

FDD – Document Designer

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Basic Documentation – Overview

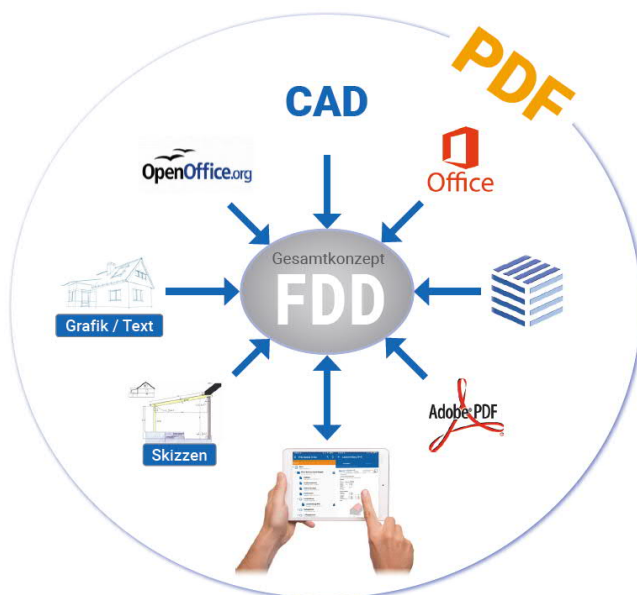
In addition to the individual program manuals, you will find basic explanations on the operation of the programs on our homepage www.friilo.com in the Campus-download-section.

Overview

Document Designer makes the organization of your project documents very easy and comfortable. FDD allows you to supplement the output of structural calculations from FRILO applications with documents in other formats from external applications. With the help of practice-oriented functions and comprehensive layout options, you can combine various documents from different sources in FDD to a complete documentation on PDF basis in almost no time at all.

Properties

- Flexible chapter structures
- Freely definable page headers
- Automatic page numbering
- Fixable page numbers
- Freely selectable order of partial documents
- Comprehensive layout options for FRILO outputs
- Freely definable texts in the documents and FRILO items
- FRILO outputs can be reduced or extended via display or hide functions
- You can launch external applications and edit external documents by double-clicking on the partial document in FDD.
- Direct integration of
 - FRILO items
 - MS office documents
 - Open office documents
 - Graphics
 - PDFs
 - ... and all other formats that support background printing.
- Integrated external applications can be started by double-clicking on the partial document and the content can be edited.

