X	X	X	X

+ Command can be added to the workspace; see the Workspace Editor section in the Vectorworks help system

## Vectorworks 2019 Product Comparison: Commands

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Command	Path	F	D	A	L	S	B
Import Point Cloud...	File > Import		X	X	X	X	X
Import Revit (Batch)...	File > Import		X	X	X	X	X
Import Revit...	File > Import		X	X	X	X	X
Import Rhino 3DM (3D only)...	File > Import	X	X	X	X	X	X
Import SAT (3D only)...	File > Import	X	X	X	X	X	X
Import Script...	File > Import	X	X	X	X	X	X
Import Shapefile...	File > Import		X	X	X		
Import Single DWF...	File > Import	X	X	X	X	X	X
Import Single DXF/DWG...	File > Import	X	X	X	X	X	X
Import SketchUp...	File > Import		X	X	X	X	X
Import STEP (3D only)...	File > Import	X	X	X	X	X	X
Import STL (3D only)...	File > Import	X	X	X	X	X	X
Import Survey File...	AEC > Survey Input		X	X			
Import Survey File...	Landmark > Survey Input				X		
Import Tree Survey File...	AEC > Existing Trees		X				
Import Tree Survey File...	Landmark > Existing Trees				X		
Import Worksheet...	File > Import	X	X	X	X	X	X
Insert Distributed Load at Selection...	Braceworks		+				X
Insert Door (curtain wall)	Object Context Menu		X	X	X	X	X
Insert Drop...	Braceworks		+				X
Insert House Rigging Point at Selection...	Spotlight > Rigging		+			X	X
Insert Window (curtain wall)	Object Context Menu		X	X	X	X	X
Intersect Solids	Model	X	X	X	X	X	X
Intersect Surface	Modify	X	X	X	X	X	X
Invert Selection	Edit	X	X	X	X	X	X
Irrigation Settings...	AEC > Irrigation		X				
Irrigation Settings...	Landmark > Irrigation				X		
Italic	Text > Font Style	X	X	X	X	X	X
Join	Modify > Join	X	X	X	X	X	X
Join (no trim)	Modify > Join	X	X	X	X	X	X
Join (wall object)	Object Context Menu		X	X	X	X	X
Join and Fillet	Modify > Join	X	X	X	X	X	X
Justify	Text > Alignment	X	X	X	X	X	X
Label Legend Manager...	Spotlight > Label Legend		+			X	X
Landmark	Tools > Workspaces		X		X		
Launch Vectorworks Cloud Services Website	Cloud	X	X	X	X	X	X
Left	View > Standard Views	X	X	X	X	X	X
Left	Text > Alignment	X	X	X	X	X	X
Left Isometric	View > Standard Views	X	X	X	X	X	X



## Vectorworks 2019 Product Comparison: Commands

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Command	Path	F	D	A	L	S	B
Left Rear Iso	View > Standard Views	X	X	X	X	X	X
Lighting Inventory Setup...	Spotlight > Reports		+			X	X
Lighting Symbol Maintenance...	Spotlight > Reports		+			X	X
Line into Segments...	Modify > Drafting Aids	X	X	X	X	X	X
Line Render Options...	View > Rendering	X	X	X	X	X	X
Line Thickness...	Tools > Options	X	X	X	X	X	X
Link Text to Record...	Modify	X	X	X	X	X	X
Link Text to Record...	Tools > Records	X	X	X	X	X	X
List Symbols...	Tools > Utilities	X	X	X	X	X	X
Load Overview...	Braceworks		+				X
Locate in Resource Manager (any resource)	Object Context Menu	X	X	X	X	X	X
Locate Internal Origin	Tools > Origin	X	X	X	X	X	X
Locate Label Legend in Resource Manager	Object Context Menu		+			X	X
Locate Plug-in Style in Resource Manager	Object Context Menu	X	X	X	X	X	X
Lock	Modify	X	X	X	X	X	X
Lock	Object Context Menu	X	X	X	X	X	X
Log In/Sign Up	Cloud	X	X	X	X	X	X
Look at Working Plane	Document Context Menu > Working Plane	X	X	X	X	X	X
Look at Working Plane	Modify > Working Plane	X	X	X	X	X	X
Look at Working Plane	View	X	X	X	X	X	X
lower case	Text > Capitalization	X	X	X	X	X	X
Lower Left Iso	View > Standard Views	X	X	X	X	X	X
Lower Left Rear	View > Standard Views	X	X	X	X	X	X
Lower Right Iso	View > Standard Views	X	X	X	X	X	X
Lower Right Rear	View > Standard Views	X	X	X	X	X	X
Make Data Cable Chain	Spotlight > Cables		+			X	X
Make Guide	Modify > Guides	X	X	X	X	X	X
Make Jumper Cable Chain...	Spotlight > Cables		+			X	X
Manage AutoTURN Online Drawings			X	X	X	X	X
Manage Bridle Parts...	Spotlight > Rigging		+			X	X
Manage Databases...	Tools > Database		X	X	X	X	X
Manage Scenes...	Spotlight > Visualization		+			X	X
Marionette Commands	Tools		X	X	X	X	X
Mark Specific Distance...	Spotlight > Cables		+			X	X
Merge Point Clouds	Model > Point Clouds		X	X	X	X	X
Merge Record Formats...	Tools > Records	X	X	X	X	X	X
Migration Manager...	Tools	X	X	X	X	X	X
Model to Floorplan...	AEC > Space Planning		X	X	+	+	
Modify by Record...	Tools > Records		X	X	X	X	X

+ Command can be added to the workspace; see the Workspace Editor section in the Vectorworks help system

## Vectorworks 2019 Product Comparison: Commands

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Command	Path	F	D	A	L	S	B
Move 3D...	Modify > Move	X	X	X	X	X	X
Move Geographic...	Modify > Move		X		X		
Move to Hanging Point	Object Context Menu		X			X	X
Move...	Modify > Move	X	X	X	X	X	X
Multicable Jumper Preferences...	Spotlight > Cables		+			X	X
Multiple Extrude...	Model	X	X	X	X	X	X
Narrow Perspective	View > Projection	X	X	X	X	X	X
Navigation	Document Context Menu > Palettes	X	X	X	X	X	X
Navigation	Window > Palettes	X	X	X	X	X	X
New Hatch From Locally Mapped Hatch	Object Context Menu	X	X	X	X	X	X
New Plug-in Style from Unstyled Plug-in	Object Context Menu	X	X	X	X	X	X
New Roof Style from Unstyled Roof	Object Context Menu		X	X	X	X	X
New Slab Style from Unstyled Border Slab	Object Context Menu		X		X		
New Slab Style from Unstyled Main Slab	Object Context Menu		X		X		
New Slab Style from Unstyled Slab	Object Context Menu		X	X	X	X	X
New Tile From Locally Mapped Tile	Object Context Menu	X	X	X	X	X	X
New Wall Style from Unstyled Wall	Object Context Menu		X	X	X	X	X
New...	File	X	X	X	X	X	X
Next View	View	X	X	X	X	X	X
Next Working Plane	Document Context Menu > Working Plane	X	X	X	X	X	X
Next Working Plane	Modify > Working Plane	X	X	X	X	X	X
No Smoothing	Modify > Poly Smoothing	X	X	X	X	X	X
Normal Perspective	View > Projection	X	X	X	X	X	X
Normal Scale	View > Zoom	X	X	X	X	X	X
Object Connection...	Tools > Database		X	X	X	X	X
Object Info	Document Context Menu > Palettes	X	X	X	X	X	X
Object Info	Window > Palettes	X	X	X	X	X	X
Oblique Cabinet 30	View > Projection	X	X	X	X	X	X
Oblique Cabinet 45	View > Projection	X	X	X	X	X	X
Oblique Cavalier 30	View > Projection	X	X	X	X	X	X
Oblique Cavalier 45	View > Projection	X	X	X	X	X	X
Open BCF Manager...	AEC		X	X	+	+	
Open Plant Data...	AEC > Plants		X				
Open Plant Data...	Document Context Menu				X		
Open Plant Data...	Landmark				X		
Open Recent (list of recently opened files)	File	X	X	X	X	X	X
Open Vectorworks Cloud Services Folder...	Cloud	X	X	X	X	X	X
Open...	File	X	X	X	X	X	X
OpenGL	View > Rendering	X	X	X	X	X	X

