

Accessibility test report

Archicad

Translated from German

Test center

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Checked by

Pfennigparade Foundation | Digital Accessibility Competence Center

The Pfennigparade Foundation tests in accordance with the basic requirements of EU Directive 2016/2102. Criteria are applied from the EU accessibility requirements for ICT products and services, based on the harmonized European Standard of EN 301 549, version 3.2.1. Spreadsheet A.2: Applications
(https://www.etsi.org/deliver/etsi_en/301500_301599/301549/03.02.01_60/en_301549v030201p.pdf).

Test date

Feb. 2, 2022

Summary

Archicad is a CAD/BIM software used by architects to design large and complex building projects. A minimum level of vision and sufficient motor and cognitive skills are required to operate this specialized application. It is known that the software does not currently provide sufficient assistive support for screen readers, keyboard operability, or speech input.

The report includes relevant test steps for these criteria, for possible use in later versions of the software, but at this time there is no support for these criteria.

In addition, certain test criteria are not automatically met when the product is installed in the standard manner. However, the application does offer special settings and configuration options to meet the criteria. Training courses are available which provide the information needed to use these settings. This mainly concerns the following criteria:

- 1.3.1 Info and relationships
- 2.2.1 Customizable time limits
- 2.4.6 Meaningful titles and labels
- 5.2.9 Parent-child relationships
- 9.1.1 Accessibility and compatibility features

How to read the report

You will find a list of all identified items, which are linked to the particular test sample where they were found. There is a distinction between a violation (shown with an X symbol) and a recommendation (shown with a star symbol): a violation is an error that needs to be fixed, a recommendation is not mandatory to implement but would improve the accessibility of the item. The report then proceeds to specify the steps needed to achieve the success criteria.

Test documentation

As part of the testing procedure, an Issue is created whenever a failure occurs. This documentation contains a list of identified examples of errors, and does not necessarily include a full listing of all redundant errors. The tested product must be proactively and fully checked for errors of all types (development, editing or design).

Further information

[Print view](#)

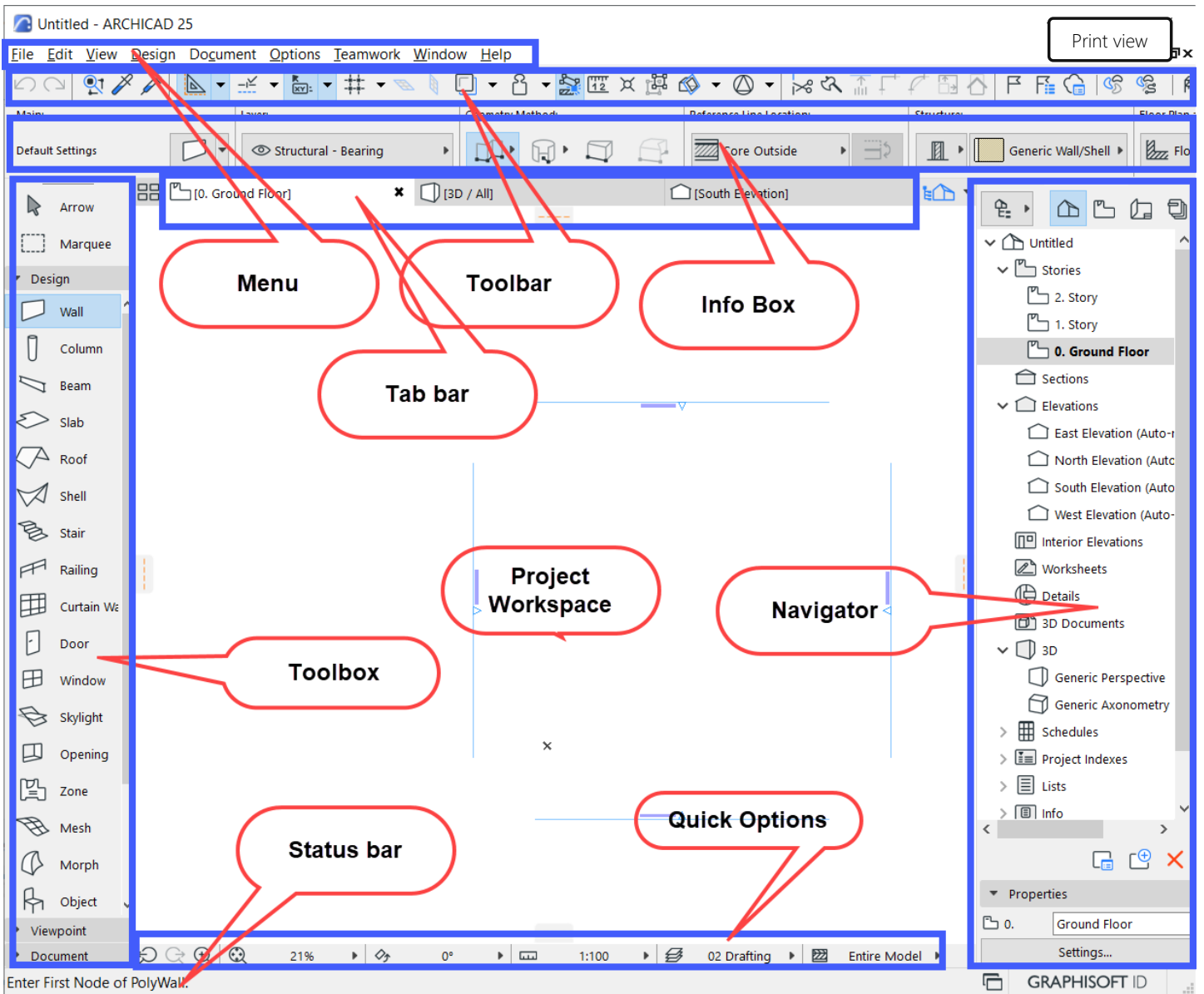
Further information is provided about each test criterion, for example about the test procedure or specific requirements from WCAG 2.1 and EN 301549. For each Issue, you can access this information via links shown at its "Test Step" item. Here you will find further content, example implementations, and specific target group definitions and their needs.

Test details

Project Name	Archicad
Conformity target	EN 301549 - Software
Accessibility Support Baseline	Operating system: Windows 10 pro, 20H2 Build 19042.1165 Accessibility Insights for Windows: 1.1.1741.1 Screenreader: NVDA, 2021.1 Screenreader: JAWS, 2021 Contrast Analyzer: CCA, 3.1.2
Information on the test method	The test procedure is based on the BIT inklusiv BITV-Software test.

Selected samples

Archicad 25



Test results according to test criteria

Total



31
Test steps
not passed

15
Test steps
Passed

29
Test steps
not applicable

31

Test steps
not passed

15

Test steps
Passed

29

Test steps
not applicable

Issues found for this sample

- × Graphics without alternative text
- × Graphical controls without alternative text
- × Incorrect semantics for objects
- ☆ Cursor icons change
- × Screen reader function cannot be used in the application
- ☆ Information relies on sensory characteristics
- × Truncated content in portrait mode
- × Selected and unselected elements are differentiated only by color
- × Texts with insufficient contrast ratio
- × Content is cut off when Font Size is changed to 200%
- × Content does not wrap when zooming to 400%
- × Insufficient contrast of mouse cursor
- × Interface controls with insufficient contrast ratio
- × Information graphic with insufficient contrast ratio
- × No possibility to change the text display
- × Additional temporary content is difficult to use
- × Keyboard accessibility does not work as expected
- × Keyboard traps identified
- ☆ Time intervals when filling in fields
- × Keyboard navigation sequence is often illogical
- × Incorrect/incomplete configuration of links
- ☆ Values are rounded without notification
- × Unlabeled or insufficiently labeled items

- × [Focus tracking is insufficient](#)
- × [Visibly labeled items with inaccessible names](#)
- × [Insufficiently labeled input fields](#)
- × [Input formats not specified](#)
- × [Insufficiently labeled controls](#)
- × [Items without accessible names](#)
- × [Values are not submitted correctly](#)
- × [Items with wrong role](#)
- × [No indicator appears during 3D view loading indicator](#)
- × [Items without name, role, value, or usage instructions](#)
- × [Labels not correctly linked to the control they describe](#)
- × [Sequence and naming of areas when navigating with keyboard & screenreader are not implemented sufficiently](#)
- ☆ [Illogical hierarchy of Tree view](#)
- × [Incorrect instructions for operating items](#)
- × [It is not possible to navigate to some interface objects](#)
- × [Changes are not communicated](#)
- × [Operation with keyboard and screen reader not possible](#)
- × [Selection with the arrow keys not possible](#)
- × [Insufficient implementation of user preferences](#)
- ☆ [List of Keyboard Shortcuts not available in documentation](#)
- × [Documentation is not barrier-free](#)

Overall evaluation according to test criteria

Test criterion	Result	Issue
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Perceptibility

1.1.1 Non-Text Content	⊗	<ul style="list-style-type: none"> × Graphical controls without alternative text × Graphics without alternative text
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- × [Graphical controls without alternative text](#)
- × [Graphics without alternative text](#)

Test criterion	Result	Issue
1.2.1 Alternatives for audio files and silent videos (recorded)		
1.2.2 Subtitles for videos (recorded)		
1.2.3 Audio description or media alternative (recorded)		
1.2.4 Subtitles (live video)		
1.2.5 Audio description for videos (recorded)		
1.3.1 Info and relationships		<ul style="list-style-type: none">✘ Incorrect semantics for objects☆ Cursor icons change
1.3.2 Meaningful sequence		<ul style="list-style-type: none">✘ Screen reader function cannot be used in the application
1.3.3 Sensory characteristics		<ul style="list-style-type: none">☆ Information relies on sensory characteristics
1.3.4 Display orientation		<ul style="list-style-type: none">✘ Truncated content in portrait mode
1.3.5 Determine input purpose		
1.4.1 Use of color		<ul style="list-style-type: none">✘ Selected and unselected elements are differentiated only by color
1.4.2 Audio control		
1.4.3 Text contrast		<ul style="list-style-type: none">✘ Texts with insufficient contrast ratio
1.4.4 Change Font Size		<ul style="list-style-type: none">✘ Content is cut off when Font Size is changed to 200%
1.4.5 Font graphics		
1.4.10 Wrapping of content (reflow)		<ul style="list-style-type: none">✘ Content does not wrap when zooming to 400%
1.4.11 Non-Text contrast		<ul style="list-style-type: none">✘ Interface controls with insufficient contrast ratio✘ Insufficient contrast of mouse cursor

Test criterion

Result

Issue

Print view

✘ [Information graphic with insufficient contrast ratio](#)

1.4.12 Text spacing



✘ [No possibility to change the text display.](#)

1.4.13 Additional temporary content



✘ [Additional temporary content is difficult to use](#)

Operability

2.1.1 Usable without mouse



✘ [Keyboard accessibility does not work as expected](#)

2.1.2 No keyboard trap



✘ [Keyboard traps identified](#)

2.1.4 Keyboard shortcuts can be disabled or customized



2.2.1 Customizable time limits



☆ [Time intervals when filling in fields](#)

2.2.2 Moving content can be switched off



2.3.1 Avoidance of flickering



2.4.3 Key sequence for keyboard operation



✘ [Keyboard navigation sequence is often illogical](#)

2.4.4 Meaningful link texts



✘ [Incorrect/incomplete configuration of links](#)

2.4.6 Meaningful titles and labels



✘ [Unlabeled or insufficiently labeled items](#)

☆ [Values are rounded without notification](#)

2.4.7 Focus visible



✘ [Focus tracking is insufficient](#)

2.5.1 Pointer gestures (alternatives for complex pointer gestures)



2.5.2 Pointer abort



2.5.3 Visible Label Contains Accessible Name



✘ [Visibly labeled items with inaccessible names](#)

2.5.4 Alternatives for motion activation



Test criterion

Result

Issue

Print view

Comprehensibility

3.1.1 Main language specified



3.2.1 Context change with focus



3.2.2 Context change on input



3.3.1 Error detection



3.3.2 Labels or instructions



- × Insufficiently labeled input fields
- × Input formats not specified
- × Insufficiently labeled controls

3.3.3 Troubleshooting



3.3.4 Error prevention (legal, financial, data)



Robustness

4.1.1 Correct syntax



4.1.2 Name, Role, Value available



- × Items with wrong role
- × Items without accessible names
- × Values are not submitted correctly

4.1.3 Status messages can be programmatically determined



- × No indicator appears during 3D view loading indicator

















Interoperability with assistive technologies

5.1 Assistance technologies (closed functionality)



5.2.1 Platform support of accessibility services for software with a user interface



Test criterion	Result	Issue
5.2.2 Platform support of accessibility services for assistive technologies		
5.2.3 Use of accessibility services		
5.2.4 Assistance technology		
5.2.5 Object information		× <u>Items without name, role, value, or usage instructions</u>
5.2.6 Row, column and header		
5.2.7 Values		
5.2.8 Label relationships		× <u>Labels not correctly linked to the control they describe</u>
5.2.9 Parent-child relationships		× <u>Sequence and naming of areas when navigating with keyboard & screenreader are not implemented sufficiently.</u> ☆ <u>Illogical hierarchy of Tree view</u>
5.2.10 Text		
5.2.11 Listing of available actions		× <u>Incorrect instructions for operating items</u>
5.2.12 Execute available actions		
5.2.13 Tracking the focus and selection attributes		
5.2.14 Changing the focus and selection attributes		× <u>It is not possible to navigate to some interface objects</u>
5.2.15 Change notification		× <u>Changes are not communicated</u>
5.2.16 Changes of states and properties		× <u>Operation with keyboard and screen reader not possible</u>
5.2.17 Changes to values and text		× <u>Selection with the arrow keys not possible</u>

Documented use

Test criterion Result Issue

Print view

6.1 User control of accessibility features



6.2 No interruption of accessibility functions



User preferences

7. User preferences



× Insufficient implementation of user preferences

Authoring tools

8.1 Content technology



8.2 Creating accessible content



8.3 Obtaining accessibility information for conversions



8.4 Repair support



8.5 Templates



Documentation and supporting services

9.1.1 Accessibility and compatibility features



☆ List of Keyboard Shortcuts not available in documentation

9.1.2 Accessible product documentation



× Documentation is not barrier-free

9.2.2 Information on accessibility and compatibility features



9.2.3 Effective communication



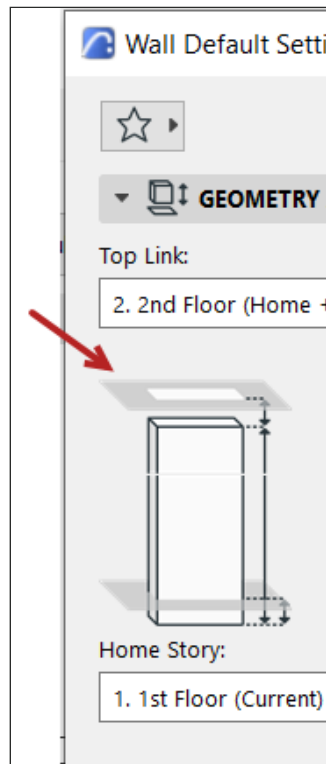
9.2.4 Accessible documentation (support service)



