

Accessibility Compliance Made Easy

Streamline Compliance Checking with Digital Tools and Workflows

Learner's guide

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Learning Outcome 1

Identify the clauses checked by the Compliance Checker in Singapore's Code on Accessibility 2025

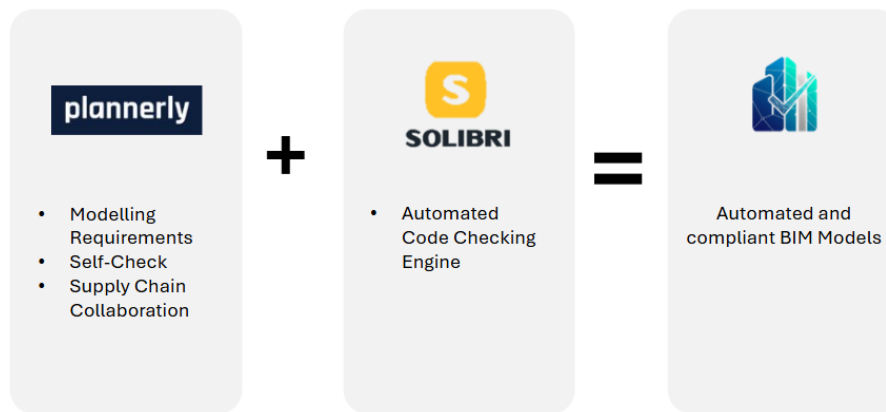
Clauses checked by the Compliance Checker

Chapter	Chapter Title	Main Clause	Sub-Clause	Total Clauses	Testing Requirements	Clauses
1	Accessibility in the Built Environment	0	27	27	0	
2	Provisions for Accessibility	4	43	47	7	2.5.1(b)(c)(d)(e-i, ii, iii,iv)
3	Arriving at the Building	3	41	44	12	3.1.1, 3.1.2, 3.3.1.1(7), 3.3.2.1(b-i,ii,iii)
4	Accessibility Around and Within the Building	9	190	199	31	4.2.1.1(2a)(b), 4.2.1.4, 4.2.3.6(a)©, 4.1.1(b), 4.2.3.6(a)(c), 4.4.2.1, 4.4.3.1, 4.4.6.1(a)(b)(c), 4.4.6.2(a)(b), 4.5.1, 4.6.2.1(a)(b), 4.6.3.1, 4.6.5.2(a)(b)(c), 4.6.6.1(a)(c)(d), 4.6.6.2(a)(note), 4.7.3.1(b)(c)(d), 4.9.1.1, 4.9.1.3, 4.9.2.1
5	Sanitary Provisions	7	172	179	19	5.1.1, 5.1.3, 5.1.5, 5.2.1(a)(b), 5.3.1,5.3.2, 5.4.1(a), 5.4.2, 5.4.3(ii)(iii), 5.5.1(b), 5.6.1, 5.8.1.1(a)(b), 5.8.5.1(a)(b)(c)(e)
6	Family-Friendly Provisions	7	60	67	1	6.2.2(a)
7	Residential, Serviced Apartments, Hotels, Hostels and Dormitories	7	42	49	13	7.1.1(a)(b), 7.1.6, 7.2.1, 7.2.2(a)(b)(c), 7.3.1, 7.3.3(2), 7.3.4(b)(c)
8	Signage and Wayfinding	6	38	44	0	
9	Components of a building	7	62	69	0	
Total Clauses in Accessibility Code				725	83	

Learning Outcome 2

Navigate the Modelling Requirements checklists and run the self-checker to ensure the model meets the information requirements of the compliance checker

The digital tools for compliance checking



Plannerly

Plannerly is a web-based platform used to manage BIM information requirements and streamline model coordination. It helps to ensure that your BIM models are complete, consistent, and compliant before moving to the automated model checking stage.

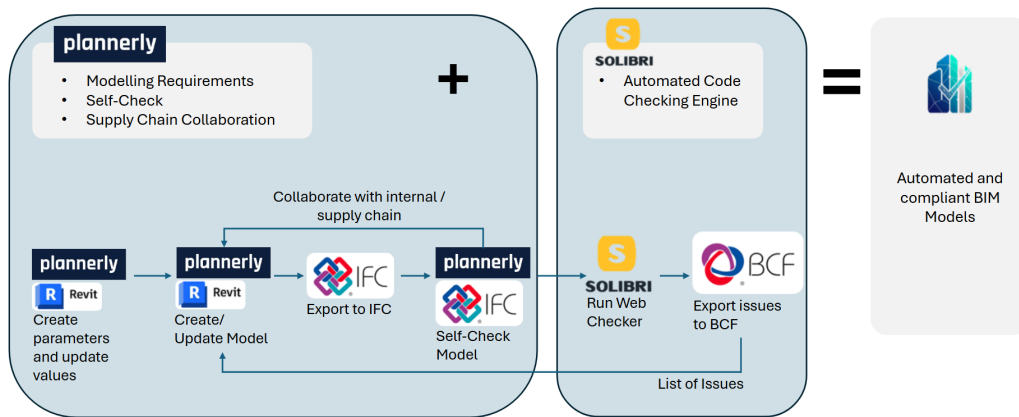
Solibri (Model checker)

Solibri is a rule-based model checking software that validates BIM models against regulatory code, standards, and design rules. Solibri allows designers and regulators to perform accurate, objective, and repeatable compliance checks, reducing manual review time and improving model quality.

Plannerly + Solibri

The integration of Plannerly and Solibri creates a seamless end-to-end workflow for ensuring Accessibility Code compliance. Plannerly acts as the data preparation and coordination platform, where designers manage IFC+SG parameters, review modelling requirements, and perform pre-checks to confirm that there are IFC+SG parameters with the necessary values embedded in the model.

Workflow



Beta Testing Workflow Overview

This beta testing workflow demonstrates how Plannerly and Solibri integrate to create an automated and compliant BIM model that aligns with the Accessibility Code 2025.