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## Vectorworks 2019 Product Comparison: Commands

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Command	Path	F	D	A	L	S	B
OpenGL Options...	View > Rendering	X	X	X	X	X	X
Organization...	Tools	X	X	X	X	X	X
Orthogonal	View > Projection	X	X	X	X	X	X
Other...	Text > Spacing	X	X	X	X	X	X
Outline (Macintosh only)	Text > Font Style	X	X	X	X	X	X
Page Setup...	File	X	X	X	X	X	X
Palettes can dock to document window (Mac only)	Window > Palette Options	X	X	X	X	X	X
Palettes can dock to each other (Mac only)	Window > Palette Options	X	X	X	X	X	X
Paste	Document Context Menu	X	X	X	X	X	X
Paste	Edit	X	X	X	X	X	X
Paste	Object Context Menu	X	X	X	X	X	X
Paste As Bitmap	Edit	X	X	X	X	X	X
Paste In Place	Edit	X	X	X	X	X	X
Patterns...	File > Document Settings	X	X	X	X	X	X
Pick up Redline	Text > Redlines		X	X	X	X	X
Pillar...	AEC		X	X			
Pillar...	Landmark > Architectural				X		
Pillar...	Spotlight > Architectural					X	X
Place Break Out Labels...	Spotlight > Cables		+			X	X
Place Camera Match Object	View > Camera Match	X	X	X	X	X	X
Place Reference	View > Camera Match	X	X	X	X	X	X
Plain Text	Text > Font Style	X	X	X	X	X	X
Plant Line...	AEC > Plants		X				
Plant Line...	Landmark				X		
Plug-in Manager...	Tools > Plug-ins	X	X	X	X	X	X
Preferences	Vectorworks (Macintosh only)	X	X	X	X	X	X
Preview Exterior	View > Renderworks Style	X	X	X	X	X	X
Preview Interior	View > Renderworks Style	X	X	X	X	X	X
Previous Selection	Edit	X	X	X	X	X	X
Previous View	View	X	X	X	X	X	X
Previous Working Plane	Document Context Menu > Working Plane	X	X	X	X	X	X
Previous Working Plane	Modify > Working Plane	X	X	X	X	X	X
Print...	File	X	X	X	X	X	X
Project Settings...	AEC > Energos		X	X			
Project Sharing...	File		X	X	X	X	X
Properties...	Object Context Menu	X	X	X	X	X	X
Publish...	File	X	X	X	X	X	X
Purge...	Tools	X	X	X	X	X	X
Quit	File	X	X	X	X	X	X

## Vectorworks 2019 Product Comparison: Commands

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Command	Path	F	D	A	L	S	B
Quit Vectorworks	Vectorworks (Macintosh only)	X	X	X	X	X	X
Radius Smoothing	Modify > Poly Smoothing	X	X	X	X	X	X
Realistic Colors White	View > Renderworks Style	X	X	X	X	X	X
Realistic Exterior Fast	View > Renderworks Style	X	X	X	X	X	X
Realistic Exterior Final	View > Renderworks Style	X	X	X	X	X	X
Realistic Exterior Night Fast	View > Renderworks Style	X	X	X	X	X	X
Realistic Exterior Night Final	View > Renderworks Style	X	X	X	X	X	X
Realistic Interior Fast	View > Renderworks Style	X	X	X	X	X	X
Realistic Interior Final	View > Renderworks Style	X	X	X	X	X	X
Rebuild NURBS...	Model > 3D Power Pack	X	X	X	X	X	X
Recalculate	AEC > Irrigation		X				
Recalculate	Landmark > Irrigation				X		
Reconcile Notes...	Text		X	X	X	X	X
Record Format Connection...	Tools > Database		X	X	X	X	X
Recreate Site Model from Source	Object Context Menu		X	X	X		
Redo	Edit	X	X	X	X	X	X
Referenced Files (list of referenced files in the file)	Window (File name)	X	X	X	X	X	X
Refresh	File		X	X	X	X	X
Refresh All Cables	Spotlight > Cables		+			X	X
Refresh All Hoists	Spotlight > Hoists		+			X	X
Refresh Instruments	Document Context Menu		+			X	X
Refresh Instruments	Object Context Menu					X	X
Refresh Instruments	Spotlight					X	X
Release...	Modify		X	X	X	X	X
Release...	Object Context Menu		X	X	X	X	X
Remove Break	Object Context Menu		X	X	X	X	X
Remove Fold(s)	Object Context Menu		X	X	X	X	X
Remove From Hanging Position	Object Context Menu		X			X	X
Remove Loads	Object Context Menu		X			X	X
Remove Object Connection	Tools > Database		X	X	X	X	X
Remove Outliers ...	Model > Point Clouds		X	X	X	X	X
Remove Saddle	Object Context Menu		X	X	X	X	X
Rename Marionette Object	Object Context Menu	X	X	X	X	X	X
Render Style White Model	View > Renderworks Style	X	X	X	X	X	X
Replace Instrument	Spotlight		+			X	X
Replace Plant	Object Context Menu	X	X	X	X	X	X
Replace Symbol	Object Context Menu	X	X	X	X	X	X
Replace Truss Type...	Spotlight > Rigging		+			X	X
Replace Truss...	Spotlight > Rigging		+			X	X

## Vectorworks 2019 Product Comparison: Commands

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Command	Path	F	D	A	L	S	B
Replace with Stock Symbols...	Spotlight > Object Conversion		+			X	X
Replace with Symbol...	Modify > Convert		X	X	X	X	X
Reset All Plug-Ins	Tools > Utilities		X	X	X	X	X
Reset Braceworks IDs	Braceworks		+				X
Reset Object Position	Object Context Menu		X			X	X
Resource Manager	Document Context Menu > Palettes	X	X	X	X	X	X
Resource Manager	Window > Palettes	X	X	X	X	X	X
Restore Redline	Text > Redlines		X	X	X	X	X
Revert	File		X	X	X	X	X
Revert To Saved	File	X	X	X	X	X	X
Revolve with Rail	Model > 3D Power Pack	X	X	X	X	X	X
Right	View > Standard Views	X	X	X	X	X	X
Right	Text > Alignment	X	X	X	X	X	X
Right Isometric	View > Standard Views	X	X	X	X	X	X
Right Rear Iso	View > Standard Views	X	X	X	X	X	X
Roof Face...	AEC		X	X			
Roof Face...	Landmark > Architectural				X		
Roof Face...	Spotlight > Architectural					X	X
Roof Framer...	AEC > Framing		X	X			
Rotate 3D View...	View	X	X	X	X	X	X
Rotate 3D...	Modify > Rotate	X	X	X	X	X	X
Rotate 3D...	Object Context Menu > Rotate	X	X	X	X	X	X
Rotate About X' Left 90°	Document Context Menu > Working Plane	X	X	X	X	X	X
Rotate About X' Left 90°	Modify > Working Plane	X	X	X	X	X	X
Rotate About X' Right 90°	Document Context Menu > Working Plane	X	X	X	X	X	X
Rotate About X' Right 90°	Modify > Working Plane	X	X	X	X	X	X
Rotate About Y' Left 90°	Document Context Menu > Working Plane	X	X	X	X	X	X
Rotate About Y' Left 90°	Modify > Working Plane	X	X	X	X	X	X
Rotate About Y' Right 90°	Document Context Menu > Working Plane	X	X	X	X	X	X
Rotate About Y' Right 90°	Modify > Working Plane	X	X	X	X	X	X
Rotate About Z' Left 90°	Document Context Menu > Working Plane	X	X	X	X	X	X
Rotate About Z' Left 90°	Modify > Working Plane	X	X	X	X	X	X
Rotate About Z' Right 90°	Document Context Menu > Working Plane	X	X	X	X	X	X
Rotate About Z' Right 90°	Modify > Working Plane	X	X	X	X	X	X
Rotate Left 90°	Modify > Rotate	X	X	X	X	X	X
Rotate Left 90°	Object Context Menu > Rotate	X	X	X	X	X	X
Rotate Plan	View		X	X	X	X	X
Rotate Right 90°	Modify > Rotate	X	X	X	X	X	X
Rotate Right 90°	Object Context Menu > Rotate	X	X	X	X	X	X

