

Autodesk Accessibility Conformance Report

Revised Section 508 Edition

VPAT® Version 2.3 (Revised) – April 2022

Name of Product/Version: Revit Generative Design 2023

Product Description: Revit Generative Design is a tool for generating, exploring, and optimizing designs based on goals, constraints, and inputs.

Report Date: March 17, 2022

Contact Information: ---

Notes: Revit Generative Design is launched from Revit, but runs as a separate application. Accessibility conformance for the Revit Generative Design application is therefore reported here, separately from Revit. Because Revit Generative Design online help is part of Revit online help, we are NOT including accessibility conformance for Revit Generative Design Electronic Support Documentation in this document. For that information, please see the Revit Electronic Support Documentation Accessibility Conformance Report (Revit Help VPAT).

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
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Revised Section 508 standards published January 18, 2017 and corrected January 22, 2018	(Yes)
Web Content Accessibility Guidelines 2.0 (Tables 1 and 2, below)	Level A (Yes) Level AA (Yes) Level AAA (No)

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

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](#).

Table 1: Success Criteria, Level A

Criteria	Conformance Level	Remarks and Explanations
1.1.1 Non-text Content (Level A)	Partially Supports	The primary Non-Text Content in the software is a set views of geometry associated with generated designs. For each generated design, textual representations of key data is available. However, some aspects of the designs are only represented graphically.
1.2.1 Audio-only and Video-only (Prerecorded) (Level A)	Not Applicable	There are no pre-recorded audio or video elements in the software itself. Conformance of help documentation is covered separately. See the Revit Electronic Support Documentation (Help) Accessibility Conformance Report (VPAT).
1.2.2 Captions (Prerecorded) (Level A)	Not Applicable	See Remarks and Explanations for 1.2.1
1.2.3 Audio Description or Media Alternative (Prerecorded) (Level A)	Not Applicable	See Remarks and Explanations for 1.2.1
1.3.1 Info and Relationships (Level A)	Partially Supports	See Remarks and Explanations for 1.1.1
1.3.2 Meaningful Sequence (Level A)	Not Applicable	Textual content is limited to labels for interface elements and short descriptions, where the meaning is understandable from the immediate context. The intent of 1.3.2 seems to mainly apply to longer pieces of text in narrative form that require a specific sequencing to understand. As this application does not contain such narrative text, this section does not appear to apply.
1.3.3 Sensory Characteristics (Level A)	Partially Supports	See Remarks and Explanations for 1.1.1
1.4.1 Use of Color (Level A)	Partially Supports	Most design data generated by the software that is presented graphically using color is also available as text in the form of tables and forms. The exception is for data that is only represented as color on the surface of geometry in the visual preview interface. For those colors, no directly equivalent textual representation is available.
1.4.2 Audio Control (Level A)	Not Applicable	Audio is not used.
2.1.1 Keyboard (Level A)	Partially Supports	The essential workflows in the software are navigable by keyboard. Users can use the tab, enter, and arrow keys to switch between elements on the page, select objects, and create geometry and result data. There may be some areas of the software that do not support traditional keyboard navigation.
2.1.2 No Keyboard Trap (Level A)	Partially Supports	See Remarks and Explanations for 2.1.1