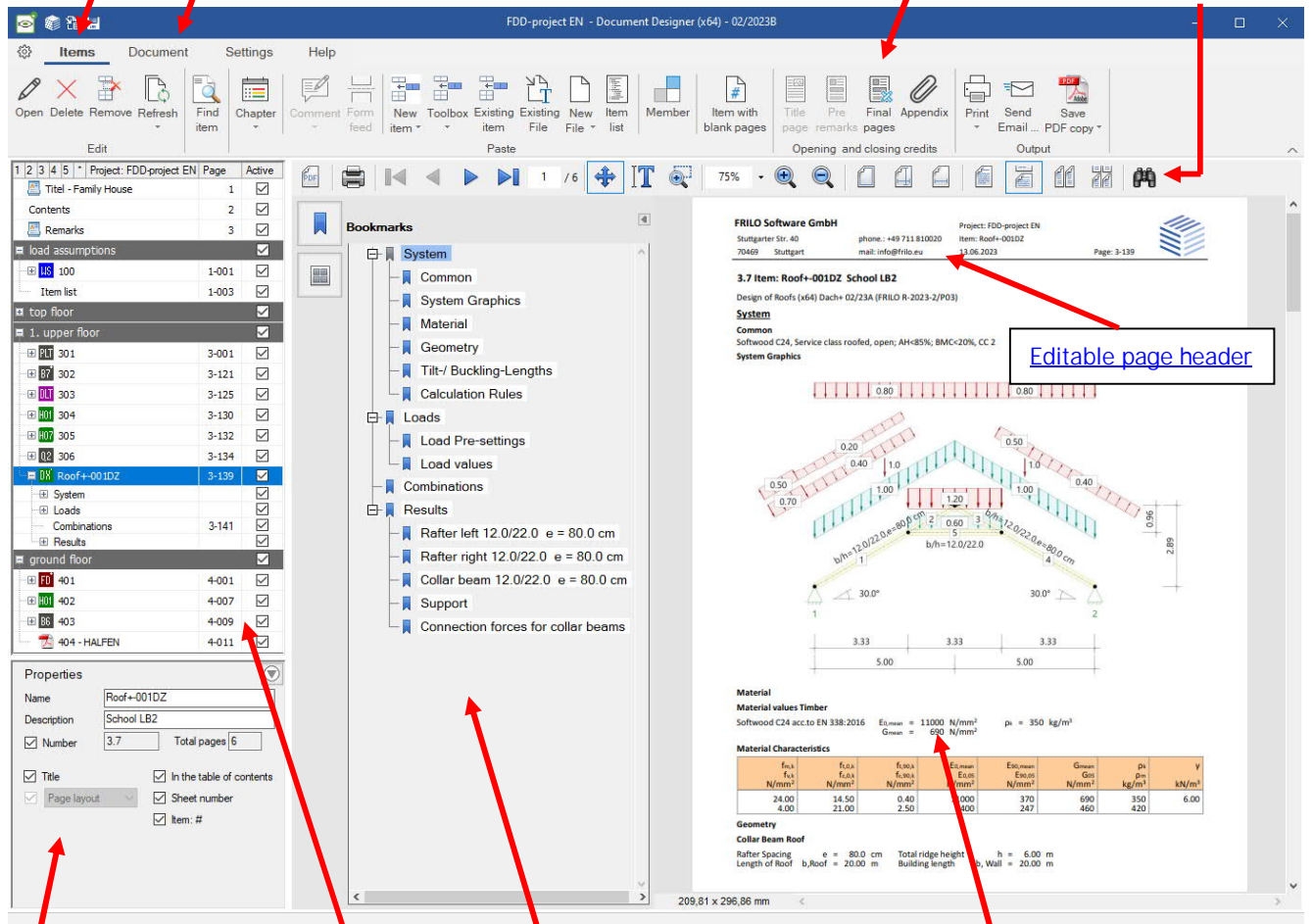


User interface

Tab [Items](#) / [Document](#) / Settings / Help

Application toolbar

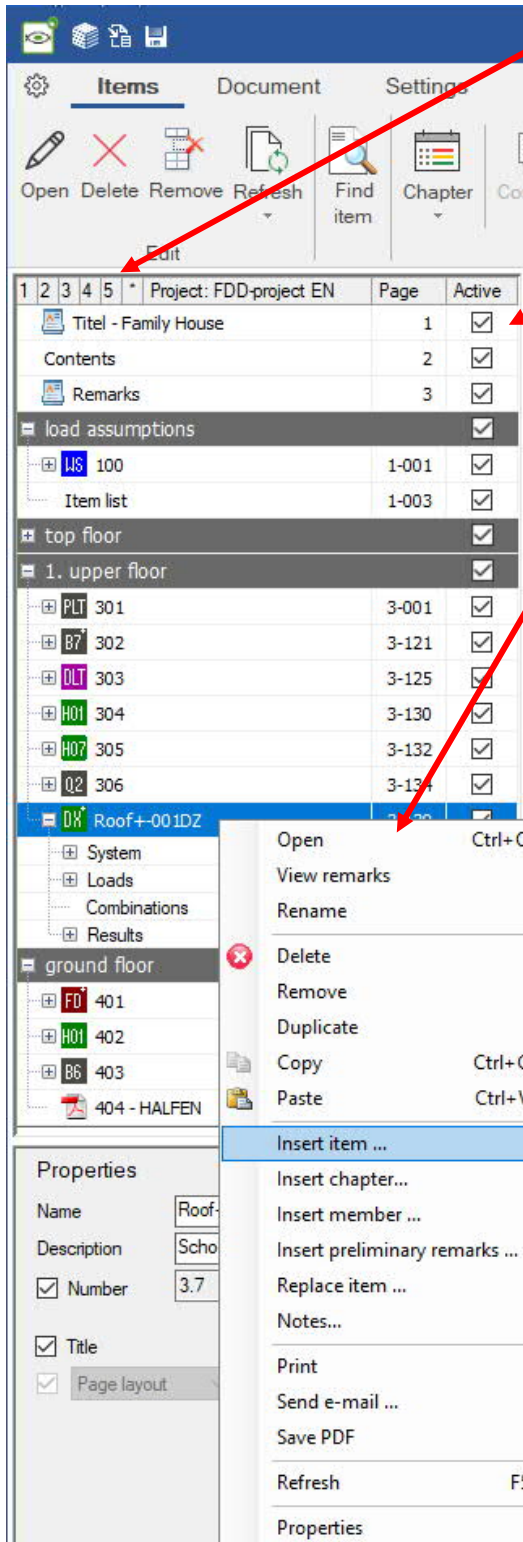
PDF toolbar



Editable page header

Item-/pageproperties / Document structure Thumbnails/bookmarks Document pages in final layout

Document structure



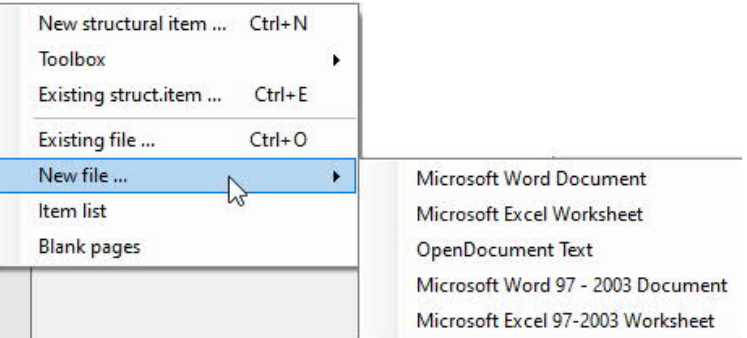
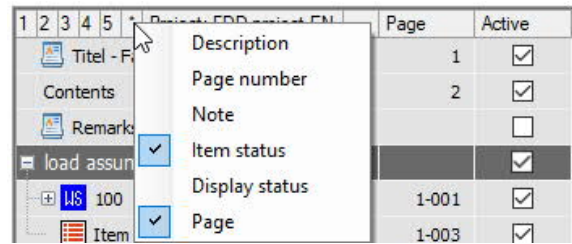
Display/hide of the hierarchy levels 1 - 5, * = all

Active: Display/hide of individual partial documents or entire chapters

Move entries upwards or downwards via drag & drop

Context menu accessible via the right mouse button

Note: with the context menu (right mouse button) for the upper row, the individual columns can be shown or hidden.



Quick Start function

The following example will briefly demonstrate how to create a project document with the help of FDD.

First, start FRILO Software via the corresponding icon on your Windows® user interface. Start the FRILO Control Center via the corresponding icon FCC on the FRILO Software window.



*Note: The work with FCC is described in the documentation [FCC_eng.pdf](#).
In order to prepare a project document you must set up a project with at least one item first or select an existing project. You do this in FRILO Control Center by following the steps described below.*

First steps in FRILO Control Center FCC

1. Click in [FCC](#) on ▶ Folder ▶ New folder and specify a folder name. We are going to set up a project in this folder in the next step.
2. Click on the "Projects" tab and select the option "New project". Enter a name for the project. The empty project is now shown in the [project list](#) of FCC. We are going to set up an item in the next step.
3. Click on the "Items" tab and select the option "New item". A selection window with all available FRILO applications is shown. Select an application and launch it. For our little exercise, define a small system, save it under an item name and exit the application. The newly created item is shown in the [item list](#) of the previously created project.

