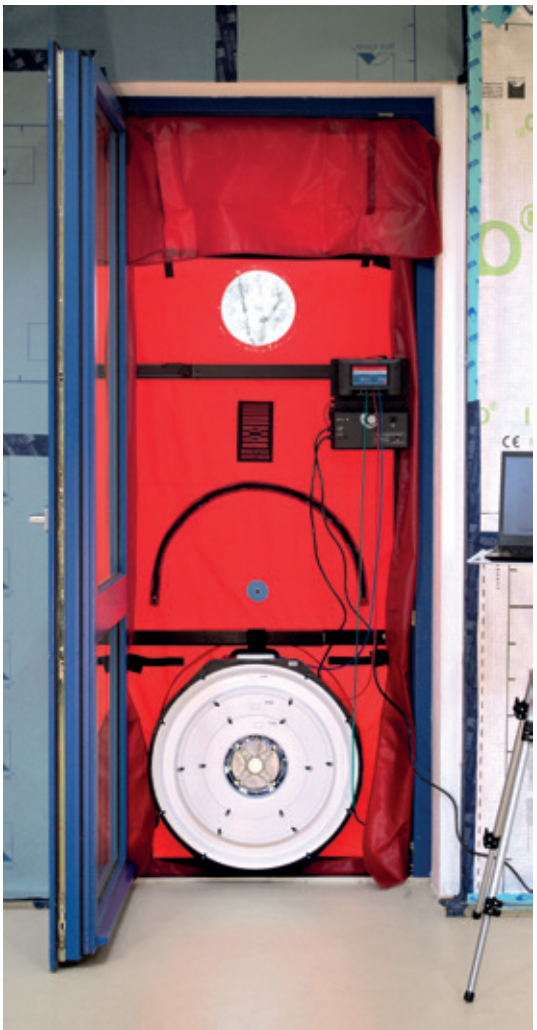
BlowerDoor Reference Guide



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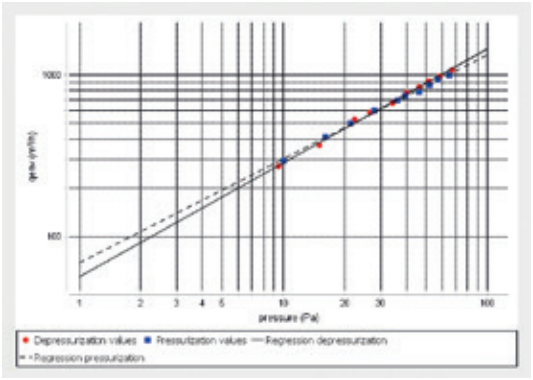

BlowerDoor
Report 4.0

Test report for air permeability measurements in accordance with ISO 9972 and DIN EN ISO 9972

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Table of Contents

1 Introduction 5

1.1 Program description 5

1.2 BlowerDoor Report program interface 6

2 System requirements and specifications 8

2.1 System requirements 8

3 Installing the Software 9

3.1 Installing the Java Runtime Environment 9

3.2 Installing LibreOffice 10

3.3 Saving/storing the BlowerDoor Report file on the computer 10

3.4 Updating the BlowerDoor Report software 10

4 Setting up the BlowerDoor Report software 11

4.1 Creating a folder structure for storing internal program help files and for storing files related to measurement projects 11

4.2 Starting the BlowerDoor Report for the first time 12

5 The BlowerDoor Report 13

5.1 Opening the BlowerDoor Report 13

5.2 Elements of the BlowerDoor Report 14

5.3 Creating the test report 17

5.3.1 Selection of the test standard 17

5.3.2 Loading test files 18

5.3.3 Test Analysis 20

5.3.4 Project Information 20

5.3.5 Test Information 22
5.3.6 Creating a test report 25
5.3.7 Checking the test report in LibreOffice, printing, creating a PDF document 25
5.3.8 Editing the test report with Microsoft Word 27
5.4 Saving contact data, measurement devices, text modules, etc. 28
5.5 Saving a Project (optional) 29
5.6 Insert Company Logo 30
5.7 User templates for the BlowerDoor Report 30
6 Further operating instructions 31
6.1 Appearance of the test report 31
6.2 Setting LibreOffice as default program 31
6.3 BlowerDoor Report does not open when double-clicked 32
6.4 Determining the system type of a Windows computer 33

1 Introduction

Thank you for choosing the BlowerDoor Report software. The BlowerDoor Report creates standardized test reports for air permeability tests in accordance with

- ISO 9972:2015
- DIN EN ISO 9972:2018:12.

This manual describes how to set up and operate the BlowerDoor Report and provides helpful tips for quick and easy operation. It is intended for both new users in the field of air permeability measurement and experienced measurement teams.

The BlowerDoor GmbH team will be happy to answer any questions about the program via e-mail at info@blowerdoor.de **or via telephone on +49 5044/975-40.**

1.1 Program description

What is the aim of the BlowerDoor Report?

The BlowerDoor Report is a standalone program that generates test reports in accordance with the German standard DIN EN ISO 9972:2018 or ISO 9972:2015. In the BlowerDoor Report, measurements from TECTITE Express 5.1, TECLOG 4 and the TEC Auto Test app (from version 1.9) are combined with photos, PDF documents and other user input to create a test report in LibreOffice. This allows you to freely customize the content and scope. Depending on the measurement task, a test report with the necessary details or a more comprehensive report with additional photos and information can be created efficiently.

What does the BlowerDoor Report achieve?

- The program accepts measurement files created with the
  - TECTITE Express 5.1 or TECLOG 4 software in accordance with ISO 9972. These files have the file extension ".bld". It also accepts data-files from the TEC Auto Test app (from version 1.9) for iOS and Android devices; these files have the extension ".xml".
- You may select a measurement series for evaluation if there are several measurement series of the same test type (negative or positive pressure).

- The BlowerDoor Report analyses the measurement series according to the standard selected by the user - either DIN EN ISO 9972:2018-12 or ISO 9972:2015 - and clearly displays the measurement results for checking.
- A traffic light system guides users quickly through the required entries for a test report in accordance with the standards. It also clearly indicates when entries are missing or incomplete.
- Photos, e.g. of the building preparation or leaks, as well as PDF documents such as the reference value calculation, calibration certificates for the measuring devices, etc. can be added if required.
- Once the entries are complete, the test report is created with all entries (measurement series, leakage graph, photos, etc.) as a LibreOffice document.
- The test report can be edited in LibreOffice Writer, printed out via the printer, converted into a PDF document or into a Microsoft Word file.
- Further functions of the BlowerDoor Report: In order to work quickly and conveniently, you may save text modules such as customer or object data, store your own company logo or customize a test report template specifically to your requirements.

What are the requirements for the BlowerDoor Report?

The BlowerDoor Report software requires the Java Runtime Environment (JRE) and the free, open-source program LibreOffice to function on various platforms such as Windows, MacOS and Linux. A description of the installation can be found in these instructions (see chapter 3).

1.2 BlowerDoor Report program interface

The user interface of the program is clear and well structured. After selecting the required test standard, it is divided into sections with expandable and retractable subsections (see Fig. 1.1). Each of these has a graphical hint system with traffic light logic (red, yellow and green), which indicates whether the entries are complete. Tool tips also provide helpful information on what content is missing. Once all entries have been completed, the test report is automatically generated as a LibreOffice file at the touch of a button.