Issues found

Graphics without alternative text

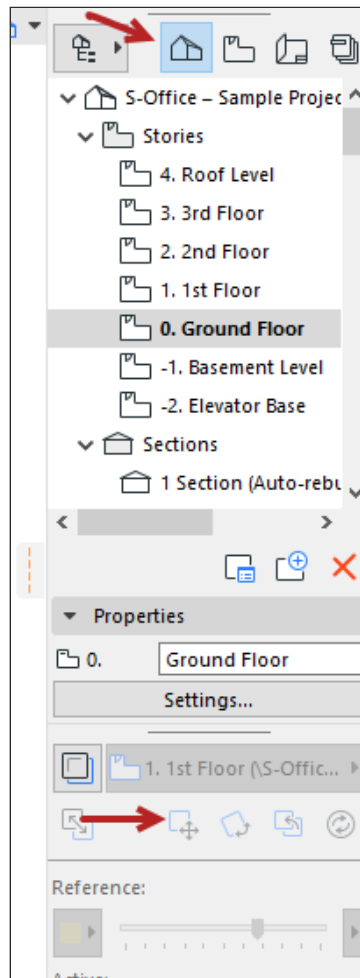
Relevant samples	Archicad 25
Test step	1.1.1 Non-Text Content 1.1.1 Non-Text Content EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Violation
Severity	Low
Subject	Programming

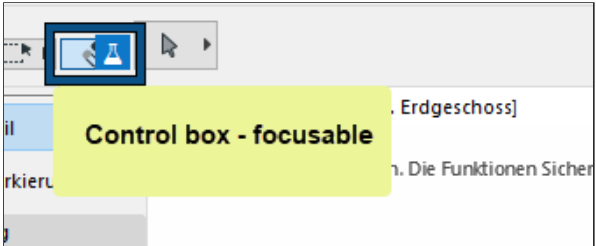
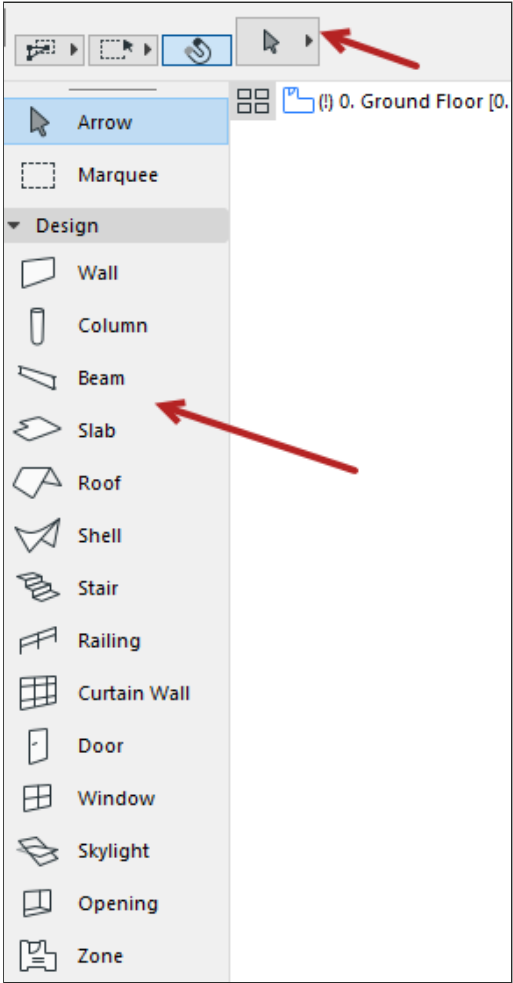
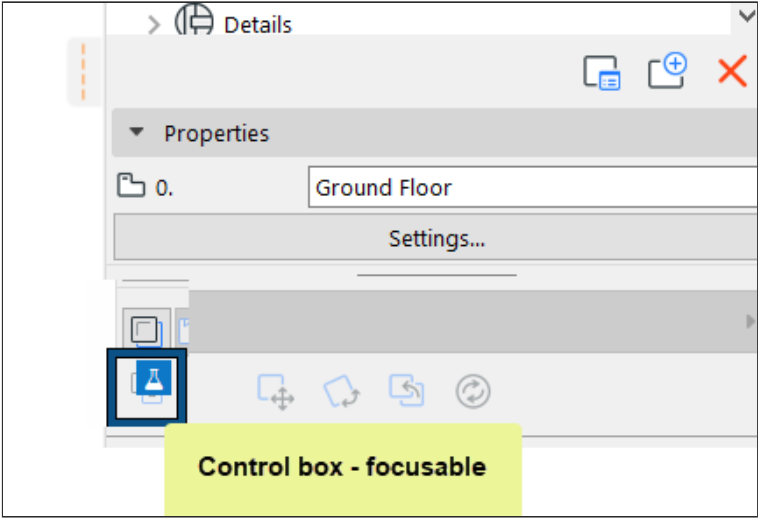


The graphic in the Wall Default settings does not have an alternative text that briefly describes what can be seen here.

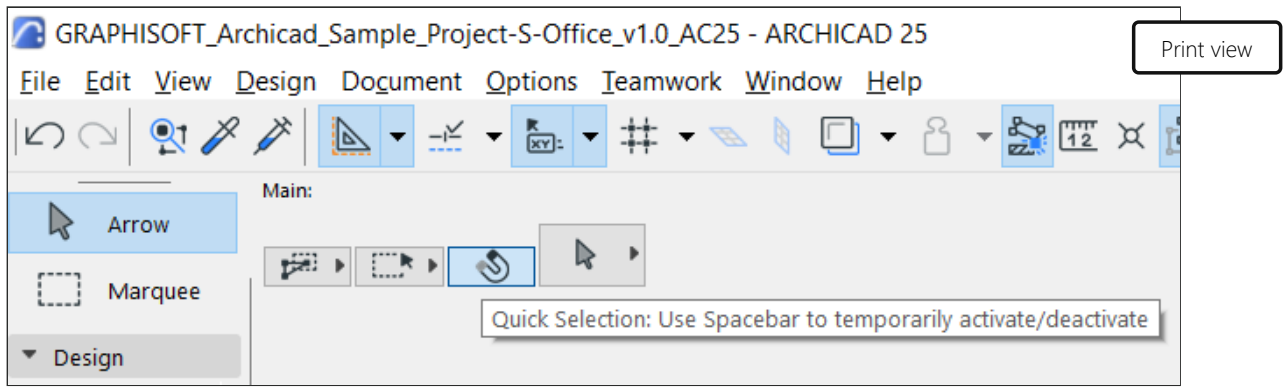
Graphical controls without alternative text

Relevant samples	Archicad 25
Test step	1.1.1 Non-Text Content 1.1.1 Non-Text Content EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Violation
Severity	High
Subject	Programming





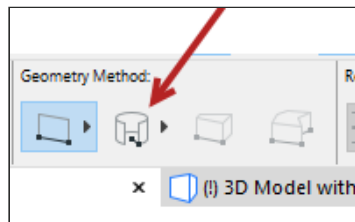
Graphical controls without alternative text



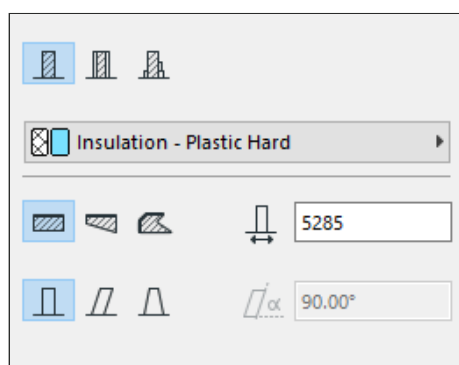
For mouse users, alternative texts are available in the form of tooltips.

Incorrect semantics for objects

Relevant samples	Archicad 25
Test step	1.3.1 Info and relationships 1.3.1 Info and relationships EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Violation
Severity	High
Subject	Design, programming



Some items are defined as radio buttons, but visually are not. The correct definition would be "Button" or "Switch".



In modal dialogs, there are some controls (for example, to select Wall structure) that are defined as list items, but this is contradicted by the icons shown. The correct definition here would also be "Button" or "Switch".

Cursor icons change

Relevant samples	🚩 Archicad 25
Test step	1.3.1 Info and relationships 1.3.1 Info and relationships EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Recommendation
Subject	Design, programming

The cursor often changes its shape and color. For example, it changes depending on whether it snaps to an edge or a point (arrow, thick checkmark, thin checkmark, Mercedes, white or black pencil, tick or hammer, etc.). Training courses are available which cover this information.

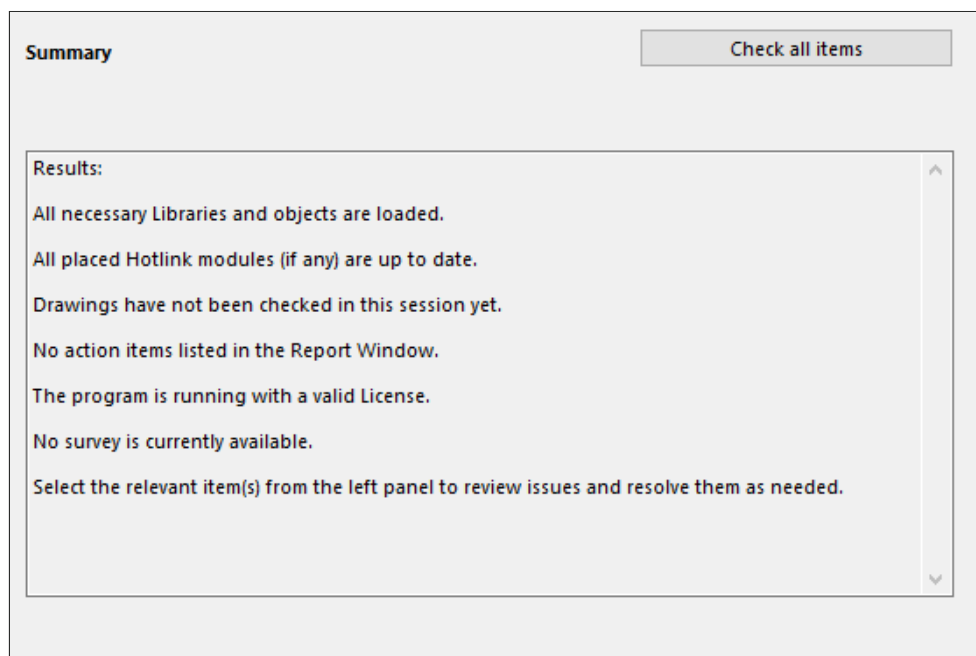
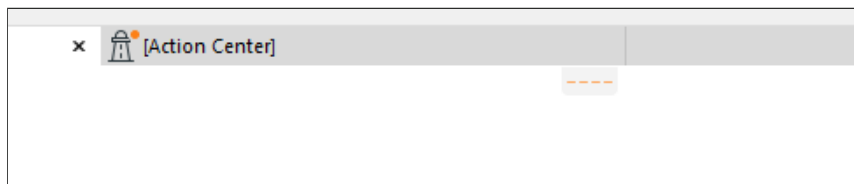
Screen reader function cannot be used in the application

Relevant samples	Archicad 25
Test step	1.3.2 Meaningful sequence 1.3.2 Meaningful sequence EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Violation
Severity	High
Subject	Design, programming, editing

The reading sequence could not be tested because the arrow keys were preassigned to other functions. Screenreader users need the arrow keys to read. In Archicad, however, arrow keys are programmed to shift the on-screen view. When using the "Read All" function of the screen reader, only the next item is shown.

Information relies on sensory characteristics

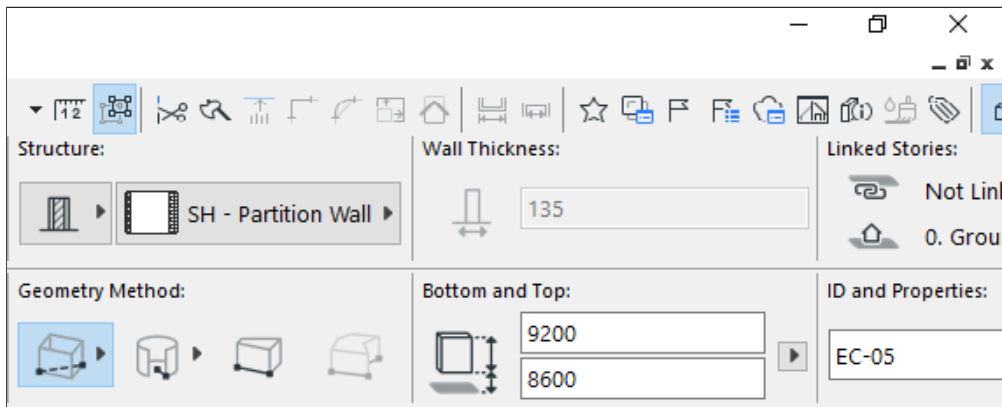
Relevant samples	Archicad 25
Test step	1.3.3 Sensory characteristics 1.3.3 Sensory characteristics EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Recommendation
Subject	Design



The information "Select the relevant items from the *left* panel to review and resolve them if needed" refers to a direction (left). Such references are to be avoided.

