The background of the left half of the page is a photograph of a bright sun in a clear blue sky, with a lens flare effect.

TRITEC

energy for a better world

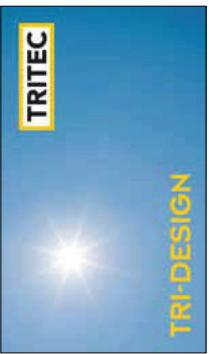
USER MANUAL TRI-DESIGN

Version 1.0 | November 2009

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OVERVIEW



The Software

The TRI-DESIGN software is a software specifically developed by TRITEC for the design and calculation of photovoltaic systems. The programme and its integrated calculation and design information provide support for project engineering and preparation of offers. The TRI-DESIGN software allows any photovoltaic system and its technical aspects to be planned easily, quickly and efficiently.

Features

The TRI-DESIGN software has the following features:

- Simple project management
- Site determination in Germany, Switzerland, France, Spain, Italy and Austria
- Software available in German, English, French, Spanish and Italian
- Design and calculation of the TRITEC photovoltaic mounting system TRI-STAND for pitched and flat roofs with different installation types
- Automatic calculation of mounting suggestions for the roof surface
- Creation of a BOM (Bill of Materials) of all modules and installation components for a PV system
- Clearly arranged display of all results

BOM with all components

	Component	Quantity
1	Solar panel	10
2	Mounting system	10
3	Inverter	1
4	Transformer	1
5	Electricity meter	1
6	Grid connection	1
7	Wiring	1
8	Supports	1
9	Roof	1
10	Ground	1

Export of the BOM

Special Feature

A special feature of the TRI-DESIGN software is its export functionality. This functionality enables the user to export and directly send the BOM for installation parts and solar modules to TRITEC. This functionality significantly simplifies the design of solar systems and thus allows even more efficient work.

INSTALLATION



System Requirements

In order for the software to run optimally, the following system requirements must be met:

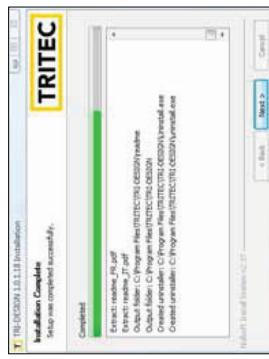
- Min. 800 MHz PC
- Min. 512 MB RAM
- Min. 100 MB free hard disc space
- 1024x768 monitor resolution
- Microsoft Windows XP or higher
- Microsoft.NET Framework 2.0 or higher

Setup

Start the installation by double clicking on the file **Setup.exe**. We recommend to close all other applications during the installation, so system files can be replaced without restart. After selecting the save location for the programme and programme files, a Start menu folder can be selected where the link to start the programme is created.

Clicking on **Continue** starts the installation of the programme on the computer. You can quit the software setup at any time by clicking on **Cancel**. Installation of the programme and copying of the files may take some time.

This step completes the installation of the TRI-DESIGN software. The last window allows you to choose whether the software should be started immediately or at a later time manually.



Selection of save location

Uninstalling

In order to remove the programme completely from the computer, you will have to uninstall it in the Control Panel. Click on the **Start** button of the taskbar, then the button **Programs and Functions** (Windows Vista). Clicking on the TRI-DESIGN programme and then on **Uninstall** opens the wizard to uninstall the programme. Finally, clicking on **Uninstall** in the appearing window removes the programme and all related files from the computer.



Uninstalling TRI-DESIGN

PROGRAMME



Programme Structure

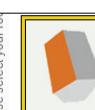
The programme can be subdivided into seven main areas. In **Location** enter site data related to the respective project; under **Project Data** information such as project number, address and contact data are allocated. The features of the roof, on which the system is to be installed, are entered in the area **Parameter Enquiry**; before you select the mounting system under **Stand-system**. **Graphic design** designs the system for the roof based on the entered data, before **Current BOM** displays a bill of materials of all components of the mounting system and the modules. The area **Printout Export** allows you to print all relevant data and export the BOM.

General settings and functions (for example, language, view, printing and exporting data) are accessible via the menu bar. These functions are explained in the section *Other Features* of this manual.



User Guide

After setting the main parameters of the programme, the seven main areas must be filled out one after the other. Keeping to this sequence ensures the best possible and efficient way of working with the TRI-DESIGN software. On top of the screen you will find another navigation aid. The buttons **Back** and **Forward** allow you to go back or forward by one step.