2.2.1 Timing Adjustable (Level A)	Not Applicable	No interactions require user response within a set time frame.
2.2.2 Pause, Stop, Hide (Level A)	Supports	The software provides a mechanism to pause, resume, and stop the generation of results, which in effect allows the user to pause, resume, and stop the automatic loading data to the screen. There is a progress animation that appears that cannot be paused, but it is functionally equivalent to a loading animation. See https://www.w3.org/WAI/WCAG21/Understanding/pause-stop-hide.html which, for “loading” animations states that “Because the moving content is not presented in parallel with other content, no mechanism to pause, stop or hide it needs to be provided, even though the animation may run for more than 5 seconds ...”
2.3.1 Three Flashes or Below Threshold (Level A)	Supports	There are no known cases flashing occurring more than 3 times within a 1 second period in the software.
2.4.1 Bypass Blocks (Level A)	Not Applicable	Excluded by E207.2
2.4.2 Page Titled (Level A)	Partially Supports	Most window and distinct sections of the user interface include titles describing their contents.
2.4.3 Focus Order (Level A)	Does Not Support	See Remarks and Explanations for 2.1.1
2.4.4 Link Purpose (In Context) (Level A)	Supports	Help links are presented as buttons with the purpose of the link stated in text.
3.1.1 Language of Page (Level A)	Partially Supports	The language of the software follows the language of the host application, Revit. See Revit Accessibility Conformance Report (VPAT).
3.2.1 On Focus (Level A)	Supports	(no remarks)
3.2.2 On Input (Level A)	Supports	(no remarks)
3.3.1 Error Identification (Level A)	Supports	(no remarks)
3.3.2 Labels or Instructions (Level A)	Partially Supports	Most, but not all, controls in the interface have associated text labels, instructions, and/or tooltips.
4.1.1 Parsing (Level A)	Not Applicable	While a markup language is used to structure parts of the user interface, it is used to emulate desktop application functionality, rather than to structure narrative content such as that found on most websites. Therefore this section does not seem to apply.
4.1.2 Name, Role, Value (Level A)	Not Evaluated	The conformance of the software with this criterion has not been evaluated.

Table 2: Success Criteria, Level AA202

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. Text labels on buttons with solid backgrounds have contrast ratios less than the minimum. Labels for inactive controls also do not meet the recommended minimum contrast, however, per 1.4.3, “Text or images of text that are part of an inactive user interface component, that are pure decoration, that are not visible to anyone, or that are part of a picture that contains significant other visual content, have no contrast requirement.”
1.4.4 Resize text (Level AA)	Partially Supports	Text resizes appropriately when operating system settings for overall display scaling are increased. However under some conditions (small screens), users may need to reposition or resize windows so that scaled up controls are not truncated.
1.4.5 Images of Text (Level AA)	Supports	There are no known cases of images of text in product.
2.4.5 Multiple Ways (Level AA)	Not Applicable	Excluded by E207.2
2.4.6 Headings and Labels (Level AA)	Supports	Screens group similar information together and have short descriptive labels for field names. Concise group names are sometimes used as headers to further help the user understand the organization of information.
2.4.7 Focus Visible (Level AA)	Partially Supports	Most, but not all keyboard operable user interface controls have a mode of operation where the keyboard focus indicator is visible. Some controls, such as the page selectors in the results grid, do not have a visible indicator though they may receive keyboard focus.
3.1.2 Language of Parts (Level AA)	Does Not Support	The language of individual parts of the interface 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)	Partially Supports	In some cases, suggestions for addressing input errors are presented in a part of the interface not directly adjacent to the input controls, potentially making the suggestions difficult to find for some users. In other cases, errors are handled without visual suggestions, potentially violating the intent of this criterion.

3.3.4 Error Prevention (Legal, Financial, Data) (Level AA)	Not Applicable	(no remarks)
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Chapter 3: [Functional Performance Criteria \(FPC\)](#)

Notes: Not applicable

Chapter 4: [Hardware](#)

Notes: Not applicable

Chapter 5: [Software](#)

Criteria	Conformance Level	Remarks and Explanations
501.1 Scope – Incorporation of WCAG 2.0 AA	See WCAG 2.0 section	See 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	Partially Supports	The software participates in accessibility features provided by the operating system. However, the software has not been fully tested for conformance.
502.2.2 No Disruption of Accessibility Features	Partially Supports	The software does not appear to disrupt platform accessibility features. However, the software has not been fully tested for conformance.
502.3 Accessibility Services	Heading cell – no response required	Heading cell – no response required
502.3.1 Object Information	Not Applicable	While Revit Generative Design includes functionality that runs scripts, those scripts do not control the Revit Generative Design interface itself. Therefore, we do not understand Revit Generative Design to be a platform, making this section not applicable. See definitions here: https://www.access-board.gov/guidelines-and-standards/communications-and-it/about-the-ict-refresh/final-rule/text-of-the-standards-and-guidelines#502-interoperability-assistive-technology
502.3.2 Modification of Object Information	Not Applicable	See Remarks and Explanations for 502.3.1
502.3.3 Row, Column, and Headers	Not Applicable	See Remarks and Explanations for 502.3.1
502.3.4 Values	Not Applicable	See Remarks and Explanations for 502.3.1
502.3.5 Modification of Values	Not Applicable	See Remarks and Explanations for 502.3.1
502.3.6 Label Relationships	Not Applicable	See Remarks and Explanations for 502.3.1

