

AUTODESK® DESIGN REVIEW 2011

Working with Autodesk Design Review 2011 and Section 508

Section 508 requires that federal agencies' electronic and information technology is accessible to people with disabilities. The Center for Information Technology Accommodation (CITA), in the U.S. General Services Administration's Office of Government-wide Policy, has been charged with the task of educating federal employees and building the infrastructure necessary to support Section 508 implementation.

With this white paper, Autodesk offers background information to help our customers understand the accessibility features of Autodesk Design Review 2011 software, in the context of the Section 508 standards. This was done with the intent to enable agencies to be compliant with the Section 508 regulations.

The document contains subsets of the Electronic and Information Technology Accessibility Standards as published in 36 CFR Part 1194 and provides an analysis of Autodesk Design Review as compared to these standards.

The first table of the Template provides a summary view of the section 508 Standards. The subsequent tables provide more detailed views of each subsection. There are three columns in each table. Column one of the Summary Table describes the subsections of subparts B and C of the Standards. The second column describes the supporting features of the product or refers you to the corresponding detailed table, "e.g., equivalent facilitation." The third column contains any additional remarks and explanations regarding the product. In the subsequent tables, the first column contains the lettered paragraphs of the subsections. The second column describes the supporting features of the product with regard to that paragraph. The third column contains any additional remarks and explanations regarding the product.

This document is not intended to be a certification of compliance. This template is based upon version 1.2 (5/6/2004) supplied by the U.S. Government.

More information on Section 508 can be found on the Government's website located at: <http://www.section508.gov/>

Summary Table		
Criteria	Supporting Features	Remarks and explanations
Section 1194.21 Software Applications and Operating Systems		Completed.
Section 1194.22 Web-based Internet Information and Applications		Completed.
Section 1194.23 Telecommunications Products		N/A
Section 1194.24 Video and Multi-media Products		N/A
Section 1194.25 Self-Contained, Closed Products		N/A
Section 1194.26 Desktop and Portable Computers		N/A
Section 1194.31 Functional Performance Criteria		Completed.
Section 1194.41 Information, Documentation		Completed.

and Support		
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Section 1194.21 Software Applications and Operating Systems		
Criteria	Supporting Features	Defects Related to the functionality
(a) When software is designed to run on a system that has a keyboard, product functions shall be executable from a keyboard where the function itself or the result of performing a function can be discerned textually.	Supports with exceptions.	The keyboard navigation is provided for all the menu commands and to access primary Toolbar items (through shortcut keys), however, most features are not usable via keyboard control alone.
(b) Applications shall not disrupt or disable activated features of other products that are identified as accessibility features, where those features are developed and documented according to industry standards. Applications also shall not disrupt or disable activated features of any operating system that are identified as accessibility features where the application programming interface for those	Supports.	Testing has indicated that Autodesk Design Review does not disrupt or disable the accessibility of other products or the Windows® operating system.

<p>accessibility features has been documented by the manufacturer of the operating system and is available to the product developer.</p>		
<p>(c) A well-defined on-screen indication of the current focus shall be provided that moves among interactive interface elements as the input focus changes. The focus shall be programmatically exposed so that Assistive Technology can track focus and focus changes.</p>	<p>Supports with exceptions.</p>	<p>Focus is programmatically exposed for the top menu, most dialog windows, the Canvas Pane, and most Palettes, however this is limited.</p>
<p>(d) Sufficient information about a user interface element including the identity, operation and state of the element shall be available to Assistive Technology. When an image represents a program element, the information conveyed by the image must also be available in text.</p>	<p>Does not support.</p>	<p>All the images (Icons) in the UI elements are descriptive and the state of the element is supported as a part of assistive technology.</p> <p>Tooltips are provided for all the toolbar commands but not for all the UI elements.</p> <p>Also some icons are not according to standards.</p>
<p>(e) When bitmap images are used to identify controls, status indicators, or other</p>	<p>Supports.</p>	<p>Bitmap images and actions associated with them are consistent.</p>