Simple navigation in the programme

Project Management

The TRI-DESIGN software can be used to design several systems. The data of each project can be saved and recovered at any later time. In general, we recommend saving the project regularly during its creation.

Opening a project

You create a new project by clicking on **File > New project**. Everytime you start the software, the programme opens an empty project automatically. We recommend saving this at this point in time to the desired save slot by clicking **File > Save project as**. Doing this, all you have to do during the design process is clicking on **Save project** to save the data to the desired location.
To open an existing project, click on **File > Open project**. Having selected the desired project, you can open and edit it with TRI-DESIGN.

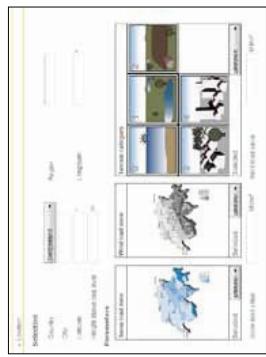


Opening and editing a saved project



Save Project

When saving a project for the first time, you must select a save location and a file name. Enter these by clicking on **File > Save project as**. Having made these entries, the project can be saved by simply clicking on **File > Save project**. Clicking on **Save project** saves the current project data and replaces the existing file.

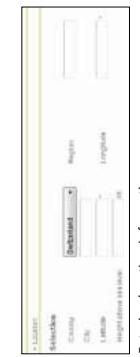


Location

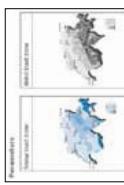
Location is the area to enter the site data of the place, where the project is to be implemented. These data are essential for the system design. With the exception of the field **Region**, all fields are required and without their information the TRI-DESIGN software cannot design the system. If you try to move to the next point without having entered any information, the missing field is highlighted red.



Country: Click on this field to select the country where the project is to be implemented.
Region: Here you can enter the region where the system is to be built.
City: Enter the city where the system is to be implemented.



Latitude / Longitude: In order to determine the precise position of the system, latitude and longitude of the place where the project is to be implemented must be entered.
Height above sea level: Please enter here the height above sea level in metres for which the system is planned.
Snow/Wind load zone: Enter the snow and wind load zone for the project site here. If these are unknown, you can determine them easily using the map data of the software. By simply clicking on the respective map, the map can be zoomed and allows easy reading of the values. These values can then be applied by clicking on the corresponding place of the map. If the system site is on or near the border between two wind or snow load zones, the higher classified zone must be applied.



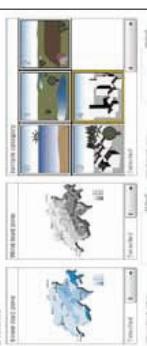
Snow/wind load value: If the wind and snow load values are known or the site is outside the provided countries, you can alternatively enter these values directly into the fields **Snow load value** and **Wind load value**. This replaces selecting the wind and snow load zone and the terrain category.

Terrain category: The terrain category can be set by either selecting one of the icons or by entering it manually. To see an explanation of the respective category simply drag the cursor on its icon. The explanation appears in a separate field.



Selecting the terrain category

North German Plain: If the project is planned for the North German Plain, tick this box due to special static calculations. Having entered these parameters, continue with the entry of the project data.



Entering site data

Project Data

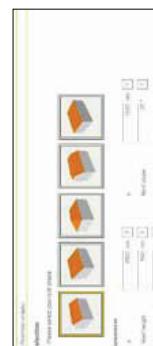
Here you can enter the data of the respective project. Allocate a name to each project in *Project name*, and enter the customer's *Address*, *Title*, *Name*, *First name*, *Address*, *Contact data* into the other fields.



Project data

Parameter Enquiry

The section *Parameter Enquiry* is for data relating to the project. First you must select the roof shape. To see the names of the icons, simply drag the mouse cursor on an icon. There are *Ridged roof*, *Monopitch roof*, *Hipped roof*, *Half-hipped roof* and *Flat roof*, the option *Flat roof* must be selected for all projects to be installed on horizontal surfaces (up to 5°).