+ Command can be added to the workspace; see the Workspace Editor section in the Vectorworks help system

## Vectorworks 2019 Product Comparison: Commands

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Command	Path	F	D	A	L	S	B
Rotate Valley(s)	Object Context Menu		X	X	X	X	X
Rotate...	Modify > Rotate	X	X	X	X	X	X
Rotate...	Object Context Menu > Rotate	X	X	X	X	X	X
Run Marionette Script	Object Context Menu		X	X	X	X	X
Run Project Sharing Metadata Diagnostics...	Tools > Utilities		X	X	X	X	X
Run Script...	Tools > Plug-ins	X	X	X	X	X	X
Save	File	X	X	X	X	X	X
Save A Copy As...	File	X	X	X	X	X	X
Save and Commit...	File		X	X	X	X	X
Save As Template...	File	X	X	X	X	X	X
Save As...	File	X	X	X	X	X	X
Save Marionette Script as Python Script	Object Context Menu		X	X	X	X	X
Save Palette Positions	Window > Palettes	X	X	X	X	X	X
Save View...	View	X	X	X	X	X	X
Save Working Plane	Document Context Menu > Working Plane	X	X	X	X	X	X
Save Working Plane	Modify > Working Plane	X	X	X	X	X	X
Scale Influence Lines...	Braceworks		+				X
Scale Objects...	Modify	X	X	X	X	X	X
Script Options...	Tools > Plug-ins	X	X	X	X	X	X
Script Palettes (list of script palettes in the file)	Window (File name)	X	X	X	X	X	X
Search Knowledgebase	Help	X	X	X	X	X	X
Section Solids...	Model	X	X	X	X	X	X
Select All	Document Context Menu	X	X	X	X	X	X
Select All	Edit	X	X	X	X	X	X
Select Cables...	Spotlight > Cables		+			X	X
Select Coincident Objects...	Object Context Menu	X	X	X	X	X	X
Select Components with Warnings	AEC > Irrigation		X				
Select Components with Warnings	Landmark > Irrigation				X		
Select Connected Components	AEC > Irrigation		X				
Select Connected Components	Landmark > Irrigation				X		
Select Connected Objects	Edit	X	X	X	X	X	X
Select Focused Lighting Instruments	Object Context Menu		X		X		
Select Guides	Modify > Guides	X	X	X	X	X	X
Select Hanging Position	Object Context Menu		X			X	X
Select Hoists Origin	Object Context Menu		X		X		
Select Hoists...	Spotlight > Hoists		+			X	X
Select Marionette Network	Object Context Menu		X	X	X	X	X
Select Multicable	Object Context Menu		X			X	X
Select Vertex in OIP	Object Context Menu	X	X	X	X	X	X

+ Command can be added to the workspace; see the Workspace Editor section in the Vectorworks help system

## Vectorworks 2019 Product Comparison: Commands

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Command	Path	F	D	A	L	S	B
Select Vision Video Source...	Spotlight > Visualization		+			X	X
Select Working Plane	Document Context Menu > Working Plane	X	X	X	X	X	X
Select Working Plane	Edit	X	X	X	X	X	X
Select Working Plane	Modify > Working Plane	X	X	X	X	X	X
Send Backward	Modify > Send	X	X	X	X	X	X
Send Backward	Object Context Menu > Send	X	X	X	X	X	X
Send Forward	Modify > Send	X	X	X	X	X	X
Send Forward	Object Context Menu > Send	X	X	X	X	X	X
Send to Back	Modify > Send	X	X	X	X	X	X
Send to Back	Object Context Menu > Send	X	X	X	X	X	X
Send to Cinema 4D (3D only)...	File	X	X	X	X	X	X
Send to Front	Modify > Send	X	X	X	X	X	X
Send to Front	Object Context Menu > Send	X	X	X	X	X	X
Send to Surface	AEC > Terrain		X	X			
Send to Surface	Landmark				X		
Send to Surface	Object Context Menu				X		
Send to Vision...	File		+			X	X
Services (standard Macintosh menu)	Vectorworks (Macintosh only)	X	X	X	X	X	X
Set 3D View	View	X	X	X	X	X	X
Set Custom Perspective...	View > Projection	X	X	X	X	X	X
Set Default Symbol Class...	Tools > Utilities		X	X	X		
Set Hanging Point	Object Context Menu		X			X	X
Set Hoist Number and Dimension Display...	Spotlight > Hoists		+			X	X
Set Individual High Hooks Heights	Spotlight > Hoists		+			X	X
Set Light to View	Object Context Menu	X	X	X	X	X	X
Set Lighting Options...	View	X	X	X	X	X	X
Set Position	Object Context Menu	X	X	X	X	X	X
Set Renderworks Background...	View		X	X	X	X	X
Set Selected High Hook Height	Spotlight > Hoists		+			X	X
Set Selected Load Trims	Spotlight > Hoists		+			X	X
Set Size...	Text > Size	X	X	X	X	X	X
Set Sun Position...	View	X	+	+	+	+	+
Set View to Light	Object Context Menu	X	X	X	X	X	X
Set Working Plane	Document Context Menu > Working Plane	X	X	X	X	X	X
Set Working Plane	Modify > Working Plane	X	X	X	X	X	X
Settings...	Cloud	X	X	X	X	X	X
Shaded Polygon	View > Rendering	X	X	X	X	X	X
Shaded Polygon No Lines	View > Rendering	X	X	X	X	X	X
Shadow (Macintosh only)	Text > Font Style	X	X	X	X	X	X

## Vectorworks 2019 Product Comparison: Commands

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Command	Path	F	D	A	L	S	B
Shaft Analysis...	AEC > Machine Design		X	X			
Shaft Analysis...	Landmark > Machine Design				X		
Shaft Analysis...	Spotlight > Machine Design					X	X
Show (property line object)	Object Context Menu		X	X	X		
Show All	Vectorworks (Macintosh only)	X	X	X	X	X	X
Show Document Tabs	Window	X	X	X	X	X	X
Show Document Tabs	Window	X	X	X	X	X	X
Show floating data bar above SmartCursor cues	Window > Data Bar Options	X	X	X	X	X	X
Show floating data bar after datum creation	Window > Data Bar Options	X	X	X	X	X	X
Show floating data bar below SmartCursor cues	Window > Data Bar Options	X	X	X	X	X	X
Show Grids (title block border)	Object Context Menu	X	X	X	X	X	X
Show Guides	Modify > Guides	X	X	X	X	X	X
Show Jump	Object Context Menu		X		X		
Show objects using actual colors	View > Project Sharing Options		X	X	X	X	X
Show only primary fields on data bar	Window > Data Bar Options	X	X	X	X	X	X
Show or Hide Constraints	View > Show	X	X	X	X	X	X
Show or Hide Plant Details	View > Show		X		X		
Show or Hide Redlines	Text > Redlines		X	X	X	X	X
Show or Hide Site Modifiers	View > Show		X		X		
Show Others	Document Context Menu > Class Options	X	X	X	X	X	X
Show Others	View > Class Options	X	X	X	X	X	X
Show Others	Document Context Menu > Layer Options	X	X	X	X	X	X
Show Others	View > Layer Options	X	X	X	X	X	X
Show primary and secondary fields on data bar	Window > Data Bar Options	X	X	X	X	X	X
Show primary, secondary, and cursor location fields on data bar	Window > Data Bar Options	X	X	X	X	X	X
Show Results...	AEC > Energos		X	X			
Show Warning Icons	AEC > Irrigation		X				
Show Warning Icons	Landmark > Irrigation				X		
Show/Snap Others	Document Context Menu > Class Options	X	X	X	X	X	X
Show/Snap Others	View > Class Options	X	X	X	X	X	X
Show/Snap Others	Document Context Menu > Layer Options	X	X	X	X	X	X
Show/Snap Others	View > Layer Options	X	X	X	X	X	X
Show/Snap/Modify Others	Document Context Menu > Class Options	X	X	X	X	X	X
Show/Snap/Modify Others	View > Class Options	X	X	X	X	X	X
Show/Snap/Modify Others	Document Context Menu > Layer Options	X	X	X	X	X	X
Show/Snap/Modify Others	View > Layer Options	X	X	X	X	X	X
Simple Beam Analysis	AEC > Machine Design		X	X			
Simple Beam Analysis	Landmark > Machine Design				X		