1. Start in Plannerly – Defining Information Requirements
 - The process begins in Plannerly, where learners access the Modelling Requirements module to review the IFC+SG parameters and information fields required by the Accessibility Code.
 - This information requirements correspond directly to the clauses affected in this Beta Test.
 - This step ensures that all model data requirements are understood before any modelling work begins.
2. Model Development in Revit – Embedding IFC+SG Parameters
 - Using the information from Plannerly, learners proceed to Revit to embed the necessary IFC+SG Parameters into their BIM model.
 - Once parameters and values are assigned, the model is ready for export.
3. Export to IFC and Conduct Pre-Checks in Plannerly
 - The Revit model is exported to IFC format.
 - The IFC file is then uploaded back to Plannerly for a self-check against the modelling requirements.
 - This pre-check verifies that the model contains all required IFC+SG parameters and that values are correctly populated.
4. Run Automated Compliance Check in Solibri
 - After successful pre-checking, the verified IFC model is uploaded to Solibri Web Checker.
 - Solibri automatically checks the model against the relevant clauses of the Accessibility Code 2025.
 - The result can be exported as a PDF report or as a BCF (BIM Collaboration Format) file.

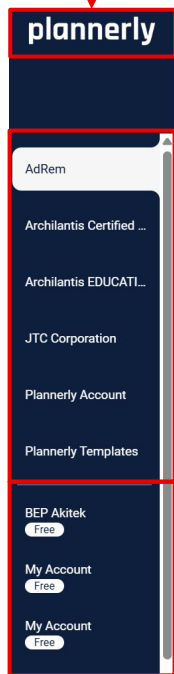
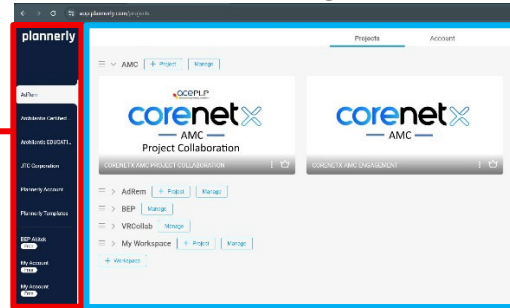
5. Review and Amend using Qmply Plug-in within Revit.
 - The BCF file can be uploaded onto the Qmply plug-in in Revit to locate and review each issue using the Element ID or IFC GUID.
 - This will visually identify non-compliant elements directly in the model.
 - Necessary corrections are made in Revit based on the results.
6. Iterate and re-check
 - Once amendments are made, the model is exported again to IFC, re-uploaded to Plannerly for pre-check validation, and re-tested in Solibri web checker.
 - This iterative process continues until the model passes all automated rule checks.

Outcome

With this workflow, it is understandable how Plannerly, Revit and Solibri work together to create an Accessibility Code 2025 compliant BIM model. This integrated process ensures a complete and accurate data setup (Plannerly), embedding of parameters and values (Revit), Automated code validation (Solibri), Efficient issue resolution (Qmply).

Plannerly Environment

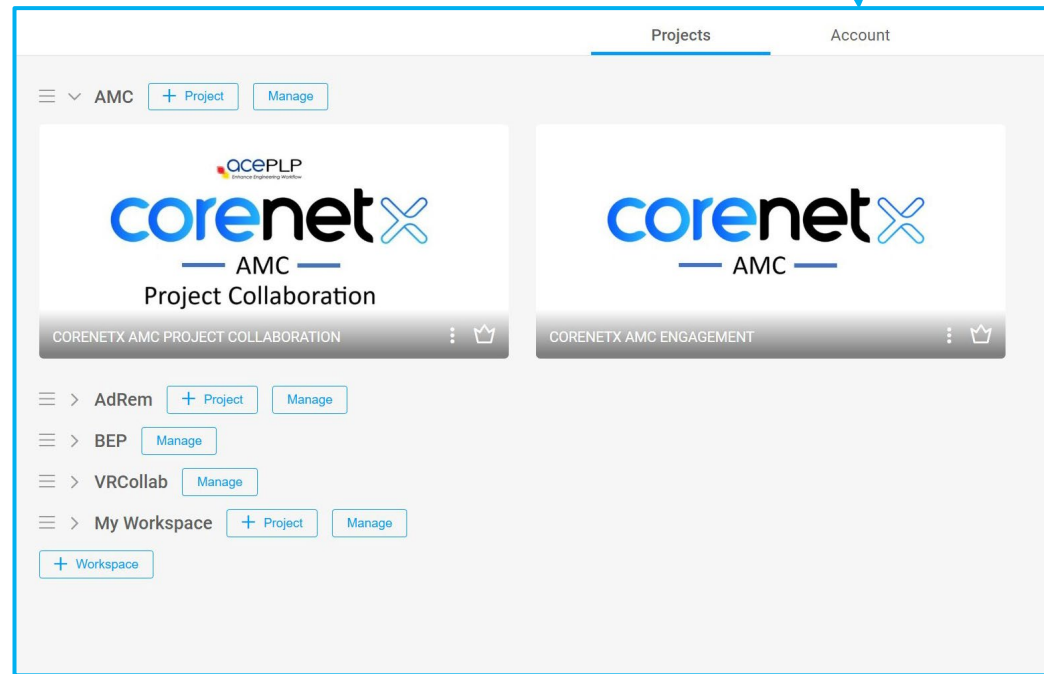
Home Page



Directs you to the home page.

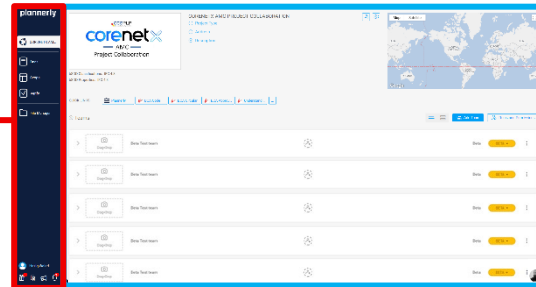
Indicates all AMC Test Account

Indicates all Account



Indicates all projects

Plannerly Environment



plannerly

Directs you to the home page.

CORENETX AM...