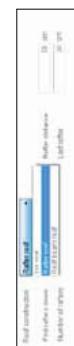
Parameter enquiry

In *Parameter specify your selection and dimension the roof*. The roof measurements are entered into the fields *a* and *b* (also *c* and *d*) depending on the selected roof in centimetres. You see which letter means which measurement in the illustration at the left bottom of the screen. By clicking on the ? icon next to the entry box, you can view a more detailed illustration of the measurement to be entered. The field *Roof height* needs the entry of the height of the gable from the ground, whereas you enter the angle between the horizontal and the roof surface (in degrees) in the field *Roof slope*. The next window requires the *Orientation* of the system, where 0° is North, 90° East, 180° South and 270° West. If the real roof is oriented to N-5°, you must enter the value of 365 into TRI-DESIGN. For an orientation of precisely South-West, the value is 225 etc.

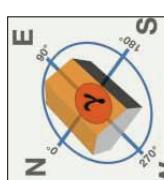
Then you have to select between *Beam roof* and *Rafter roof* for the roof construction. The flat roof presents a special case, described in the next section. After the selection of the roof construction four fields must be completed with details on the distances between the first and last rafter/beam distance and the last roof beam to the roof edge, the greatest rafter/beam distance and the number of beams/rafter.



Graphic display of dimensioning



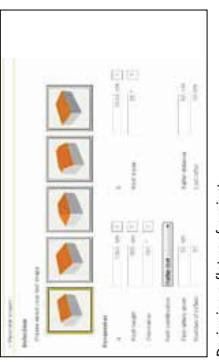
Details of roof construction



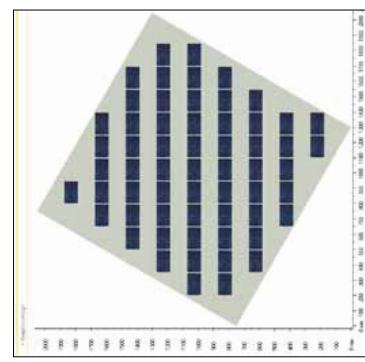
Roof orientation

When a flat roof system is designed, in addition to the roof dimensions, height, orientation and slope, other details must be entered. If you select *chamfered* in the field *Eaves* another field pops up requiring the entry of the degree of slope. If the selection is *With parapet* the roof parapet height must be entered.

The next step is the selection of the roof construction type. The selection of *Concrete roof* does not require additional details, whereas *Rafter roof* or *beam roof* requires additional details regarding first and last beams/rafters, their number and distance. When selecting the flat roof, you can also enter an angle of slope of up to 5°. Activating the check box *Parallel* to eaves calculates the orientation of the modules in parallel to the eaves. If this option is not selected, the optimum orientation of the modules to the sun is calculated (180°).



Designing a flat roof project



Optimum orientation of the modules

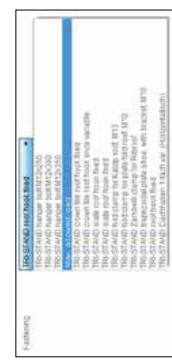
Stand-system

Depending on the selected roof shape, there are different stand-systems to select from. In the case of ridged, monopitch, hipped and half-hipped roofs, the standard mounting system is *Clip system* or *Insertion system*. If the roof slope does not exceed an angle of 20°, another option is the *Triangle installation*, in order to construct the optimum angle.

All mounting systems are available in *Alu unpainted* or *Alu black*.

The field *Support type* is only relevant for the triangle support and otherwise inactive. The angle of the support can be selected as 20°, 30° or flexible. The field *Fastening* defines how the system is to be attached to the roof. Then you can select the *Carrier profile*. The option *Additional load* is a special feature. Here you can enter the additional load of third-party fixing materials. When this option is selected and third-party fixing materials are used, it is essential to note the guarantee terms of TRI-STAND!

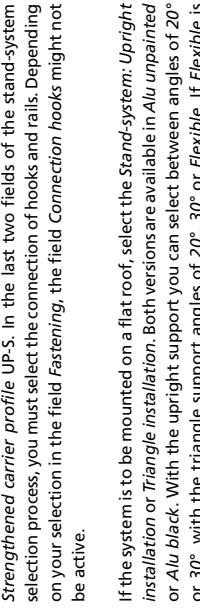
Selection of support



Selecting the fastening

Then in a graphic display you can select the **Standard carrier profile UP** or the **Strengthened carrier profile UP-S**. In the last two fields of the stand-system selection process, you must select the connection of hooks and rails. Depending on your selection in the field **Fastening**, the field **Connection hooks** might not be active.