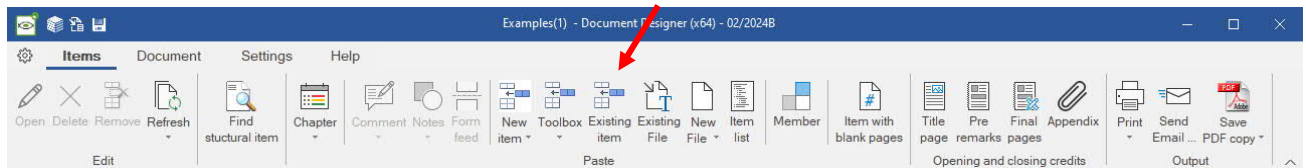
Opening/creating a document

To create a new document or open an existing one, launch Document Designer by double clicking on the desired project ([project list](#)) in the FRILO Control Center FCC.

Document Designer displays an empty document with the [standard page header](#) (with your company data) and the entry "Contents".

Inserting an item

Select in Document Designer the "Items" tab and click to Existing item.



A window with a list of available items in the selected project is displayed. Select the desired item and click to "OK".


FDD launches the selected items/applications, prepares the output data, formats them and inserts them into the documentation. The table of contents is created and updated automatically.



Tip: To insert several items into the document:

Keep the Ctrl key pressed and select the desired items. Click to "OK" subsequently.


Select several successive items by keeping the "Shift" key pressed and clicking to the first and last item.

The first document has been set up and you can exit Document Designer.

The corresponding item is marked with a document icon  in the first column of the item list in FCC. Thanks to this icon, you can see at a glance which items have already been inserted into the project documentation.

Items										
D	P	O	N	K	M	Name (23)	Description	Program	Created	Changed
	OK					Roof+-001DZ	School LB2	Dach+	19.03.2021 10:50	13.06.2023 10:22

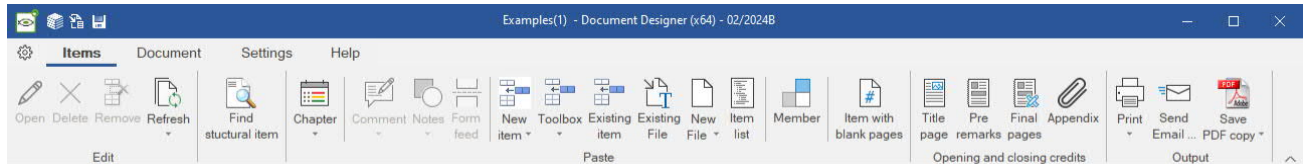
The document icon is displayed after the item has been integrated into the project documentation.

If you want to re-open the document in order to add further items, define chapters, insert graphics or word documents or adjust the page header and layout to your requirements, double click on the project or the document icon  in the item list.

This example has given you a first overview on the functioning of Document Designer. The other functions are described in the following chapters.

Items

The Items tab offers functions for the editing/inserting of items and partial documents. You can find other - rarely used - functions in the [context menu](#).



For each static document, you can also create and add the following document sections here:

- [Title page](#) (from own template file),
- [Preliminary remarks](#) (from own template file)
- [Final pages](#) (Credits...from own template file) and appendixes (item or document)
- [Member](#) (member name)
- [Chapter](#)/subchapter (chapter name)
- Preliminary [comments/remarks](#) to an item and forced form feeds before certain sections
- [Notes](#): annotations as graphic drawing elements or text that can be edited in a separate layer and shown or hidden in the output document.
- Item with [blank sheets](#)
- Item list
- Word / Excell / OpenOffice / RTF files ([existing file](#))

You will also find the [output functions](#) here (Print, Send Email, Save PDF Copy).

Editing

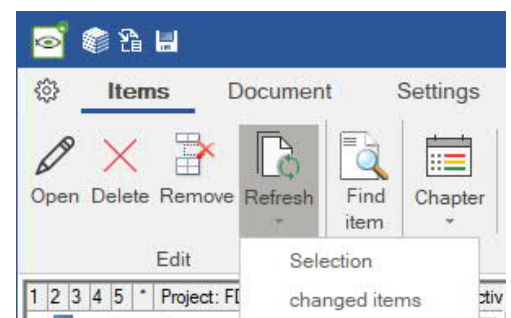
Open

First, select an entry (partial document) in the document structure/table of contents (left).

Then click then to the "Open" icon (alternative doubleclick).

When you open a partial document, the application where the document was created is launched. This may be a FRILO design application or MS Word or the title sheet.

After editing the document, save your changes and exit the corresponding application. FDD [automatically](#) formats and updates the corresponding document. You might be required to "[refresh](#)" the representation.



Delete

This function allows you to delete selected items from the database. Items deleted from the database can be [restored](#) in special cases via FCC.

Remove

This function allows you to remove items from the document without deleting them. The item still figures in the item list of [FCC](#).

Refresh

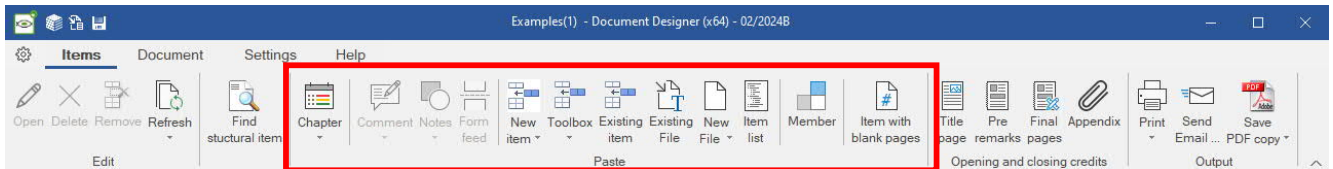
This function allows you to refresh (format) the presentation of [selected](#) items or changed items.

Tip: Hold down the <Ctrl> key for a multiple selection.

Find item

If you click on the symbol, an input field for the search text opens above the table of contents. If you enter the name of the item or parts of it, the item found is activated/highlighted in the table of contents and in the document.

Inserting / Paste



Chapter

This function allows you to insert new chapters and subchapters in a document. The name of the chapter is freely selectable. It is set up below the currently selected entry in the table of contents - a subchapter is indented. You can move the chapter subsequently with the mouse per drag & drop.