Truncated content in portrait mode

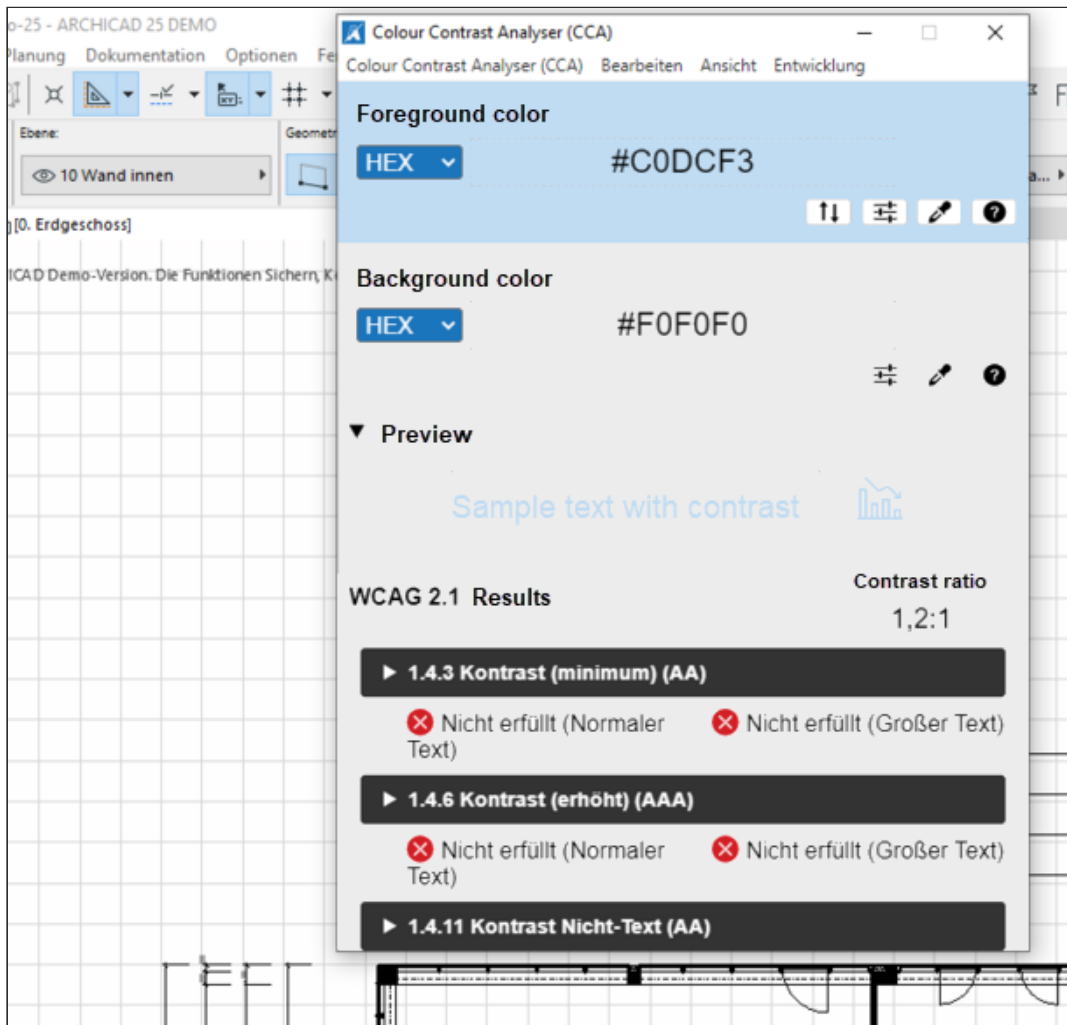
Relevant samples	Archicad 25
Test step	1.3.4 Display orientation 1.3.4 Display orientation EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Violation
Severity	Normal
Subject	Design

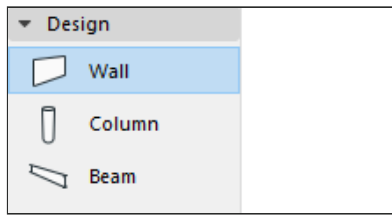


In portrait mode, scaling to 400% will cut off content and make it inaccessible. For example, these are the elements of the main Standard toolbar (just below the main menus).

Selected and unselected elements are differentiated only by color

Relevant samples	Archicad 25
Test step	1.4.1 Use of color 1.4.1 Use of color EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Violation
Severity	Normal
Subject	Design, programming



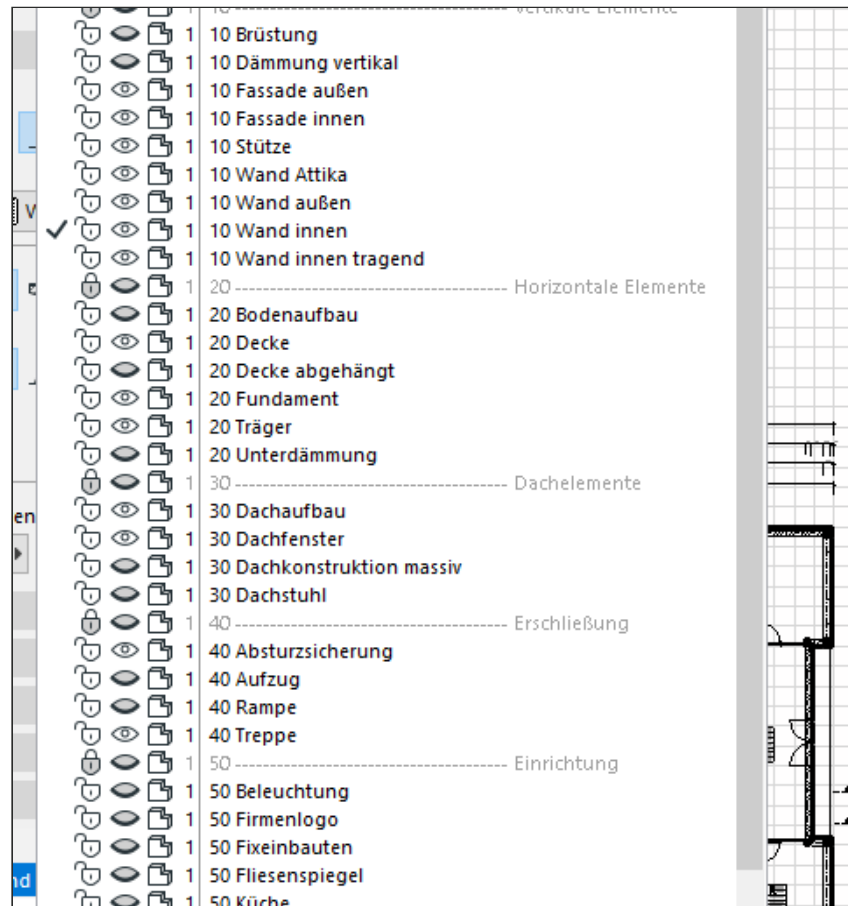



Print view

Information about which item is currently selected is given by color only. Other methods must also be used here to convey this information, such as using a frame or underlining. The highlight must ensure a contrast of at least 3:1 with the background. The frame shown here is not clear enough to see.

Texts with insufficient contrast ratio

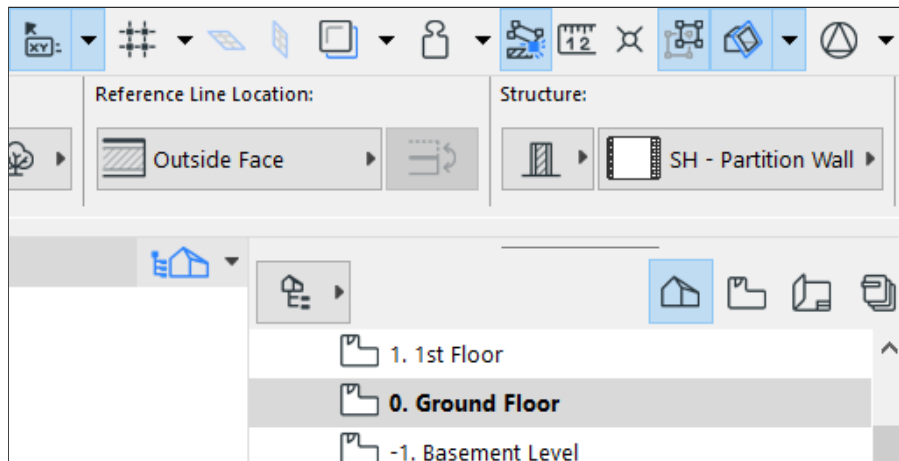
Relevant samples	Archicad 25
Test step	1.4.3 Text contrast 1.4.3 Contrasts of texts EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Violation
Severity	Normal
Subject	Design, programming

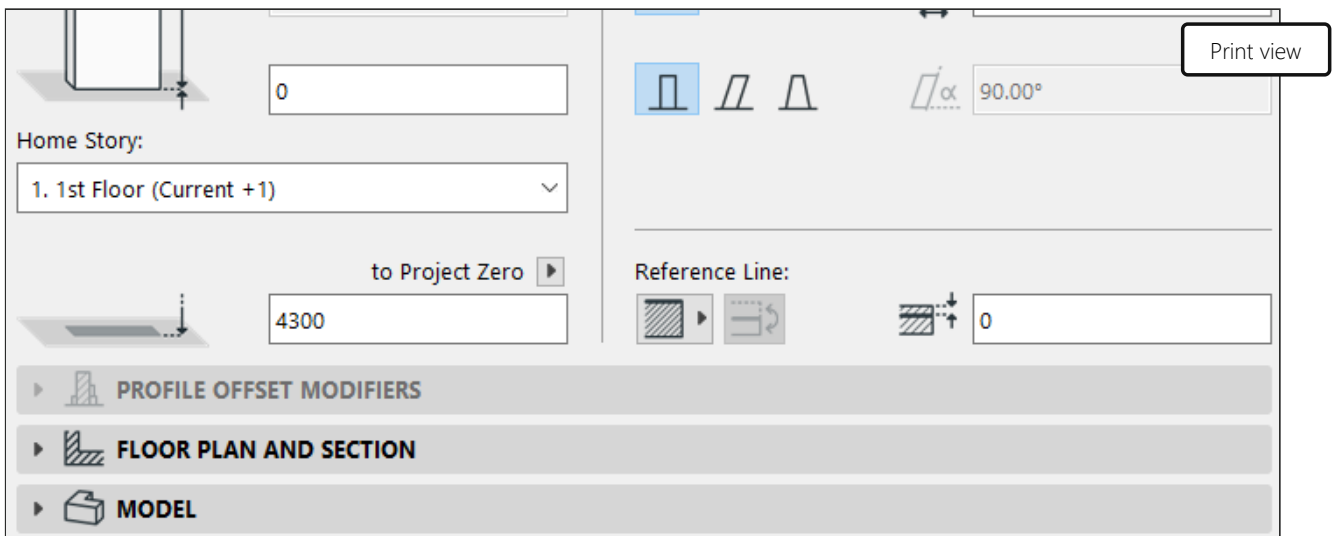


Some texts do not ensure sufficient contrast. The labels of the categories (for example, "Ro" , "Development") in the "Layers" drop-down menu that opens from Wall Settings have a contrast ratio of 2.6:1 to the background. Here, a contrast ration of at least 4.5:1 must be provided, as required for small fonts below 24 px.

Content is cut off when Font Size is changed to 200%

Relevant samples	Archicad 25
Test step	1.4.4 Change Font Size 1.4.4 Change Font Size EN 301 549 WCAG Quick Reference WCAG Quick Reference
Type of Issue	Violation
Severity	High
Subject	Design, programming

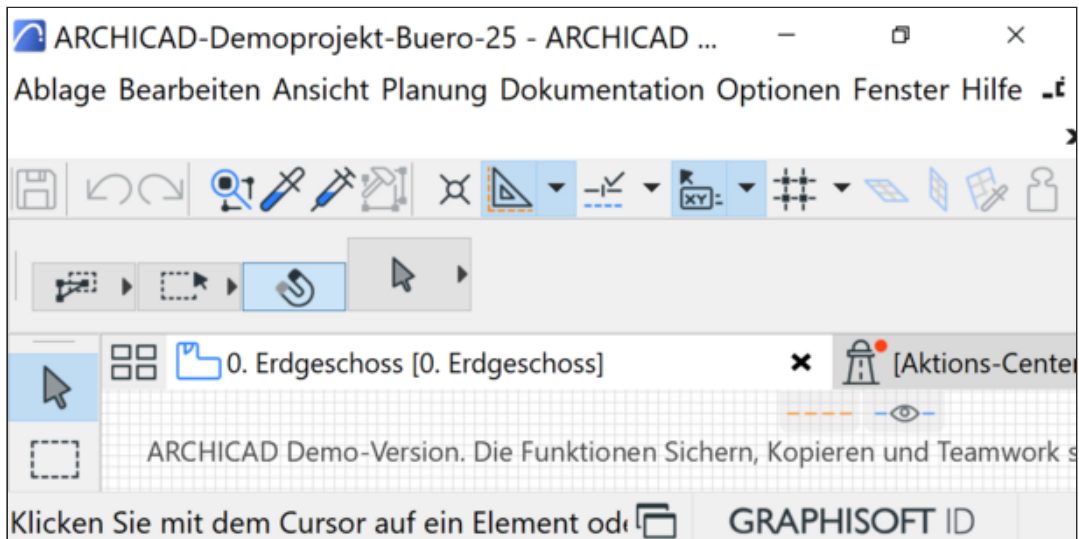




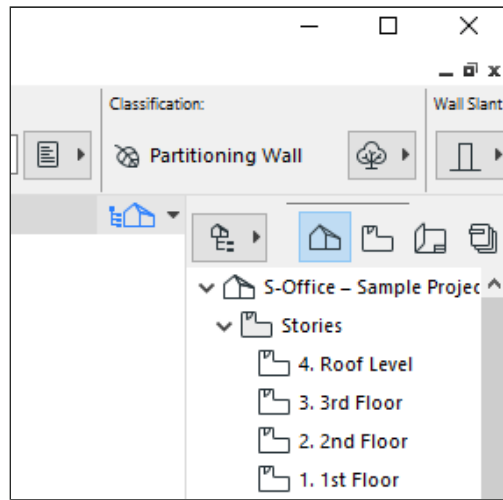
When the font size is increased to 200%, content is cut off and functions become inaccessible. For example, toolbar controls such as "Save", "Guide Lines", Wall Settings, as well as the Toolbox and the Cancel command in Wall Settings, are all inaccessible. The controls (such as Zoom) at the bottom of the window disappear behind the taskbar.

Content does not wrap when zooming to 400%

Relevant samples	Archicad 25
Test step	1.4.10 Wrapping of content (reflow) 1.4.10 Wrapping of content (reflow) EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Violation
Severity	High
Subject	Design, programming



The content does not reflow at a width of 1280px and 400% zoom magnification. Texts are cut off and functionalities are lost.



Print view

Even with non-zoomed view and maximum window size, not all areas are visible and reachable (for example "Slant Angle of gene...").