If the system is to be mounted on a flat roof, select the **Stand-system: Upright installation** or **Triangle installation**. Both versions are available in **Alu unpainted** or **Alu black**. With the upright support you can select between angles of 20° or 30°, with the triangle support angles of 20°, 30° or 45°. If **Flexible**, if **Flexible** is selected, another text box appears where you must enter the desired number of degrees. In addition, this selection requires the entry of the height of gravel in the field **Height of gravel** in cm. All other details are the same as the ones for creating a project, with insertion or clip systems and as described above.



Selecting the rail connection



Selecting upright or triangle support



Entry of number of degrees and gravel height for upright support with flexible angle

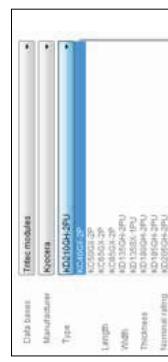
GRAPHIC DESIGN

PV Module Selection

The first step of the graphic design is the selection of the desired modules. Here you can select between two data bases and the Option **PV module**. The data base **General modules** contains a wide variety of available modules, the data base **Tri tec modules** contains the modules of the current TRI TEC range. The following section describes how to create a proprietary module. To select a module of a data base, select first the data base, then the manufacturer of the desired module and finally the module type. The lower part of the window shows all data the selected module features regarding the respective project. Alternatively, you can select modules by the criterion **Cell technology**, selecting the desired technology in the drop-down field.

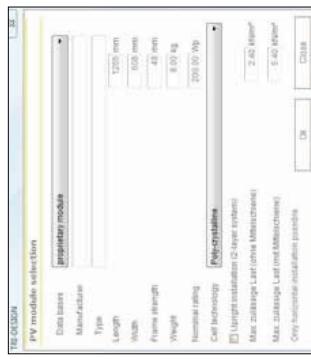


Module selection

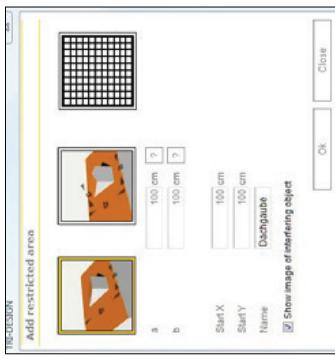


Module type selection

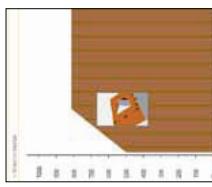
To create and use a proprietary module select the option **PV proprietary module** in the line **Data bases**. The following dialogue requires details of the module, describing its dimensions, output, technology and installation features. Only when all entries have been made completely and correctly, the design of the system can continue.



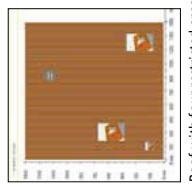
Creation of proprietary modules



Characteristics of the restricted area



Restricted area with four restricted areas



Roof with four restricted areas

To keep track of things with several restricted areas, we recommend entering a name for each restricted area in the field **Name**. If the option **Show image of interfering object** is inactive, it is not displayed in the graphic, but blocked for the placement of modules.

For each restricted area to be added the above process must be repeated. To edit or delete a restricted area, select it by double-clicking on it. Now you can move it across the roof by simply Dragging & Dropping or edit it by right-clicking on it. Since several objects can be selected at the same time, the option to edit always applies to all selected restricted areas.

Add Modules

You can cover the roof with solar modules, either by using the buttons on the left of the screen or a separate window.

Clicking on **Add module field** opens a window to enter all parameters required to cover the roof with solar modules. If the roof is to be covered completely, select the option **Cover whole roof** in the window's fifth line. If only a certain area is to be covered with modules, enter the **Number of columns** and **Number of rows** by selecting the first check box or alternatively enter the **Number of PV modules** or the desired **Output**.

The next section determines how the modules are to be placed on the roof. To do this enter **Start X** and **Start Y**, where the edge of the module field is entered in **X** and **Y** direction, or select a corner of the roof to which the software aligns the modules.

In the bottom section of the window you can select whether the modules are placed in **Portrait** or **Landscape** format. In addition, you can set a minimum distance of the module field to the roof edges. Depending on the used module, some applications may be impossible and their corresponding fields inactive. This way you can create as many individual module fields as to cover the roof completely, optimally and as required.