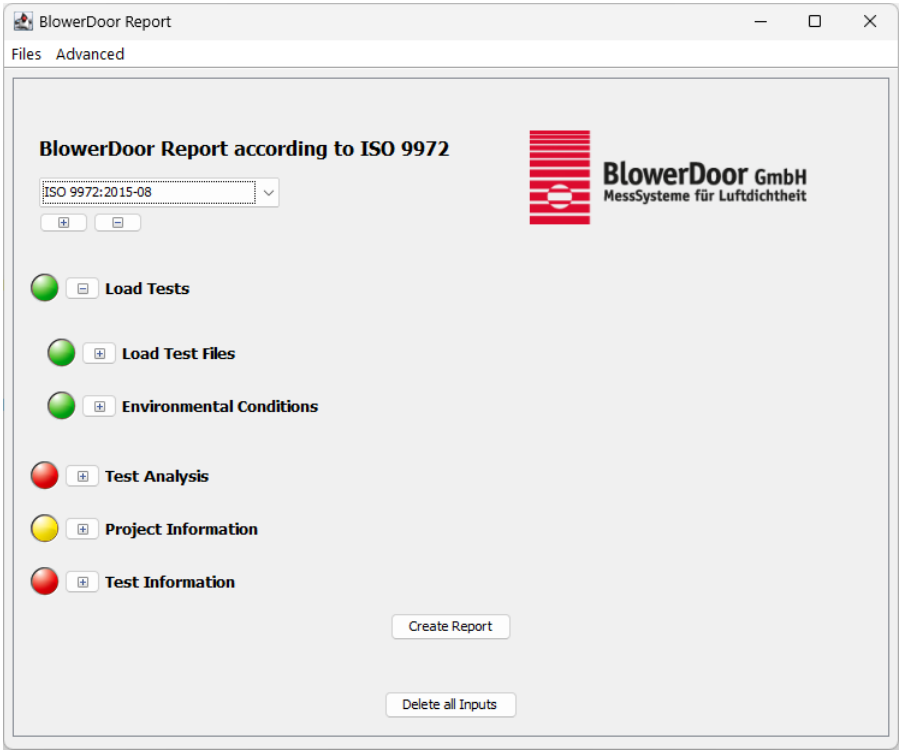


Fig. 1.1: User interface with traffic light logic

2 System requirements and specifications

2.1 System requirements

To work smoothly with the software, you need a laptop or computer with the following minimum requirements:

- Memory: at least 2 GB
- Screen resolution: at least 1024 x 768
- Operating system:
  - Windows 7 SP1 or later
  - Apple macOS 10.9 or later
  - Linux Kernel 2.6.18 or later

With the BlowerDoor Report, BlowerDoor GmbH relies on free and cross-platform technology and is therefore independent of commercial software from third parties.

The BlowerDoor Report works based on the Java Runtime Environment. The test report is issued to the free LibreOffice word processing program.

For the BlowerDoor Report to work, it is NECESSARY to install the Java Runtime Environment and the LibreOffice software once. → Installation is described in chapter 3.

3 Installing the Software

The following programs must be installed before opening the BlowerDoor Report for the first time:

- Java Runtime Environment version 11 or higher
- LibreOffice Writer version 6 or higher

Note:
To install the appropriate versions of Java Runtime Environment and LibreOffice, first determine whether your computer has a 32-bit or 64-bit version of Windows (see → chapter 6.4).

3.1 Installing the Java Runtime Environment

If the Java Runtime Environment is not yet installed on your computer, we recommend installing the following free and open version. Select one of the following links for the download, depending on the system type of your computer, then start the installation of the Java Runtime Environment by double-clicking on the installation file and follow the instructions.

- **Download-Link** to setup file of **Liberica JDK 17** for **64-Bit Windows**: https://download.bell-sw.com/java/17.0.10+13/bellsoft-jdk17.0.10+13-windows-amd64.msi
- **Download-Link** to setup file of **Liberica JDK 17** for **32-Bit Windows** https://download.bell-sw.com/java/17.0.10+13/bellsoft-jdk17.0.10+13-windows-i586.msi
- **Further Information** and setup files for users of **MacOS** or **Linux** can be found here: https://bell-sw.com/pages/downloads/#jdk-17-lts

Note:
If you are already using LibreOffice, you should use the same system type (32 or 64-bit) for the installation of the Java Runtime Environment as for LibreOffice.

3.2 Installing LibreOffice

Again, select one of the following links for the download according to the system type of your computer, then start the installation by double-clicking on the installation file and follow the instructions:

- **Download-Link** to setup file of L**ibreOffice** for **64-Bit Windows / 32-Bit Windows**: https://www.libreoffice.org/download/
- Advanced users of **MacOS** or **Linux** will find **further information** and setup files here: https://de.libreoffice.org/download/

Note:

LibreOffice was developed and published by the non-profit foundation “The Document Foundation”.

3.3 Saving/storing the BlowerDoor Report file on the computer

After the installation of Java runtime environment and the LibreOffice software have been completed, please copy the file **“BlowerDoor_Report_Version.jar”** to your computer; best choice is to store it on the desktop!

3.4 Updating the BlowerDoor Report software

After the successful installation of a Java runtime environment and the LibreOffice software as described above, for updating the BlowerDoor Report software on the same computer, it is only necessary to **exchange the “BlowerDoor_Report_Version.jar” file** with the current version (version number). The installations under Chapters 3.1 and 3.2 do not need to be carried out again.

4 Setting up the BlowerDoor Report software

After installing the software, we recommend

1. creating a folder structure for storing all files required for creating the test report (for suggestions, see → Chapter 4.1),
2. define a storage location for internal program auxiliary files; the query for the storage location is made automatically when the BlowerDoor Report is opened for the first time → chapter 4.2)

4.1 Creating a folder structure for storing internal program help files and for storing files related to measurement projects

To work quickly and smoothly with the program, it is recommended to create a main folder for your measurement projects, for example “BlowerDoor_projects”.

Various subfolders can then be created in this folder (→ Fig. 4.1:); for example:

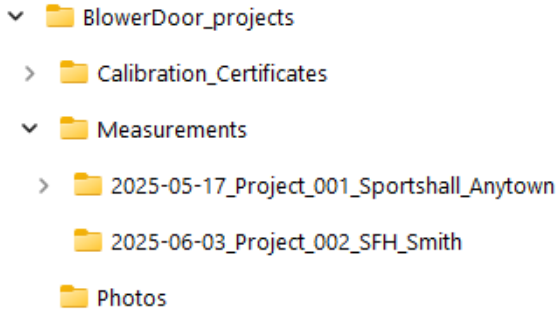


Fig. 4.1: Sample folder structure

You might store the certificates of your measuring devices in the „Calibration_Certificates“ folder. Separate subfolders can be created in the “Measurements” folder for each air permeability test, in which test files, photos etc. and the test report for the project can be saved.

4.2 Starting the BlowerDoor Report for the first time

After creating the folder structure on your computer, double-click on “BlowerDoor_Report_*Version*.jar” to open the program.

The very first time you open the program, you will be asked for a storage location for program files (e.g. customer data, etc.); → next Fig. 4.2.

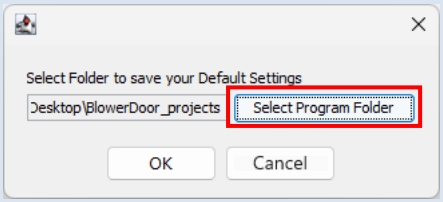


Fig. 4.2: Select folder for storing program files, customer data etc. at the first program start

We recommend selecting the “BlowerDoor projects” folder as described in section 4.1 (→ Fig. 4.1:). The program then creates the “bd_files” folder there.

The setup of the program is now complete, and you can start creating test reports.