Project Information

Docs

Contains test results, feedback, reference materials

Scope

Contains Model Content Requirements, Modelling guide

Verify

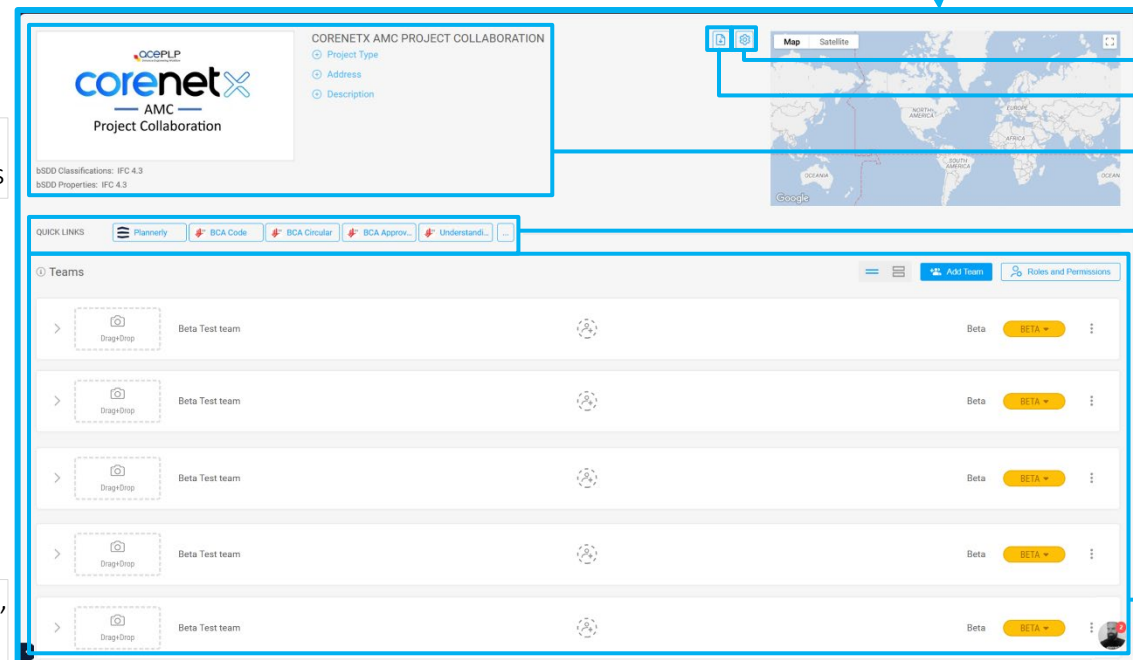
Contains testing updates, for Self-checking

File Manager

Store, organize, and manage all project-related files and documents

Haziq Wallad

Quick-access hub for rewards, learning resources, new feature updates, and project activity alerts



Manage project details and settings

Export this page

Project Information

Quick links to all relevant documents of the project

Adds all relevant team members, roles, and permission

Plannerly Environment – Docs

Use this space to upload documents that your project team can view and download at any time.

The image shows the Plannerly Docs interface. A sidebar on the left contains the Plannerly logo, a user profile, and navigation options: Docs (highlighted with a red box), Scope, Verify, and File Manager. The main area displays a 'Reference Materials' table. Above the table are tabs for 'References', 'Testers', and 'Qmply'. A top navigation bar includes icons for navigation, settings, filters, and document actions. A callout box in the top right corner shows a detailed view of a document's metadata. Another callout box on the right explains the document status options: 'In Progress' (selected), 'Shared', and 'Published'. A third callout box below it shows the comment section with filters for 'Unresolved', 'Resolved', and 'All' comments, and a text input field for comments or mentions. A fourth callout box points to the table content, indicating where users can add content like tables and hyperlinks.

Documents Tabs

Status of this document

- In Progress**
View/edit based on permission
- Shared**
Visible to all. Only SmartFields editable.
- Published**
Authorized for use.

Comment section with Date and Timestamp

Content of Documents which you can add a table, hyperlinks, etc.

Training Slides	Accessibility Compliance Made Easy Training Slides (BCA)
Accessibility Code	bca-coa2025 (1).pdf
Web Checker	Solibri Webchecker
Sample Models (RVT)	Hospital Model Car Park Model Mall Model Condo Model School Model (Training) School Building
Sample Models (IFC)	Hospital Model Car Park Model Mall Model Condo dModel School Model (Training) School Building
IFC+SG Property Set	CORENET X
Qmply BCF Viewer Revit Plugin	Qmply
Model Checker Website	modelchecker.aceplp.com.sg

Plannerly Environment – Scope

This section displays the rules linked to each clause, along with all relevant modelling requirements.

The screenshot displays the Plannerly interface, specifically the 'Scope' section. The left sidebar shows the 'Scope' button highlighted. The main area shows a table of accessibility codes and their associated modelling requirements. The table has two columns: 'Model Requirements' and 'Alpha Test'. The 'Alpha Test' column contains a 'READY FOR TESTING' button for each row. A red arrow points from the 'Scope' button in the sidebar to the 'Scope' section. A blue arrow points from the 'Model Requirements' column to the 'Alpha Test' column. A blue arrow points from the 'Alpha Test' column to a detailed view of a modelling requirement.

Export all modelling requirements to PDF, IDS, etc.

Detailed view of a modelling requirement:

- 5.1.5 Water closet cubicle ratio
- DESCRIPTION: Type something.
- CLAUSE: Where water closet cubicles are provided, at least one water closet cubicle for persons with ambulant mobility impairment as described in clause 5.4 must be provided for every four numbers of water closet cubicles or part thereof.
- NOTE: Clauses 5.1.5 and 5.1.6 do not apply to children's toilet and purpose-built workers' dormitories.
- DOCUMENTS: Add Docs
- COMMENTS: Type something.
- INFORMATION REQUIREMENTS: Add Docs
- CHECKLISTS: Add Docs
- Included Fields: PROJECT TASK FIELDS
- TRACKING: READY FOR TESTING
- STATUS: No Item, Alpha Test
- Unassigned, No Dates
- ACTIVITY: Comment or Generation
- Delete Task

Plannerly Environment – Verify (Kanban Board)

The Verify (Kanban Board) displays your task list, allowing you to categorize each item as Pass or Fail.