Criteria	Conformance Level	Remarks and Explanations
502.3.7 Hierarchical Relationships	Not Applicable	See Remarks and Explanations for 502.3.1
502.3.8 Text	Not Applicable	See Remarks and Explanations for 502.3.1
502.3.9 Modification of Text	Not Applicable	See Remarks and Explanations for 502.3.1
502.3.10 List of Actions	Not Applicable	See Remarks and Explanations for 502.3.1
502.3.11 Actions on Objects	Not Applicable	See Remarks and Explanations for 502.3.1
502.3.12 Focus Cursor	Not Applicable	See Remarks and Explanations for 502.3.1
502.3.13 Modification of Focus Cursor	Not Applicable	See Remarks and Explanations for 502.3.1
502.3.14 Event Notification	Not Applicable	See Remarks and Explanations for 502.3.1
502.4 Platform Accessibility Features	Not Applicable	See Remarks and Explanations for 502.3.1
<u>503 Applications</u>	Heading cell – no response required	Heading cell – no response required
503.2 User Preferences	Partially Supports	<p>Most UI elements participate in setting changes from the platform operating system.</p> <p>Section 503.2 states: “Applications shall permit user preferences from platform settings for color, contrast, font type, font size, and focus cursor.”</p> <p>Color – Supports Per testing in Windows 10, using the platform settings > Ease of Access > Color Filters, the application supports user preferences for color.</p> <p>Contrast – Does Not Support Per testing in Windows 10, using the platform settings > Ease of Access > High contrast, the application does not support user preferences for contrast.</p> <p>Font Type – Does Not Support Unaware of any mechanism to change the font type from the platform.</p> <p>Font Size – Partially Supports Per testing in Windows 10, using the platform settings > Display > Make Text Bigger, the application does not support user preferences specifically for font size.</p> <p>Per testing in Windows 10, using the platform settings > Display > Make Everything Bigger, the application does support user preferences for overall zoom level of the interface, which thereby increases font size.</p>

Criteria	Conformance Level	Remarks and Explanations
		Focus Cursor – Not evaluated
503.3 Alternative User Interfaces	Not Applicable	(no remarks)
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	(no remarks)
503.4.2 Audio Description Controls	Not Applicable	(no remarks)
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”)	Not Applicable	Per https://www.access-board.gov/guidelines-and-standards/communications-and-it/about-the-ict-refresh/final-rule/text-of-the-standards-and-guidelines#E103-definitions Authoring tool is defined as “Any software, or collection of software components, that can be used by authors, alone or collaboratively, to create or modify content for use by others, including other authors.” Content is defined as “Electronic information and data, as well as the encoding that defines its structure, presentation, and interactions.” Data produced by the software is accessed via the software’s user interface, as well as via a mechanism to create data in the host application (Revit). Functionality to produce standalone content is not provided at this time, so this section does not apply.
504.2.1 Preservation of Information Provided for Accessibility in Format Conversion	Not Applicable	See Remarks and Explanations for 504.2
504.2.2 PDF Export	Not Applicable	See Remarks and Explanations for 504.2
504.3 Prompts	Not Applicable	See Remarks and Explanations for 504.2
504.4 Templates	Not Applicable	See Remarks and Explanations for 504.2

Chapter 6: [Support Documentation and Services](#)

Notes: See notes on cover page.

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