Note:

If the BlowerDoor Report (version number) is updated, i.e. after replacing the “BlowerDoor_Report_Version.jar” file in the same folder/at the same place as the previous version, both the link to the “bd_files” folder and to any inserted user templates are retained without the path having to be specified again. The current BlowerDoor report accesses the program files previously stored there and saves new program files there.

.

5 The BlowerDoor Report

The BlowerDoor Report is a program that supports users in creating standard-compliant test reports for air permeability measurements in accordance with ISO 9972:2015 or German DIN EN ISO 9972:2018.

The following sections describe how the program operates and how it can be used.

5.1 Opening the BlowerDoor Report

Fig. 5.1: Program-icons according to Java-version

Start of program

Start the “BlowerDoor_Report_Version.jar” by double-clicking on the program icon (Fig. 5.1). The start screen opens (Fig. 5.2).

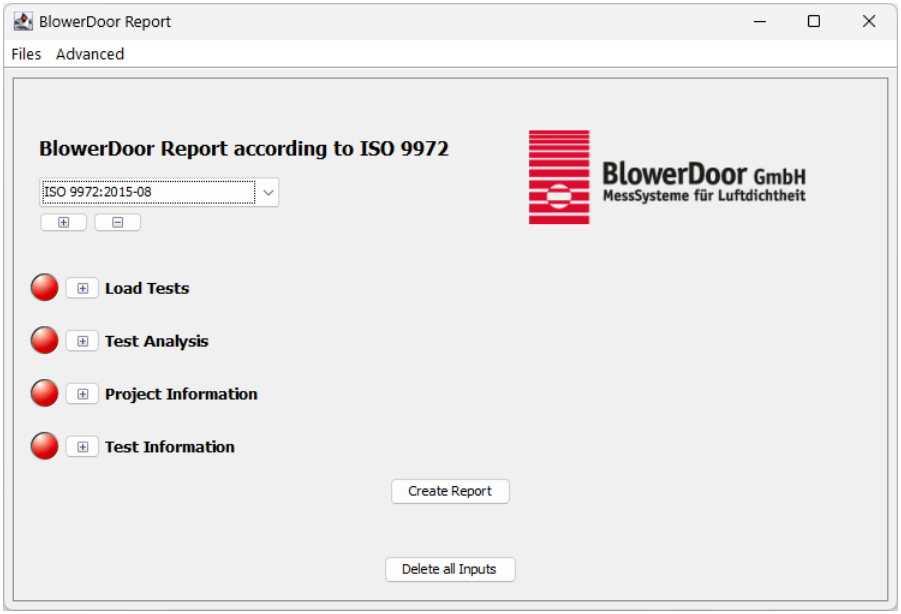


Fig. 5.2: BlowerDoor Report start screen

5.2 Elements of the BlowerDoor Report

This section describes the most important elements of the BlowerDoor Report.

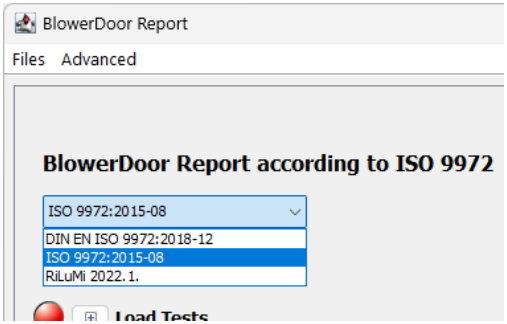


Fig. 5.3: Scroll menu to select the standard

Drop-down menu for selecting the test standard

At the beginning, the test standard (ISO 9972:2015 or German DIN EN ISO 9972:2018) according to which the test report is to be created is selected in the drop-down menu at the top of the BlowerDoor report.

ISO 9972: 2015 is preset. The BlowerDoor Report always saves the last selection.

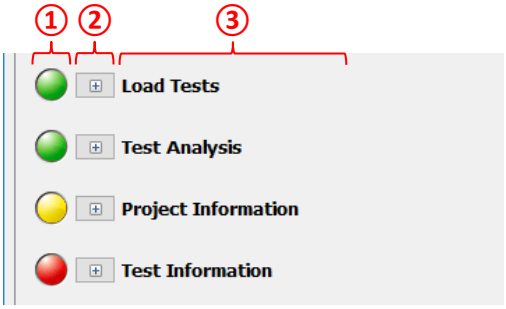


Fig. 5.4: Main sections with traffic light logic and buttons for detailed section view

Sections

Below the drop-down menu for the standard, the BlowerDoor Report shows **four main sections**. Each section contains the following components:

① Traffic light symbol

② Button to show/hide the section contents

③ Section header

Fig. 5.5: Colors of traffic light logic

Traffic light symbols

The **traffic light symbols** indicate whether entries are required. Depending on the status of the entries, the traffic light is set to green, yellow or red.

- Green: entries are complete
- Yellow: current entries are incomplete
- Red: no entries available or important entries are missing

Fig. 5.6: Show section content

Fig. 5.7: Hide section content

Fig. 5.8: Show/hide all section contents

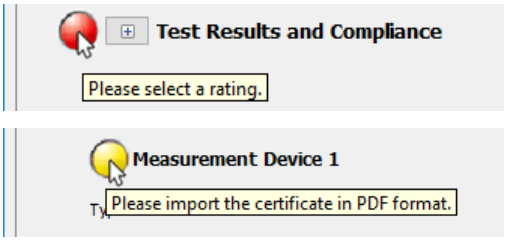


Fig. 5.9: Two examples for tooltips

The **plus and minus buttons** are used to **show and hide the section contents**.

- Click the plus button to show (Fig. 5.6).
- Click on the minus button to hide (Fig. 5.7).

- the two **very top** plus and minus buttons (Fig. 5.8) are used to show or hide all sections simultaneously and completely.

Tool Tips

If the traffic light is not green, the reason for this may be shown as a tooltip. To find out, move the mouse cursor over the traffic light symbol until the information field appears.

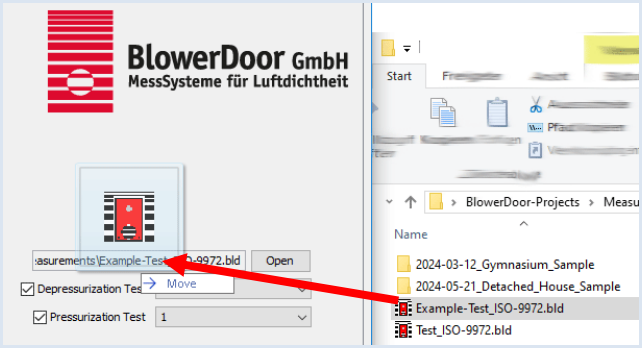


Fig. 5.10: Drag and drop files into the BlowerDoor Report

Drag-and-drop

Measurement files, photos and PDF documents can be dragged from the open file manager/Explorer into the corresponding input field using the **drag-and-drop function**. To do this, click on the file in Explorer with the left mouse button, hold down the mouse button, move the file to the input field in the BlowerDoor Report and drop the mouse button.