## Vectorworks 2019 Product Comparison: Commands

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Command	Path	F	D	A	L	S	B
Simple Beam Analysis	Spotlight > Machine Design					X	X
Simple Beam Calculator...	AEC > Framing		X	X			
Simple Beam Calculator...	Landmark > Architectural				X		
Simple Beam Calculator...	Spotlight > Architectural					X	X
Simple Beam...	AEC > Machine Design		X	X			
Simple Beam...	Landmark > Machine Design				X		
Simple Beam...	Spotlight > Machine Design					X	X
Simplify 3D Polygons...	AEC > Terrain		X	X			
Simplify 3D Polygons...	Landmark > Create Site Model				X		
Simplify Mesh...	Modify	X	X	X	X	X	X
Simplify Polys...	Modify > Drafting Aids	X	X	X	X	X	X
Single Space	Text > Spacing	X	X	X	X	X	X
Site Model from Boundary...	AEC > Terrain		X	X			
Site Model from Boundary...	Landmark > Create Site Model				X		
Site Model from Source Data...	AEC > Terrain		X	X			
Site Model from Source Data...	Landmark > Create Site Model				X		
Site Model Section...	AEC > Terrain		X	X			
Site Model Section...	Landmark				X		
Size (inst of default sizes)	Text	X	X	X	X	X	X
Size Pipes...	AEC > Irrigation		X				
Size Pipes...	Landmark > Irrigation				X		
Sketch	View > Rendering		X	X	X	X	X
Sketch Options...	View > Rendering		X	X	X	X	X
SmartCursor Settings...	Tools	X	X	X	X	X	X
Smooth all Edges	Object Context Menu	X	X	X	X	X	X
Smooth all Vertices	Object Context Menu	X	X	X	X	X	X
Snapping	Document Context Menu > Palettes	X	X	X	X	X	X
Snapping	Window > Palettes	X	X	X	X	X	X
Solution of Triangles...	AEC > Machine Design		X	X			
Solution of Triangles...	Landmark > Machine Design				X		
Solution of Triangles...	Spotlight > Machine Design					X	X
Specify Selected Load Trims...	Spotlight > Hoists		+			X	X
Split Horizontally	View > Multiple View Panes	X	X	X	X	X	X
Split Horizontally	Object Context Menu	X	X	X	X	X	X
Split Record Format...	Tools > Records	X	X	X	X	X	X
Split Vertically	View > Multiple View Panes	X	X	X	X	X	X
Split Vertically	Object Context Menu	X	X	X	X	X	X
Spotlight	Tools > Workspaces		X			X	X
Spotlight Numbering...	Spotlight		+			X	X

## Vectorworks 2019 Product Comparison: Commands

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Command	Path	F	D	A	L	S	B
Spotlight Preferences...	File > Document Settings		+			X	X
Spring Calculator...	AEC > Machine Design		X	X			
Spring Calculator...	Landmark > Machine Design				X		
Spring Calculator...	Spotlight > Machine Design					X	X
Stake Object from 3D Locus...	Modify > Convert		X		X		
Standard Naming...	File > Document Settings		X	X	X		
Start Batch Render...	View > Rendering	X	X	X	X	X	X
Station on Polyline...	AEC > Roads		X				
Station on Polyline...	Landmark > Roads				X		
Status...	Cloud	X	X	X	X	X	X
Stitch and Trim Surfaces	Model > 3D Power Pack	X	X	X	X	X	X
Subscript	Text > Font Style	X	X	X	X	X	X
Subtract 3D Object From Slab	AEC		X	X			
Subtract 3D Object From Slab	Landmark > Architectural				X		
Subtract 3D Object From Slab	Spotlight > Architectural					X	X
Subtract Solids...	Model	X	X	X	X	X	X
Superscript	Text > Font Style	X	X	X	X	X	X
Sweep...	Model	X	X	X	X	X	X
System Check All Objects	Braceworks		+				X
System Check Selection	Braceworks		+				X
Tapered Extrude...	Model	X	X	X	X	X	X
Text Along Path...	Text	X	X	X	X	X	X
Tile	Window	X	X	X	X	X	X
Title Block Manager...	File		X	X	X	X	X
Title Caps	Text > Capitalization	X	X	X	X	X	X
Toggle Design/Calculated Display	AEC > Irrigation		X				
Toggle Design/Calculated Display	Landmark > Irrigation				X		
Tool Sets	Window > Palettes	X	X	X	X	X	X
Top	View > Standard Views	X	X	X	X	X	X
Top	Text > Alignment	X	X	X	X	X	X
Top Baseline	Text > Alignment	X	X	X	X	X	X
Top Level	Modify	X	X	X	X	X	X
Top/Plan	View > Standard Views	X	X	X	X	X	X
Tour...	Cloud	X	X	X	X	X	X
Trace Bitmap...	Modify	X	X	X	X	X	X
Trim	Modify	X	X	X	X	X	X
Turn On/Off (light object)	Object Context Menu	X	X	X	X	X	X
Underline	Text > Font Style	X	X	X	X	X	X
Undo	Edit	X	X	X	X	X	X

## Vectorworks 2019 Product Comparison: Commands

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Command	Path	F	D	A	L	S	B
Undock Current Document	Window	X	X	X	X	X	X
Unfold Surfaces	Model > 3D Power Pack		X	X	X	X	X
Ungroup	Modify	X	X	X	X	X	X
Unified View	View	X	X	X	X	X	X
Unified View Options...	View	X	X	X	X	X	X
Units...	File > Document Settings	X	X	X	X	X	X
Unlock	Modify	X	X	X	X	X	X
Unlock	Object Context Menu	X	X	X	X	X	X
Unrotate 3D Objects	Modify	X	X	X	X	X	X
Unshaded Polygon	View > Rendering	X	X	X	X	X	X
Unwrap Marionette Script	Object Context Menu		X	X	X	X	X
Update (section viewport)	Object Context Menu		X	X	X	X	X
Update (viewport object)	Object Context Menu	X	X	X	X	X	X
Update (viewports)	Object Context Menu	X	X	X	X	X	X
Update All Viewports	View	X	X	X	X	X	X
Update External Database	Tools > Database		X	X	X	X	X
Update Plant Data	AEC > Plants		X				
Update Plant Data	Landmark				X		
Update Plug-in Objects	Tools > Utilities	X	X	X	X	X	X
Update Selected Viewports	View	X	X	X	X	X	X
Update Settings...	Tools > Database		X	X	X	X	X
Update Spaces...	AEC > Space Planning		X	X	+	+	
Update Vectorworks Document	Tools > Database		X	X	X	X	X
Update Vectorworks Plant Styles	AEC > Plants		X				
Update Vectorworks Plant Styles	Landmark				X		
UPPER CASE	Text > Capitalization	X	X	X	X	X	X
Use Application Window	Window	X	X	X	X	X	X
Use floating data bar	Window > Data Bar Options	X	X	X	X	X	X
Use floating data bar only when tab key is pressed	Window > Data Bar Options	X	X	X	X	X	X
Use Full Screen	Window	X	X	X	X	X	X
Use large exit group button	Window > Edit Group Options	X	X	X	X	X	X
Use Same Visibilities in All Panes	View > Multiple View Panes	X	X	X	X	X	X
Use Same Visibilities in All Panes	Object Context Menu	X	X	X	X	X	X
Use small exit group button	Window > Edit Group Options	X	X	X	X	X	X
User Origin...	Tools > Origin	X	X	X	X	X	X
Validate 3D Data	AEC > Terrain		X	X			
Validate 3D Data	Landmark > Create Site Model				X		
Vectorworks Cloud Services	Help	X	X	X	X	X	X
Vectorworks Help	Help	X	X	X	X	X	X