Chapter

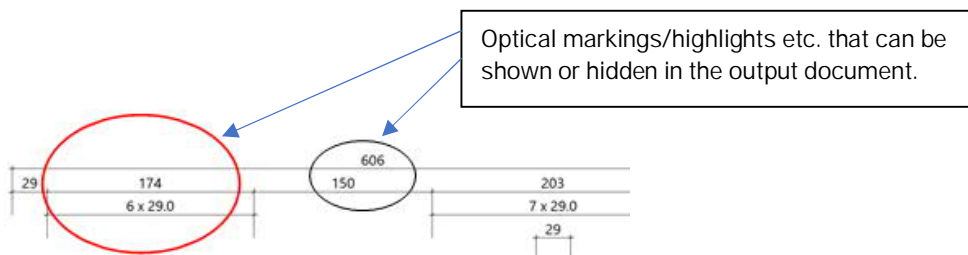
With this function, new chapters and subchapters can be inserted in the document. The name of the chapter can be freely defined. A new chapter is created below the marked entry in the table of contents, a subchapter is indented. You can also move chapters later with the mouse (by drag&drop).

Comments/Remarks

For additional preliminary comments within an item. The symbol is only activated when you mark/click in the table of contents the desired insertion point within the item.

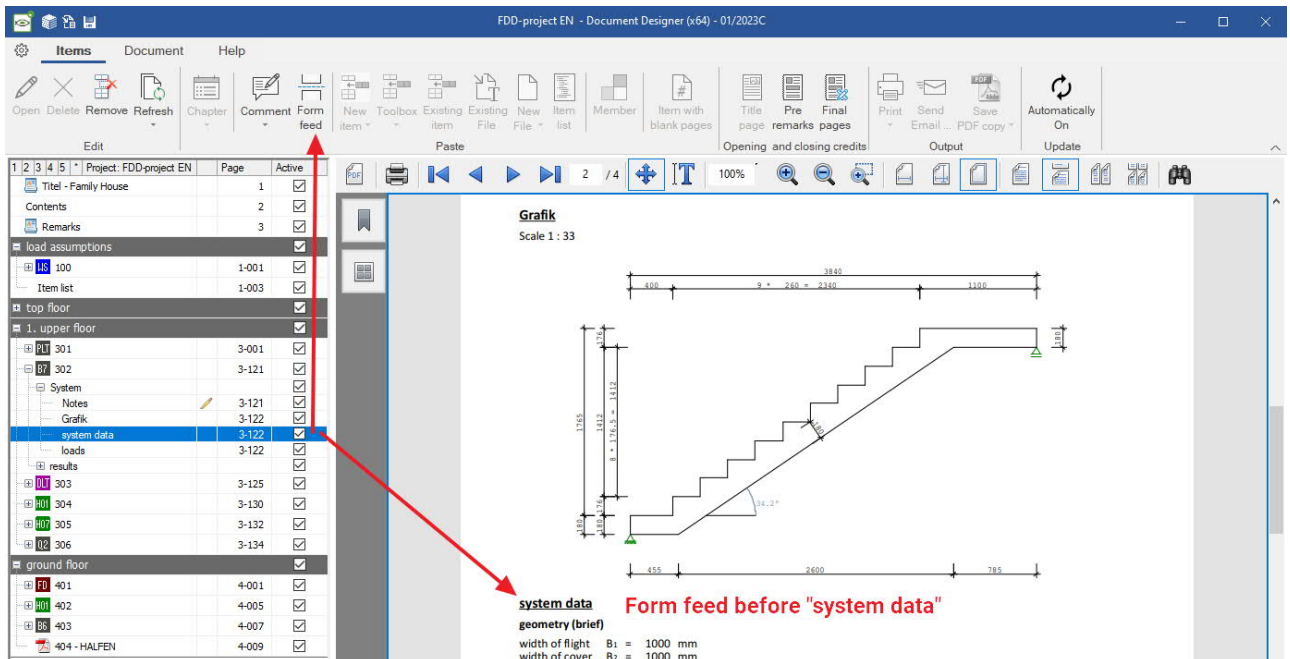
Notes

The note editor for FRILO items can be used to enter additional elements for the FRILO outputs. To do this, an item must be selected. Graphic elements such as freehand lines, lines, rectangles, but also texts etc. can then be entered in the editor. Various properties such as line thickness, fill, transparency/opacity etc. can be set. The display of these annotations/elements can be switched on or off as required in the item/page properties.



Form feed

Here you can force page breaks before certain sections. The symbol is only activated when you mark/click the desired (and permitted) page break within an item in the table of contents.



Item ID	Page	Active
Titel - Family House	1	<input checked="" type="checkbox"/>
Contents	2	<input checked="" type="checkbox"/>
Remarks	3	<input checked="" type="checkbox"/>
load assumptions		
100	1-001	<input checked="" type="checkbox"/>
Item list	1-003	<input checked="" type="checkbox"/>
top floor		
1. upper floor		
301	3-001	<input checked="" type="checkbox"/>
302	3-121	<input checked="" type="checkbox"/>
System		
Notes	3-121	<input checked="" type="checkbox"/>
Grafik	3-122	<input checked="" type="checkbox"/>
system data	3-122	<input checked="" type="checkbox"/>
loads	3-122	<input checked="" type="checkbox"/>
results		
303	3-125	<input checked="" type="checkbox"/>
304	3-130	<input checked="" type="checkbox"/>
305	3-132	<input checked="" type="checkbox"/>
306	3-134	<input checked="" type="checkbox"/>
ground floor		
401	4-001	<input checked="" type="checkbox"/>
402	4-005	<input checked="" type="checkbox"/>
403	4-007	<input checked="" type="checkbox"/>
404 - HALFEN	4-009	<input checked="" type="checkbox"/>

system data
Form feed before "system data"
 geometry (brief)
 width of flight B₁ = 1000 mm
 width of cover B₂ = 1000 mm

New item

Selecting this option displays the list of FRILO applications. Select the required application from the list and launch it. When you click to "Save", the item is stored in the database and inserted in the document.

Toolbox

Direct call of a toolbox module - the output is inserted under the current item.

Existing item

This function allows you to add additional or all items of the current project to the documentation.