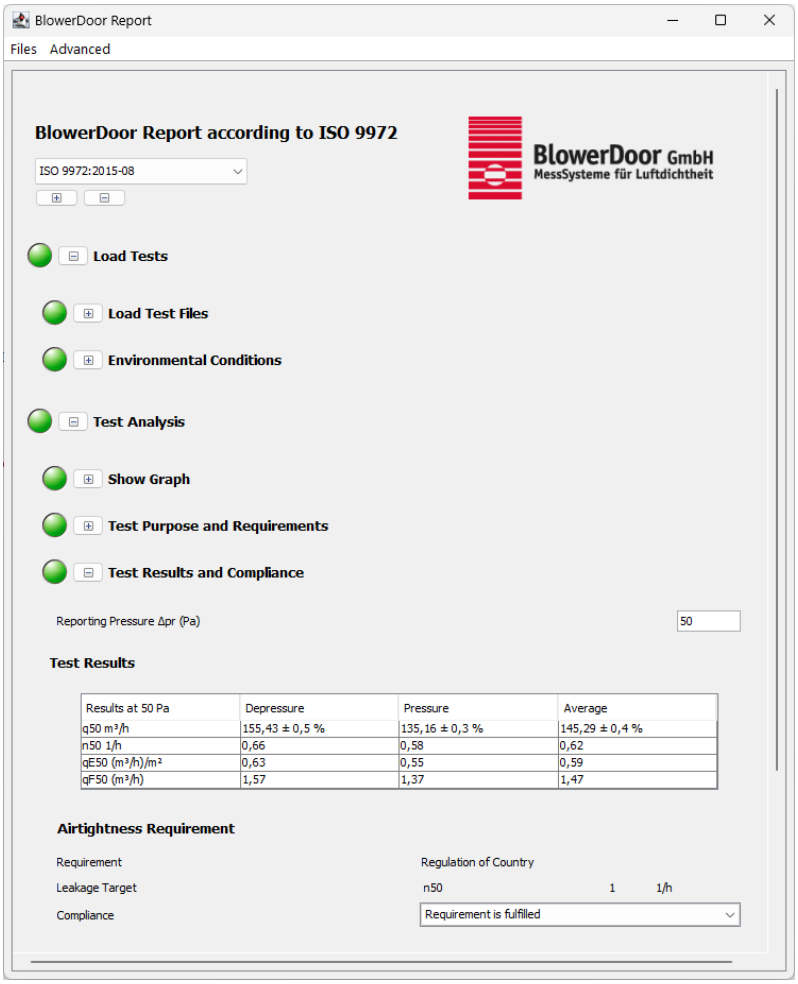


Fig. 5.11

Display of the program on different screens

With different screen sizes and resolutions, the display changes with the window size. In order to be able to use the BlowerDoor Report easily, it is advisable not to make the program window too wide, as otherwise the labels and the corresponding input fields will be very far apart.

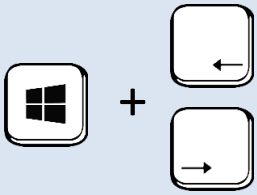


Fig. 5.12

Tip:

To display the BlowerDoor Report and Windows Explorer side by side on the screen, you have the following option: First select one of the windows, then hold down the Windows key on the keyboard and use one of the arrow keys to determine the desired half of the screen (left or right) for the currently open window. Then position the other window in the same way.

5.3 Creating the test report

The following chapters describe how the test report is prepared in accordance with the standard.

5.3.1 Selection of the test standard

The drop-down menu (Fig. 5.13) shows the test standards that are currently available in the BlowerDoor Report.

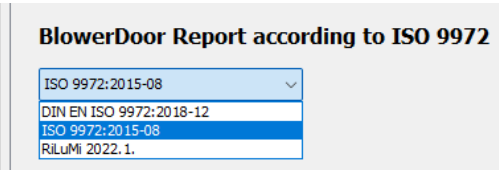


Fig. 5.13: Select test standard as the basis for the test report

First select the test standard according to which the report is to be created:

- ISO 9972:2015
- DIN EN ISO 9972:2018.

If ISO 9972:2015 is selected, the BlowerDoor Report calculates the unweighted leakage rate.

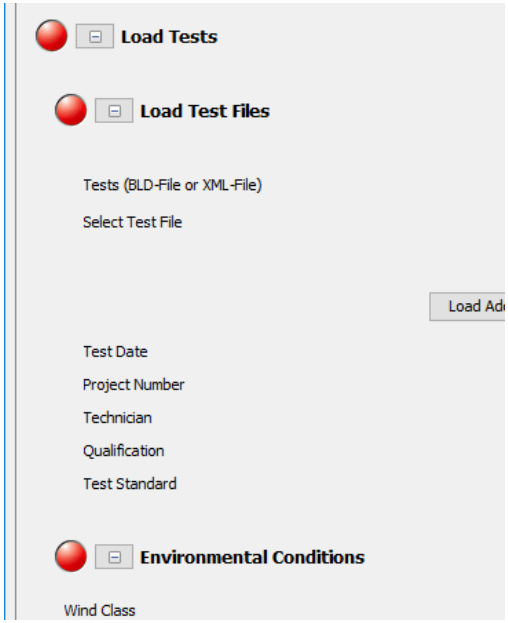
If DIN EN ISO 9972:2018 is selected, the leakage rate is calculated weighted according to the national annex of German standard version. In addition, the error calculation is carried out according to its specifications.

The test standard can still be changed after the entries have been completed and before the test report is generated.

The program automatically saves the last selected test standard and opens in this mode the next time the BlowerDoor Report is opened.

5.3.2 Loading test files

After selecting the test standard, the test files can be imported in the “Load Tests” section.
The test files stem from TECTITE Express 5.1, TECLOG 4 or from the TEC Auto Test.
In this section it is also possible to adjust the environmental conditions (e.g. wind).



First open the section „Load Tests“.
“Load tests” is divided into two areas:

- Load Test Files
- Environmental Conditions

The area „Load Test Files“ displays the input box „Tests (BLD-File or XML-File)“

Test files recorded with TECTITE Express 5.1 or TECLOG 4 (extension .bld) or tests recorded with the TEC Auto Test app (extension .xml) can be imported here.

The shortest way to do this is to use the drag-and-drop function by dragging the file into the box (see Fig. 5.15 below).

Fig. 5.14: Section „Load Tests“

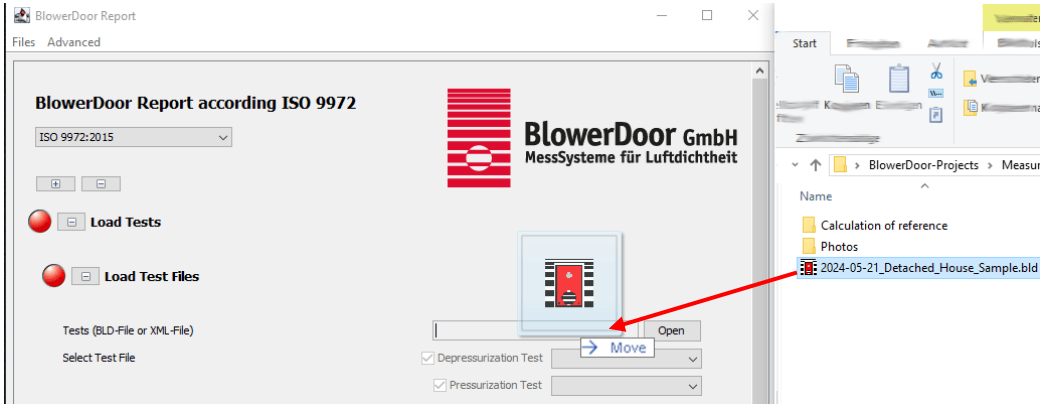


Fig. 5.15: Drag and drop the test file from the Explorer into the input box for the test file

Once the test has been imported, the contents of the test file are displayed on the BlowerDoor Report interface. The color of the traffic light symbols, green, yellow or red, immediately indicates whether entries are still required in the sections and subsections. Green indicates that the necessary input fields have been completed.