+ Command can be added to the workspace; see the Workspace Editor section in the Vectorworks help system

## Vectorworks 2019 Product Comparison: Commands

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Command	Path	F	D	A	L	S	B
Vectorworks Preferences...	Tools > Options	X	X	X	X	X	X
Vectorworks Remote...	Tools > Utilities	X	X	X	X	X	X
Vectorworks Service Select	Help	X	X	X	X	X	X
Vegetation Line...	AEC > Plants		X				
Vegetation Line...	Landmark				X		
Visualization	Document Context Menu > Palettes	X	X	X	X	X	X
Visualization	Window > Palettes	X	X	X	X	X	X
Volumetric Properties...	Model	X	X	X	X	X	X
Wall Framer...	AEC > Framing		X	X			
What's This?	Help	X	X	X	X	X	X
Wide Perspective	View > Projection	X	X	X	X	X	X
Wireframe	View > Rendering	X	X	X	X	X	X
Wireframe Options...	View > Rendering	X	X	X	X	X	X
Working Planes	Document Context Menu > Palettes	X	X	X	X	X	X
Working Planes	Window > Palettes	X	X	X	X	X	X
Worksheets (list of worksheets in the file)	Window (File name)	X	X	X	X	X	X
Workspaces...	Tools > Workspaces	X	X	X	X	X	X
Wrap Marionette Network	Object Context Menu		X	X	X	X	X
Zone of Visual Influence...	AEC > Terrain		X				
Zone of Visual Influence...	Landmark				X		

## Vectorworks 2019 Product Comparison: Tools

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Tool	Tool Palette/Set	F	D	A	L	S	B
2D Locus	Basic	X	X	X	X	X	X
2D Polygon	Basic	X	X	X	X	X	X
3D Locus	3D Modeling	X	X	X	X	X	X
3D Polygon	3D Modeling	X	X	X	X	X	X
Acorn Nut (inch)	Fasteners		X	X	X	X	X
Acorn Nut (inch)-3D	Fasteners		X	X	X	X	X
Add Vertex	Surface Sculpting		X	X	X		
Adjacency Matrix	Space Planning		X	X			
Adjacency Score	Space Planning		X	X			
Align and Distribute Items	Lighting		+			X	X
Align Plane	3D Modeling	X	X	X	X	X	X
Analysis	3D Modeling	X	X	X	X	X	X
Angle	Detailing	X	X	X	X	X	X
Angle - 3D	Detailing		X	X	X	X	X
Angular Dimension	Dims/Notes	X	X	X	X	X	X
Angular Dimension	Basic				X	X	X
Arc	Basic	X	X	X	X	X	X
Arc Length Dimension	Dims/Notes	X	X	X	X	X	X
Arc Length Dimension	Basic				X	X	X
Attribute Mapping	Basic	X	X	X	X	X	X
Attribute Mapping	Visualization	X	X	X	X	X	X
Ball Bearing	Machine Components		X	X	X	X	X
Ball Bearing - 3D	Machine Components		X	X	X	X	X
Base Cabinet	Furn/Fixtures		X	X	X	X	X
Bath-Shower	Furn/Fixtures		X	X			
Batt Insulation	Detailing	X	X	X	X	X	X
Bearing Lock Nut	Machine Components		X	X	X	X	X
Bearing Lock Nut-3D	Machine Components		X	X	X	X	X
Belleville Spring	Machine Components		X	X	X	X	X
Belleville Spring-3D	Machine Components		X	X	X	X	X
Bevel Gears	Machine Components		X	X	X	X	X
Bevel Gears - 3D	Machine Components		X	X	X	X	X
BIMObject	Furn/Fixtures		X	X			
Blended Screen	Event Design		+			X	X
Bolt and Nut - inch	Detailing		X	X			
Bolt and Nut - mm	Detailing		X	X			
Break Line	Dims/Notes	X	X	X	X	X	X
Bridge Line	Dims/Notes	X	X	X	X	X	X

## Vectorworks 2019 Product Comparison: Tools

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Tool	Tool Palette/Set	F	D	A	L	S	B
Bulb Flat	Detailing		X	X	X	X	X
Bulb Flat - 3D	Detailing		X	X	X	X	X
Callout	Basic	X	X	X	X	X	X
Camera Match Mask	Visualization	X	X	X	X	X	X
Camera Match Shadow	Visualization	X	X	X	X	X	X
Campanile	Building Shell		+			X	X
Campanile	Site Planning		X	X	X		
Carriage Bolt	Detailing		X	X	X	X	X
Carriage Bolt - 3D	Detailing		X	X	X	X	X
Ceiling Grid	Furn/Fixtures		X	X			
Ceiling Grid	MEP		X	X			
Center Mark	Dims/Notes	X	X	X	X	X	X
Chain Extrude	Building Shell		X	X	X	X	X
Chamfer	Basic	X	X	X	X	X	X
Chamfer Edge	3D Modeling	X	X	X	X	X	X
Channel	Detailing	X	X	X	X	X	X
Channel - 3D	Detailing		X	X	X	X	X
Circle	Basic	X	X	X	X	X	X
Circuiting	MEP		X	X			
Clevis Pin (DIN)	Fasteners		X	X	X	X	X
Clevis Pin (DIN)-3D	Fasteners		X	X	X	X	X
Clevis Pin (Inch)	Fasteners		X	X	X	X	X
Clevis Pin (Inch)-3D	Fasteners		X	X	X	X	X
Clevis Pin (Metric)	Fasteners		X	X	X	X	X
Clevis Pin (Metric)-3D	Fasteners		X	X	X	X	X
Clip	Basic	X	X	X	X	X	X
Clothes Rod	Furn/Fixtures		X	X			
Column	Building Shell		X	X	X	X	X
Comm Device	MEP		X	X			
Compartment Sink	Furn/Fixtures		X	X			
Component Join	Building Shell		X	X	X	X	X
Compression Spring 1	Machine Components		X	X	X	X	X
Compression Spring 1 - 3D	Machine Components		X	X	X	X	X
Compression Spring 2	Machine Components		X	X	X	X	X
Compression Spring 2 - 3D	Machine Components		X	X	X	X	X
Cone	3D Modeling	X	X	X	X	X	X
Conical Comp Spring - 3D	Machine Components		X	X	X	X	X
Conical Compression Spring	Machine Components		X	X	X	X	X