The image shows the Plannerly Verify (Kanban Board) interface. On the left is a dark sidebar with the 'planerly' logo and navigation options: CORENET AM..., Docs, Scope, Verify (highlighted with a red box and a red arrow pointing to the main board), and File Manager. The main area is a Kanban board with three columns: 'Ready for Testing', 'Pass', and 'Fail'. The 'Ready for Testing' column contains a list of tasks, each with a document icon, a title, and a 'READY FOR TEST' button. The 'Pass' column is currently empty. The 'Fail' column contains three tasks, each with a document icon, a title, and a 'FAIL' button. A red arrow points from the 'Verify' option in the sidebar to the main board. A blue arrow points from a smaller inset window at the top to the main board. Three blue arrows point from text boxes on the right to specific features: the first points to a toggle switch at the top right, the second points to a filter dropdown, and the third points to a task card. A fourth blue arrow points from a text box to a close-up of a task card, showing a hand dragging a task card from the 'Ready for Testing' column to the 'Pass' column.

Toggle between Kanban Board and Model Viewer

Filter the Kanban Board to show only what you need

Once you have checked, you can drag the clause into either pass or fail

Plannerly Environment – Verify (Model Viewer)

The Verify Model Viewer lets you upload your models and run pre-checks in Plannerly to confirm modelling requirements are met before proceeding to the Solibri Web Checker.

The diagram illustrates the Plannerly Verify workflow. A sidebar on the left contains navigation options: CORENETX M..., Docs, Scope, **Verify** (highlighted with a red box), and File Manager. A red arrow points from the 'Verify' button to the main interface. The main interface features a top navigation bar with 'Checking' and 'All Scope' dropdowns, and a 'SCHOOL_MODEL.Life V02B' label. A blue arrow points from a smaller 'Model Manager' window (showing a search bar and 'New Model' button) to the main interface. The central area displays a 3D model of a building. On the left, a 'Pre-Check' list includes items like Water Closet, Urinal, Wash Basin, Room, Ballard, Door, Parking, Railing, Ramp, Flared Kerb Ramp, Lift, and Shower, each with a 'PRE-CHECK' button. A blue arrow points from the 'Pre-Check' list to the right-hand 'Results of the pre-checks' panel. This panel shows a 'Room' model with a 'Checklist' (Specify correct IFC Entity, Define IFC Sub Type, Populate all necessary IFC parameters, Ensure spacename follows Industry Mapping Table) and an 'Information' section with a table of parameters and their values.

View or upload your models here

Results of the pre-checks indicate whether your model meets the required standards before final validation.

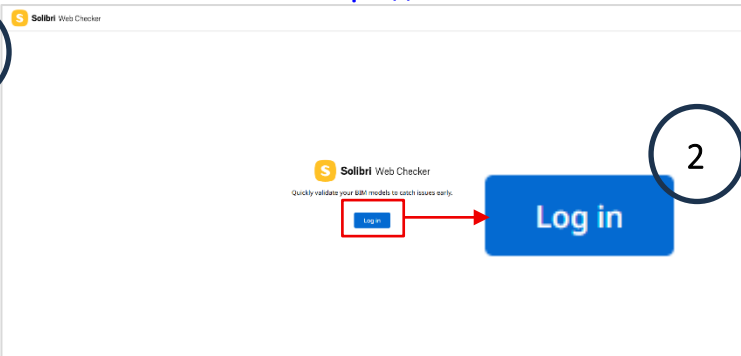
	Parameter	Value	Action
Red Circle	Does not exist	Not Active (Boolean) No Value (Label)	1. Confirm that the parameter name in the element is correct. 2. Create parameter in the element if it is missing. 3. The element is not ready for AMC.
Yellow Circle	Exist	False (Boolean)	1. Check if the value in the parameter matches the information requirements. 2. Depending on the values, the element is ready for AMC.
Green Circle	Exist	True (Boolean) Has Value (Label)	1. No action required. 2. The element is ready for AMC.

Learning Outcome 3

Operate the web-based compliance checker to execute checks against the Code on Accessibility 2025

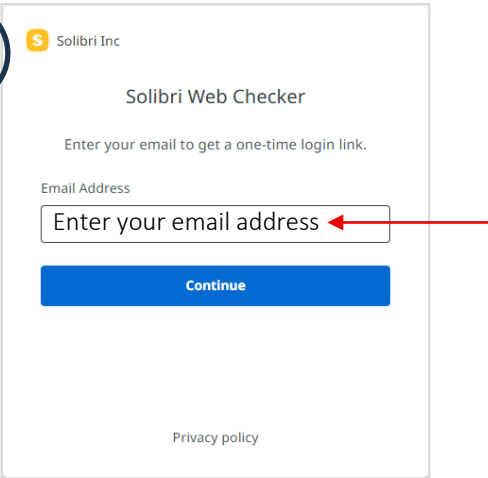
Solibri Web Checker URL: <https://webchecker-dev.solibri.com/>