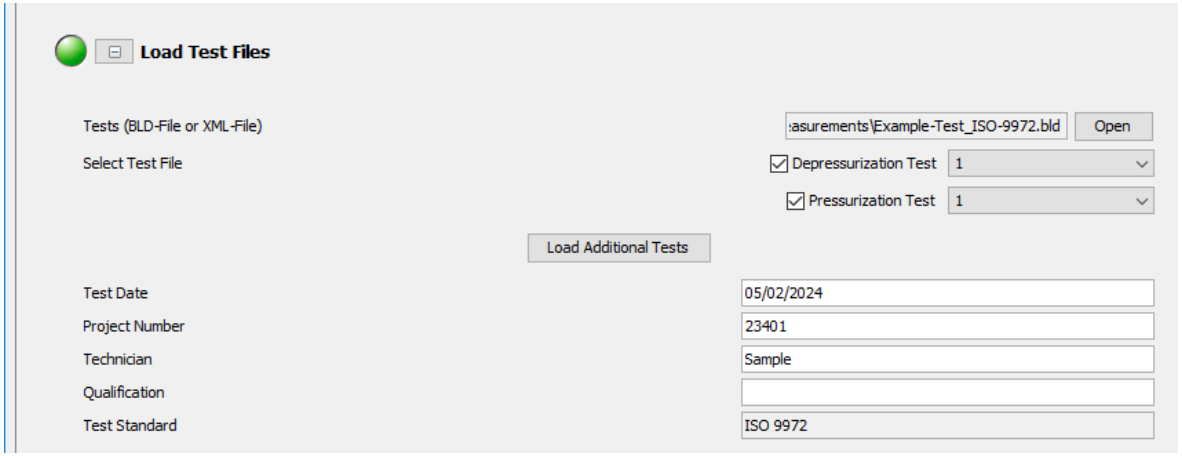


Fig. 5.16: User interface after importing test file

Additional options:

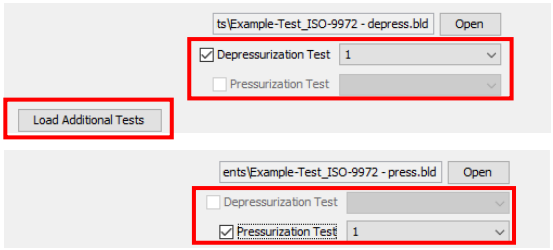


Fig. 5.17: Merging of test files

If the depressurization and pressurization tests were made in separate files, they can be merged and analysed in the BlowerDoor Report. To do this, click on “Load Additional Tests” and select the desired file.

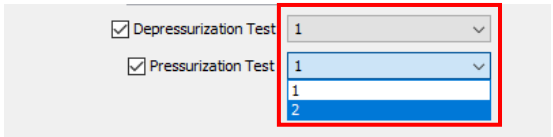
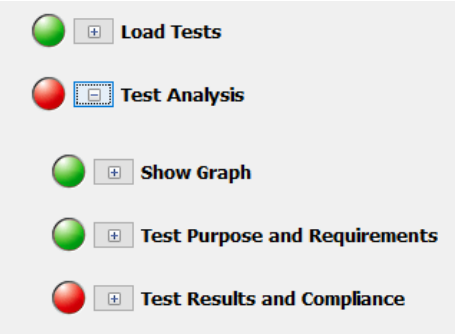


Fig. 5.18: Selection of one test from several tests of the same kind from a single test file

If there is more than one depressurization or more than one pressurization test in a file, the desired test can be selected via the drop-down menu.

5.3.3 Test Analysis

Following the loading of the tests, the leakage graph and the measurement results can be checked and rated in the section “Test Analysis”.



The section “Test Analysis” is divided into three subsections:

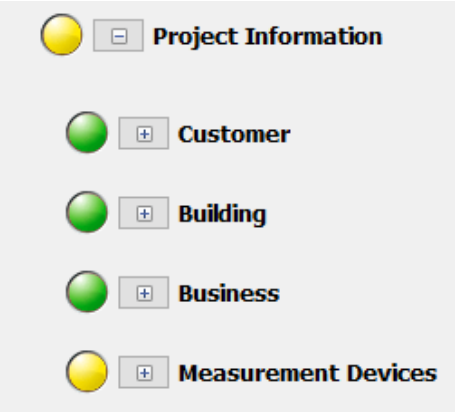
- Show Graph
- Test Purpose and Requirements
- Test Results and Compliance

Fig. 5.19: Section Test Analysis

- **Show Graph**
  Here the program shows the graph with the parameters Air Flow Coefficient C_{env}, Air Leakage Coefficient C_L and Air Flow Exponent n of the leakage curve for checking purposes.
- **Test Purpose and Requirements**
  If the purpose of the measurement and the airtightness requirement are not yet included in the measurement files, they can be entered here.
- **Test Results and Compliance**
  In addition to displaying the measurement results (air permeability, air change rate, etc.), it is also possible to evaluate the measurement in comparison with the requirements for building airtightness.

5.3.4 Project Information

Information on the building, customer, business and measurement devices is summarized in the “Project Information” section. If these entries are contained in the test file that was loaded, this section is primarily used to check the values entered. Adjustments can also be made here if necessary.



The section „Project Information“ is divided into four subsections:

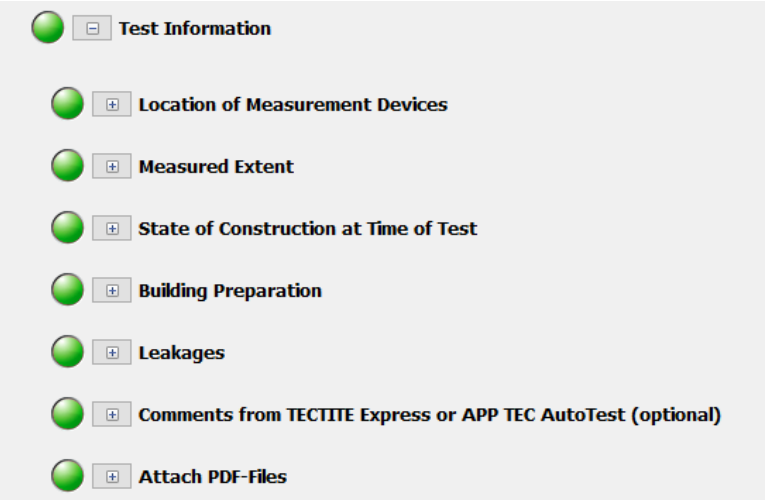
- Customer
- Building
- Business
- Measurement Devices

Fig. 5.20: Section Project Information

- **Customer**
  This section contains the customer data with address, telephone number, etc. If this data is already contained in the test file, the details can be checked, adjusted or saved for later measurements at this point.
- **Building**
  In addition to the address of the tested building, this section contains the reference values of the building or part of the building as well as information on the heating, air conditioning and ventilation system. The entries are also taken from the test file here. They can be checked, adjusted or saved as a template for a subsequent measurement.
- **Business**
  This section contains the address data of the measurement team. As before, this data is taken from the test file and can be checked, adjusted and saved here for future measurements.
- **Measurement Devices**
  All measurement devices used are stored in the “Measurement devices” section with model name, serial number and calibration date. In addition, the associated calibration certificates should be added as a PDF file via the corresponding input field in order to document the quality of your measurement devices. They will be included in the subsequent test report. Measurement devices that are already included in the test file are automatically imported into the BlowerDoor Report. The data for each measurement device can be customized and saved as a template for future measurements (see → Chapter 5.4).

