



system4planer v2.0

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1. What's new in version 2

- Multiple configurations, see 6.1
- Three-dimensional layout, see 6.2
- Mounting direction of fronts, see 5.3
- Locking options “central locking” / “simple locking”, see 5.3
- Export DXF, see 7.9
- Profil-Line, see 5.3

2. User Interface



- a Main navigation
- b Design grid
- c File functions
- d Element suite
- e Status line
- f Multiple configurations

3. Set-up

After starting the software you can define some default settings:

- Language: sets the language for the system4planer
- Markup: calculated directly into the unit prices
- Sales tax & discount
- Markup assembly: % markup on prices at assembly by trade partner
- Currency and exchange rates
- Personalizing offer: logo, footer, duration of validity
- Edit price list: password protected area

If you're starting the system4planer from a writeable drive (e.g. hard drive) this data will be saved when pressing the option „Save“.

In case you're starting the planer from a CD-ROM or if the Option „Resume“ was chosen, this data will only be temporarily used for the current session and all data must be entered again with the next start of the program.

The settings can be changed at any time in menu File > Settings (see 7.10.)

4. General Usage Notes

The purpose of system4planer is the design and configuration of system4. For this purpose the design process is divided into seven sections:

1. Tube Elements
2. Panels
3. Accessories
4. Equipment
5. 3D View
6. Extra
7. Complete

You can use the main navigation (a) to switch between sections in order to make changes at any time. In ascending order (from 1 to 7) you can always select the subsequent step only. It is only possible to skip steps in descending order (from 7 to 1).

Designing is carried out in the predetermined design grid (b). The elements required for designing are shown in the element suite (d). The status line displays notes on the remaining course of action or error messages, respectively.

Since version 2.0 it is possible to handle multiple configurations (f). Afterwards the single configurations can be combined to get a three-dimensional layout.

See 6 Multiple configurations and three-dimensional layout

5. Main navigation

5.1. Tube elements

In section "1 Tube Elements" all tube elements of system4 are determined to define the basic structure. For this purpose the four depicted tube elements are available in the element suite (d) as well as the counter-elements.

Adding Elements

In order to place an element, first of all it needs to be selected in the element suite. Then the area to be filled is highlighted in the design grid by left-clicking on it. After releasing the mouse button, the area is filled with the selected element.

Selecting Elements

To select elements, highlight an area in the design grid by left-clicking on it, ensuring that at least one element touches the selection square. Selected elements are depicted with a green border.

Deleting Selected Elements

Selected elements can be deleted by clicking on the red X button.

Checking the Configuration

Before moving on to the following section, a check is carried out if the configuration is permissible. It is not possible to continue designing if the tube elements are configured inaccurately. This avoids an incorrect design. Inaccurate configurations, such as overhanging elements that are not on the ground or elements with a width of 37.5cm on elements with a width of 75cm are highlighted in red and must be corrected.

5.2. Panels

In section "2 Panels" all back panels as well as the side panels (left, right, top and bottom) are designed. Initially all theoretically possible side, floor and back panels are inserted into the tube frame in silver. In this section panels and bases can be removed after having been selected, re-added or their color changed.

Selecting Panels and Bases

To select elements, highlight an area in the design grid by left-clicking on it, ensuring that at least one element touches the selection square. Selected elements are depicted with a green border.

Deleting Selected Panels and Bases

Selected elements can be deleted by clicking on the red X button. Deleted panels are depicted with a light gray border.

Adding Panels and Bases

In order to re-insert deleted panels and bases, select the elements with light gray border and then click on the button "Insert panel" in the element suite (d). The added elements are re-inserted into the design in silver (depiction light gray with black border).

Changing Colors / Creating Glass Bases

Clicking on one of the buttons on the right side of the element suite assigns the respective color to the previously selected elements.

To create glass bases, only bases may be selected.

Note: Installation sides of drawers are generally black. The installation sides of hatches and doors are automatically assigned the color of the back panel. If there is no back panel they are assigned the color of the front.

5.3. Accessories

In Section „3 Accessories“ all fronts and fixtures as well as handle variants which system4 provides are designed. Initially no fronts are added.

Adding / Changing Fronts

To add or modify fronts of an element, set the options in the element suite and subsequently select the appropriate element in the design grid.

Only those elements are selectable that may have a front added.

Changing a Door's Hinge Side

Right-clicking a door changes its hinge side.

Deleting Fronts


Selected fronts can be deleted by clicking on the red X button.