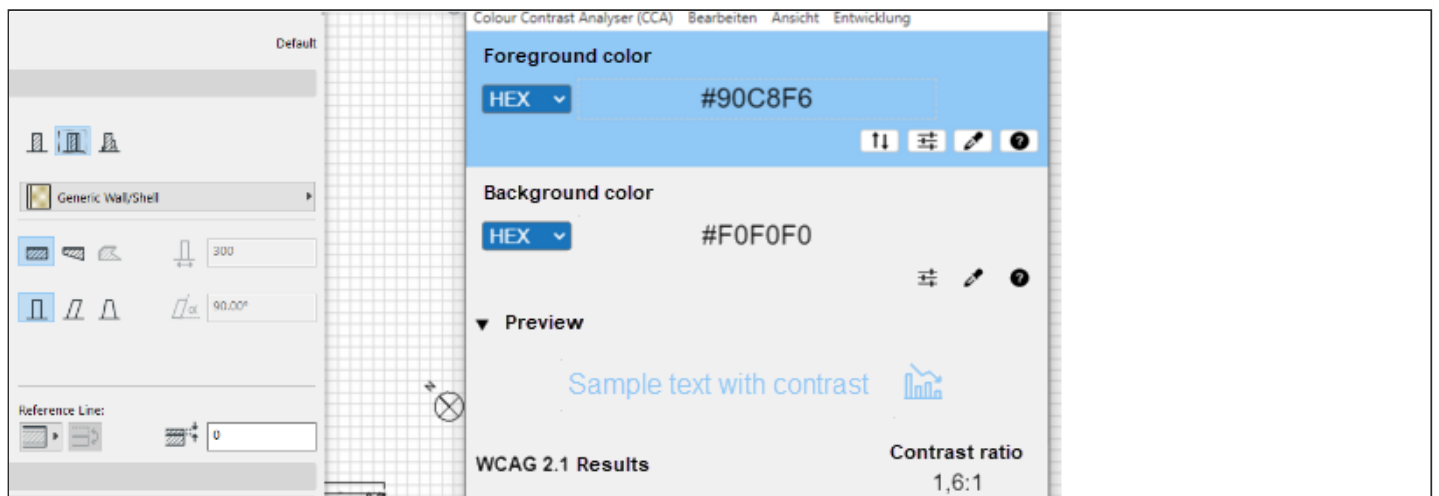
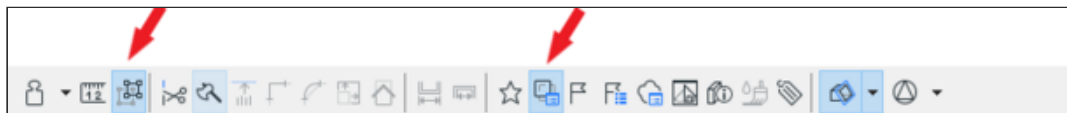
Insufficient contrast of mouse cursor

Relevant samples	Archicad 25
Test step	1.4.11 Non-Text contrast 1.4.11 Non-Text contrast EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Violation
Severity	Normal
Subject	Design, programming, editing

The mouse cursor that appears on the building elevation view is in the form of a thin cross, which in some cases - depending on the background - does not have the required contrast ratio. Other icons that serve as cursors (for example, the checkmark) also have this problem, depending on the background. The minimum requirement for the contrast ratio is 3:1.

Interface controls with insufficient contrast ratio

Relevant samples	Archicad 25
Test step	1.4.11 Non-Text contrast 1.4.11 Non-Text contrast EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Violation
Severity	Normal
Subject	Design, programming



Some controls are displayed with insufficient contrast. For example: "Snap Guides and Points", "Suspend Grouping" and "Trace & Reference Palette".

This finding applies to both activated and non-activated controls alike. The non-activated, grayed-out controls do not have to meet these requirements.

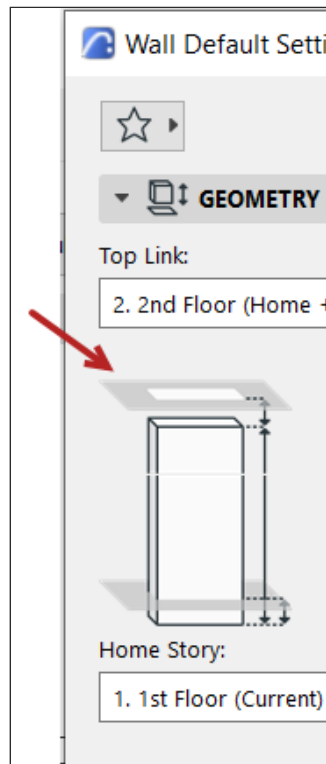
Also, the contrast between the two states (activated and non-activated) is not sufficient either on the main interface or in Wall Default Settings.

Print view

The minimum requirement for the contrast ratio is 3:1.

Informative illustration with insufficient contrast ratio

Relevant samples	Archicad 25
Test step	1.4.11 Non-Text contrast 1.4.11 Non-Text contrast EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Violation
Severity	Normal
Subject	Design



The Wall Settings dialog includes illustrations that represent the wall. In this illustration, the information conveyed by the dark gray rectangles has a contrast ratio of only 1.4:1 to the background. The minimum requirement for the contrast ratio is 3:1.

No possibility to change the text display

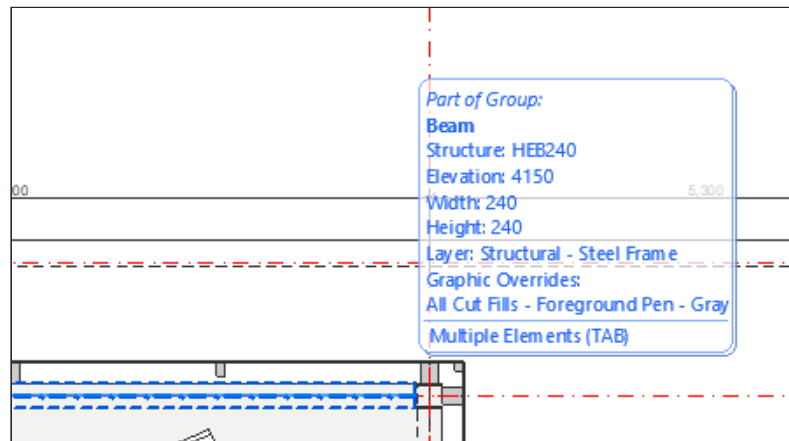
Relevant samples	Archicad 25
Test step	1.4.12 Text spacing 1.4.12 Text spacing EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Violation
Severity	Normal
Subject	Design, programming, editing

There is no setting option to change text display. The following must be able to be set and applied without losing content or functionality:

- Line spacing: 1.5 times the font size
- Space following paragraphs: 2 times the font size
- Letter spacing: 0.12 times the font size
- Word spacing: 0.16 times the font size

Additional temporary content is difficult to use

Relevant samples	Archicad 25
Test step	1.4.13 Additional temporary content 1.4.13 Additional temporary content EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Violation
Severity	Normal
Subject	Programming



When hovering with the mouse over the building in elevation view, additional element information appears. Such information pop-ups disappear when you move the mouse over them, so they are not readable with a screen magnifier. Also, they also cannot be closed with an interaction (usually the escape key) without moving the focus. This must be possible if the additional content covers other content.

Content that appears with mouse or keyboard focus must meet the following requirements:

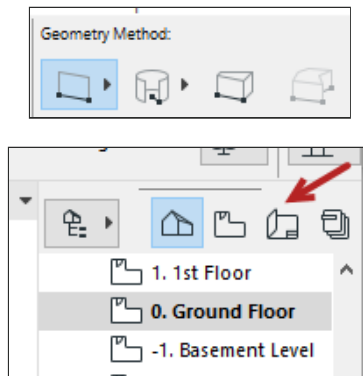
- The pointer can be moved over the content without obscuring the content.
- By pressing the Escape key, for example, the displayed content can be hidden again without moving the mouse.

- Exception: No content necessary for information or operation may be hidden (taking window and zoom settings into consideration).
- The content must not automatically disappear after a certain time

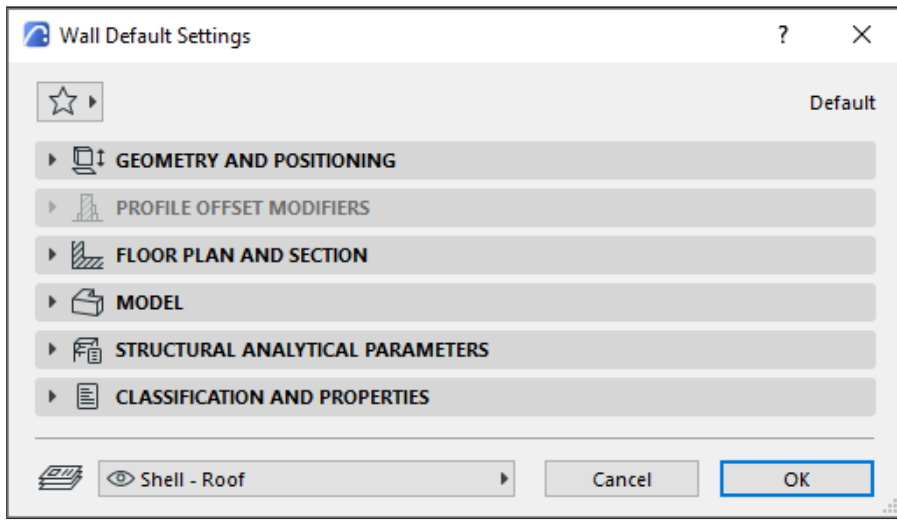
Print view

Keyboard accessibility does not work as expected

Relevant samples	Archicad 25
Test step	2.1.1 Usable without mouse 2.1.1 Usable without mouse EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Violation
Severity	Normal
Subject	Design, programming



The program's keyboard functions do not always meet the accessibility standard. For example, navigating among stories is done with keyboard shortcuts "Ctrl+5" (one story down) and "Ctrl+6" (one story up), rather than using unmodified arrow keys as expected in the accessibility standard. The "Ctrl+7" shortcut opens the Story Settings dialog, listing all stories. In this dialog, it is then possible to navigate using arrow keys. Training courses are available which cover this information. Keyboard Shortcuts are also individually customizable.

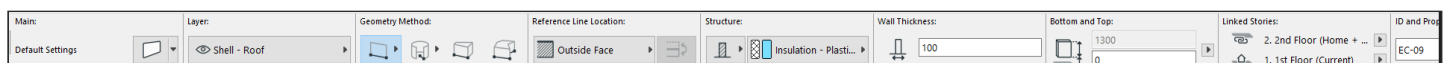
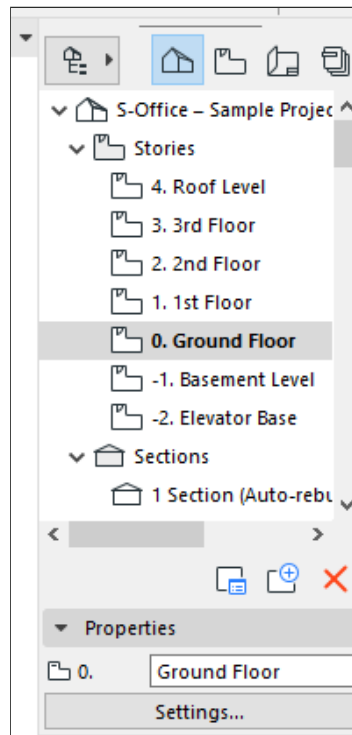


Print view

Opening drop-down panels or menus (for example, in the Tool Box or Wall Settings) cannot be done using the keyboard.

Keyboard traps identified

Relevant samples	Archicad 25
Test step	2.1.2 No keyboard trap 2.1.2 No keyboard trap EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Violation
Severity	High
Subject	Programming



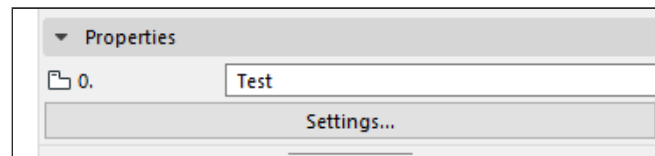
All components (for example, the toolbar or Story selection in the Navigator) are keyboard traps. When using the tab key, the user cannot move away from these interfaces.

Other keyboard traps include selecting views (from the Navigator), and the tool-specific Inf

Print view

Time intervals when filling in fields

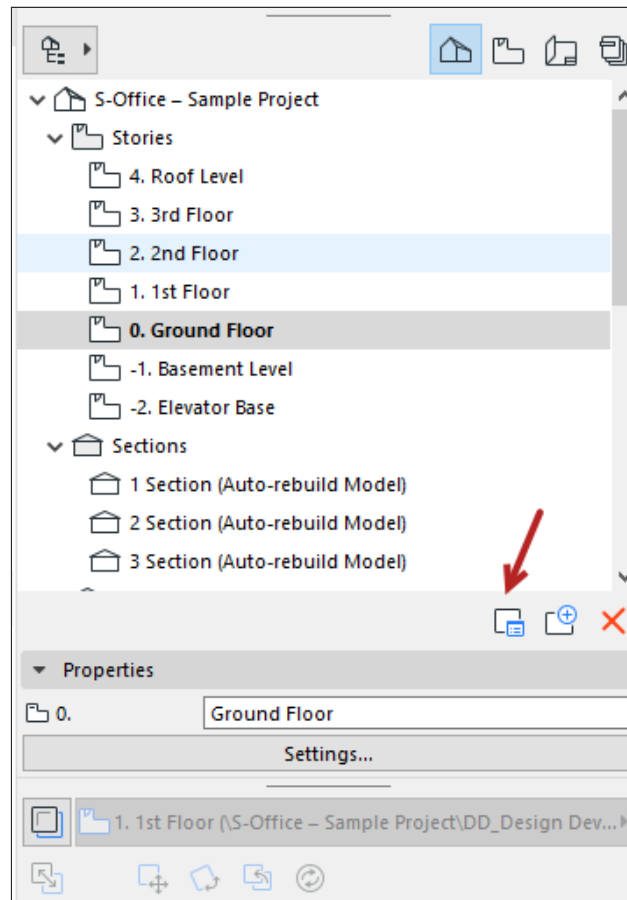
Relevant samples	Archicad 25
Test step	2.2.1 Customizable time limits 2.2.1 Customizable time limits EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Recommendation
Subject	Programming

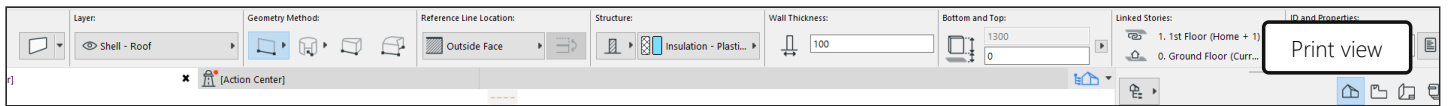


In the standard default installation: There is not enough time to fill in certain input fields (e.g. the Properties at the bottom of the Navigator). The field loses focus after a short time and the mouse cursor appears again. Time intervals can be configured individually in the settings. Training courses are available which provide the information needed to use these settings.