Tip: To insert several items into the document:

Keep the Ctrl key pressed and select the desired items. Click to "OK" subsequently.

Select several successive items by keeping the "Shift" key pressed and clicking to the first and last item.

You can also insert existing items from the FRILO Control Center using drag & drop.

Existing file

This function allows you to integrate external documents into the documentation. You can integrate documents from any application that offers a print function for this document such as text documents and spreadsheets from MS Office® or OpenOffice®. In addition, PDF documents can be integrated in any number. The corresponding files are copied to the project folder and added to the documentation. The simultaneous selection of multiple files is possible (<Shift> or <Ctrl> key).

New file

This function allows you to create a new partial document in a text editor for instance.

Document Designer integrates also documents from external applications. Suitable are files from any application that supports printing of these files such as text files and spreadsheets from MS Office® or OpenOffice® or (if Bautext is installed) Bautext VCmaster 2025 (.hed).

Possible file formats include: - Microsoft Word (docx, doc, rtf), Excel, OpenOffice, OpenDocument (odt).

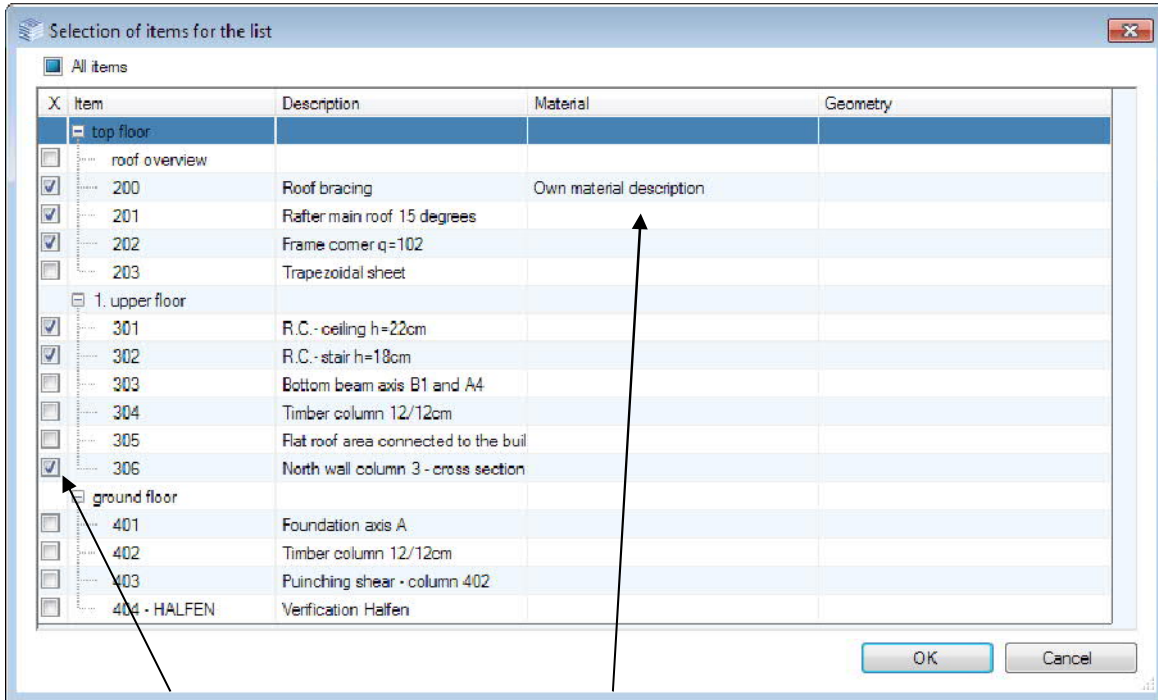
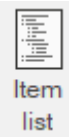
Note: Default path when saving the file is the temporary directory (▶ Configuration ▶ [Settings](#)).

Note: The context menu for items (in the document structure) also offers the function "Replace item..." so that an item can be quickly replaced by another item.

List of items

The symbol "Item list" can be used to create a list of "following" items. To do this, activate in the table of contents an item from which the "following" list is to be created (click on an entry).

Now enter a name for the list. In a selection list of the following items, mark the items to be included in this list or the option "All items".



Item list: mark desired items

add own text / change default

In addition to the item name and description, further information on the material and geometry can be entered / changed. If possible, these values are automatically assigned by the respective programs when the item is saved.

The list then appears in the output document:

Item list

Item	Description	Material	Geometry
200	Roof bracing	Own material description	
201	Rafter main roof 15 degrees		
202	Frame corner q=102		
301	R.C.- ceiling h=22cm		
302	R.C.- stair h=18cm		
306	North wall column 3 - cross section Q5		

Member

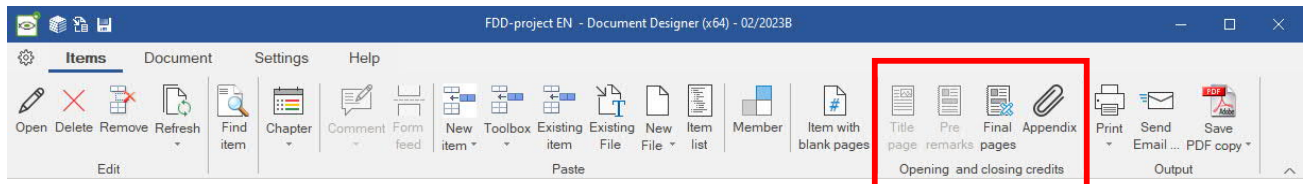
Similar to a chapter, you can define member/component sections here.

Several items can be combined in one component. Unlike a subchapter, the component is treated like an item. A member can be moved and numbered like an item. Is there, for example, an item 3.1, the component will then be given the number 3.2 and not 3.1.1 as in a subchapter.

Item with blank pages

This function allows you to insert empty pages in the document (Parameters: Total pages, Name, Description, Table of contents, item macro). They are taken into account in the page [numbering](#) by default.