Height Adjustment

Because of safety regulations front elements can only be installed in the following heights.

Doors	OH 1-6
Hatch upwards	OH 5-6
Hatch downwards	OH 1-4
Drawers	OH 1-3

Mounting direction of a front

The mounting direction of a selected front will be flipped by clicking the  button, in order to mount the element from the back side. Rearward mounted fronts are designated by an corresponding icon. The 3D View (see 5.5) offers additional control.

Locking options central locking / simple locking

The Locking options “central locking” / “simple locking” are assigned separated by configurations. By choosing the “central locking” option, all locks can be opened with one key, by choosing “simple locking” every lock requires its own key.

Standard / Profiline

By choosing the elements single drawer, double drawer or register you can select the option “profi-line” (max. load 50kg) for every front-element separately. These elements are marked with an accordant icon.

5.4. Equipment

In section “4 Equipment“ all remaining elements of system4 are designed.

Leg height

With option “*Leg height*“ distance tubes can be inserted in the base area. This does not require an element to be selected.

Tube options

With “Tube options“ distance tubes can be inserted as carriers for customer-owned covers. Therefore the symbol with the small corners must be selected in the desired locations. By clicking on the respective button in the element suite the distance tubes plus the necessary buffers are included in the design.

Feet / Wheels

With option “Feet / Wheels“ adjustable feet, hard or soft wheels can be selected. This does not require an element to be selected.

Wall Angles

From heights of OH 5 onwards wall angles are automatically added to the list of items per 1.5 meters width.

5.5. 3D View

The purpose of the 3D view is to check the planned configuration.

Screen shot

Clicking on the buttons “image 2“ – “image 4“ creates screen shots of the current 3D view. The images automatically appear in the respective position in the print-out (see 7.6) or PDF (see 7.8). The camera position for “image 1“ is automatically generated and may be changed later on. Clicking on the disk symbol to the right of the respective image allows saving directly to jpeg format.

Display

Shows and hides the specified partial design elements. The “Open” switch opens and closes all mobile fronts.

Background Color

Changes the background color of the 3D view.

Navigation in the 3D window

Turn the object	Click and drag by left-clicking
Zoom +	Shift key
Zoom -	CTRL key
Moving the display window	Space + left click
Reset the view	Return-Key
Select configurations for combination	Left-click on a front / panel
Open the fronts	Right-click on a front
Move selected configurations	Cursor keys

5.6. Extra

In section "6 Extra" there is an option for adding single elements of system4 additionally to your order. For this purpose the range of products is divided into different categories which are selectable by buttons on the right-hand side.

Adding / removing elements

Select the appropriate element by clicking the according line. This line then appears in the element suite (d). The designated amount is set in the input box to the left. To enter your input into the list, click the button "Resume" or press the "RETURN" or "TAB" key.

The sum of all additional parts appears down to the right. In the printout / PDF these parts will be listed on a separate page.

5.7. Complete

In section "7 Complete" a list of items with all required elements is generated. The markup determined at the beginning is directly taken into account in the unit prices. Discount and sales tax are displayed separately. There is the option to add markup for assembly / installation and delivery, these cannot be discounted.

Assembly / Installation

By choosing „Assembly by trade partner“ the assembly costs will be calculated based on the percentage rate determined under „Settings“ (s. 7.10) and added to the unit price of the configuration.

In the upper section (element suite) the design can be personalized with the respective fields.

In the lower part of section (b) the quantity of the previously configured design can be determined.


It is possible to save, print and export the design (see 7 File function)

6. Multiple configurations and three-dimensional layout

6.1. Multiple configurations

Multiple configurations can be added for editing in one session. For this purpose the tabs (f) are available.

Adding configurations

By clicking the  button besides the tabs a new configuration is established. Up to eight configuration are possible. At least one tube element has to be placed in the active tab, before it is possible to add a new configuration.

Deleting configurations

Entire configurations can be deleted by clicking the  button.

Rename configurations

Custom names can be assigned to configurations for better identification. This name will also appear in 3D view and PDF / print. Click the lettering of the active tab (f) to edit the configurations name.

Alter the active configuration

The active configuration can be changed at any time for editing. By clicking the tabs (f) you will alter the active configuration.

6.2. Three-dimensional layout

Work-flow

- at least two configuration have to be designed (section 1-4)
- configurations are combined in section „5 3D view“
- in section „7 complete“ the list of items of the combined configurations are summarized.

