

Autodesk® Accessibility Conformance Report

Revised Section 508 Edition

VPAT® Version 2.3 – December 2018

Name of Product/Version: Autodesk® Revit® 2020

Product Description: Plan, design, construct, and manage buildings and infrastructure with powerful tools for Building Information Modeling

Date: March 8, 2019

Contact information: 415-356-0700

Notes: VPAT assessment for Revit Help Documentation is contained within a separate set of tables.

Evaluation Methods Used: Testing is based on general product knowledge

Applicable Standards/Guidelines

This report covers the degree of conformance for the following accessibility standard/guidelines:

Standard/Guideline	Included In Report
Web Content Accessibility Guidelines 2.0, at http://www.w3.org/TR/2008/REC-WCAG20-20081211/	Level A (Yes) Level AA (Yes) Level AAA (No)

Revised Section 508 standards as published by the U.S. Access Board in the Federal Register on January 18, 2017 Corrections to the ICT Final Rule as published by the US Access Board in the Federal Register on January 22, 2018	(Yes)
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Terms

The terms used in the Conformance Level information are defined as follows:

- **Supports:** The functionality of the product has at least one method that meets the criterion without known defects or meets with equivalent facilitation.
- **Partially Supports:** Some functionality of the product does not meet the criterion.
- **Does Not Support:** The majority of product functionality does not meet the criterion.
- **Not Applicable:** The criterion is not relevant to the product.
- **Not Evaluated:** The product has not been evaluated against the criterion. This can be used only in WCAG 2.0 Level AAA.

WCAG 2.0 Report

Tables 1 and 2 also document conformance with:

- Chapter 5 – 501.1 Scope, 504.2 Content Creation or Editing
- Chapter 6 – 602.3 Electronic Support Documentation

Note: When reporting on conformance with the WCAG 2.0 Success Criteria, they are scoped for full pages, complete processes, and accessibility-supported ways of using technology as documented in the [WCAG 2.0 Conformance Requirements](#).

Revised Section 508 Report

Notes:

Chapter 3: Functional Performance Criteria (FPC)

Notes: Not Applicable

Chapter 4: Hardware

Notes: Not Applicable

Chapter 5: Software

Notes: Revit has a robust API which facilitates third-party applications to create and modify Revit data. However, not all elements or features are fully exposed to the API or do not have key access points. External applications that can be launched from within Revit are not covered by this assessment.

Criteria	Conformance Level	Remarks and Explanations
501.1 Scope – Incorporation of WCAG 2.0 AA	See WCAG 2.0 section	Refer to 501.1 Table 1 and 501.1 Table 2
502 Interoperability with Assistive Technology	Heading cell – no response required	Heading cell – no response required
502.2.1 User Control of Accessibility Features	Supports	Revit participates in Accessibility features provided by the operating system. In addition, the Revit API can be used to gain substantial access to Revit objects and features. Refer to section 502.3 for additional information
502.2.2 No Disruption of Accessibility Features	Supports	Revit does not disrupt Accessibility features provided by the operating system
502.3 Accessibility Services	Heading cell – no response required	Heading cell – no response required
502.3.1 Object Information	Partially Supports	Substantial access, but some objects or features are not supported by the API or are missing some key access points.
502.3.2 Modification of Object Information	Partially Supports	See Remarks and Explanations for 502.3.1
502.3.3 Row, Column, and Headers	Partially Supports	See Remarks and Explanations for 502.3.1
502.3.4 Values	Partially Supports	See Remarks and Explanations for 502.3.1