Preliminaries / Final pages



Title page

Allows you to create or insert a title page from a file or template. The default inserting point is at the top of the document. The first activation of the title page option displays a template that you can edit and save under another name. This allows you to define various title page templates. If a title page was inserted or created, the function is no longer enabled for this document. To insert another title page, you must first delete the existing one. *Tip: The fields added in the [project properties](#) in the FRILO Control Center (project number - project description) automatically appear in the Document Designer title page when you select the template "Title page with Macros.dotx".*

Preliminary remarks

Allows you to create preliminary remarks or insert them from a file or template.

The functionality is the same as with the title page option. The inserting point is below the table of contents.

Final pages

Functionality as on the title page, where the insertion point is directly at the end of the document.

Appendix

At the end of the document, items/documents can be added as an attachment.

Output

Print

Output of the currently active or selected item on a printer.

Send E-mail

Send the currently active or selected item as PDF-file (for service purposes to FRILO).

You can add further files and remarks in the "Send mail" dialog.

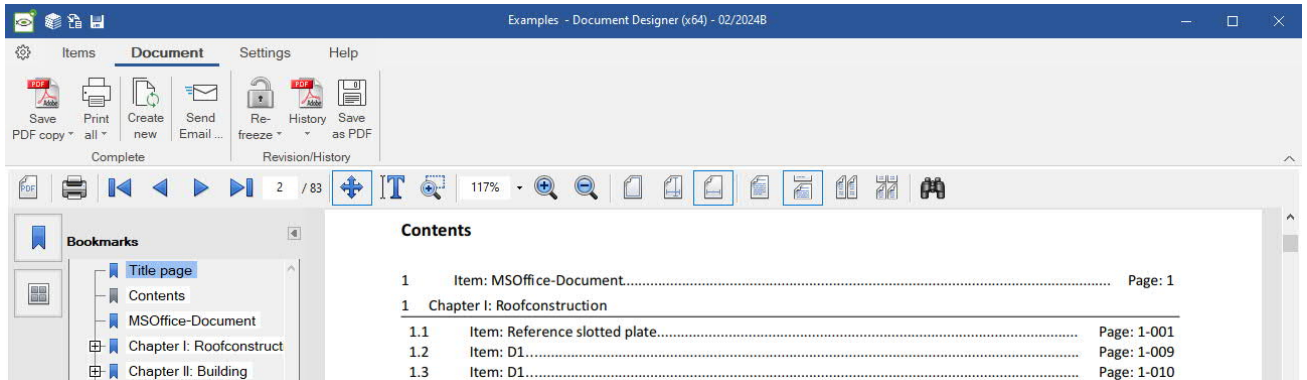
Save as PDF copy

The function allows you to save the currently active or selected item in a PDF. You can freely select the file name and storage path.

Note: When printing / saving PDF copy several items can be selected at the same time (CTRL key).

Document

The "Document" tab offers functions for the management of the entire documentation. You cannot edit individual items via this tab.



Tip: The bookmarks (table of contents) are provided with PDF links - so you can jump to the corresponding page by clicking on an entry.

You can define the [page layout](#) under the tab "Settings", e.g. the sheet size, the margins, the page header, the font type, size and color for the different captions and texts.

You can create various layout templates and save them for later use.

Complete

Save PDF-copy

This option allows you to save the entire documentation in a PDF. You can freely select the file name and storage path.

Print all

The entire document is put out on a printer.

Tip: You can hide parts of the document structure using the option "Active". This allows you to adjust the scope of the total documentation to the desired output scope. You should note in this connection that you must adjust the document to the new scope using the "Rebuild" function.

Create new

This function allows you to re-format the entire documentation. This process may take some time.

Re-formatting becomes necessary when you disable [document sections](#) in the table of contents for instance. In this case, the document sections remain in the structure but are excluded (temporarily) from the output. This requires re-formatting of the documentation before the actual output.

Send Email

Activating this option displays a dialog for the sending of the entire documentation per mail as a PDF.

Revision/History

Page numbering: New fixing / Release fixing

This function (Icon "Re-freeze") allows you to preserve the documentation in its current state, i.e. the page numbering then does not change when you insert a new item. The new item is added to the end of the documentation. Edited pages of existing items are marked with a letter selected by the user. If you add pages to an item included in the freezing, they are marked with an index.

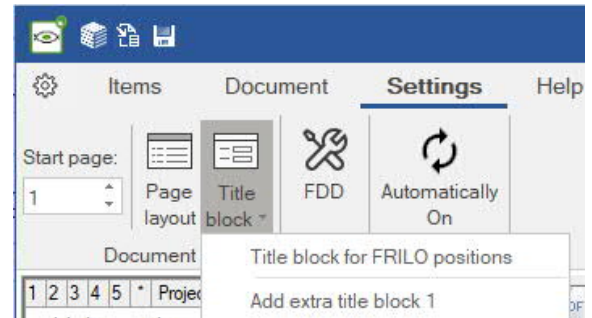
- ▶ See description in chapter [Fixing](#).

History

Each time the document is newly fixed, the previous document with date is added to the history list and can therefore be called up again.

Settings

In the settings you can set a start page number for the document and define/adjust the document-specific page layout and the title block. Automatic formatting can be switched on/off.



Page layout

A separate page layout is assigned to each document. It is referred to as the (active) page layout.

If necessary, a (second) [alternative page layout](#) can be created - so you can switch between two layouts.

You can save the page layout of a document as a [template](#) to use it in other documents.

In addition to different headers and footers, you can create particular page layouts for different projects in this way.

Editing with the Layout Editor

The "Page layout" function launches the Layout editor where you can edit the document layout i.e. margins, page headers/footers, fonts, colors, tables and the common document structure.

Any changes in the page layout are applied to the document after clicking OK in the confirmation dialog.

Here is a brief outline of the functions in the page layout editor:

- Common Document structure ,
- Margins,
- Page header/footer,
- Fonts,
- Colors,
- Table layout and
- Templates.

▶ The Page Layout Editor is described in detail in the document [Page-Layout_eng.pdf](#).

Title block

Several title blocks can be defined like the page layout. See also [Plotter/Plan format](#).

Further FDD settings

The tool icon can be used to call up further setting options, e.g. inserting files with or without headings, PDF scaling, visibility.