Buttons for editing the module fields

Another way to cover the roof or edit a module field is to use the buttons at the left edge of the screen. Depending on the selected module and entered project data, they can be used. Options that are not available can only be seen in outlines. The top two icon rows offer the possibility to expand existing modules and module fields; the icons of the bottom row allow the roof to be covered completely or to adjust the view to the graphic display. All buttons have mouseovers describing their function. Inactive buttons are shaded grey.

After selecting a module by double-clicking it, you can add another module using the appropriate buttons on the left, right, top or bottom. Entering the desired number into the field above the buttons, you can add several modules at the same time.

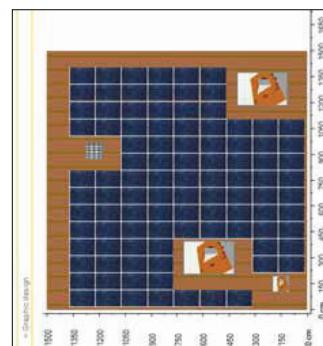
This feature lets you move shift one or more modules in the desired direction. Select the desired modules by double-clicking on one or by drawing a frame around several modules. Now you can move them in the desired direction.

By clicking on this icon the still free roof areas are covered symmetrically with modules in the desired format.

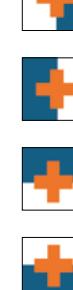
This feature allows you to zoom the graphic display in or out or to zoom a picture detail in or out.



Features of the module field



Roof covered with modules



Adding the entered number



Shift left



Cover whole roof symmetrically with PV modules in portrait format
Zoom out/in

Other Options of the Graphic Design

In addition to the above basic features of the graphic design, you can call up additional options by right-clicking on the respective modules, restricted areas or roof areas.

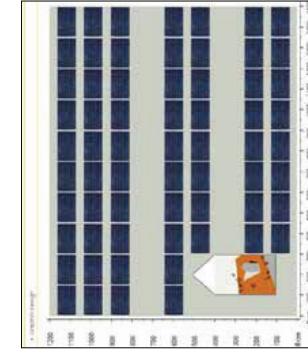
By right-clicking of the empty roof you can **Add in portrait format** or **Add in landscape format**. Under **Edit** you can **Re-calculate statics**. **Zoom** allows you to **zoom in**, **zoom out** or make the image **Page width**. **View** allows you to switch between **Levels**, **Stand-system view** and **Module view**. Additionally, you can show or hide **Load zones**, display a mouseover with **Coordinate** and **Show or hide a Grid**.

When you right-click on a restricted area, you can select the option to **Select restricted area**, **Feature** or **Show** or **Hide coordinates**. Furthermore, you can set the origin of the design at a restricted area by clicking on **Coordinate > Set origin**.

Right-clicking on a solar module can select the module or show the **Module grid**. The module grid shows the complete design of the field with modules as if no restricted areas existed. In addition, by right-clicking on a module (just as with the restricted areas) you can **Show coordinates** or **Hide coordinates** and set the **Origin** at the respective module.