5.3.5 Test Information

For a standard-compliant test report, it is necessary to document the state of construction of the building at the time of test, the location of the BlowerDoor measurement devices, the building preparation and the leakages found. Furthermore, a comprehensible calculation of the reference values has to be attached. The section „Test Information“ (Fig. 5.21) will help you with all the necessary entries.



The section „Test Information“ is divided into seven subsections.

Fig. 5.21: Section Test Information

- **Location of Measurement Devices**
  In this section, you can describe the location of the measurement devices and add a photo. The description and the photo(s) are inserted in the test report under the headline ‘Location of the BlowerDoor Measuring System’.

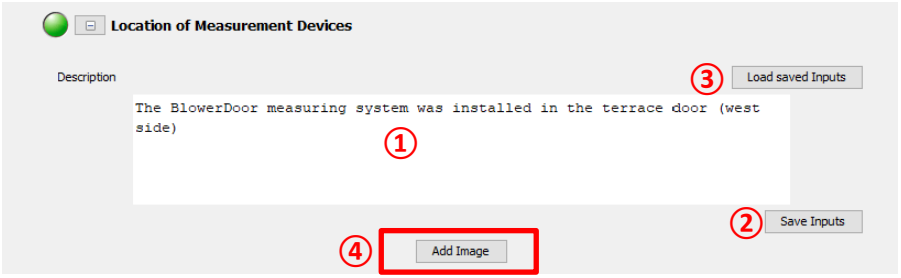


Fig. 5.22: Options for describing the location of the measurement devices

- Type the text in the text field under ‘Description’ ①.
- The text can optionally be saved for future measurements. To do this, click on the ‘Save Inputs’ button ② and save the text module in the following window.
- If a text module has already been saved in a previous test report, it can be loaded into the text field using the ‘Load saved Inputs’ button ③.
- It is additionally possible to attach a photo (in JPG or PNG format).

Inserting one or more images

Click on the ‘Add image’ button in the corresponding sub-section (see ④ Fig. 5.22 top). The following area will then open:

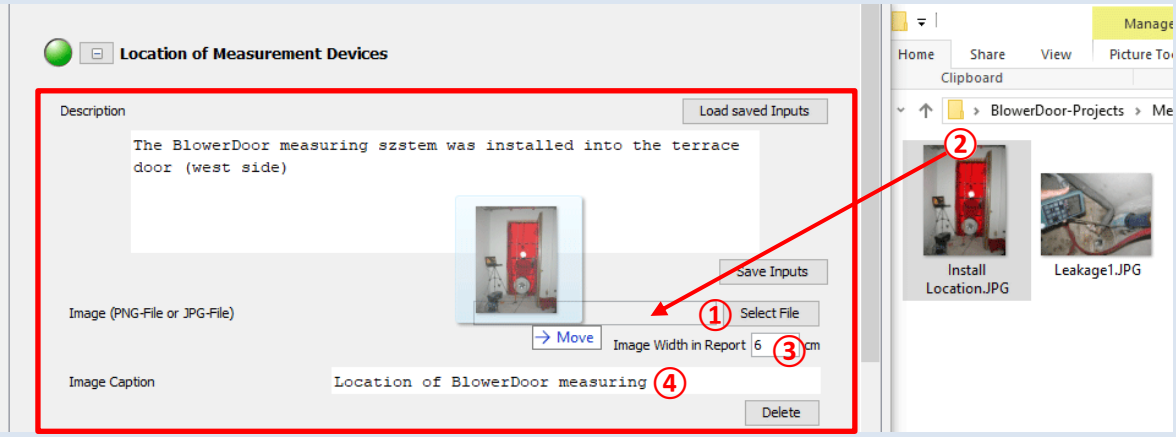


Fig. 5.23: Area for importing a photo with caption

A photo can be imported using the “Select File” button ① or the drag-and-drop function ②. Photos in JPG or PNG format are possible. The image width for the test report to be generated can be set in the “Image Width in Report” field ③.

If a caption is to be added to the photo in the test report, this can be entered in the “Image Caption” field ④.

Please avoid special characters such as &, #, ^ etc. in the file names of photos, PDF files etc.. These can lead to problems under certain circumstances.

- **Measured Extent**
  All parts of the building that were included in the test can be documented in this section. It is also possible to insert photos here (see Fig. 5.22 and Fig. 5.23). The description and photos are added to the test report with the heading ‘Measured Extent’.
- **State of Construction at Time of Test**
  In this section, the condition of the building at the time of the test can be described and documented with photos (see Fig. 5.22 and Fig. 5.23). The description and photos are included in the test report with the heading ‘Condition of Building at Time of Measurement’.
- **Building Preparation**
  Temporary seals and the condition of all openings during the measurement are listed in the ‘Description’ field. It you may insert photos (see Fig. 5.22 and Fig. 5.23). Text and photos appear in the test report with the heading ‘Building Preparation’.
- **Leakages**
  The leakages detected at a envelope pressure difference of 50 Pa can be listed in the ‘Description’ field. It is also possible to insert photos here (see Fig. 5.22 and Fig. 5.23). The description and photos are added to the test report with the heading ‘Leakages’.
- **Comments from TECTITE Express or APP TEC AutoTest (optional)**
  All comments entered and saved in TECTITE Express during the on-site measurement appear in the ‘Further Comments’ field. These texts will appear in the test report with the heading ‘Comments’.
- **Attach PDF-Files**
  The comprehensible calculation of the reference values can be inserted into the BlowerDoor Report as a pdf file. After the test report has been created, it appears in the text document with the heading ‘Reference Values’.

5.3.6 Creating a test report

Finally, the BlowerDoor Report collates all entries, files, photos and PDF documents and creates an editable text document in LibreOffice.

Fig. 5.24: „Create Report“ button

To generate the test report, click on the “Create Report” button.

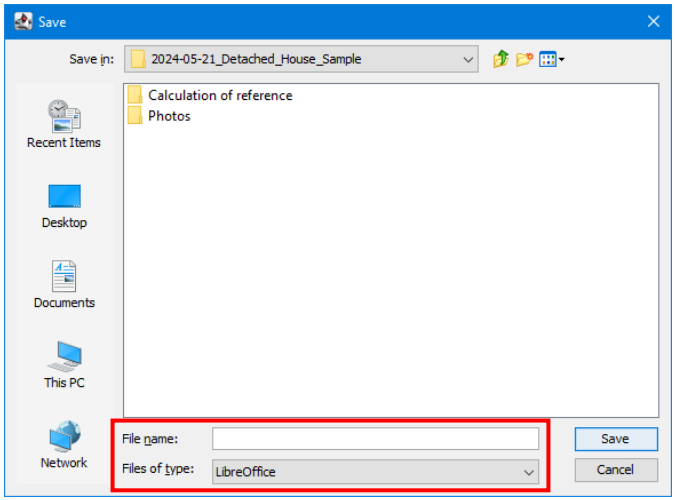


Fig. 5.25: Storing the test report

You will then be asked to specify the storage location and file name and to save the file by clicking the “Save” button.

The report is saved as a LibreOffice document with the extension “.odt” and opened immediately.

5.3.7 Checking the test report in LibreOffice, printing, creating a PDF document

After clicking on the “Create Report” button in the BlowerDoor Report, the test report is automatically opened in LibreOffice.

Before printing or creating a PDF document, check whether the entries are complete and delete any superfluous headings or entries.