1

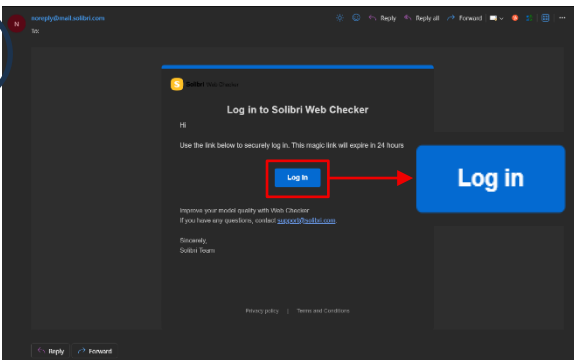


2

3

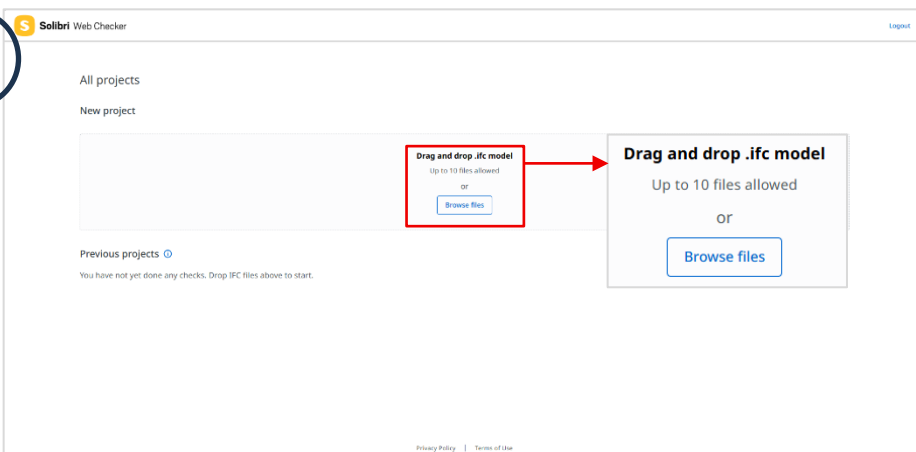


4



The Solibri Web Checker can only be accessed through the link given in your email.

5



6

6

New project
Name your project and make sure all required model files are uploaded.

Project Name*
Enter your project name

Model files
Add files

SCHOOL_MODEL with Parking.ifc

Cancel Continue

7

Solibri Web Checker

Project: Sch Model

Project name
Sch Model

Model files
SCHOOL_MODEL with Parking.ifc V1 02 Nov 2025 Update Version

Checks

- Code on accessibility in the built environment 2025 Released: 15 Oct 2025 - Report has not yet been done.
- Chapter 3 Code on Accessibility in the Built Environment 2025 Released: 11 Oct 2025 - Report has not yet been done.
- Chapter 4 Accessibility Around and Within the Building Released: 28 Oct 2025 - Report has not yet been done.
- Chapter 5 Sanitary Provision Released: 28 Oct 2025 - Report has not yet been done.
- Chapter 6 Code on accessibility in the built environment 2025 Released: 11 Oct 2025 - Report has not yet been done.
- Chapter 7 Code on accessibility in the built environment 2025 Released: 15 Oct 2025 - Report has not yet been done.

Start Start Start Start Start Start Start

Run each of the checks based on the Code of Accessibility Chapter.

8

Solibri Web Checker

Project: Sch Model / Checking Results

Chapter 3 Code on Accessibility in the Built Environment 2025

6/18 rules found errors

Download

Rules

Only show rules with errors

3 Arriving at the Building (0)

- 3.3.1.1 Accessible vehicle parking provision ratio (0)
- 3.3.1.1 Accessible vehicle parking provision ratio in Other buildings
- 3.3.1.1 Accessible parking lot ratio in (1) Other Buildings 1-10 storeys
- 3.3.1.1 Accessible parking lot ratio in (0) Other Buildings 10-100 storeys
- 3 additional lot every subsequent 300 lots or any part thereof

3.3.2 Minimum dimensions of Accessible Vehicle Parking Lots (0)

- 3.3.2.1 the minimum dimensions of 40 5400 mm by 3600 mm for parallel parking
- 3.3.2.1 the minimum dimensions of 40 7700 mm by 1800 mm for parallel to side park...

Results

Rule Name: 3.3.2.1 the minimum dimensions of 40 5400 mm by 3600 mm for parallel parking

Components: Checked: 1, Failed: 1

Parking Space Size: Object: 8.15

Message: Parking space Object: 8.15 size doesn't meet the requirements: min-Parking space is too short. The length is 5.05 m, the minimum allowed length is 5.40 m. min-Orientations: undefined

Location: Ground Floor

Components: 1

Name	IS Type	GLID
handicapped parking (schhandicapped parking lot:180336		#BuildingElementary 229yC8t4t5pQzGzGzGz

Result of one of the checks.

Learning Outcome 4

Review and Interpret issue reports generated from automated rule checks to guide necessary design adjustments

1

Download

Download

SMC file

BCF file

PDF report

You are allowed to export your reports in either BCF or PDF format.

For PDF file.

Download

SMC file

BCF file

PDF report

3 Arriving at the Building > 3.3.2 Minimum dimensions of Accessible Vehicle Parking Lots

Accessibility Code Chapter and clause.

Rule 3.3.2.1 the minimum dimensions of: (i) 5400 mm by 3600 mm for parallel parking

Description An accessible vehicle parking lot must:
(b) have the minimum dimensions of:
(ii) 5400 mm by 3600 mm for parallel parking as shown in Figure 14; and

Sub-Clause number

Clause description

Issue Parking Space Size: Object.0.15

Message Parking space Object.0.15 size doesn't meet the requirements.
Parking space is too short. The length is 5.05 m, the minimum allowed length is 5.40 m.
Orientation: Undefined

Location Ground Floor

Related components 1

Issues details

Component	IFC Type	GUID
handicapped parking lot:handicapped parking lot:780336	IfcBuildingElementProxy	2ZNyC8T4r5pQrQtzQZsnKh

Indicates IFC GUID of Component

Indicates IFC Entity of Component

Indicates Component name and Revit's Element ID

Created with Solibri

10

BCF Format & Workflows

The **BIM Collaboration Format (BCF)** is a lightweight, geometry-free format used to exchange issue information during model checking and coordination. BCF captures issue metadata such as descriptions, screenshots, viewpoints, status, and element GUIDs, enabling different stakeholders to review, track, and resolve issues across platforms. The compliance checker can provide outputs in BCF format to support downstream review by BIM modellers, QPs, and POs.

Workflows

1. BIM Modellers

Goal: Resolve model issues directly in the native Revit model.

Step 1: Receive BCF from Compliance Checker

- BIM modeller receives the BCF file containing issue results.
- IFC import is not required.

Step 2: Open Revit (Using BCF Viewer Plugin – Qmply)

- Load the BCF file into the Qmply plugin (Refer to page 18 for steps)
- Review issue descriptions, screenshots, viewpoints, and comments.

Step 3: Do Not Import or Link IFC

- Avoid importing or linking IFC into Revit.
- Work entirely in the native Revit model to prevent GUID changes.