Right-click on a restricted area



Right-click on a solar module

Completely covered roof

Component	Quantity	Description	Dimensions	Properties	Coordinates
1x1	100	1x1	1000x1000	1x1	0,0
1x2	100	1x2	1000x200	1x2	0,200
1x3	100	1x3	1000x300	1x3	0,400
1x4	100	1x4	1000x400	1x4	0,600
1x5	100	1x5	1000x500	1x5	0,800
1x6	100	1x6	1000x600	1x6	1,000
1x7	100	1x7	1000x700	1x7	1,200
1x8	100	1x8	1000x800	1x8	1,400
1x9	100	1x9	1000x900	1x9	1,600
1x10	100	1x10	1000x1000	1x10	1,800
2x2	50	2x2	2000x200	2x2	0,200
2x3	50	2x3	2000x300	2x3	0,400
2x4	50	2x4	2000x400	2x4	0,600
2x5	50	2x5	2000x500	2x5	0,800
2x6	50	2x6	2000x600	2x6	1,000
2x7	50	2x7	2000x700	2x7	1,200
2x8	50	2x8	2000x800	2x8	1,400
2x9	50	2x9	2000x900	2x9	1,600
2x10	50	2x10	2000x1000	2x10	1,800
3x3	33	3x3	3000x300	3x3	0,400
3x4	33	3x4	3000x400	3x4	0,600
3x5	33	3x5	3000x500	3x5	0,800
3x6	33	3x6	3000x600	3x6	1,000
3x7	33	3x7	3000x700	3x7	1,200
3x8	33	3x8	3000x800	3x8	1,400
3x9	33	3x9	3000x900	3x9	1,600
3x10	33	3x10	3000x1000	3x10	1,800
4x4	25	4x4	4000x400	4x4	0,600
4x5	25	4x5	4000x500	4x5	0,800
4x6	25	4x6	4000x600	4x6	1,000
4x7	25	4x7	4000x700	4x7	1,200
4x8	25	4x8	4000x800	4x8	1,400
4x9	25	4x9	4000x900	4x9	1,600
4x10	25	4x10	4000x1000	4x10	1,800
5x5	16	5x5	5000x500	5x5	0,800
5x6	16	5x6	5000x600	5x6	1,000
5x7	16	5x7	5000x700	5x7	1,200
5x8	16	5x8	5000x800	5x8	1,400
5x9	16	5x9	5000x900	5x9	1,600
5x10	16	5x10	5000x1000	5x10	1,800
6x6	9	6x6	6000x600	6x6	1,000
6x7	9	6x7	6000x700	6x7	1,200
6x8	9	6x8	6000x800	6x8	1,400
6x9	9	6x9	6000x900	6x9	1,600
6x10	9	6x10	6000x1000	6x10	1,800
7x7	5	7x7	7000x700	7x7	1,200
7x8	5	7x8	7000x800	7x8	1,400
7x9	5	7x9	7000x900	7x9	1,600
7x10	5	7x10	7000x1000	7x10	1,800
8x8	3	8x8	8000x800	8x8	1,400
8x9	3	8x9	8000x900	8x9	1,600
8x10	3	8x10	8000x1000	8x10	1,800
9x9	1	9x9	9000x900	9x9	1,600
9x10	1	9x10	9000x1000	9x10	1,800
10x10	1	10x10	10000x1000	10x10	1,800

Now the BOM of all modules and installation components for the project is created. It can be viewed as an overview and control option. It can be printed out in the next step and forwarded to TRITEC using the export feature. The chapter on Export CSV-Format describes the process of exporting and submitting the data.

Current Bill of Materials

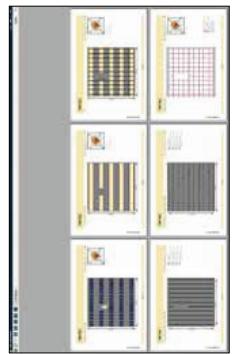
Now the BOM of all modules and installation components for the project is created. It can be viewed as an overview and control option. It can be printed out in the next step and forwarded to TRITEC using the export feature. The chapter on Export CSV-Format describes the process of exporting and submitting the data.

BOM of a completed project

Print-out

The last step *Printout Export* lets you print out and export the project file. The export of the BOM is described in detail in the following chapter.

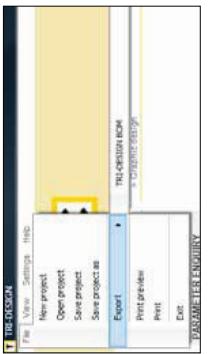
Setting the print options



Selected pages in print preview

Export in CSV Format

To export the created BOM in CSV format select the button *TRI-DESIGN BOM* under *File>Export*. The now appearing window allows you to select the save location and the name of the file to be created. Clicking on *Save the file* is created and the window is closed.



Exporting the BOM using the menu bar

Now you can send the created and saved CSV file via e-mail.



BOM export in the window Printout Export

Selection printouts allows you to activate all desired printouts. *Activate/deactivate* lets you activate or deactivate all options at the same time.

The selection between *Cover sheet*, *Summary*, *Roof drawing*, *Roof attachment points*, *Rails*, *Profile positions*, *Technical drawing*, *Dimensioning* and *Bill of materials* can now be printed by clicking on *Print*.

By clicking on *Print preview* you can display a preview of the selected items.

Other Features

The basic settings of the programme can be defined using the menu bar. In addition to the already described options such as Open, Save, Print and Export, you can switch between the seven main items of the programme under *View*.