Keyboard navigation sequence is often illogical

Relevant samples	Archicad 25
Test step	2.4.3 Key sequence for keyboard operation 2.4.3 Key sequence for keyboard operation EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Violation
Severity	High
Subject	Programming



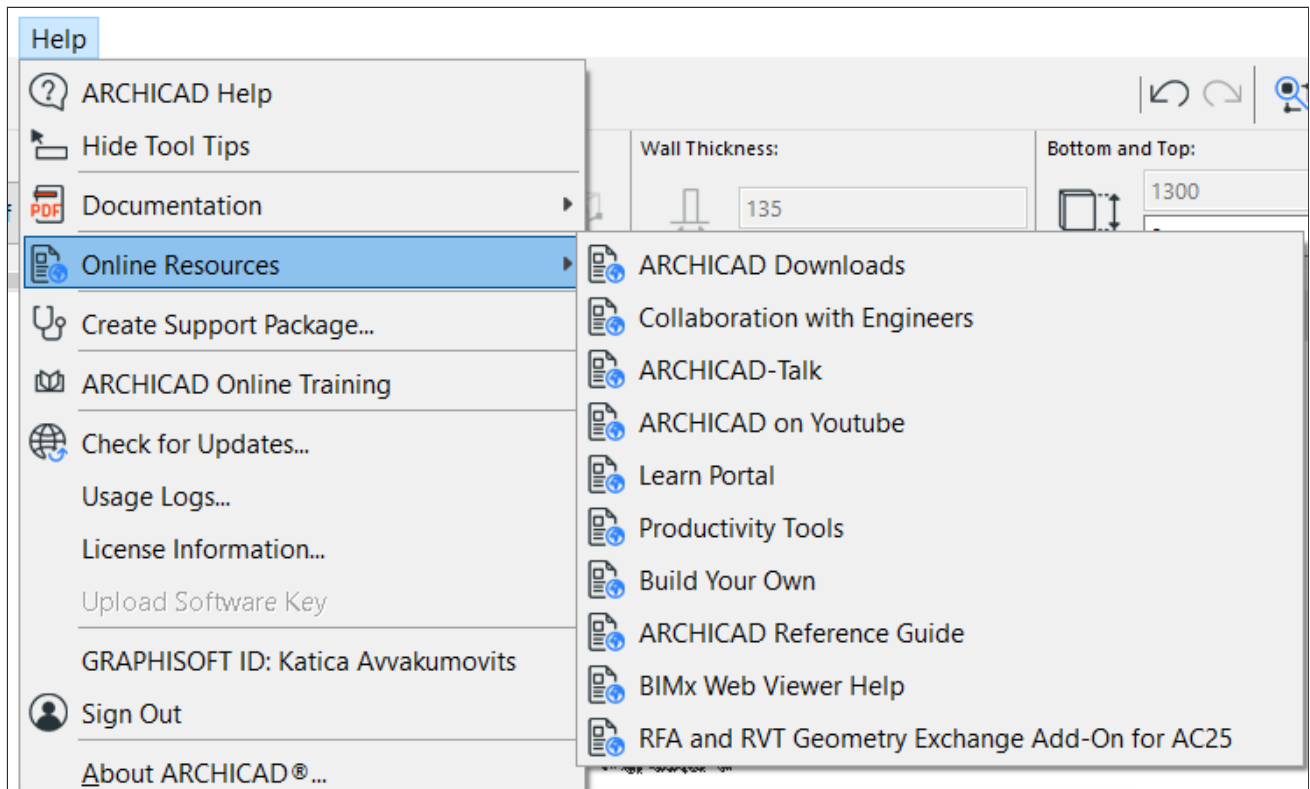


The focus order when navigating with the tab key differs from the logical, visible order. For example, the focus jumps to the Delete button before the Settings button.

Also, when navigating among the controls at the bottom of the project window, the focus order does not correspond to the order in which the controls appear. The same is true when navigating in the Wall Info Box.

Incorrect/incomplete configuration of links

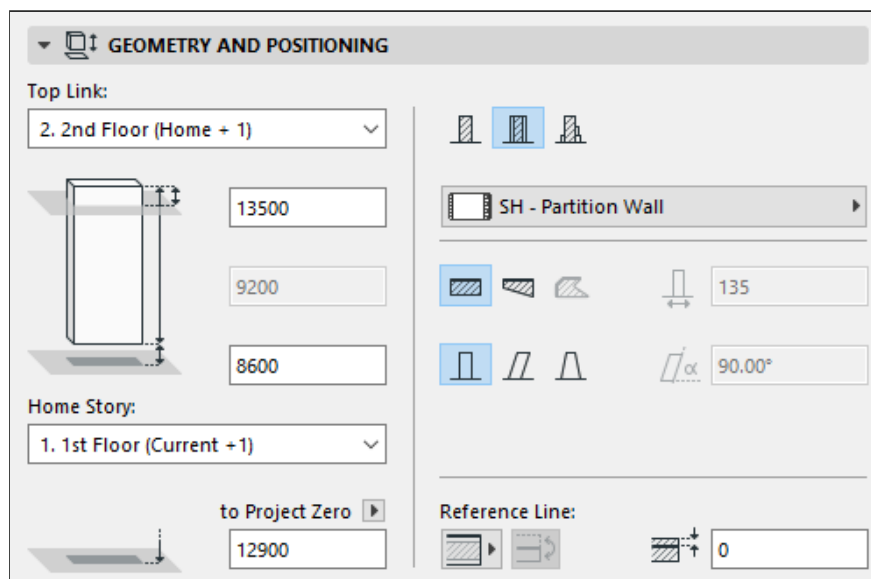
Relevant samples	Archicad 25
Test step	2.4.4 Meaningful link texts 2.4.4 Meaningful link texts EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Violation
Severity	Normal
Subject	Programming



The links in the menu (including the one to the help) are not identifiable as links by assistive systems.

Unannounced rounding of values

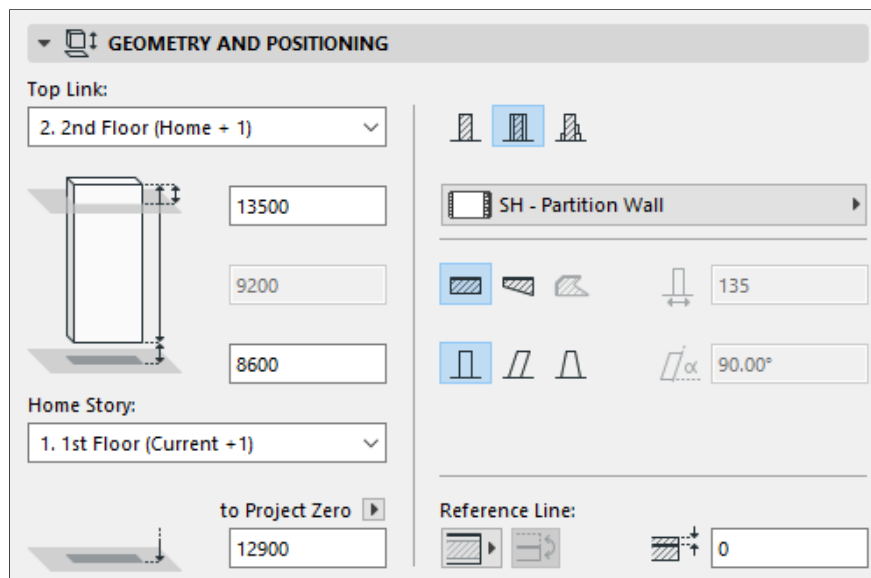
Relevant samples	Archicad 25
Test step	2.4.6 Meaningful titles and labels 2.4.6 Meaningful headings and labels EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Recommendation
Subject	Programming



In some input fields, automatic rounding of values apparently occurs, but this is not indicated. Settings for automatic rounding of values can be configured individually. Training courses are available which provide the information needed to use these settings.

Unlabeled or insufficiently labeled items

Relevant samples	Archicad 25
Test step	2.4.6 Meaningful titles and labels 2.4.6 Meaningful headings and labels EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Violation
Severity	High
Subject	Design, programming, editing



Some input fields have no visible label (for example, those for entering the thickness of trapezoidal walls or for offsetting the Reference Line). The use of icons is not enough.

A tooltip does appear when you move the mouse over the icon. This is insufficient for keyboard users.

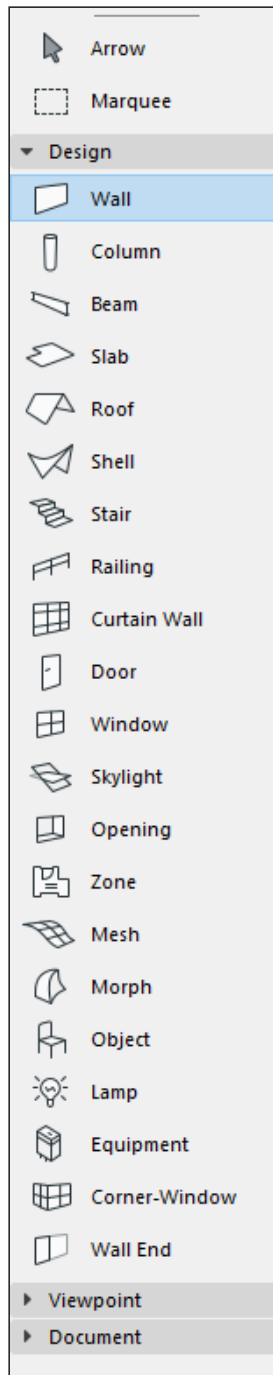


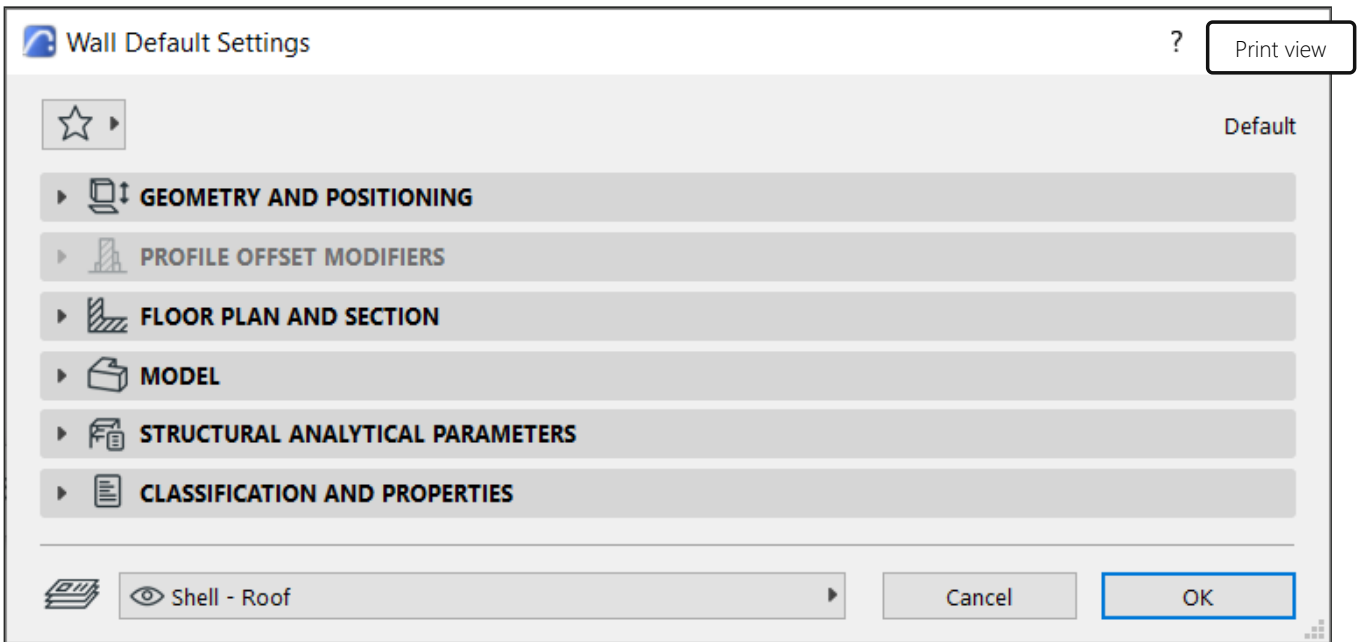
Every interactive element (including buttons) needs a visible, meaningful label.

Print view

Focus tracking is insufficient

Relevant samples	Archicad 25
Test step	2.4.7 Focus visible 2.4.7 Focus visible EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Violation
Severity	High
Subject	Design, programming





The keyboard focus is not sufficiently visible. This applies, for example, when you click to unfold Tool Groups in the Toolbox ("Design", "Viewpoint", etc.) and when clicking to open panels in Wall Default Settings. The minimum requirement for the contrast ratio is 3:1.