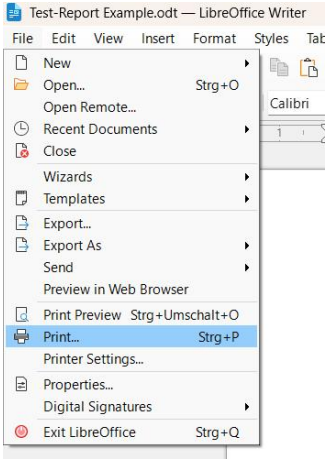


Fig. 5.26: Printing Test Report

Printing the Test Report

Select → File → Print from the menu to print the test report from a printer.

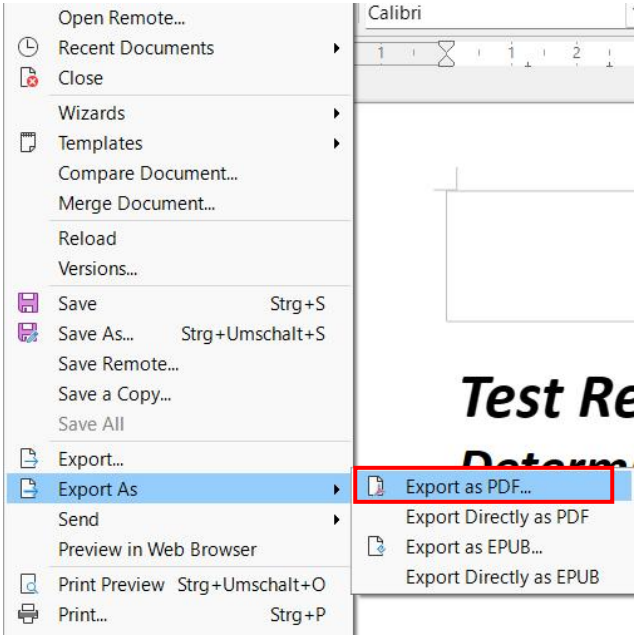


Fig. 5.27: Generating Report as PDF document

Generating a PDF document

To create a PDF document, select “Export as” from the menu→ File → „Export as“ and → „Export as PDF …“.

5.3.8 Editing the test report with Microsoft Word

You may save and edit the text document as a Microsoft Word document.

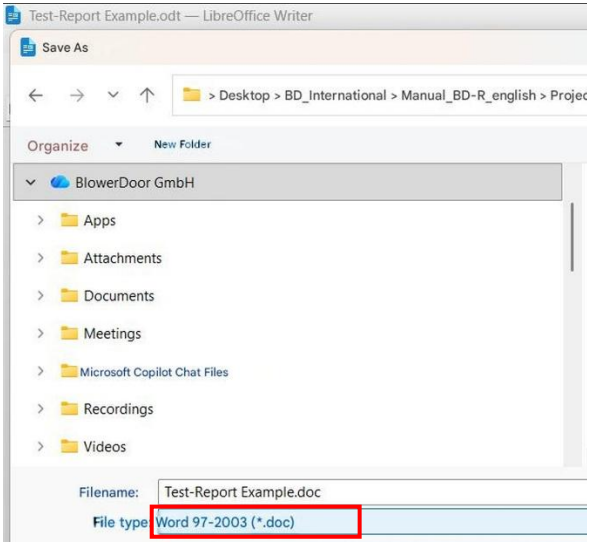


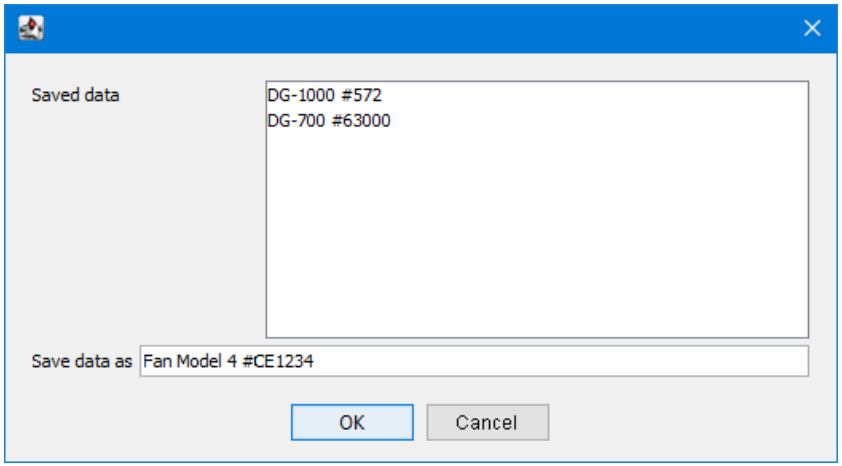
Fig. 5.28

Once the test report has been created and opened in LibreOffice, proceed as follows:

- Click at LibreOffice menu on → File → Save as …;
- At „File of type“ select “Word 97-2003 (*.doc)“ file type:
- Then save the test report with the desired file name and close it.

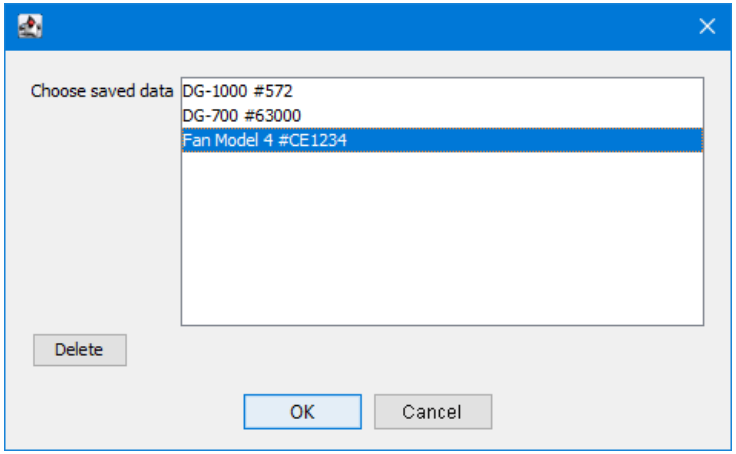
The test report gets the extension “.doc” and can now be opened and edited with all current Microsoft Word versions.

5.4 Saving contact data, measurement devices, text modules, etc.



Data that you use frequently (e.g. clients, measuring devices, text modules, ...) can be saved as a template by clicking on Save Inputs and loaded for further test reports by clicking on Load saved Inputs

Fig. 5.29



The templates can be overwritten and updated by selecting the file name again

Fig. 5.30

5.5 Saving a Project (optional)

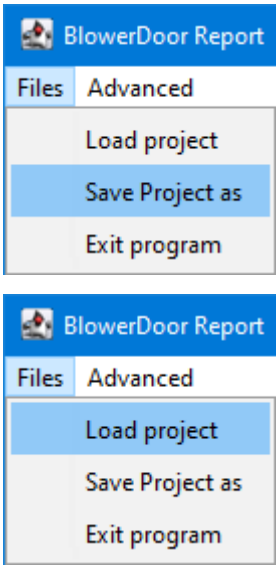


Fig. 5.31

Projects started in the BlowerDoor Report can be saved temporarily. Therefore, go to the BlowerDoor Report menu → „Files“ → „Save Project as“. You will be asked for the storage path and file name.

The stored project is saved with the extension “.bdpr”.

The saved projects can be opened from the BlowerDoor Report via the menu → „File“ → „Load Project“.

Important Note:

Direct entries and **the paths** to the measurement files, photos and PDF documents are saved in the project file, but **not** the contents of these files. If the integrated files are moved or deleted, error messages may appear.