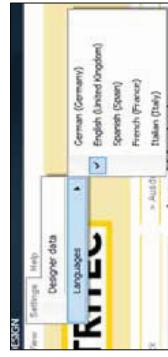
Enter the designer data under *Settings>Designer data*. They are shown in the printout of the project. In the case of several designers in one company, entering the editor here can show which project was edited by whom. In addition to details of the company, you can also integrate a company logo. Clicking on *Browse* under the heading *Company/logo* you can select and add the company logo.

The software and its help file can be displayed in five languages. To select the software language click on *Languages* under *Settings* in the menu bar. You can choose between German, English, Spanish, French and Italian.

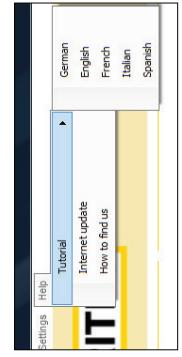
To open the software manual click on *Manual* in the menu *Help* of the menu bar. When you have selected your language, the manual will open.



Entering the designer data



Selecting the programme language

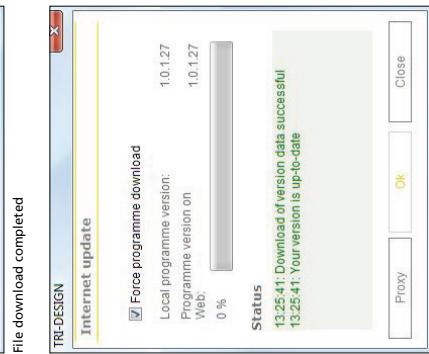
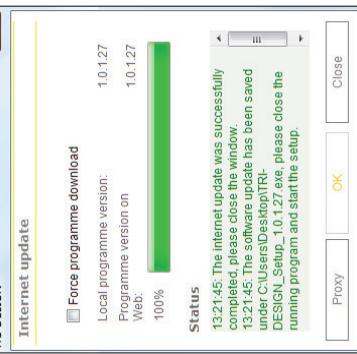


Opening the manual

DATA BASES & UPDATE**Software Update**

To keep the software up to date, we recommend to update it regularly. Click on *Help > Internet Update* to check for new software versions and install updates. The now opening window shows the currently installed software version and the latest available update version. To check for available updates and install any available ones, the computer must be connected to the Internet. If the message "Your version is up to date" appears, no new versions of the software and thus no updates are available.

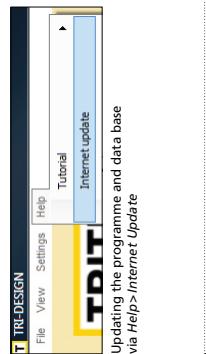
If the installed and the latest available version are not identical, you will see the message "Your version is obsolete". In order to continue working comfortably with the TRI-DESIGN software, you should now update the software. To start this process click on OK. Depending on your Internet connection, downloading the required files may take some time. When the download of all data has been successfully completed, the installation of the update must be confirmed in the appearing window. The Installation Wizard will guide you through the update installation, which is identical to the first installation of the programme (see above).



Force programme download

Updating the Module Data Base

The programme's module data base is automatically updated each time the software is updated. By regularly updating the software therefore, not only the programme, but also the content of the data bases is kept up to date. This way new modules can be loaded and used in the TRI-DESIGN software quickly and easily. The process of updating the software is described in the previous chapter.



To keep the software up to date, we recommend to update it regularly. Click on *Help > Internet Update* to check for new software versions and install updates. The now opening window shows the currently installed software version and the latest available update version. To check for available updates and install any available ones, the computer must be connected to the Internet. If the message "Your version is up to date" appears, no new versions of the software and thus no updates are available.

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The programme section Software Update offers two additional options. Clicking on *Force programme download* downloads the latest software version from the server, independent of the current version. This option may become necessary if an error occurred during the last download and the update could not be installed correctly.

When using a proxy server, click on *Proxy*. You can make all proxy settings in the opening window.

You can at any time cancel the update and return to the normal software screen by clicking on *Close*.



File download completed



Force programme download

CONTACT



Opening the contact data

To contact TRITEC directly, click on *How to find us* in the menu *help* of the menu bar. The opening PDF file has all contact data you need to reach your contact.

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TRITEC, November 2009

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