Select configurations for combination

By left-clicking on a panel or front, an configuration is selected and the side / direction for combination with another configuration is determined. The selected side will be colored in green.


Deselect configurations

Selected (green colored) sides of an configurations are deselected with an anew left click on the selected side.

Combine configurations

- Choose a side of an configuration as described above. This configuration will be the start-object.
- Choose a side of a different configuration. This configuration will be the **target-object**.
- system4planer will automatically check if the combination is valid. The **start-object** will be moved to the **target-object** and aligned if the validation is successful.
- Now both configurations are combined. All panels, connecting joints, etc. are corrected.
- Further configurations can be added to the combination.

Split a combination

By clicking the  button a combination will be split. All configurations are reset, automatically deleted panels, connecting joints will be added again.

Criteria for a valid combination

Following criteria will be checked automatically:

- a side (left / right) of an configuration can be aligned to a front or rear-side of an other configuration and vice versa.
- the rear-sides of two configurations can be aligned.
- both configurations have to share the same base height.
- the **start-object** must not already be combined with another configuration.
- **start- and target-object** have to share the same width. A panel with width 37,5cm cannot be aligned to a panel with width 75cm.
- Within the range of the junction of the target-object no other configuration must be present.
- Within the range of the junction no doors or drawers must be present, if they will contact each other in case of opening.
- Both configurations must share an assimilable sequence of tube elements concerning the height. Lateral and rearward panels will be deleted automatically, connections and joints will be corrected.

Changing combinations subsequently

It is possible to reconfigure combined configurations subsequently (section 1-4). However the original combination will be split, if the layout of one configuration has changed significantly.

Moving configurations

It is possible to move selected configurations and combinations by pressing the cursor. Overlaying configurations (e.g. after combining), could be moved by these means. This function does **not** serve to combine configurations!

7. File function

All file functions are accessible in the “File” drop-down menu at any time. Only printing and exporting must be done in section “7 Complete”.

7.1. New

Starts a new design. Contact data already entered in section “7 Complete” remains.

7.2. Reset

Resets the system4planer. The contact data fields in section “7 Complete” are also cleared. The discounts are not reset. For resetting discounts see 3 Set-up.

7.3. Open

Pre-configured design

By default, system4planer contains 32 pre-configured designs. These can be opened, modified and saved under a different name.

Custom design

The folder symbol in the bottom right corner opens a file dialogue to retrieve own saved designs.

7.4. Save

Saves the design.

7.5. Save as

Saves the design under a different name.

7.6. Print

Creates a printout with 3D views and list of items. The command can only be accessed from section “7 Complete”.

7.7. Export .csv

Exports the list of items into a .csv file which in turn can be imported into a spreadsheet. The csv-file is encoded in UTF-8 and uses semicolon (;) as delimiter.

The command can only be accessed from section “7 Complete”.

7.8. Export .pdf

Creates a PDF with 3D views and list of items. The command can only be accessed from section “7 Complete”

7.9. Export .dxf

Creates a 3D-DXF file to import the configuration in common CAD tools. Every element is derived from a block (AutoCAD-Instances) and sorted by layer. A color of AutoCad Color Index (ACI) is approximated for the selection and assigned to the panels according to the configuration. The command can only be accessed from section “7 Complete”.

7.10. Settings

Language

Determine UI-language

Markup

The percentage rate will be calculated directly into the unit prices and will **not** be displayed separately.

Discount

The percentage rate will be calculated at the end of the offer preparation and displayed separately.

Sales tax

The percentage rate will be calculated at the end of the offer preparation and displayed separately.

Markup Assembly

The percentage rate will be calculated at the end of the offer preparation and displayed separately when assembly by trade partner is chosen in section "7 Complete".

Project folder

Determine a folder where all data and exported files will be stored.

Personalizing offer

There is an option to generate the printouts / PDFs with an individual Logo or footer.

- Select your logo (Format bmp, tif, jpg, png)
- Edit text for offer's duration of validity
- Edit footer

Edit price-list

Access to a password protected area for editing prices for individual items.

Resume / Save settings

You can change the settings and continue with the design at any time. If you select option

- "Save": the settings are saved (file "planer.ini") providing you have started system4planer from your hard drive. Saved settings will be used after restart of system4planer and section "settings" will be skipped henceforth.
- "Resume": the settings are only retained for this session. If you restart the program or reset it with File > Reset the program reverts to the saved settings (where applicable).

7.11. Help

Displays this document.

7.12. About

Details system4planer's current version.

7.13. Exit

Ends system4planer.