## Vectorworks 2019 Product Comparison: Tools

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Tool	Tool Palette/Set	F	D	A	L	S	B
Connect/Combine	Basic	X	X	X	X	X	X
Constrain Angle	Dims/Notes	X	X	X	X	X	X
Constrain Coincident	Dims/Notes	X	X	X	X	X	X
Constrain Collinear	Dims/Notes	X	X	X	X	X	X
Constrain Concentric	Dims/Notes	X	X	X	X	X	X
Constrain Distance	Dims/Notes	X	X	X	X	X	X
Constrain Horiz Distance	Dims/Notes	X	X	X	X	X	X
Constrain Horiz-Vertical	Dims/Notes	X	X	X	X	X	X
Constrain Parallel	Dims/Notes	X	X	X	X	X	X
Constrain Perpendicular	Dims/Notes	X	X	X	X	X	X
Constrain Radius	Dims/Notes	X	X	X	X	X	X
Constrain Tangent	Dims/Notes	X	X	X	X	X	X
Constrain Vertical Distance	Dims/Notes	X	X	X	X	X	X
Constrained Linear Dimension	Dims/Notes	X	X	X	X	X	X
Constrained Linear Dimension	Basic				X	X	X
Controller	Irrigation		X		X		
Cotter Pin (Inch)	Fasteners		X	X	X	X	X
Cotter Pin (Inch) - 3D	Fasteners		X	X	X	X	X
Counter Top	Furn/Fixtures		X	X			
Create Contours	3D Modeling	X	X	X	X	X	X
Curved Truss	Detailing		X				
Curved Truss	Rigging					X	X
Custom Cabinet	Furn/Fixtures		X	X	X	X	X
Data Cable	Lighting		+			X	X
Data Tag	Dims/Notes		X	X	X	X	X
Deform	3D Modeling	X	X	X	X	X	X
Design Zone	Irrigation		X		X		
Desk	Furn/Fixtures		X	X	X	X	X
Detail Cut Wood	Detailing		X	X	X		
Detail-Callout Marker	Dims/Notes		X	X	X	X	X
Die Spring	Machine Components		X	X	X	X	X
Die Spring - 3D	Machine Components		X	X	X	X	X
Dimension Tape	Dims/Notes		+			X	X
Door	Building Shell		X	X	X	X	X
Double Line	Basic	X	X	X	X	X	X
Double-Line Polygon	Basic	X	X	X	X	X	X
Dowel Pin (Inch)	Fasteners		X	X	X	X	X
Dowel Pin (Inch)-3D	Fasteners		X	X	X	X	X

## Vectorworks 2019 Product Comparison: Tools

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Tool	Tool Palette/Set	F	D	A	L	S	B
Drawing Label	Dims/Notes	X	X	X	X	X	X
Drilled Footing	Building Shell		X	X			
Drip Outlet	Irrigation		X		X		
Duplicate Symbol in Wall	Building Shell		X	X	X	X	X
Edit Circuiting	MEP		X	X			
Edit Curtain Wall	Building Shell		X	X	X	X	X
Edit Subdivision	3D Modeling	X	X	X	X	X	X
Elevation Benchmark	Dims/Notes		X	X	X		
Elevator	Building Shell		X	X			
Escalator	Building Shell		X	X			
Existing Tree	Site Planning		X		X		
Extension Spring - 3D	Machine Components		X	X	X	X	X
Extension Spring - End	Machine Components		X	X	X	X	X
Extension Spring - Front	Machine Components		X	X	X	X	X
Extract	3D Modeling	X	X	X	X	X	X
Eye Bolt	Fasteners		X	X	X	X	X
Eye Bolt - 3D	Fasteners		X	X	X	X	X
Eyedropper	Basic	X	X	X	X	X	X
Fastener	Fasteners		X	X	X	X	X
Feature Control Frame	Dims/Notes		X	X	X	X	X
Feeder Cable	Lighting		+			X	X
Fillet	Basic	X	X	X	X	X	X
Fillet Edge	3D Modeling	X	X	X	X	X	X
Fireplace	Furn/Fixtures		X	X			
Fixed Point Resize	Basic	X	X	X	X	X	X
Flanged Bearing - 2 Hole	Machine Components		X	X	X	X	X
Flanged Bearing - 2 Hole-3D	Machine Components		X	X	X	X	X
Flanged Bearing - 4 Hole	Machine Components		X	X	X	X	X
Flanged Bearing - 4 Hole-3D	Machine Components		X	X	X	X	X
Flyover	3D Modeling	X	X	X	X	X	X
Flyover	Basic	X	X	X	X	X	X
Flyover	Visualization	X	X	X	X	X	X
Focus Point	Lighting		+			X	X
Foliage	Site Planning		X				
Foliage	Visualization				X		
Framing Member	Detailing		X	X	X		
Freehand	Basic	X	X	X	X	X	X
Ganging	Lighting		+			X	X



## Vectorworks 2019 Product Comparison: Tools

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Tool	Tool Palette/Set	F	D	A	L	S	B
General Notes	Dims/Notes		X	X	X	X	X
Geom Dim and Tol Note	Dims/Notes		X	X	X	X	X
Grab Bars	Furn/Fixtures		X	X			
Grade	Building Shell		+	X		X	X
Grade	Site Planning		X		X		
Graticule	Site Planning		X		X		
Great Circle	Site Planning		X		X		
Grid - Polar	Dims/Notes	X	X	X	X	X	X
Grid - Rectangular	Dims/Notes	X	X	X	X	X	X
Grid Bubble	Dims/Notes		X	X	X		
Guardrail (Curved)	Site Planning		X	X	X		
Guardrail (Straight)	Site Planning		X	X	X		
Hanging Position	Lighting		+			X	X
Hardscape	Site Planning		X		X		
Heliodon	Visualization		X	X	X	X	X
Hemisphere	3D Modeling	X	X	X	X	X	X
Hex Cap Nut (DIN)	Fasteners		X	X	X	X	X
Hex Cap Nut (DIN)-3D	Fasteners		X	X	X	X	X
Hoist	Rigging		+			X	X
Hoist Origin	Rigging		+			X	X
Hole - Drilled	Detailing		X	X	X	X	X
Hole - Drilled - 3D	Detailing		X	X	X	X	X
Hole - Tapped (Inch)	Detailing		X	X	X	X	X
Hole - Tapped (Inch)-3D	Detailing		X	X	X	X	X
Hole - Tapped (Metric)	Detailing		X	X	X	X	X
Hole - Tapped (Metric)-3D	Detailing		X	X	X	X	X
Hole Pattern	Detailing		X	X	X	X	X
Hub - 3D	Machine Components		X	X	X	X	X
HVAC Damper	MEP		X	X			
HVAC Diffuser	MEP		X	X			
HVAC Elbow Duct	MEP		X	X			
HVAC Flex Duct	MEP		X	X			
HVAC Outlet	MEP		X	X			
HVAC Splitter	MEP		X	X			
HVAC Straight Duct	MEP		X	X			
HVAC Transition	MEP		X	X			
HVAC Vertical Duct	MEP		X	X			
HVAC Vertical Elbow	MEP		X	X			

## Vectorworks 2019 Product Comparison: Tools

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Tool	Tool Palette/Set	F	D	A	L	S	B
Hydrozone	Irrigation		X		X		
Hyperlink	Dims/Notes	X	X	X	X	X	X
I-Beam	Detailing	X	X	X	X	X	X
I-Beam - 3D	Detailing		X	X	X	X	X
Incandescent Fixture	MEP		X	X			
Insert Bridle	Rigging		+			X	X
Insert Connection	Rigging		+			X	X
Insert Dead Hang	Rigging		+			X	X
Insert House Rigging Point	Rigging		+			X	X
Insert Load	Rigging		+			X	X
Insert Mother Grid	Rigging		+			X	X
Insert Truss	Rigging		+			X	X
Instrument Summary	Lighting		+			X	X
Interior-Elevation Marker	Dims/Notes	X	X	X	X	X	X
Isolate Points	Object Context Menu		X	X	X	X	X
J-Bolt	Fasteners		X	X	X	X	X
J-Bolt - 3D	Fasteners		X	X	X	X	X
Jumper Cable	Lighting		+			X	X
Key	Machine Components		X	X	X	X	X
Key-3D	Machine Components		X	X	X	X	X
Keyway	Detailing		X	X	X	X	X
Knurled Thumb Nut (DIN)	Fasteners		X	X	X	X	X
Knurled Thumb Nut (DIN)-3D	Fasteners		X	X	X	X	X
Knurled Thumb Nut (Inch)	Fasteners		X	X	X	X	X
Knurled Thumb Nut (Inch)-3D	Fasteners		X	X	X	X	X
Lag Screw	Detailing		X	X	X	X	X
Lag Screw - 3D	Detailing		X	X	X	X	X
Landscape Area	Site Planning		X		X		
Leader Line	Basic		X	X	X	X	X
Leader Line Simple	Basic	X	+	+	+	+	+
LED Screen	Event Design		+			X	X
Light	Visualization	X	X	X	X	X	X
Lighting Accessory	Lighting		+			X	X
Lighting Instrument	Lighting		+			X	X
Lighting Pipe	Rigging		+			X	X
Lighting Pipe Ladder	Rigging		+			X	X
Line	Basic	X	X	X	X	X	X
Linear Material	Detailing		X	X	X		