Automatically on / Update

After each change of an item, the document is reformatted by default. If you want to change several items, it is recommended to turn off this automatic formatting and make the [formatting / updating](#) of the document at the end of the changes.

To switch, click on the "Automatically On" icon.

See also "[Refresh](#)".

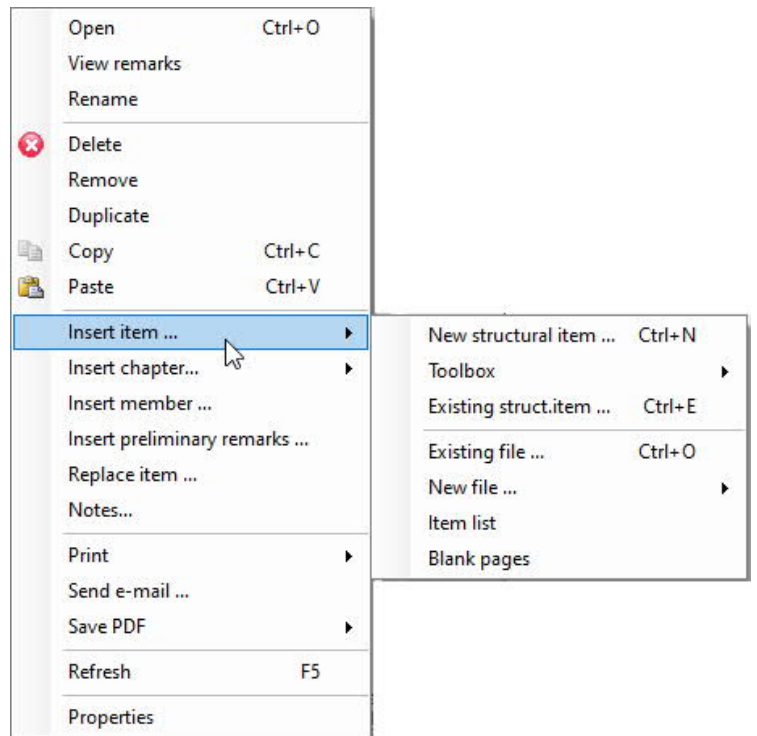
Note: Use the F5 key to manually start the update.



Helpful application hints

Context menu

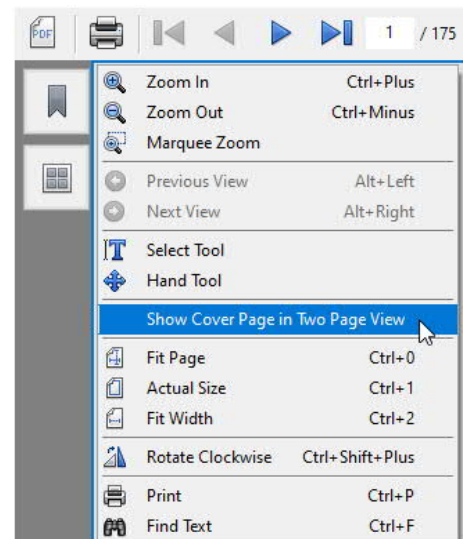
The most important functions are accessible via the toolbar. The activation of functions via the context sensitive menu is faster and more effective, however – here you can also, for example, write notes on an item or replace an item with another. Just press the right mouse button in the document structure section to display the context menu.



Ill.: Context menu of the document structure (right mouse button)

Note: A multiple selection, e.g. to remove items from the document structure, is possible using the Ctrl key + mouse click.

Note: The document pages also have a practical context menu.



Ill.: Contextmenu of the document page

Edit table of contents/order

You can change the order of items or entire chapters by moving the corresponding entries in the document structure. Just click to the entry and drag it to its new position while pressing the left mouse button (Drag&Drop).

The entries in the table of contents (also in an output PDF file) are clickable and then lead to the corresponding page.

Active option: display and hide partial documents

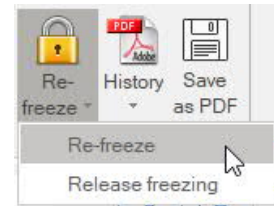
You can display and hide partial documents or entire chapters via the checkboxes in the "Active" column. If you apply any changes to this column, the document is reformatted automatically.

1	2	3	4	5	Project: practice e...	Page	Active
					Title page		<input checked="" type="checkbox"/>
					Contents		<input checked="" type="checkbox"/>
					Msoffice-Document	1	<input checked="" type="checkbox"/>
					Chapter I: Roofconstruction	1-001	<input type="checkbox"/>
					H013 Reference slotted plate	1-001	<input checked="" type="checkbox"/>
					D1	1-009	<input checked="" type="checkbox"/>

Fixing/Freezing – Page numbering - Revisions

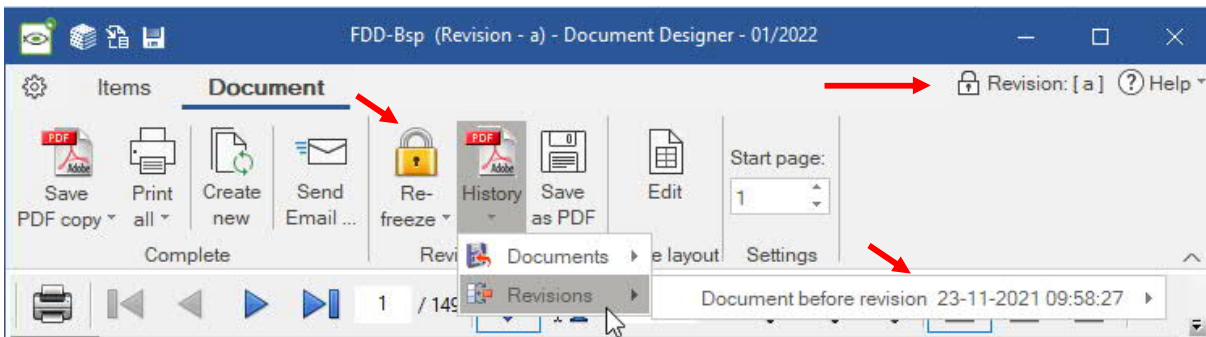
To ensure that changes to the document can be documented and easily retrieved after it has been set up, the Fixing function (Refreeze) has been introduced. - see also chapter [Document](#) - fixation.