Step 4: Locate Elements

- Use Qmply to navigate to affected elements based on the BCF issue information.

Step 5: Resolve Issues

- Update the Revit model to address the identified issues.
- Add comments or mark issues as resolved in Qmply.

Step 6: Export Updated BCF (Optional)

- Export a revised BCF file for QP and PO review if needed.

2. QPs

Goal: Conduct technical review of issues without relying on Revit.

Step 1: Receive BCF from Compliance Checker

- QP obtains the BCF file generated by the Compliance Checker.

Step 2: Open IFC Model & BCF File in External Viewer

Recommended Tools:

- Solibri Office (Refer to page 19 for steps)

- Solibri Anywhere
- BIMCollab Zoom
- Catenda Hub

Step 3: Review Issue Details & Validate

- Use BCF issues and viewpoints to pinpoint affected locations.
- Inspect geometry and check the issue context within the IFC viewer.

Step 4: Review / Comment / Approve

- Perform design review, add comments, request clarifications, or approve resolutions.

Step 5: Return Updated BCF

- Send the updated BCF back to BIM modellers or POs to maintain a clear communication loop.

3. POs

Goal: Review issues thoroughly without Revit, with full viewpoint-based navigation.

Step 1: Receive BCF from Compliance Checker

- PO receives the BCF resulting from compliance checking.

Step 2: Open IFC Model & BCF File in External Viewer

Recommended Tools:

- Solibri Office (Refer to page 19 for steps)
- Solibri Anywhere
- BIMCollab Zoom
- Catenda Hub

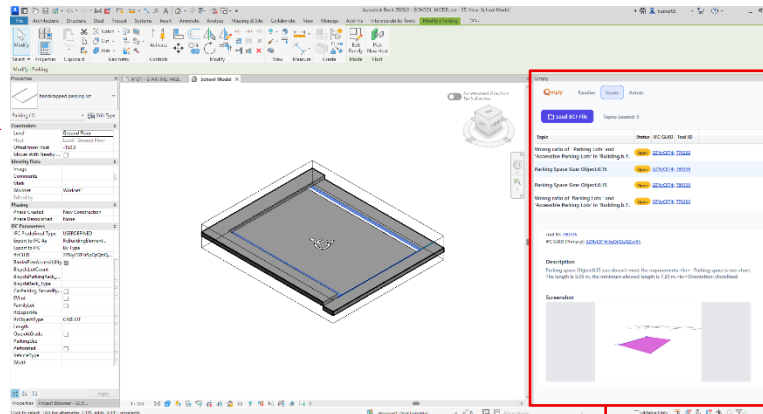
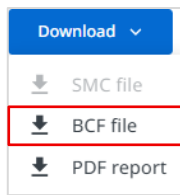
Step 3: Review Issue Details

- Use BCF issues and viewpoints to pinpoint affected locations.
- Inspect geometry and check the issue context within the IFC viewer.

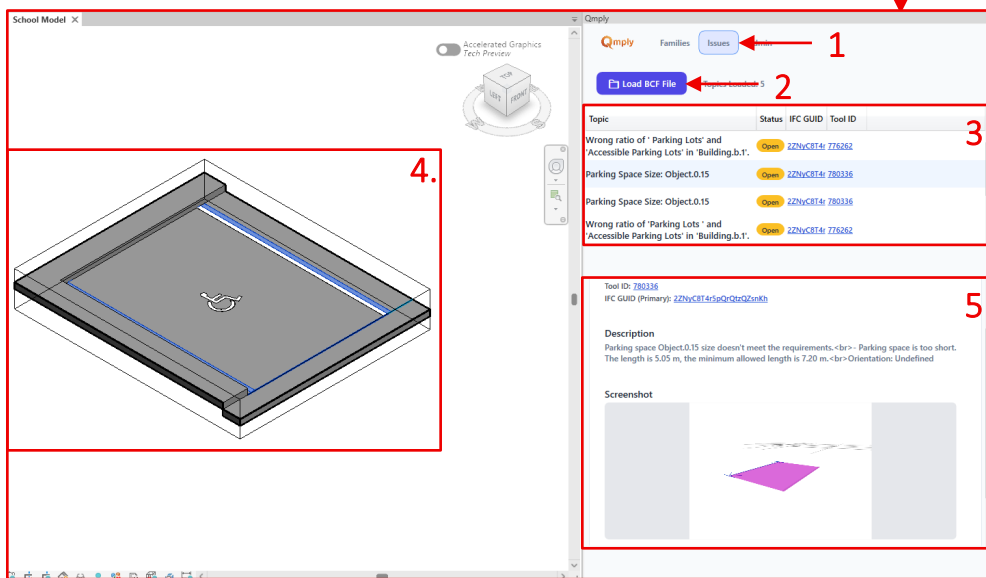
Step 5: Provide Feedback & Approval

- Add comments or request clarification from QPs or BIM modellers.
- Assign issues, request follow-up, or approve completed resolutions.

For BCF file – Revit users (Qmply Plugin)



Refer to page 9 on where to download the Qmply plug-in for Revit.

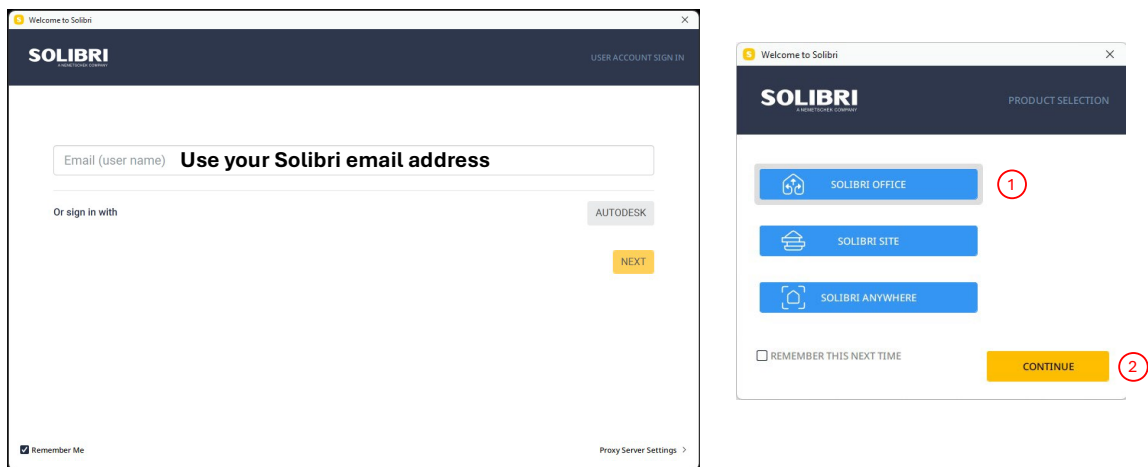


In the plug-in:

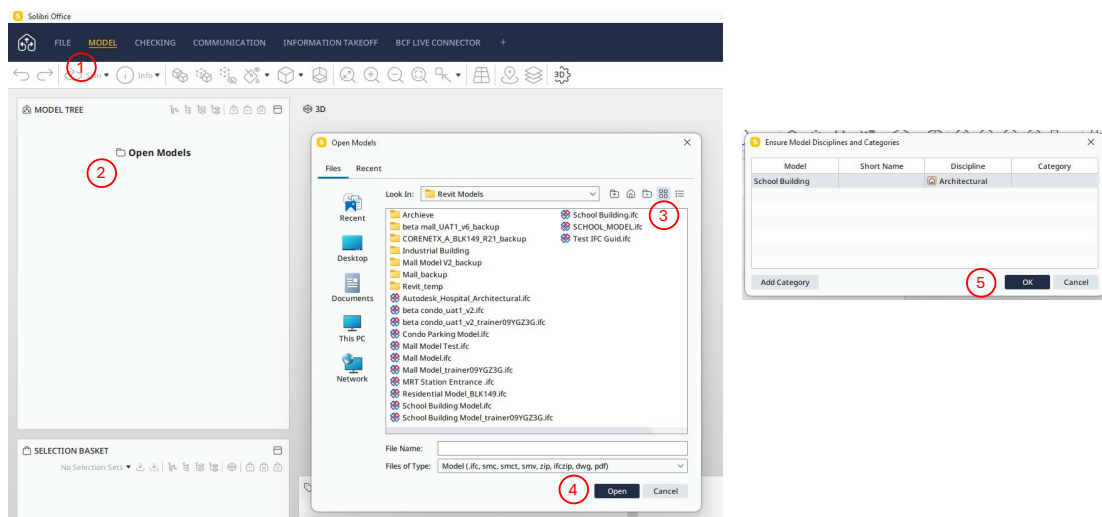
1. Select "Issues"
2. Select "Load BCF file".
3. All issues are listed here with the IFC GUID and Revit Element ID.
4. When clicked on an issue, Revit will locate and isolate the element.
5. The issue details are stated here.
6. Amend accordingly.

For BCF file – Non-Revit users (Solibri Office)

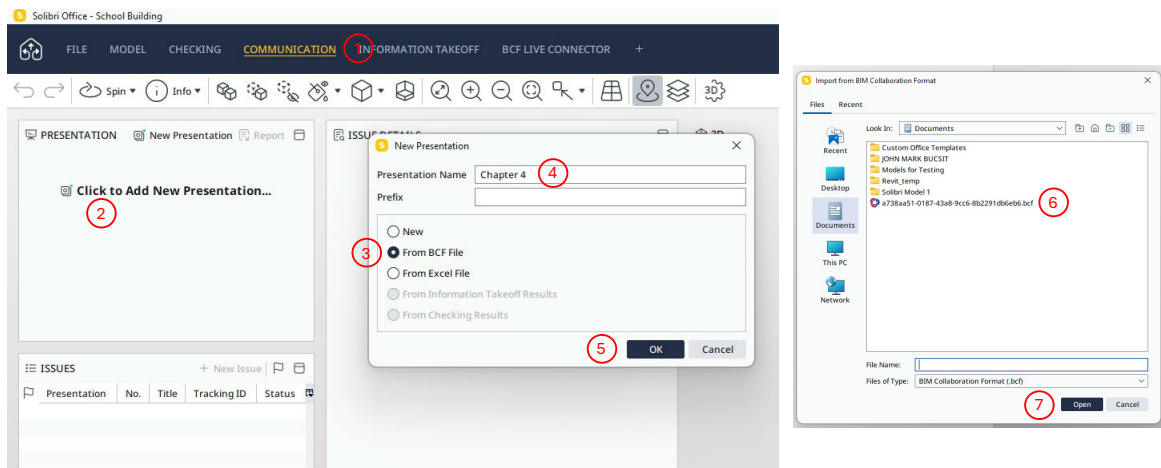
Step 1: Login to Solibri using your account