## Vectorworks 2019 Product Comparison: Tools

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Tool	Tool Palette/Set	F	D	A	L	S	B
Loft Surface	3D Modeling	X	X	X	X	X	X
Marionette	Basic		X	X	X	X	X
Massing Model	Site Planning		X	X	X		
Mirror	Basic	X	X	X	X	X	X
Move by Points	Basic	X	X	X	X	X	X
Move Page	Basic	X	X	X	X	X	X
Mullion	Building Shell		X	X			
Multicable	Lighting		+			X	X
Needle Bearing	Machine Components		X	X	X	X	X
Needle Bearing - 3D	Machine Components		X	X	X	X	X
North Arrow	Dims/Notes		X	X	X	X	X
NURBS Curve	3D Modeling	X	X	X	X	X	X
Offset	Basic	X	X	X	X	X	X
Outlet	Irrigation		X		X		
Oval	Basic	X	X	X	X	X	X
Pan	Basic	X	X	X	X	X	X
Parallel Pin (DIN)	Fasteners		X	X	X	X	X
Parallel Pin (DIN)-3D	Fasteners		X	X	X	X	X
Parking Along Path	Site Planning		X		X		
Parking Area	Site Planning		X		X		
Parking Spaces	Building Shell		+			X	X
Parking Spaces	Site Planning		X	X	X		
Photometer	Lighting		+			X	X
Photometric Grid	Lighting		+			X	X
Pilaster	Building Shell		X	X			
Pillow Block	Machine Components		X	X	X	X	X
Pillow Block - 3D	Machine Components		X	X	X	X	X
Pipe	Irrigation		X		X		
Pipe Fitting	Detailing		X	X			
Piping	MEP		X	X			
Piping Connection	MEP		X	X			
Piping Run	MEP		X	X			
Plant	Site Planning		X		X		
Point Of Connection	Irrigation		X		X		
Polyline	Basic	X	X	X	X	X	X
Project	3D Modeling	X	X	X	X	X	X
Property Line	Site Planning		X	X	X		
Protractor	Dims/Notes	X	X	X	X	X	X

## Vectorworks 2019 Product Comparison: Tools

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Tool	Tool Palette/Set	F	D	A	L	S	B
Protractor	Basic				X	X	X
Pulley	Machine Components		X	X	X	X	X
Pulley - 3D	Machine Components		X	X	X	X	X
Push/Pull	3D Modeling	X	X	X	X	X	X
Quarter Arc	Basic	X	X	X	X	X	X
Radial Dimension	Dims/Notes	X	X	X	X	X	X
Radial Dimension	Basic				X	X	X
Railing/Fence	Furn/Fixtures		X	X	X		
Railing/Fence	Site Planning		X		X		
Ramp	Building Shell		X	X	X	X	X
Receptacle	MEP		X	X			
Rectangle	Basic	X	X	X	X	X	X
Rectangular Tubing	Detailing	X	X	X	X	X	X
Rectangular Tubing - 3D	Detailing		X	X	X	X	X
Redline	Dims/Notes		X	X	X	X	X
Reference Marker	Dims/Notes	X	X	X	X	X	X
Regular Polygon	Basic	X	X	X	X	X	X
Remove Wall Breaks	Building Shell		X	X	X	X	X
Render Bitmap	Visualization	X	X	X	X	X	X
Renderworks Camera	Visualization	X	X	X	X	X	X
Repetitive Unit	Detailing		X	X	X		
Reshape	Basic	X	X	X	X	X	X
Retaining Ring (ASME)	Fasteners		X	X	X	X	X
Retaining Ring (ASME)-3D	Fasteners		X	X	X	X	X
Retaining Ring (DIN)	Fasteners		X	X	X	X	X
Retaining Ring (DIN)-3D	Fasteners		X	X	X	X	X
Retaining Washer (DIN)	Fasteners		X	X	X	X	X
Retaining Washer (DIN)-3D	Fasteners		X	X	X	X	X
Revision Cloud	Dims/Notes	X	X	X	X	X	X
Rivet (DIN)	Fasteners		X	X	X	X	X
Rivet (DIN) - 3D	Fasteners		X	X	X	X	X
Rivet - Large (Inch)	Fasteners		X	X	X	X	X
Rivet - Large (Inch)-3D	Fasteners		X	X	X	X	X
Rivet - Small (Inch)	Fasteners		X	X	X	X	X
Rivet - Small (Inch)-3D	Fasteners		X	X	X	X	X
Roadway (Curved)	Site Planning		X	X	X		
Roadway (Custom Curb)	Site Planning		X	X	X		
Roadway (NURBS)	Site Planning		X	X	X		

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(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Tool	Tool Palette/Set	F	D	A	L	S	B
Roadway (Poly)	Site Planning		X	X	X		
Roadway (Straight)	Site Planning		X	X	X		
Roadway (Tee)	Site Planning		X	X	X		
Roller Bearing	Machine Components		X	X	X	X	X
Roller Bearing - 3D	Machine Components		X	X	X	X	X
Roller Chain - Circular	Machine Components		X	X	X	X	X
Roller Chain - Circular-3D	Machine Components		X	X	X	X	X
Roller Chain - Linear	Machine Components		X	X	X	X	X
Roller Chain - Linear-3D	Machine Components		X	X	X	X	X
Roller Chain - Offset Link	Machine Components		X	X	X	X	X
Roller Chain-Offset Link-3D	Machine Components		X	X	X	X	X
Room Name Simple	Dims/Notes	X	X	X	X	X	X
Rope and Stanchion	Event Design		+			X	X
Rotate	Basic	X	X	X	X	X	X
Rotate View	Visualization	X	X	X	X	X	X
Round Tubing	Detailing	X	X	X	X	X	X
Round Tubing - 3D	Detailing		X	X	X	X	X
Round Wall	Building Shell		X	X	X	X	X
Round Wall	Site Planning		X		X		
Rounded Rectangle	Basic	X	X	X	X	X	X
Scale Bar	Dims/Notes	X	X	X	X	X	X
Screw Threads	Detailing		X	X	X	X	X
Sculptor	Surface Sculpting		X	X	X		
Seating Layout	Furn/Fixtures		X	X		X	X
Section-Elevation Marker	Dims/Notes	X	X	X	X	X	X
Select Similar	Basic		X	X	X	X	X
Selection	Basic	X	X	X	X	X	X
Set Working Plane	3D Modeling	X	X	X	X	X	X
Shaft	Machine Components		X	X	X	X	X
Shaft - 3D	Machine Components		X	X	X	X	X
Shaft Break	Detailing	X	X	X	X	X	X
Shaft Break 2	Detailing		X	X	X	X	X
Shear	Basic	X	X	X	X	X	X
Sheet Metal Screw	Detailing		X	X	X	X	X
Sheet Metal Screw - 3D	Detailing		X	X	X	X	X
Shell Solid	3D Modeling	X	X	X	X	X	X
Shelving Unit	Furn/Fixtures		X	X	X	X	X
Simple Stair	Building Shell		+	+	X	X	X