Criteria	Conformance Level	Remarks and Explanations
502.3.5 Modification of Values	Partially Supports	See Remarks and Explanations for 502.3.1
502.3.6 Label Relationships	Partially Supports	See Remarks and Explanations for 502.3.1
502.3.7 Hierarchical Relationships	Partially Supports	See Remarks and Explanations for 502.3.1
502.3.8 Text	Supports	
502.3.9 Modification of Text	Supports	
502.3.10 List of Actions	Does Not Support	
502.3.11 Actions on Objects	Supports	
502.3.12 Focus Cursor	Partially Supports	See Remarks and Explanations for 502.3.1
502.3.13 Modification of Focus Cursor	Partially Supports	See Remarks and Explanations for 502.3.1
502.3.14 Event Notification	Supports	
502.4 Platform Accessibility Features	Partially Supports	See Remarks and Explanations for 502.3.1
503 Applications	Heading cell – no response required	Heading cell – no response required
503.2 User Preferences	Partially Supports	Most UI elements participate in setting changes from the platform operating system.
503.3 Alternative User Interfaces	Not Applicable	
503.4 User Controls for Captions and Audio Description	Heading cell – no response required	Heading cell – no response required
503.4.1 Caption Controls	Not Applicable	
503.4.2 Audio Description Controls	Not Applicable	
504 Authoring Tools	Heading cell – no response required	Heading cell – no response required
504.2 Content Creation or Editing (if not authoring tool, enter “not applicable”)		See information in WCAG section
504.2.1 Preservation of Information Provided for Accessibility in Format Conversion		
504.2.2 PDF Export		
504.3 Prompts		
504.4 Templates		

501.1 Table 1: Success Criteria, Level A

Notes:

Criteria	Conformance Level	Remarks and Explanations
1.1.1 Non-text Content (Level A)	Partially Supports	Ribbon buttons have text labels. Controls and Revit elements have tool tips..
1.2.1 Audio-only and Video-only (Prerecorded) (Level A)	Supports	There are video-only cases in Revit, not Audio-only. In those cases, they are used as part of the expanded tool tip system for Ribbon elements. Each case also has a text description and they are always together to make it clear that they go together.
1.2.2 Captions (Prerecorded) (Level A)	Not Applicable	There is no known prerecorded audio content.
1.2.3 Audio Description or Media Alternative (Prerecorded) (Level A)	Not Applicable	Videos are positioned with descriptive text alternatives.
1.3.1 Info and Relationships (Level A)	Partially Supports	Most dialogs do not use visual cues to relate information. There are some cases in which positional visual cues are used, but text labels are provided for the user, e.g. prefix, suffix, above, below. Tables are often used for user input. Colors, text size, and position are rarely used in the User Interface. Sound is not used except for error prompts.
1.3.2 Meaningful Sequence (Level A)	Not Applicable	Text content created by the user as part of the Revit model is generally placed near relevant elements as part of the annotation process for project plan work and notes. The sequence of text with respect to other text is not meaningful in itself, but is generally meaningful with respect to nearby objects. This requirement does not apply for this product.
1.3.3 Sensory Characteristics (Level A)	Supports	Buttons and controls should not rely solely on shape, size, visual location, orientation, or sound. Buttons, controls, and objects created in Revit have tool tips to assist the user. These tool tips can be read by screen reader.
1.4.1 Use of Color (Level A)	Partially Supports	In most cases, Revit does not depend on color as the only visual means of conveying information, however, there are some cases in which color is the only method
1.4.2 Audio Control (Level A)	Not Applicable	Audio is not used in Revit

Criteria	Conformance Level	Remarks and Explanations
2.1.1 Keyboard (Level A)	Does not Support	Placement of elements in the model depends on using the mouse. It may be possible to design a plugin to assist in this way, but for native Revit, it is not possible
2.1.2 No Keyboard Trap (Level A)	Partially Supports	Revit makes use of standard Microsoft key tip accelerators to navigate the Ribbon. Dialogs make use of tab order to navigate the dialog as well as alt+key accelerators. Revit also supports the creation of custom keyboard shortcuts to enter commands. There may be some areas that do not support traditional keyboard access
2.2.1 Timing Adjustable (Level A)	Not Applicable	There are no cases in which Revit will change context unexpectedly based on a time limit
2.2.2 Pause, Stop, Hide (Level A)	Not Applicable	There are no known places in Revit in which moving, blinking, or scrolling is started automatically. Auto-updating does occur for background processes, but it is part of an activity that is essential to the software
2.3.1 Three Flashes or Below Threshold (Level A)	Supports	There are no known places within Revit that flash consecutively 3 times within a 1 second period
2.4.1 Bypass Blocks (Level A)	Not Applicable	Excluded by E207.2
2.4.2 Page Titled (Level A)	Supports	Views are labeled within the User Interface with tabs to help orient the user without needing to interpret content. They are also highlighted in the Project Browser and show in the window title bar
2.4.3 Focus Order (Level A)	Supports	Dialogs support tab order as well as the properties palette
2.4.4 Link Purpose (In Context) (Level A)	Supports	The software supports using standard architectural symbols as links to navigate the model in context. The symbols can be customized to meet the standard of the user. Identification within the symbol, using letters and numbers, will associate the link with a sheet on which it can be found. Though this may be a bit different than hyperlinks on a website, the general intent is the same. The symbol represents what view will be opened when used