Visibly labeled items without accessible name

Relevant samples

Archicad 25

Test step

2.5.3 Visible Label Contains Accessible Name

2.5.3 Visible Label Contains Accessible Name

[EN 301 549](#)

[WCAG Quick Reference](#)

[WCAG Understanding](#)

Type of Issue

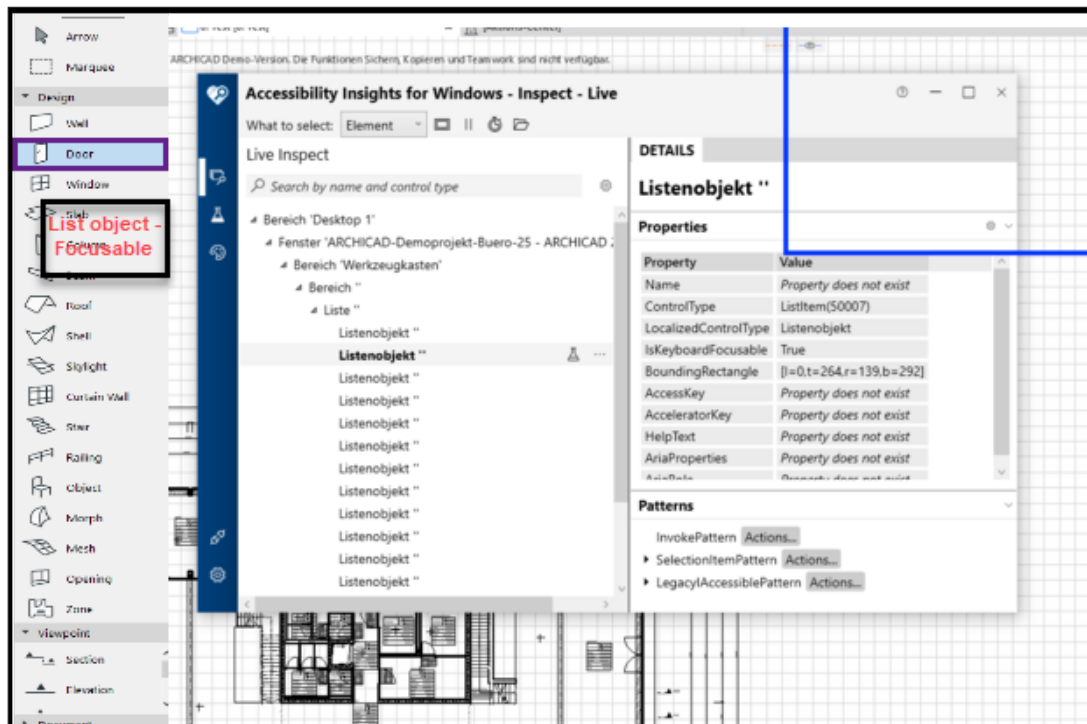
Violation

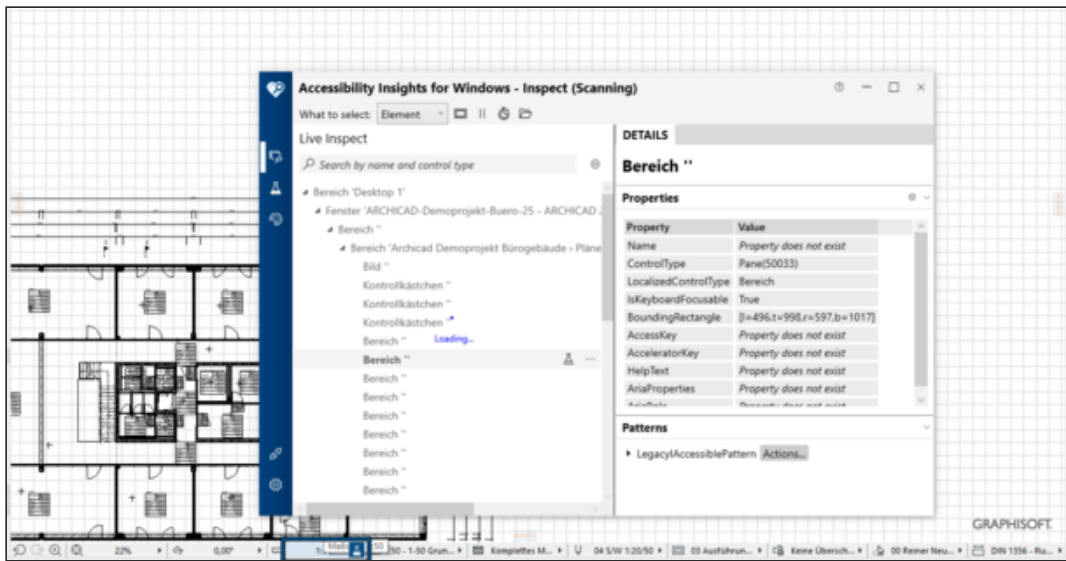
Severity

High

Subject

Programming





There are visible labeled items which do not include an accessible name item. For example, the Toolbox, and also the settings bar under the project window.

Wall Default Settings

Default

GEOMETRY AND POSITIONING

Top Link: 1. 1st Floor (Home + 1)

Home Story: 0. Ground Floor (Current)

to Project Zero

Reference Line:

PROFILE OFFSET MODIFIERS

FLOOR PLAN AND SECTION

FLOOR PLAN DISPLAY

Show on Stories	All Relevant Stories	
Floor Plan Display	Projected with Overhe...	
Show Projection	Entire Element	

CUT SURFACES

Cut Lines	Solid Line	
Cut Line Pen	0.20 mm	27
Override Cut Fill Pens	Both	
Cut Fill Foreground Pen	0.06 mm	107
Cut Fill Background Pen	0 mm	127

OUTLINES

Uncut Lines	Solid Line	
-------------	------------	--

MODEL

STRUCTURAL ANALYTICAL PARAMETERS

CLASSIFICATION AND PROPERTIES

CLASSIFICATIONS

ARCHICAD Classification - v... Partitioning Wall

ID AND CATEGORIES

ID	EC-05
Structural Function	Load-Bearing Element
Position	Interior

RENOVATION use Palette to set default

GENERAL RATINGS

Fire Resistance Rating	<Undefined>
Combustible	<Undefined>
Thermal Transmittance	<Undefined>
Sound Transmission Class	<Undefined>
Strenght Value	

PRODUCT INFO

Print view

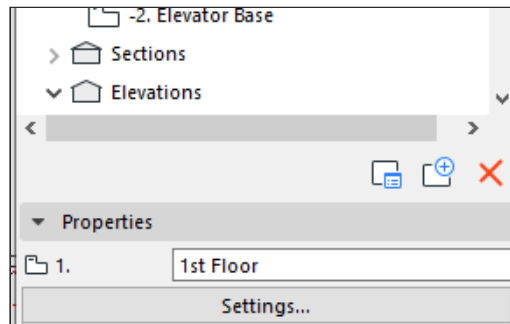
Also, the Wall Default settings contain items that do not have an accessible name as part of the visible label. For example, the buttons under "Reference Line," and the buttons for selecting Wall the structure of the walls.

The accessible name is the label relevant to assistive technologies.

[Print view](#)

Insufficiently labeled input fields

Relevant samples	Archicad 25
Test step	3.3.2 Labels or instructions 3.3.2 Labels or instructions EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Violation
Severity	Normal
Subject	Programming

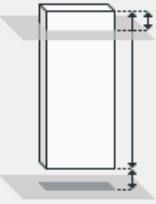


Wall Default Settings ? X

Default

GEOMETRY AND POSITIONING

Top Link: 2. 2nd Floor (Home + 1)



Home Story: 1. 1st Floor (Current + 1)

to Project Zero 12900

Reference Line: 0

PROFILE OFFSET MODIFIERS

FLOOR PLAN AND SECTION

FLOOR PLAN DISPLAY

Show on Stories	All Relevant Stories	
Floor Plan Display	Projected with Overhe...	
Show Projection	Entire Element	

CUT SURFACES

	Override Cut Fill Pens	Both	
	Cut Fill Foreground Pen	0.06 mm	107 <input style="width: 40px;" type="text"/>
	Cut Fill Background Pen	0 mm	127 <input style="width: 40px;" type="text"/>

OUTLINES

	Uncut Lines	Solid Line	
	Uncut Line Pen	0.07 mm	87 <input style="width: 40px;" type="text"/>
	Overhead Lines	Hidden Line	


MODEL

STRUCTURAL ANALYTICAL PARAMETERS

CLASSIFICATION AND PROPERTIES

Print view

Bottom and Top:



Some input fields are labeled only by its preassigned text (placeholder) or by the entered values. For example, the fields for entering Wall dimensions, and the Story properties (see screenshots). There is a lack of visible labels describing these fields. The purpose of the input fields must always be visible, since the values change depending on the input, and field's purpose is then no longer recognizable.

Input formats not specified

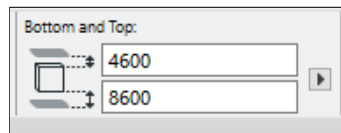
Relevant samples [Archicad 25](#)

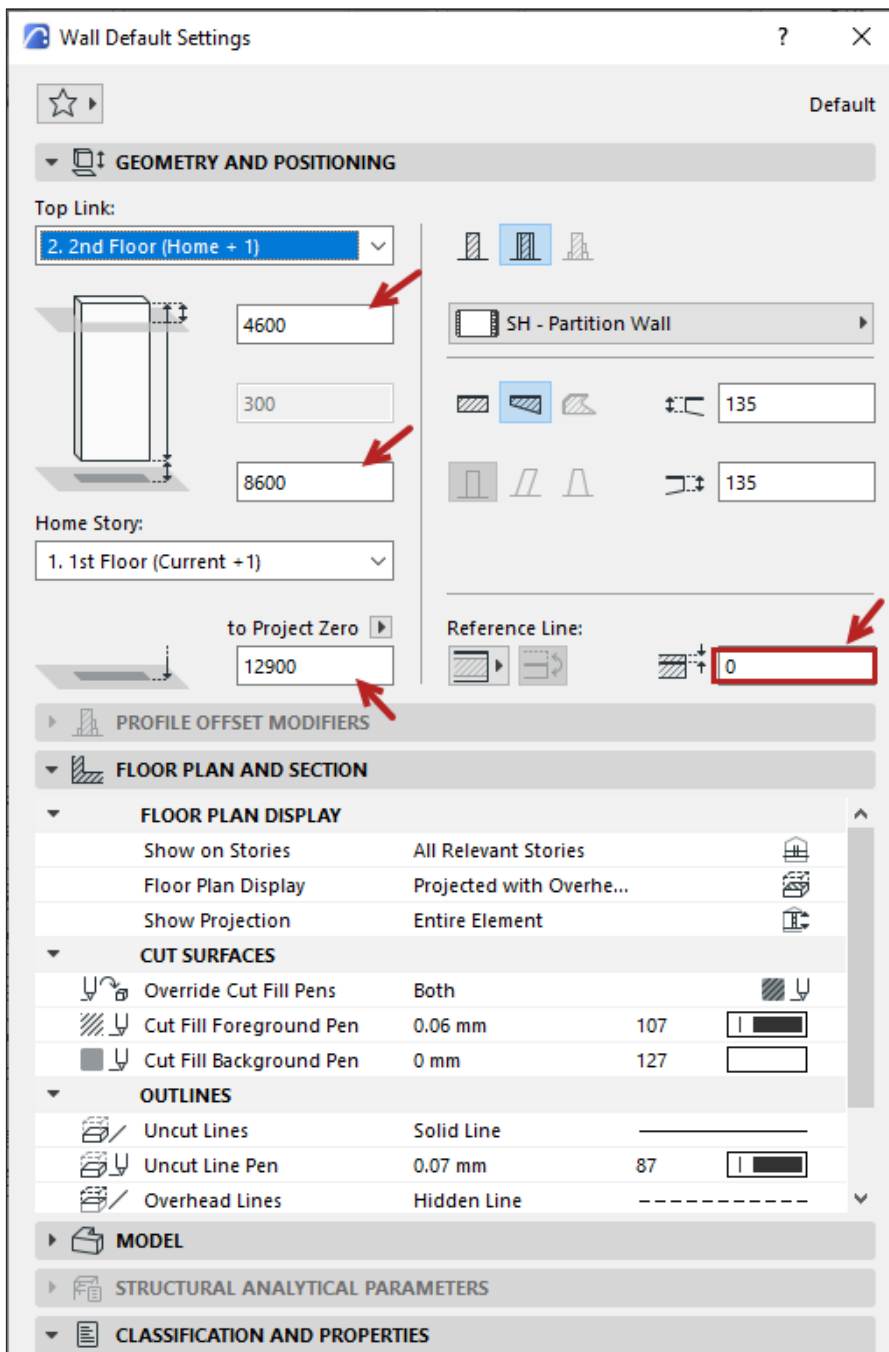
Test step [3.3.2 Labels or instructions](#)
[3.3.2 Labels or instructions](#)
[EN 301 549](#)
[WCAG Quick Reference](#)
[WCAG Understanding](#)

Type of Issue Violation

Severity Normal

Subject -



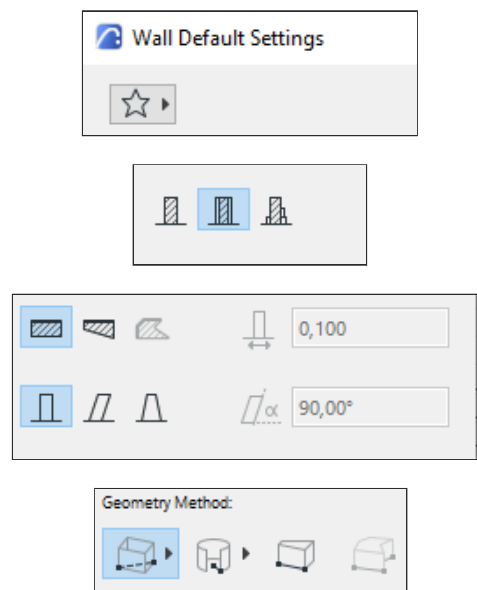


Print view

Fields that require certain input formats (for example, numbers whose value is then rounded to three decimal places) do not provide information on the expected format, or define it insufficiently.

Insufficiently labeled controls

Relevant samples	Archicad 25
Test step	3.3.2 Labels or instructions 3.3.2 Labels or instructions EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Violation
Subject	-

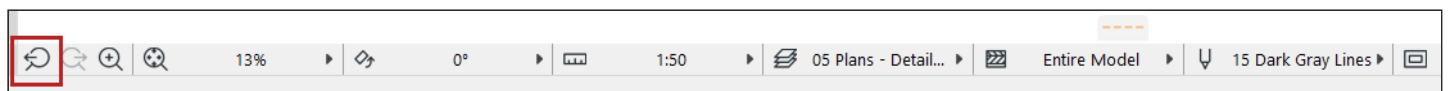
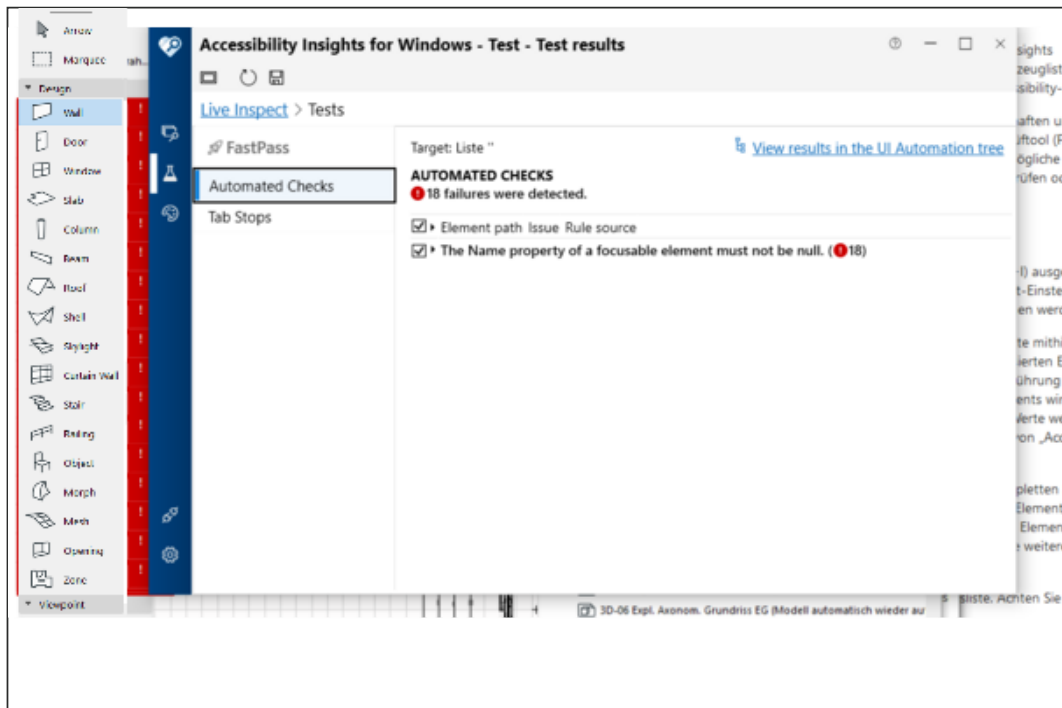


Some controls - for example, for selecting Wall Structure or slant angle in Wall Settings, and those for selecting Geometry method (which are labeled as checkboxes or radio buttons) - lack a meaningful label explaining their purpose.