First of all, it is assumed that the static will be completed in a first state. For this purpose, the static has been stored or printed as a PDF. The documentation of changes is made in each office according to their own ideas and individually very different, so we have realized the fixation function in close cooperation with our customers.



Handling fixed documents

To document changes click "Re-freeze". From this point on, a document that is changed later receives its own revision level (the first revision level begins with "a").



Now you can open new items, edit existing items - item numbers and the page numbers corresponding to the revision level are set automatically.

Existing items

The item numbers are not changed, but the page numbers will be added with the index "a". Additional pages will be labeled with .1 / .2 / .3 ...



For example an item originally had the pages 2-4. A change added to 3 additional pages. These additional pages are provided with the page numbers 4.1a, 4.2a, 4.3a, so the next item still begins with page 5.

New items

A new item can be inserted at any point in the table of contents. This item gets the label "A1", another new item will get the label "A2", etc.

The page numbering is labeled as follows: A 1, 2, 3,...

Chapter I: Roofconstruction	1-001a	<input type="checkbox"/>
H018 Reference slotted plate	1-001a	<input checked="" type="checkbox"/>
D1	1-009	<input checked="" type="checkbox"/>
H01 HO1+-001	A1-001	<input checked="" type="checkbox"/>
System		<input checked="" type="checkbox"/>
Code	A1-001	<input checked="" type="checkbox"/>
System Drawing	A1-001	<input checked="" type="checkbox"/>
System Drawing (isometri	A1-002	<input checked="" type="checkbox"/>

Revision levels

With each "Re-freeze" the previous version is stored as a revision. The revisions are designated continuously (a, b, c, etc.). You can select/read these revisions any time and view it again. The revision appears at the top right.

Note: New items can be moved or edited within a revision level.

By setting a new revision level (e.g. "b") by clicking on "Re-freeze", the document is fixed at the previous level (in this case "a").

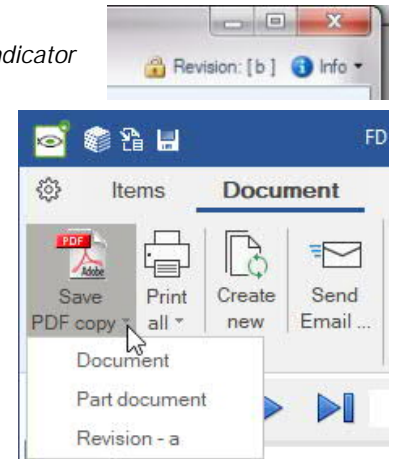
Note: After fixing for the first time, you can also click directly on this revision indicator (top right) to set a new revision.

With "Save PDF-Copy", you get the current total document. In addition, you can select documents of the individual revision levels (table of contents and the changed items).

History

With the icon "History" you can select the original document and the total documents of the various revision levels.

If required, any status can be saved as a PDF ("Save as PDF"). This is also stored in the history.



Release Fixing/Freezing

You can release the fixing/freezing to reset all revision levels, i.e. :

All items are then re (through) numbered and the page numbers are set serial.

Plotter/Plan format

Plots/Plans in large "plotter formats" (over A3) may be printed e.g. in the program PLT - Slabs with finite elements.



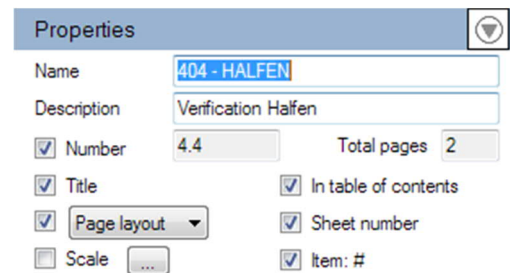
If such a PLT item with a defined plan is inserted into the document, it is marked with a "P". A click on the "P" will take you directly to the plan.

See also Example [PLT – Define titleblock EN.pdf](#).

Properties of items/pages

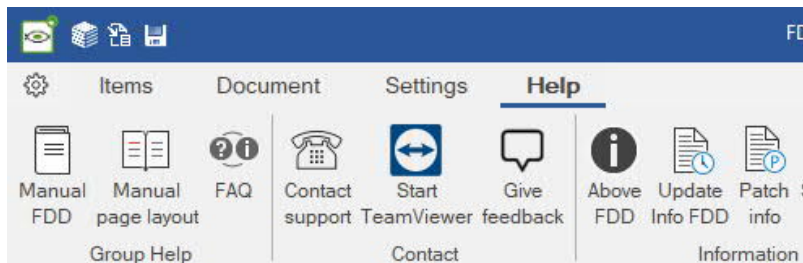
Here you can edit the following settings / properties for the selected item:

- Direct editing of item name and description.
- Disable automatic numbering, heading, page numbers, item description (prefix) and page layout.
- These options depend on the layout settings. Thus, e.g. the item prefix "item" is switched off globally (check mark at "item: #").
- Setting an alternative page layout (active only for special pages, e.g. title page, contents, pdf...). If you remove the tick, the page header is not displayed for this item/page - this can be desired, for example, with an inserted external PDF file. For special applications, transparency can also be set in the [page header](#).
- Scaling: For inserted PDF files a scaling between 100% and 50% can be selected. The vertical + horizontal orientation can set to Left/Center/Right. Please note: This scaling is only available for DIN A4 portrait format.
- Show/hide or edit [notes/annotations](#), elements such as freehand lines etc. for a marked position (by clicking on the "..." button)



Help for the program

Under the menu item "Help" you will find, in addition to the respective manual link, depending on the program, further supporting functions such as links to suitable video tutorials or a link to our Frequently Asked Questions (FAQ) on our homepage. You are also welcome to send us ideas, wishes and your opinion via the feedback function. In the "Information" section you will find version, update, patch and release information on the program status.



See also: Basic operating instructions: [Help - Hotline Service – Tips](#)