Criteria	Conformance Level	Remarks and Explanations
3.1.1 Language of Page (Level A)	Partially Supports	The installed Revit language can be detected in a text file which could be helpful for text elements of the User Interface. However, Revit does not support being able to set a language for a Revit file, so file content would not be supported if it is created in a language that is different than the installed language
3.2.1 On Focus (Level A)	Supports	
3.2.2 On Input (Level A)	Supports	Revit will not automatically change context automatically by default, except in a few instances that can be modified in the user settings to make property changes only after using the Apply button
3.3.1 Error Identification (Level A)	Supports	
3.3.2 Labels or Instructions (Level A)	Supports	
4.1.1 Parsing (Level A)	Not Applicable	Content is not implemented using markup languages so this item does not apply
4.1.2 Name, Role, Value (Level A)	Partially Supports	Revit has a robust API that facilitates retrieving and setting data in the application and content. Some aspects of Revit are not available to the API

501.1 Table 2: Success Criteria, Level AA

Notes:

Criteria	Conformance Level	Remarks and Explanations
1.2.4 Captions (Live) (Level AA)	Not Applicable	No live audio content in product
1.2.5 Audio Description (Prerecorded) (Level AA)	Not Applicable	No videos with audio content in product
1.4.3 Contrast (Minimum) (Level AA)	Partially Supports	Nearly all text within the user interface has appropriate minimum contrast. Disabled buttons have insufficient minimum contrast and hyperlinks on the Model Browser page
1.4.4 Resize text (Level AA)	Partially Supports	Although text in primary UI elements resize appropriately, some options and controls become

Criteria	Conformance Level	Remarks and Explanations
		unavailable due to the UI being too big to see all available options
1.4.5 Images of Text (Level AA)	Supports	There are no known cases of images with text
2.4.5 Multiple Ways (Level AA)	Not Applicable	Excluded by E207.2
2.4.6 Headings and Labels (Level AA)	Supports	Dialogs group similar information together and have short descriptive labels for the field name. A concise group name is sometimes used to further help the user understand the organization of information. The properties palette uses header-like UI to identify similar information
2.4.7 Focus Visible (Level AA)	Supports	
3.1.2 Language of Parts (Level AA)	Does not Support	The language of content, e.g. text notes, tags, etc cannot be programmatically determined
3.2.3 Consistent Navigation (Level AA)	Not Applicable	Excluded by E207.2
3.2.4 Consistent Identification (Level AA)	Not Applicable	Excluded by E207.2
3.3.3 Error Suggestion (Level AA)	Supports	
3.3.4 Error Prevention (Legal, Financial, Data) (Level AA)	Not Applicable	

501.1 Table 3: Success Criteria, Level AAA

Notes: Not Applicable

Chapter 6: Support Documentation and Services

Notes:

Criteria	Conformance Level	Remarks and Explanations
601.1 Scope	Heading cell – no response required	Heading cell – no response required
602 Support Documentation	Heading cell – no response required	Heading cell – no response required
602.2 Accessibility and Compatibility Features	Partially Supports	There are several features that support accessibility, however, they are not specifically documented as accessibility

Criteria	Conformance Level	Remarks and Explanations
		features. Examples are KeyTips, Tooltips, Keyboard Shortcuts, Keyboard Accelerators, and Quick Access Toolbar.
602.3 Electronic Support Documentation	See WCAG 2.0 section	Refer to 602.3 Table 1 and 602.3 Table 2
602.4 Alternate Formats for Non-Electronic Support Documentation	Not Applicable	Autodesk does not provide Non-Electronic Support Documentation for Revit.
603 Support Services	Heading cell – no response required	Heading cell – no response required
603.2 Information on Accessibility and Compatibility Features		
603.3 Accommodation of Communication Needs		

602.3 Table 1: Success Criteria, Level A

Notes:

Criteria	Conformance Level	Remarks and Explanations
1.1.1 Non-text Content (Level A)	Partially Supports	There are some instances in which a graphic is used to help support a text based description of a concept. Graphics are not generally used as the primary method to communicate concepts, however, there may be instances in which a graphic does not have a text alternative.
1.2.1 Audio-only and Video-only (Prerecorded) (Level A)	Supports	There are no known cases of audio-only and few cases of video-only. The video-only case had a text equivalent describing the action in the video
1.2.2 Captions (Prerecorded) (Level A)	Partially Supports	Newly created videos have captions (for features created in release 2019 and later), however, older videos do not yet have captions
1.2.3 Audio Description or Media Alternative (Prerecorded) (Level A)	Partially Supports	The videos are narrated in a way that explains in general terms how to complete the task which is what the video is demonstrating.
1.3.1 Info and Relationships (Level A)	Supports	
1.3.2 Meaningful Sequence (Level A)	Supports	Page content is in a linear format progressing from top to bottom
1.3.3 Sensory Characteristics (Level A)	Supports	

Criteria	Conformance Level	Remarks and Explanations
1.4.1 Use of Color (Level A)	Supports	
1.4.2 Audio Control (Level A)	Supports	
2.1.1 Keyboard (Level A)	Partially Supports	The Share button used to share the content of the help topic cannot be accessed from the keyboard. Tools such as MouseKeys could be used to access it.
2.1.2 No Keyboard Trap (Level A)	Supports	
2.2.1 Timing Adjustable (Level A)	Not Applicable	There are no time limits in Help documentation
2.2.2 Pause, Stop, Hide (Level A)	Partially Supports	Nearly all videos do not start automatically, but there are some animated gifs that help to graphically describe certain topics start automatically with no way to pause, stop, or hide them
2.3.1 Three Flashes or Below Threshold (Level A)	Supports	There are no known cases
2.4.1 Bypass Blocks (Level A)	Partially Supports	The navigation block is repeated on each page. It will collapse when the browser window is made smaller. Once collapsed, it can be expanded, but not while the window width is large
2.4.2 Page Titled (Level A)	Supports	
2.4.3 Focus Order (Level A)	Supports	Hyperlinks are one of the only items that can have focus within help documentation and increment sequentially in a predictable manner
2.4.4 Link Purpose (In Context) (Level A)	Supports	
3.1.1 Language of Page (Level A)	Supports	
3.2.1 On Focus (Level A)	Supports	
3.2.2 On Input (Level A)	Supports	
3.3.1 Error Identification (Level A)	Supports	The search field will report no results if the keyword is not found
3.3.2 Labels or Instructions (Level A)	Supports	The search field is the only input field and is appropriately labeled
4.1.1 Parsing (Level A)	Supports	
4.1.2 Name, Role, Value (Level A)	Supports	

602.3 Table 2: Success Criteria, Level AA

Notes:

Criteria	Conformance Level	Remarks and Explanations
1.2.4 Captions (Live) (Level AA)	Supports	
1.2.5 Audio Description (Prerecorded) (Level AA)	Partially Supports	The videos are narrated in a way that explains in general terms how to complete the task which is what the video is demonstrating but does not include every action or mouse click that is represented in the video.
1.4.3 Contrast (Minimum) (Level AA)	Supports	The minimum contrast requirement can be achieved by using a high contrast theme within the operating system and/or using a browser plug-in
1.4.4 Resize text (Level AA)	Supports	
1.4.5 Images of Text (Level AA)	Supports	
2.4.5 Multiple Ways (Level AA)	Supports	Help documentation can be navigated using the navigation pane, search box, and hyperlinks within pages. Pages also have links to parent topic pages, related tasks, and related topics pages
2.4.6 Headings and Labels (Level AA)	Supports	
2.4.7 Focus Visible (Level AA)	Supports	
3.1.2 Language of Parts (Level AA)	Supports	
3.2.3 Consistent Navigation (Level AA)	Supports	
3.2.4 Consistent Identification (Level AA)	Supports	
3.3.3 Error Suggestion (Level AA)	Not Applicable	
3.3.4 Error Prevention (Legal, Financial, Data) (Level AA)	Not Applicable	

602.3 Table 3: Success Criteria, Level AAA

Notes: Not Applicable

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