<p>programmatic elements, the meaning assigned to those images shall be consistent throughout an application's performance.</p>		<p>But still in some areas the cursors are not consistent b/w</p>
<p>(f) Textual information shall be provided through operating system functions for displaying text. The minimum information that shall be made available is text content, text input caret location, and text attributes.</p>	<p>Does not support.</p>	<p>Limited textual information is provided through operating system functions for displaying text.</p>
<p>(g) Applications shall not override user selected contrast and color selections and other individual display attributes.</p>	<p>Supports with exceptions.</p>	<p>Autodesk Design Review does not override user selected contrast and color selections. The display of 2D and 3D graphics within the Canvas Pane, however, does not adhere to the user selected contrast and color selections.</p> <p>But in some cases the quality of the UI elements are not correct.</p>
<p>(h) When animation is displayed, the information shall be displayable in at least one non-animated presentation mode at the option of the user.</p>	<p>Supports.</p>	<p>Autodesk Design Review does not use animations within the user interface. Animated displays are only included within the DWF file which can have text associated with (in the text data palette) it by the author.</p>
<p>(i) Color coding shall not be used as the only means of conveying information,</p>	<p>Supports with exceptions.</p>	<p>Most areas do not rely on color coding as the only means of conveying information. The exception is object highlighting within the Canvas Pane.</p>

<p>indicating an action, prompting a response, or distinguishing a visual element.</p>		
<p>(j) When a product permits a user to adjust color and contrast settings, a variety of color selections capable of producing a range of contrast levels shall be provided.</p>	<p>Supports with exceptions.</p>	<p>Autodesk design Review provides custom color selections for dynamic highlighting, sheet hyperlink color, canvas color, sheet color.</p> <p>The user doesn't have the ability to customize the application interface.</p>
<p>(k) Software shall not use flashing or blinking text, objects, or other elements having a flash or blink frequency greater than 2 Hz and lower than 55 Hz.</p>	<p>Not applicable.</p>	<p>Autodesk Design Review does not use flashing or blinking text.</p>
<p>(l) When electronic forms are used, the form shall allow people using Assistive Technology to access the information, field elements, and functionality required for completion and submission of the form, including all directions and cues.</p>	<p>Supports with exceptions.</p>	<p>Form dialogs can be invoked and navigated by using the keyboard, however most components of a form are not exposed to screen readers.</p>

Section 1194.22 Web-based Internet information and applications

Criteria	Supporting Features	Remarks and explanations
(a) A text equivalent for every non-text element shall be provided (e.g., via "alt", "longdesc", or in element content).	Does not support.	ALT text is not provided for important non text elements.
(b) Equivalent alternatives for any multimedia presentation shall be synchronized with the presentation.	Not applicable.	There are no multimedia presentations provided in the Seek design content and Related Products web pages.
(c) Web pages shall be designed so that all information conveyed with color is also available without color, for example from context or markup.	Not applicable.	There is no color coded information within the Seek design content and Related Products web pages.
(d) Documents shall be organized so they are readable without requiring an associated style sheet.	Supports.	All HTML pages are readable without a style sheet.
(e) Redundant text links shall be provided for each active region of a server-side image map.	Not applicable.	There are no image maps used within the Seek design content and Related Products web pages.
(f) Client-side image maps shall be provided instead of server-side image maps	Not applicable.	There are no image maps used within the Seek design content and Related Products web pages.

except where the regions cannot be defined with an available geometric shape.		
(g) Row and column headers shall be identified for data tables.	Not applicable.	There are no data tables within the Seek design content and Related Products web pages.
(h) Markup shall be used to associate data cells and header cells for data tables that have two or more logical levels of row or column headers.	Not applicable.	There are no data tables within the Seek design content and Related Products web pages.
(i) Frames shall be titled with text that facilitates frame identification and navigation.	Does not support.	The frames used do not provide meaningful text that facilitates frame identification and navigation.
(j) Pages shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.	Supports.	There are no programmatic objects within the Seek design content and Related Products web pages that would cause the screen to flicker.
(k) A text-only page, with equivalent information or functionality, shall be provided to make a web site comply with the provisions of this part, when compliance cannot be accomplished in any other way. The content of the text-only page shall be updated whenever the primary page changes.	Does not support.	There is no alternate text version to the Seek design content and Related Products web pages.