In addition, many items that are implemented in the application as checkboxes or radio buttons are actually not, from a semantic and visual standpoint.

Items without accessible name

Relevant samples	Archicad 25
Test step	4.1.2 Name, Role, Value available 4.1.2 Name, Role, Value available EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Violation
Severity	High
Subject	Programming



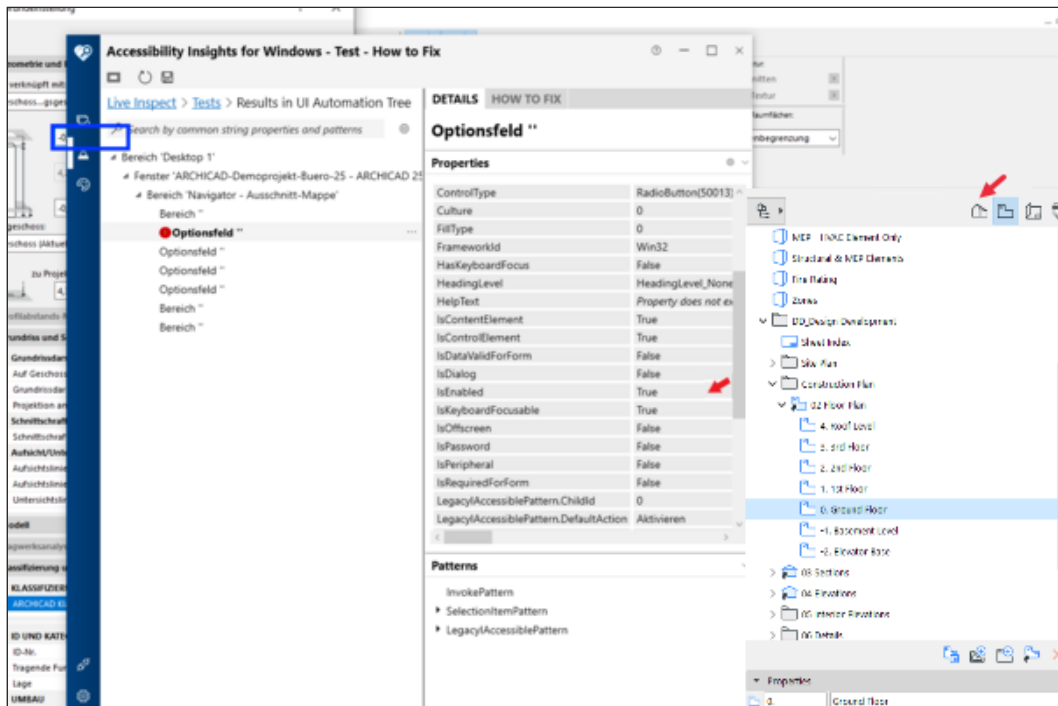
Show on Stories	Home Story Only	
Floor Plan Display	Projected with Overhead	
Show Projection	Entire Element	

Some elements do not have any accessible name, which is fundamental for assistive technology (for example, when publishing using a screen reader and when using speech input). For example, items in the Toolbox, and also the settings bar under the project window. The list-format settings in Wall Settings also lack an accessible name.

[Print view](#)

Values not submitted correctly

Relevant samples	Archicad 25
Test step	4.1.2 Name, Role, Value available 4.1.2 Name, Role, Value available EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Violation
Severity	Normal
Subject	Programming

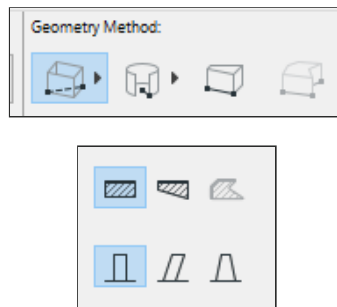


Status values are not transmitted correctly. In this example, the "Project Map" item is marked as selected, even though it is not.

Items with wrong role

Relevant samples	Archicad 25
Test step	4.1.2 Name, Role, Value available 4.1.2 Name, Role, Value available EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Violation
Severity	High
Subject	Programming

Some items are assigned a role that does not correspond to their visible appearance.



Some interface controls are recognized by assistive systems as radio buttons and are thus operable with the arrow keys. However, these controls are in fact buttons (not radio buttons). For example, the controls used to select Wall Structure and Geometry method.



Some pop-up controls are recognized by assistive systems as checkboxes. This does not correspond to the control's actual function. For example, the Favorites pop-up in Wall Settings.

3D view loading indicator is not accessible

Relevant samples	Archicad 25
Test step	4.1.3 Status messages can be programmatically determined 4.1.3 Status messages can be programmatically determined EN 301 549 WCAG Quick Reference WCAG Understanding
Type of Issue	Violation
Severity	Low
Subject	Design, programming



The status message that appears while loading a 3D model cannot be interpreted by assistive systems. Also, the user should be informed that a new tab will open containing a different view.

Items without name, role, value, or usage instructions

Relevant samples ‣ Archicad 25

Test step 5.2.5 Object information

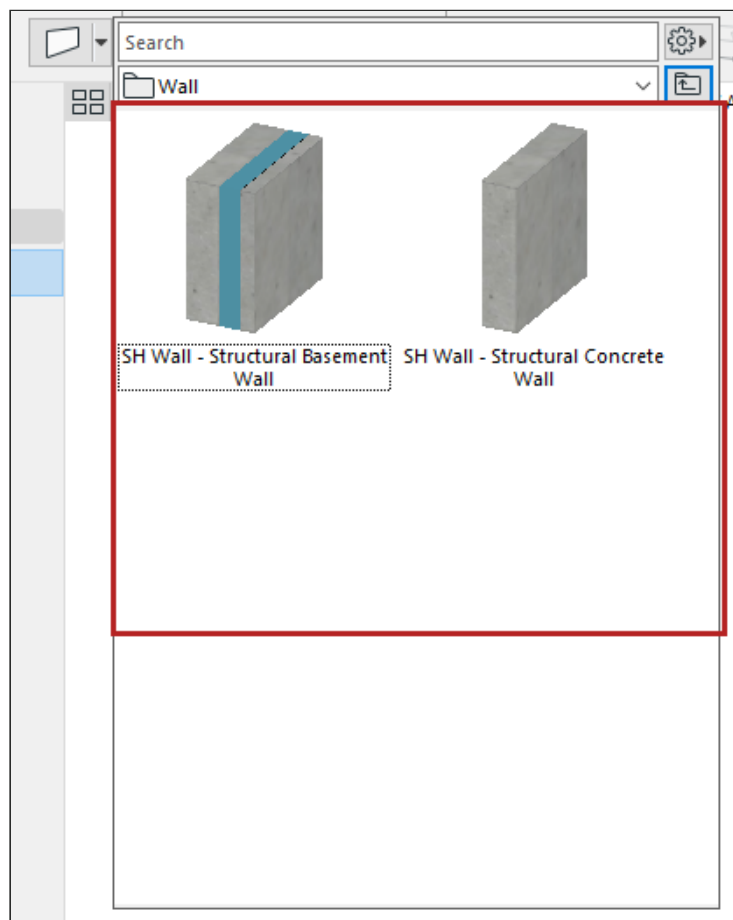
[5.2.5 Object information](#)

[EN 301 549](#)

Type of Issue Violation

Severity High

Subject Programming



Some items lack an accessible name and also have been given an incorrect role or value. Instructions on how to access certain elements (for example, use the arrow keys) are missing. This is the case, for

example, with the Wall Favorites pop-up accessible from the Wall tool. Walls here can be selected using the arrow keys, but this is not obvious.

Print view

Labels not correctly linked to the controls they describe

Relevant samples ‣ Archicad 25

Test step 5.2.8 Label relationships

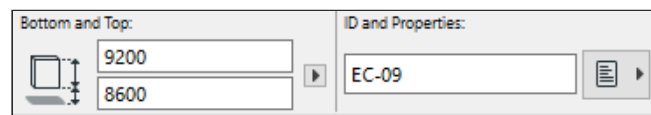
[5.2.8 Label relationships](#)

[EN 301 549](#)

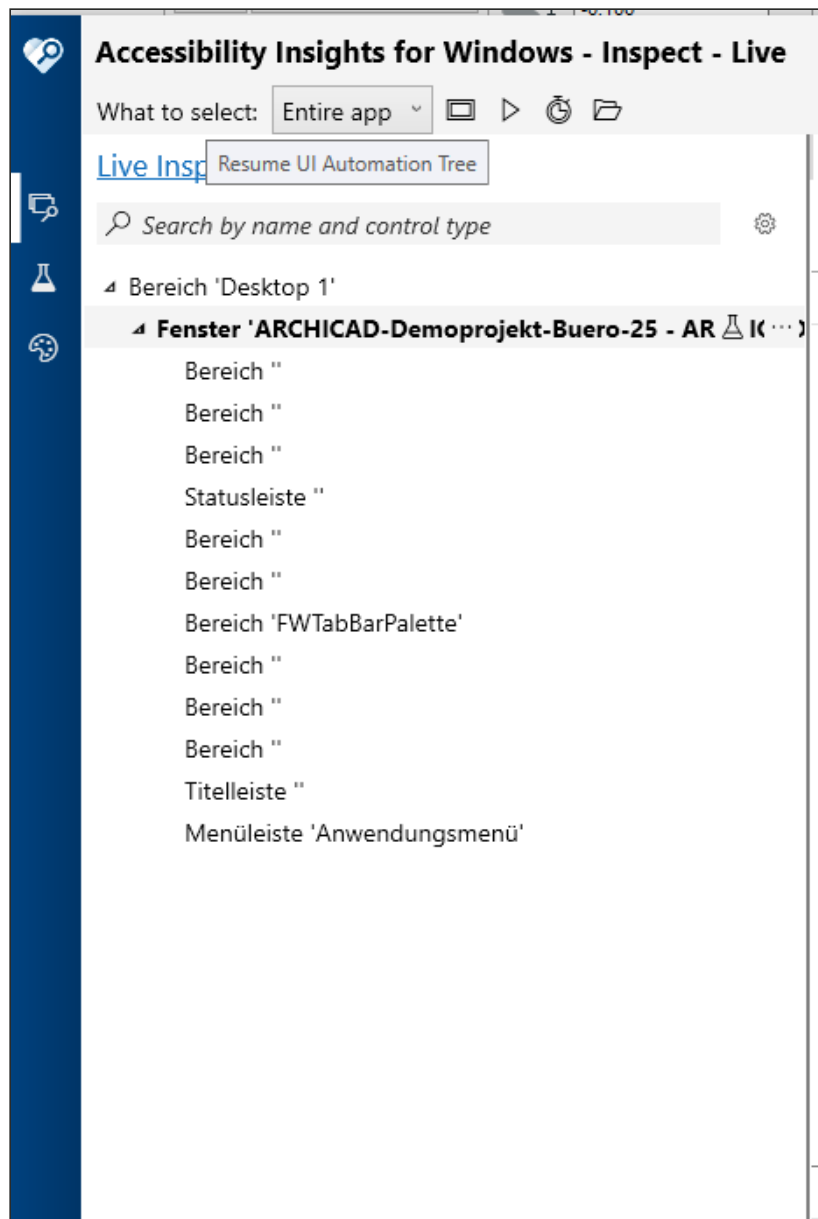
Type of Issue Violation

Severity Normal

Subject Programming



The label on certain controls is not correctly interpreted by the assistive system. A label must be linked so that it is clearly associated with the item. This also applies to labels describing a group of items, each of which must also be linked to an individual descriptive label. Providing a default value without general labeling is not sufficient here.

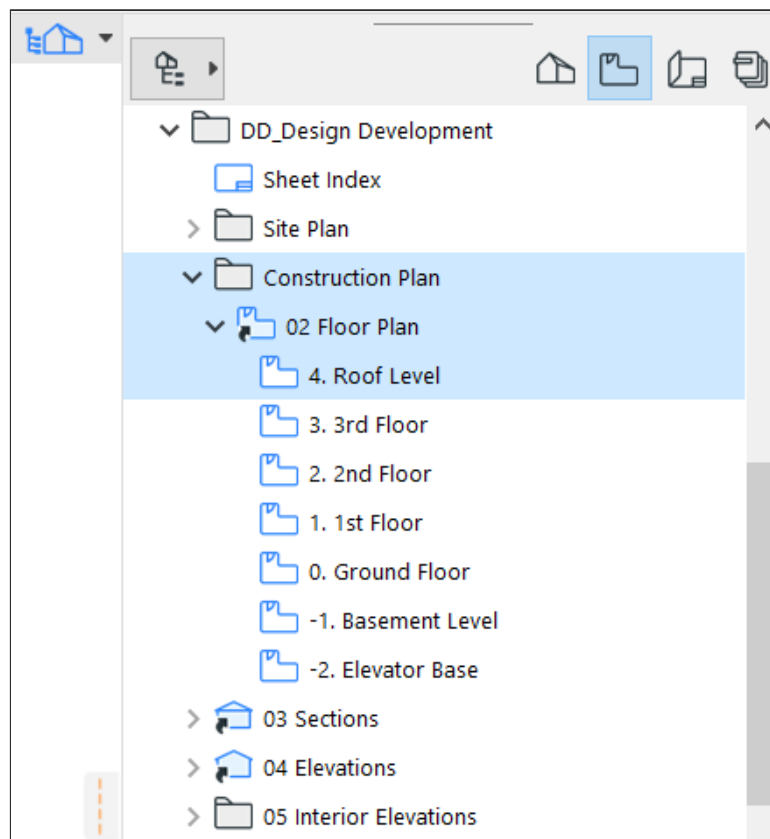


Print view

The individual areas of the application appear to be nested correctly, but based on the accessibility tree created by Accessibility Insights for Windows, they are not listed in order of appearance, and are not labeled. As a result: when navigating with a screen reader combined with a keyboard, some areas may not be identifiable due to lack of labeling, and the order of listed areas may seem illogical, because it is different from the order in which they actually appear. In addition, if the user falls into a keyboard trap in this context, they might not be able to exit by using a screen reader's object navigation.