5.6 Insert Company Logo

The BlowerDoor Report offers the option of inserting your own company logo instead of the BlowerDoor logo. Open the BlowerDoor Report and proceed as follows:

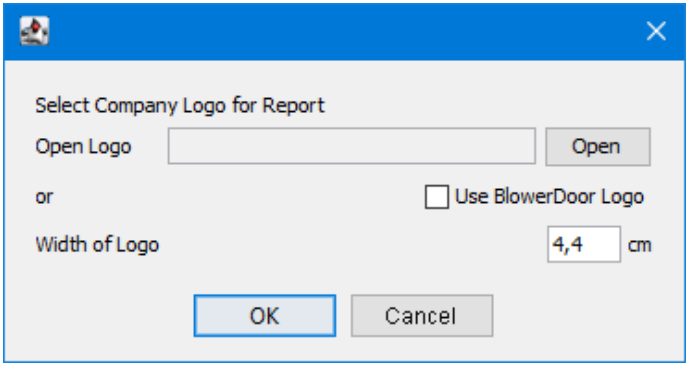


Fig. 5.32

Click on “Advanced” in the menu.

Next, click on the “Company logo” menu item.

Drag-and-drop (Fig. 5.10) your logo (in **JPG or PNG format**) into the „Open Logo“ field.

Select the desired width in the “Width of Logo” field.

The inserted logo is now loaded by default.

5.7 User templates for the BlowerDoor Report

If you would like to make individual adjustments to the test report templates of the BlowerDoor Report, please contact BlowerDoor GmbH or take a look at our online shop

6 Further operating instructions

6.1 Appearance of the test report

The BlowerDoor Report creates the test report using the LibreOffice word processing program, LibreOffice Writer. If LibreOffice Writer is not set as the default application for ODT-files and the test report is opened in another word processing program, there may be display problems.

6.2 Setting LibreOffice as default program

- To open „odt" files (ODT-files) with LibreOffice by default and correctly display the test reports generated by BlowerDoor Report, proceed as follows:
- Make sure the current test report (ODT-file) is closed.
- In the folder where the test report is stored, right-click on the ODT-file and select "Open with..." and then "Choose another app" while holding down the mouse button.

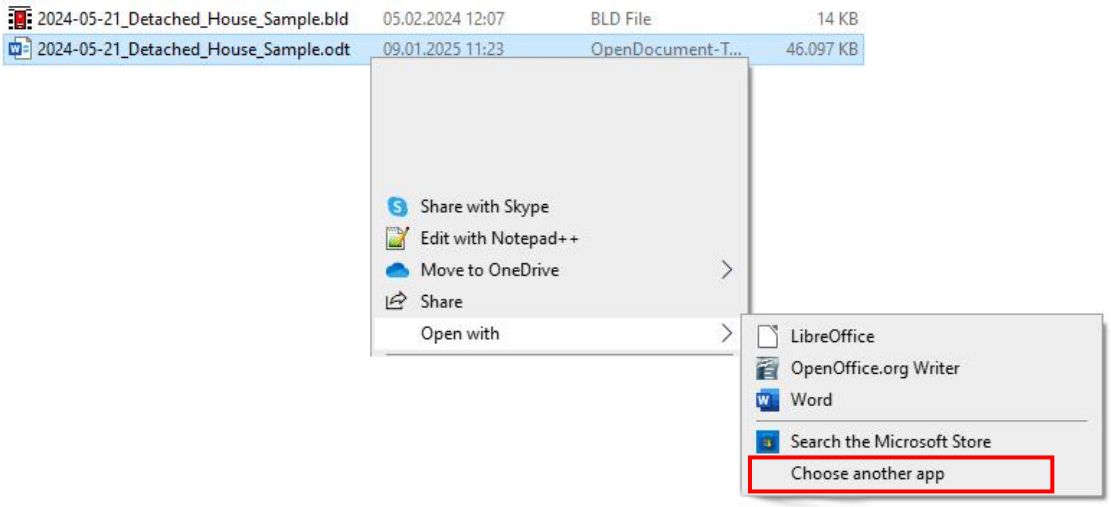


Fig. 6.1

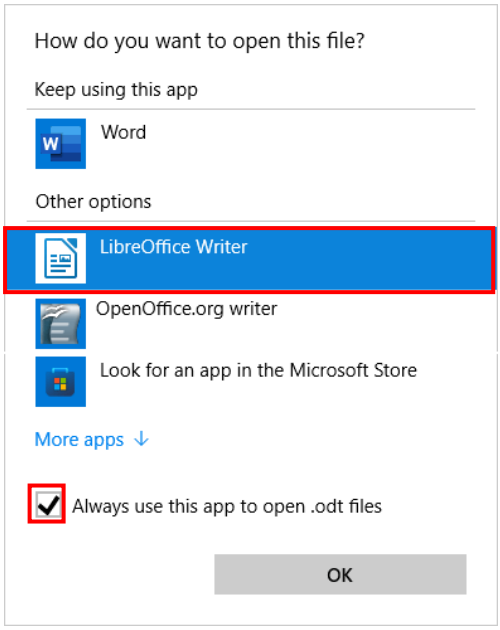


Fig. 6.2

- Select LibreOffice Writer and set the checkmark next to “Always use this app to open ”.odt-files.

6.3 BlowerDoor Report does not open when double-clicked

With certain versions of Microsoft Windows, it is possible that the BlowerDoor Report cannot be opened by double-clicking. This issue can be resolved using the “Jarfix” tool.

Please download the Jarfix.exe program to your computer using the following link and run it by double-clicking on it: https://www.heise.de/download/product/jarfix-41657

If the BlowerDoor Report cannot be opened on MacOS and an error message appears instead, you can obtain instructions from Apple Support under the heading ‘If you want to open an app that has not been authenticated or comes from an unknown developer’ on how to open unsigned and authenticated software: https://support.apple.com/en-us/102445.

6.4 Determining the system type of a Windows computer

To install the appropriate versions of Java Runtime Environment and LibreOffice, find out whether your computer has a 32-bit or 64-bit version of Windows (see Fig. 6.3 to Fig. 6.4).

To find out the system type of your Windows computer: 32-bit or 64-bit version

Windows 11, Windows 10, Windows 8 und 8.1

Fig. 6.3

Select the Windows Start button and then launch
→ Settings → System → About.
On the right-hand side you will find the **System type** listed below **Device specifications**.

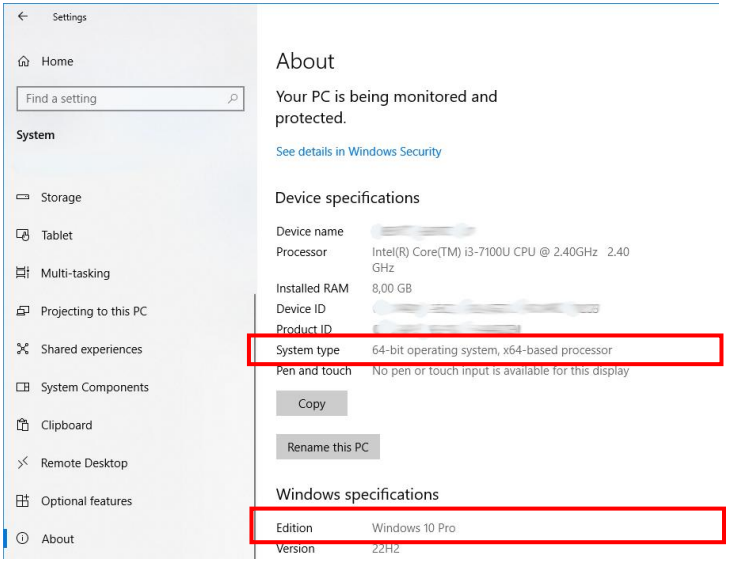


Fig. 6.4: Example of the device specifications of a Windows computer.

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