<p>(l) When pages utilize scripting languages to display content, or to create interface elements, the information provided by the script shall be identified with functional text that can be read by Assistive Technology.</p>	<p>Support</p>	<p>The scripts on Seek work with assistive technology.</p>
<p>(m) When a web page requires that an applet, plug-in or other application be present on the client system to interpret page content, the page must provide a link to a plug-in or applet that complies with §1194.21(a) through (l).</p>	<p>Not applicable.</p>	<p>There are no applets or plug-ins used within the Seek design content and Related Products web pages.</p>
<p>(n) When electronic forms are designed to be completed on-line, the form shall allow people using Assistive Technology to access the information, field elements, and functionality required for completion and submission of the form, including all directions and cues.</p>	<p>Support</p>	
<p>(o) A method shall be provided that permits users to skip repetitive navigation links.</p>	<p>Not applicable.</p>	
<p>(p) When a timed response is required, the user shall be alerted and given sufficient</p>	<p>Not applicable.</p>	

time to indicate more time is required.		
Section 1194.31 Functional Performance Criteria		
<i>Criteria</i>	Supporting Features	Remarks and explanations
(a) At least one mode of operation and information retrieval that does not require user vision shall be provided, or support for Assistive Technology used by people who are blind or visually impaired shall be provided.	Supports with Exceptions.	<p>Keyboard navigation is provided, but is very limited. Not all areas of Autodesk Design Review support Assistive Technology screen readers.</p> <p>Assistive Technology screen readers can read most dialog windows, Canvas Pane focus and can pick up buttons on canvas toolbar.</p>
(b) At least one mode of operation and information retrieval that does not require visual acuity greater than 20/70 shall be provided in audio and enlarged print output working together or independently, or support for Assistive Technology used by people who are visually impaired shall be provided.	Supports with Exceptions.	No audio is available in the product. Keyboard navigation is provided, but is limited. Not all areas of Autodesk Design Review support Assistive Technology screen readers.

<p>(c) At least one mode of operation and information retrieval that does not require user hearing shall be provided, or support for Assistive Technology used by people who are deaf or hard of hearing shall be provided.</p>	<p>Not applicable.</p>	<p>Autodesk Design Review does not require user hearing in order to operate the software.</p>
<p>(d) Where audio information is important for the use of a product, at least one mode of operation and information retrieval shall be provided in an enhanced auditory fashion, or support for assistive hearing devices shall be provided.</p>	<p>Not applicable.</p>	<p>Autodesk Design Review does not require user hearing in order to operate the software.</p>
<p>(e) At least one mode of operation and information retrieval that does not require user speech shall be provided, or support for Assistive Technology used by people with disabilities shall be provided.</p>	<p>Not applicable.</p>	<p>Autodesk Design Review does not require user speech in order to operate the software.</p>
<p>(f) At least one mode of operation and information retrieval that does not require fine motor control or simultaneous actions and</p>	<p>Supports with exceptions.</p>	<p>Keyboard navigation is provided, but limited. Although most primary tools in the toolbar can be invoked by the keyboard, their mechanisms cannot be executed through the keyboard.</p>

that is operable with limited reach and strength shall be provided.



Some elements on the canvas pane of the Autodesk Design Review cannot be accessed using the keyboard.

Section 1194.41 Information, Documentation and Support

Criteria	Supporting Features	Remarks and explanations
(a) Product support documentation provided to end-users shall be made available in alternate formats upon request, at no additional charge.	Does not support.	Support documentation is available within the application as well as on the Autodesk Website at: http://usa.autodesk.com/adsk/servlet/index?id=11258925&siteID=123112&linkID=9338137
(b) End-users shall have access to a description of the accessibility and	Supports.	This document after completion need to be posted on our website at http://www.autodesk.com . Search for "Section 508"

<p>compatibility features of products in alternate formats or alternate methods upon request, at no additional charge.</p>		
<p>(c) Support services for products shall accommodate the communication needs of end-users with disabilities.</p>	<p>Supports.</p>	<p>Support services options are available via webpage, e-mail, fax, or phone.</p>