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Tool	Tool Palette/Set	F	D	A	L	S	B
Site Model Contour	Contour Edit		X	X	X		
Site Modifiers	Site Planning		X	X	X		
Slab	Building Shell		X	X	X	X	X
Slab Drainage	Building Shell		X	X	X	X	X
Slope Dimension	Dims/Notes		X	X	X		
Slot	Detailing	X	X	X	X	X	X
Soft Goods	Detailing		X				
Soft Goods	Event Design					X	X
Space	Building Shell		X	X	+	+	
Space	Space Planning		X	X	+	+	
Space Link	Space Planning		X	X			
Speaker	Event Design		+			X	X
Speaker Array	Event Design		+			X	X
Sphere	3D Modeling	X	X	X	X	X	X
Spiral	Basic	X	X	X	X	X	X
Split	Basic	X	X	X	X	X	X
Sprocket	Machine Components		X	X	X	X	X
Sprocket - 3D	Machine Components		X	X	X	X	X
Spur Gear	Machine Components		X	X	X	X	X
Spur Gear Rack	Machine Components		X	X	X	X	X
Spur Gear Rack - 3D	Machine Components		X	X	X	X	X
Spur Gear-3D	Machine Components		X	X	X	X	X
Square Tubing	Detailing	X	X	X	X	X	X
Square Tubing - 3D	Detailing		X	X	X	X	X
Stacking Diagram	Space Planning		X	X			
Stage Deck	Event Design		+			X	X
Stage Lift	Rigging		+			X	X
Stage Plug	Event Design		+			X	X
Stage Ramp	Event Design		+			X	X
Stage Steps	Event Design		+			X	X
Stair	Building Shell		X	X	X		
Stake	Site Planning		X	X	X		
Stipple	Dims/Notes		X	X	X	X	X
Straight Truss	Detailing		X				
Straight Truss	Rigging					X	X
Structural Member	Building Shell		X	X			
Structural Member	Rigging					X	X
Swale/Berm	Surface Sculpting		X	X	X		

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Tool	Tool Palette/Set	F	D	A	L	S	B
Swing Bolt	Fasteners		X	X	X	X	X
Swing Bolt - 3D	Fasteners		X	X	X	X	X
Swing Eye Bolt	Fasteners		X	X	X	X	X
Swing Eye Bolt - 3D	Fasteners		X	X	X	X	X
Switch	MEP		X	X			
Symbol Insertion	Basic	X	X	X	X	X	X
Symmetry Label	Dims/Notes	X	X	X	X	X	X
System Component	Irrigation		X		X		
T-Bolt	Fasteners		X	X	X	X	X
T-Bolt - 3D	Fasteners		X	X	X	X	X
Table and Chairs	Furn/Fixtures		X	X	X	X	X
Tag/Label	Irrigation		X		X		
Tape Measure	Dims/Notes	X	X	X	X	X	X
Tape Measure	Basic				X	X	X
Taper Face	3D Modeling	X	X	X	X	X	X
Taper Pin (DIN)	Fasteners		X	X	X	X	X
Taper Pin (DIN)-3D	Fasteners		X	X	X	X	X
Taper Pin (Inch)	Fasteners		X	X	X	X	X
Taper Pin (Inch)-3D	Fasteners		X	X	X	X	X
Tapered Roller Bearing	Machine Components		X	X	X	X	X
Tapered Roller Bearing - 3D	Machine Components		X	X	X	X	X
Tee	Detailing	X	X	X	X	X	X
Tee - 3D	Detailing		X	X	X	X	X
Television	Event Design		+			X	X
Text	Basic	X	X	X	X	X	X
Thrust Bearing	Machine Components		X	X	X	X	X
Thrust Bearing - 3D	Machine Components		X	X	X	X	X
Thumb Screw (Inch)	Fasteners		X	X	X	X	X
Thumb Screw (Inch) - 3D	Fasteners		X	X	X	X	X
Title Block Border	Dims/Notes	X	X	X	X	X	X
Toilet Stall	Furn/Fixtures		X	X			
Torsion Spring - 3D	Machine Components		X	X	X	X	X
Torsion Spring - End	Machine Components		X	X	X	X	X
Torsion Spring - Front	Machine Components		X	X	X	X	X
Translate View	Visualization	X	X	X	X	X	X
Triangle	Basic	X	X	X	X	X	X
Trim	Basic	X	X	X	X	X	X
Tubular Rivet (DIN)	Fasteners		X	X	X	X	X

## Vectorworks 2019 Product Comparison: Tools

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Tool	Tool Palette/Set	F	D	A	L	S	B
Tubular Rivet (DIN) - 3D	Fasteners		X	X	X	X	X
U-Bolt	Fasteners		X	X	X	X	X
U-Bolt - 3D	Fasteners		X	X	X	X	X
Unconstrained Linear Dimension	Dims/Notes	X	X	X	X	X	X
Unconstrained Linear Dimension	Basic				X	X	X
Utility Cabinet	Furn/Fixtures		X	X	X	X	X
Valve	Irrigation		X		X		
VBvisual Plant	Visualization	X	X	X	X	X	X
Video Screen	Event Design		+			X	X
Visibility	Basic		X	X	X	X	X
Walkthrough	Visualization	X	X	X	X	X	X
Wall	Building Shell		X	X	X	X	X
Wall	Site Planning		X		X		
Wall Cabinet	Furn/Fixtures		X	X	X	X	X
Wall End Cap	Building Shell		X	X	X	X	X
Wall Join	Building Shell		X	X	X	X	X
Wall Join	Site Planning		X		X		
Welding Sym-Fillet (AWS)	Dims/Notes		X	X	X	X	X
Welding Sym-Fillet (ISO)	Dims/Notes		X	X	X	X	X
Welding Sym-Flange (AWS)	Dims/Notes		X	X	X	X	X
Welding Sym-Flange (ISO)	Dims/Notes		X	X	X	X	X
Welding Sym-Groove (AWS)	Dims/Notes		X	X	X	X	X
Welding Sym-Groove (ISO)	Dims/Notes		X	X	X	X	X
Welding Sym-Misc (AWS)	Dims/Notes		X	X	X	X	X
Welding Sym-Misc (ISO)	Dims/Notes		X	X	X	X	X
Welding Sym-Slot-Plug (AWS)	Dims/Notes		X	X	X	X	X
Welding Sym-Slot-Plug (ISO)	Dims/Notes		X	X	X	X	X
Wide Flange	Detailing	X	X	X	X	X	X
Wide Flange - 3D	Detailing		X	X	X	X	X
Window	Building Shell		X	X	X	X	X
Wing Nut (DIN)	Fasteners		X	X	X	X	X
Wing Nut (DIN)-3D	Fasteners		X	X	X	X	X
Wing Nut - Type A (Inch)	Fasteners		X	X	X	X	X
Wing Nut - Type A (Inch)-3D	Fasteners		X	X	X	X	X
Wing Nut - Type B (Inch)	Fasteners		X	X	X	X	X
Wing Nut - Type B (Inch)-3D	Fasteners		X	X	X	X	X
Wing Nut - Type C (inch)	Fasteners		X	X	X	X	X
Wing Nut - Type C (inch)-3D	Fasteners		X	X	X	X	X



## Vectorworks 2019 Product Comparison: Tools

(F: Fundamentals, D: Designer, A: Architect, L: Landmark, S: Spotlight, B: Braceworks)

Tool	Tool Palette/Set	F	D	A	L	S	B
Wing Nut - Type D (inch)	Fasteners		X	X	X	X	X
Wing Nut - Type D (inch)-3D	Fasteners		X	X	X	X	X
Wood Screw	Detailing		X	X	X	X	X
Wood Screw - 3D	Detailing		X	X	X	X	X
Woodruff Key	Machine Components		X	X	X	X	X
Woodruff Key-3D	Machine Components		X	X	X	X	X
Workstation Counter	Furn/Fixtures		X	X	X	X	X
Workstation Overhead	Furn/Fixtures		X	X	X	X	X
Workstation Panel	Furn/Fixtures		X	X	X	X	X
Workstation Pedestal	Furn/Fixtures		X	X	X	X	X
Worm	Machine Components		X	X	X	X	X
Worm - 3D	Machine Components		X	X	X	X	X
Worm Gear	Machine Components		X	X	X	X	X
Worm Gear - 3D	Machine Components		X	X	X	X	X
Z-Section	Detailing		X	X	X	X	X
Z-Section - 3D	Detailing		X	X	X	X	X
Zoom	Basic	X	X	X	X	X	X