Illogical hierarchy of Tree view

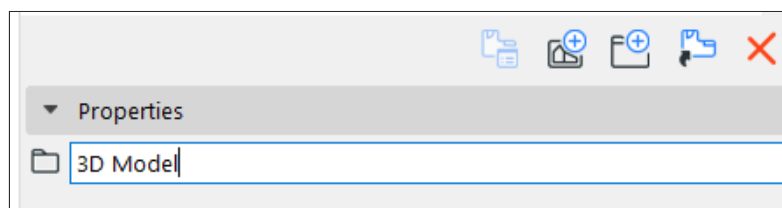
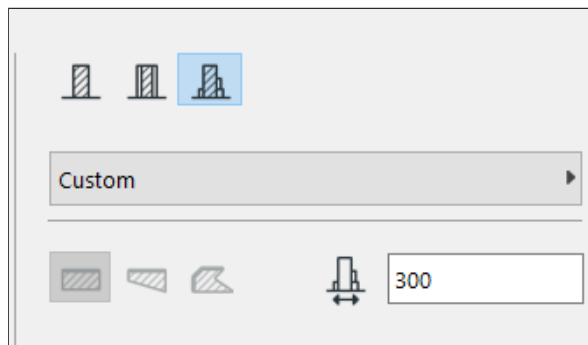
Relevant samples	Archicad 25
Test step	5.2.9 Parent-child relationships 5.2.9 Parent-child relationships EN 301 549
Type of Issue	Recommendation
Subject	Design, programming



The hierarchy in the View Map tree structure can be perceived as illogical, depending on how it is set up. Items that are logically subordinate can be placed at the same level as their parent items. The tree structure can be customized by the user. Training courses are available which provide the information needed to use these settings.

Insufficient instructions for using interface items

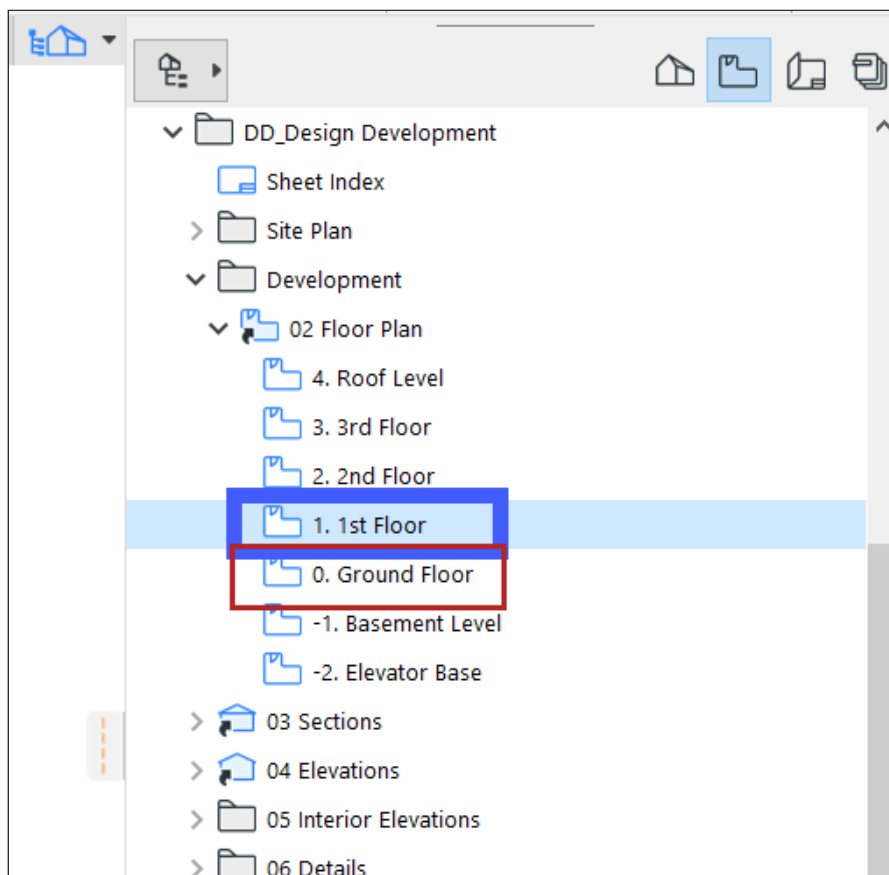
Relevant samples	Archicad 25
Test step	5.2.11 Listing of available actions 5.2.11 Listing of available actions EN 301 549
Type of Issue	Violation
Severity	Normal
Subject	Design, programming



There are no instructions for how to use interface elements. For example, some controls, such as Wall Structure options, can be navigated using arrow keys. No instructions (for example, "enter text") are given for the input fields, either.

It is not possible to navigate to some interface objects

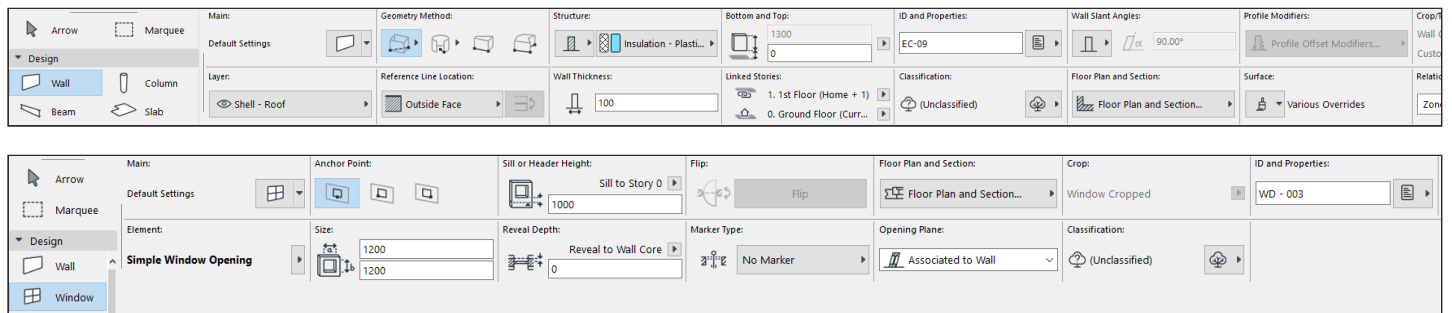
Relevant samples	Archicad 25
Test step	5.2.14 Changing the focus and selection attributes 5.2.14 Changing the focus and selection attributes EN 301 549
Type of Issue	Violation
Severity	Low
Subject	Programming



It is not possible to overcome the keyboard traps by using the screen reader's object navigation. Many components are inaccessible when the screen reader is turned on.

Changes are not communicated

Relevant samples	Archicad 25
Test step	5.2.15 Change notification 5.2.15 Change notification EN 301 549
Type of Issue	Violation
Severity	Normal
Subject	Design, programming



Certain actions on the user interface cause changes in the application. For example, when activating a new Tool, the entire Info Box changes. When opening a different View (Story), the entire visible project changes. Such changes are not actively communicated.

Operation with keyboard and screen reader not possible

Relevant samples	Archicad 25
Test step	5.2.16 Changes of states and properties 5.2.16 Changes of states and properties EN 301 549
Type of Issue	Violation
Severity	Normal
Subject	Design, programming, editing

Operation with the keyboard and screen reader is not possible because of missing semantics and preassigned keyboard shortcuts. This applies to the entire program.

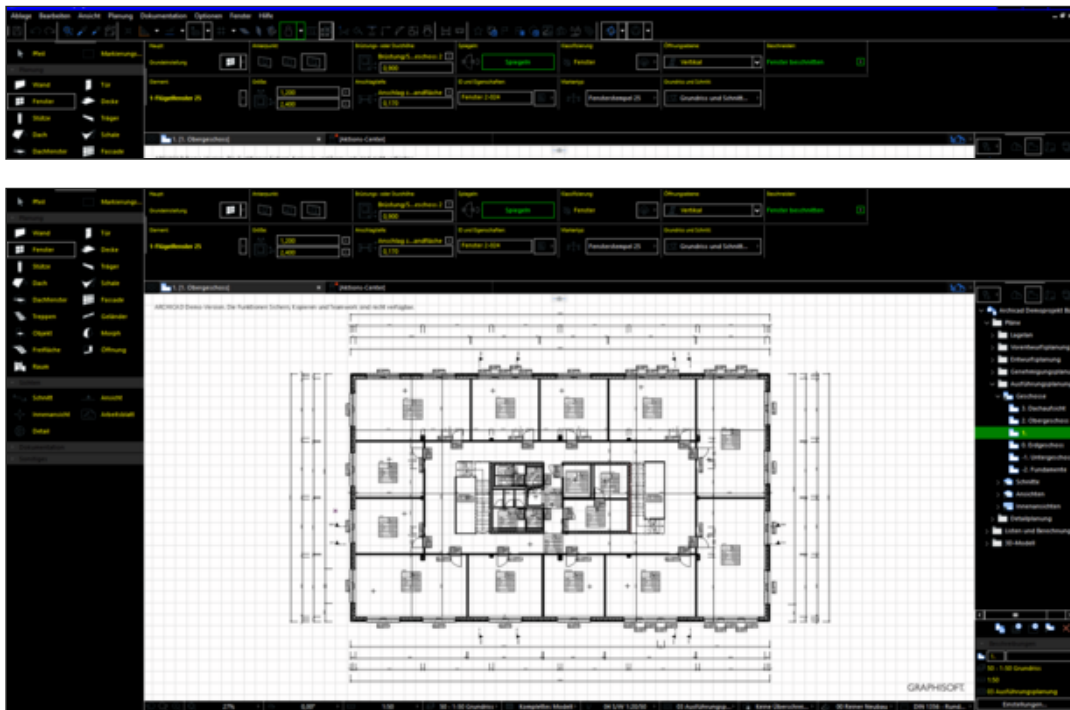
Selection with the arrow keys not possible

Relevant samples	Archicad 25
Test step	5.2.17 Changes to values and text 5.2.17 Changes to values and text EN 301 549
Type of Issue	Violation
Severity	Low
Subject	Programming

When the screen reader is active, text can be entered into fields. Selecting an option (for example, from a list) using arrow keys is not possible. This is especially true for the main views of the application, i.e. when no modal dialogs are open.

Insufficient implementation of user preferences

Relevant samples	Archicad 25
Test step	7. User preferences 7. User preferences EN 301 549
Type of Issue	Violation
Severity	Normal
Subject	Design, editing



When changing the contrast ratio, some buttons change only their background color. The view display does not implement any of the platform's contrast or color settings. Background colors in the project window (grid settings) and pen colors can be configured individually. Training courses are available which provide the information needed to use these settings.

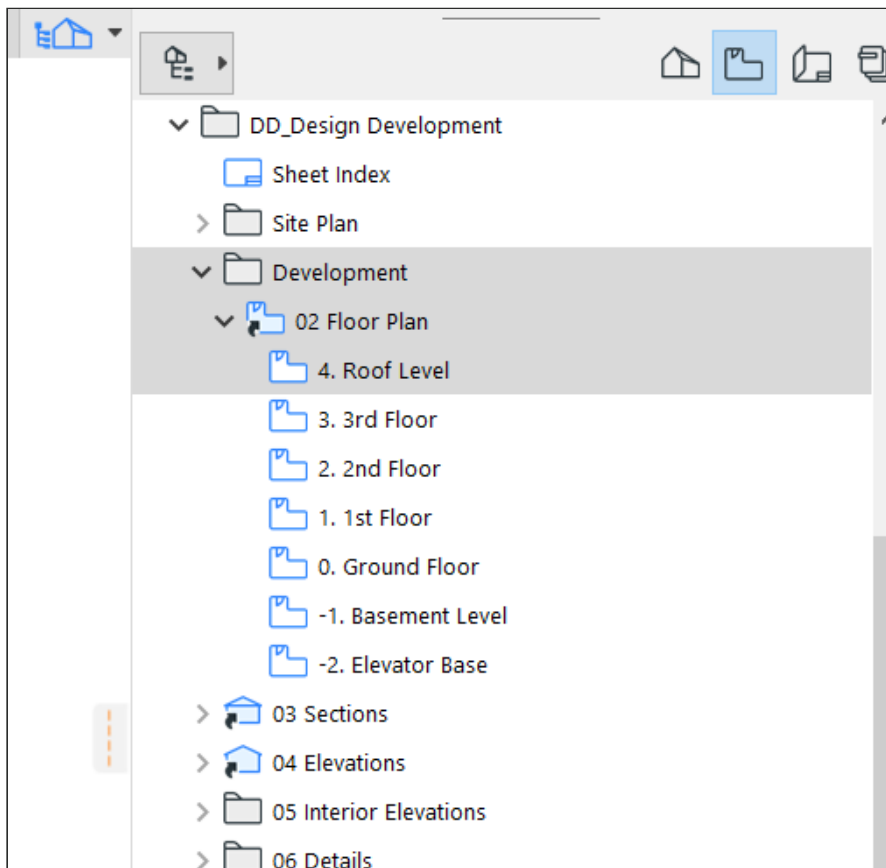
List of Keyboard Shortcuts not available in documentation

Relevant samples	Archicad 25
Test step	9.1.1 Accessibility and compatibility features 9.1.1 Accessibility and compatibility features EN 301 549
Type of Issue	Recommendation
Subject	Design, editing

The application uses numerous keyboard shortcuts. These are not listed directly in the help. The explanation can be reached in a roundabout way, using the Work Environment settings and a button to generate an HTML document listing the shortcuts. There is no listing available directly from the technical documentation (the help). Keyboard Shortcuts can be configured individually. Training courses are available which cover this information.

Documentation is not barrier-free

Relevant samples	Archicad 25
Test step	9.1.2 Accessible product documentation 9.1.2 Accessible product documentation EN 301 549
Type of Issue	Violation
Severity	Normal
Subject	Design, editing



WAVE
web accessibility evaluation tool

powered by
[WebAIM](#)

Styles: OFF ON

Details

Summary Details Reference Structure Contrast

✓ ✕ 1233 Errors

✓ 1233 X Empty link

Handbücher

Archicad 25

Hilfe zu ARCHICAD 25

Informationen zu Lizenzen und Warenzeichen

Installationshandbuch für ARCHICAD 25

ARCHICAD Netzwerk-Installation

Neue Funktionen in ARCHICAD 25

Migration nach ARCHICAD 25

Suche

Print view

The help is not barrier-free. For example, the contrasts of texts are not sufficient. In addition, the links used to expand the sections do not have an accessible name relevant to speech input or screen readers.