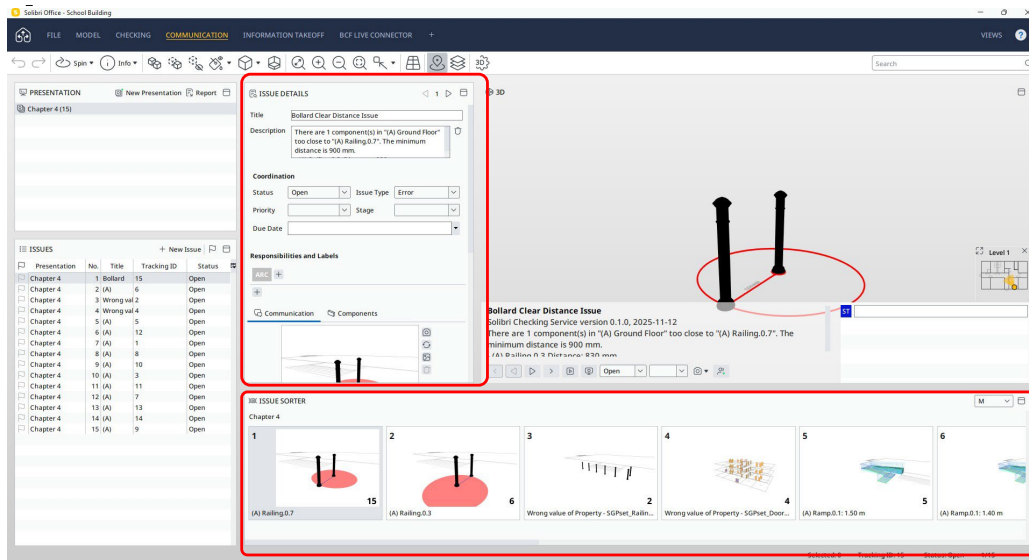
Step 2: Open the Correct IFC model



Step 3: Import the BCF File

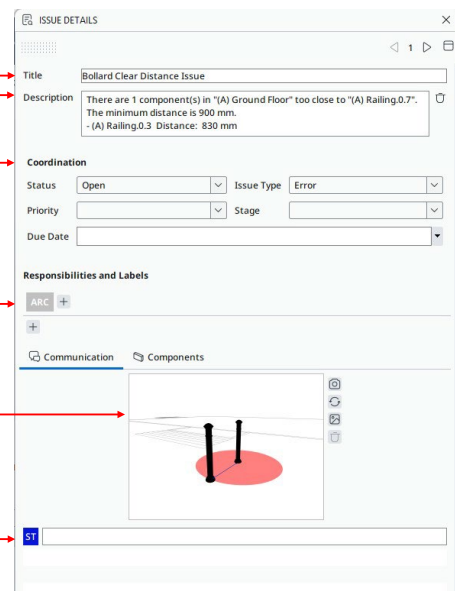


Step 4: Review Issues in 3D Context

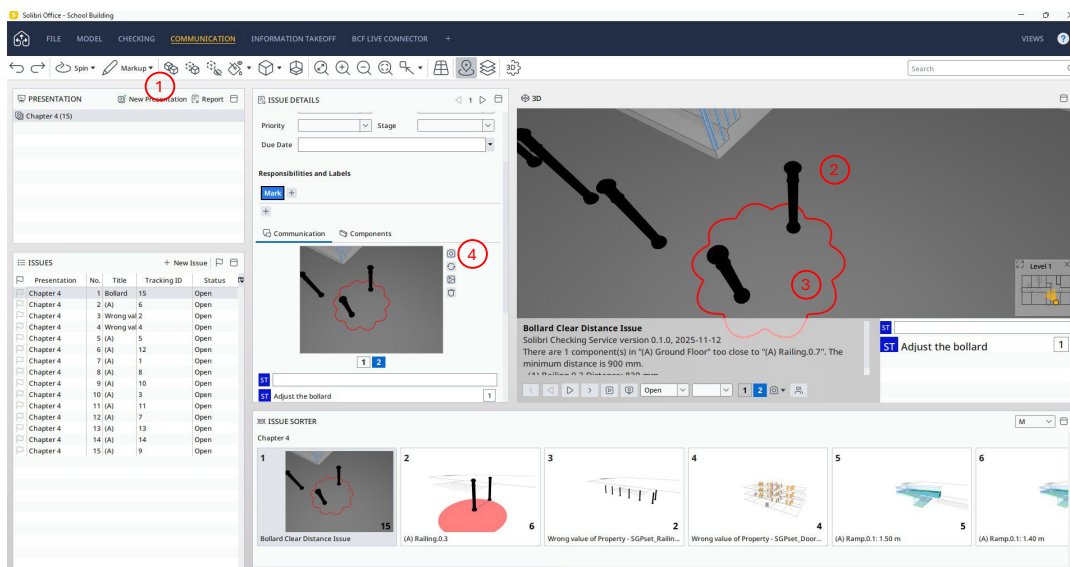


Step 5: Update Issue Report

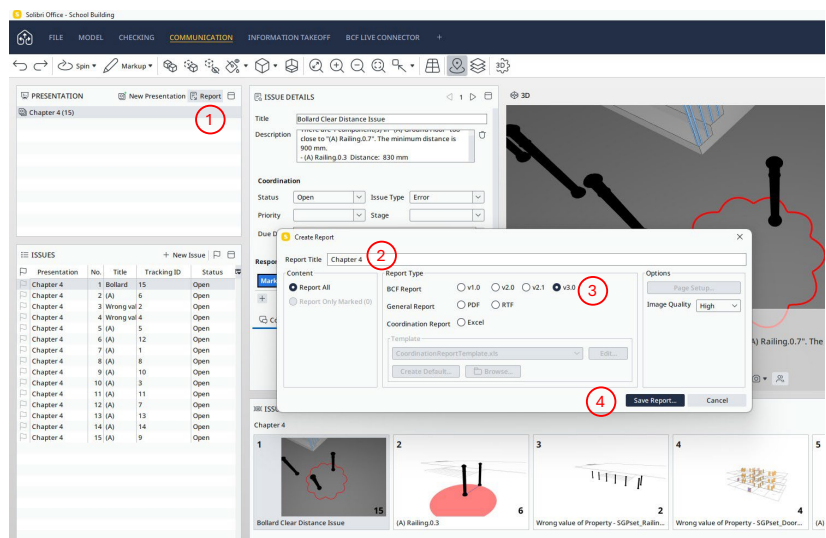
1. Create/Edit title (if needed)
2. Identify the Issue of the Element
3. Coordinate with the Team
4. Assign the Issue to the Person Responsible
5. Add some more screenshots (if needed)
 - i. Select `Show All` button
 - ii. Zoom in to the desired element
 - iii. Add in annotation (if applicable)
 - iv. Take screenshot
6. Add in Supporting Info



How to add more screenshots



Step 6: Export Updated BCF File



Technical Support

For technical assistance or support related to the use of this guide or the compliance checker, please email the AcePLP Code Checker Squad at modelchecker@aceplp.com.sg

DOCUMENT VERSION CONTROL RECORD

Version No.	Effective Date of Release	Summary of Included Changes	Author
1.0	7 Nov 2025	1 st Draft	Haziq
2.0	21 Nov 2025	2 nd Draft	Tashayani