


Руководство по эксплуатации
программы расчёта опалубки
EuroSchal® for Windows 
Версия 2004

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Windows является зарегистрированной маркой Microsoft Corporation.

Сервис программного обеспечения (ПО)

Если Вы обращаетесь по телефону к оператору, пожалуйста, будьте перед экраном вашего персонального компьютера (ПК) и загрузите план этажа, на котором находится ошибка. Подготовьте следующую информацию (также в случае письменного обращения):

- Номер версии вашей Европалубки®
- Параметры используемого компьютера
- Дословный текст появившегося на экране сообщения об ошибке (если есть)
- Описание проблемы и в каком месте в программе она возникла
- Как Вы пытались справиться с проблемой

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Следующие функции отсутствуют в Облегчённой версии:

- вид с опалубкой по одной стороне стены
- вставка любых соединений стен
- подгонка правил монтажа под каждого пользователя
- определение недостающих элементов, вставка логотипа, цены элементов
- изменение столбцов данных, подгонка размера логотипа
- список размеров и объемов, в том числе для захваток
- Импорт/Экспорт складского списка, передача списка элементов
- создание строительного объекта, удаление, передача элементов
- складские списки, статистики, элементов опалубки, аксессуаров, их масс
- автоформатирование чертежа (расположение частей чертежа на отдельных листах для последующей склейки)
- пакетный вывод, плана этажа-, захваток, и складских списков
- DXF импорт или экспорт (перенос плана опалубки в прокранму Автокад – autoCAD)
- добавить текстовые поля и картинки, масштабирование картинок (*.WMF, *.BMP)
- ручное изменение масштаба, а также доступность нескольких масштабных сеток
- предложения продажи и/или аренды опалубки (для фирм-дилеров опалубки)

ЕвроОпалубка® - рабочая инсталляция

1.1. Инсталляция ЕВРООПАЛУБКИ®

Программа EuroSchal® поставляется с ключом лицензии. Он должен быть установлен в компьютер и заинсталлированы драйверы для него.

Внимание! Всегда сначала устанавливайте программное обеспечение, а затем вставьте ключ для обеспечения правильной инсталляции!

Вложите диск с программой в привод. Если инсталляция не началась автоматически, то откройте содержимое диска и кликните мышкой дважды файл „START32.EXE“.



1.1.1. Одно рабочее место

Если Вы приобрели лицензию на сетевую версию, то смотрите главу [«Сетевая версия»](#)

1.1.1.1. Программное обеспечение

Нажимая на клавишу **[Installation]**, Вы начнете инсталляцию ЕвроОпалубки. Выполняйте, пожалуйста все рекомендации программы-инсталлятора.

Сразу после установки программы EuroSchal® начинается установка драйверов ключа-лицензии. Обычно достаточно утвердительно отвечать на все задаваемые программой вопросы ничего не меняя. Для установки в Windows NT, 2000 или XP вам необходимо войти в систему с правами администратора.

1.1.1.2. Ключ лицензии

Для параллельного порта



Если у Вас один из таких ключей, то соедините его к порту принтера Вашего компьютера, а принтер можно подключить к разъёму ключа.

USB



Если у Вас ключ USB как на этой картинке, соедините его в любой свободный порт USB. Обычно ключ USB устанавливается сам, если предварительно были установлены его драйверы. Если установка не запустилась автоматически, то можно установить драйвер вручную с диска EuroSchal® CD-ROM из папки **D:\Setup\Treiber\Rainbow\Win9x\USB98** (где D: - имя диска CD-ROM)

1.1.2. Сетевая версия

Если Вы купили версию на одно рабочее место, то можно пропустить эту главу.

1.1.2.1. ЕвроОпалубка®

Программа ЕвроОпалубка® может быть запущена на любом компьютере в сети, если используете ключ сетевой версии. Если есть сетевое соединение между рабочей машиной и сервером (где находится ключ лицензии), то программа может быть запущена так как есть хотя бы одна свободная лицензия на ключе. Если в программе работает столько пользователей, на сколько рассчитана лицензия – то чтобы ещё войти в программу необходимо, чтобы хотя бы один пользователь вышел из неё.

Вы можете установить программу EuroSchal® с диска CD-ROM на каждом рабочем месте или только на общем сетевом диске, куда каждый пользователь имеет доступ.

В этом случае пользователь должен иметь права на чтение и запись в каталоге программы. Также необходимо создать всем пользователям сетевой диск с каталогом программы, на пример (E:\WINSCHAL). Сетевые ссылки типа <\\SERVER\WINSCHAL> не будут работать в программе ЕвроОпалубка.

Если EuroSchal® установлена на общем сетевом диске, то можно запускать программу на других рабочих машинах, не устанавливая её.

1.1.2.2. Ключ сетевой версии



Установка ключа сетевой версии на сервере состоит из 3 этапов:

1) Установка драйвера ключа

Нажмите последнюю кнопку (от верха экрана инсталлятора) **Installation** при запуске установки EuroSchal® с CD-ROM, чтобы открыть программу установки драйверов сети для ключа. Нажимая на кнопку **Installation**, запускается установка драйвера ключа Rainbow. Обычно необходимо только утвердительно ответить на вопросы диалога. Для установки необходимы права администратора.

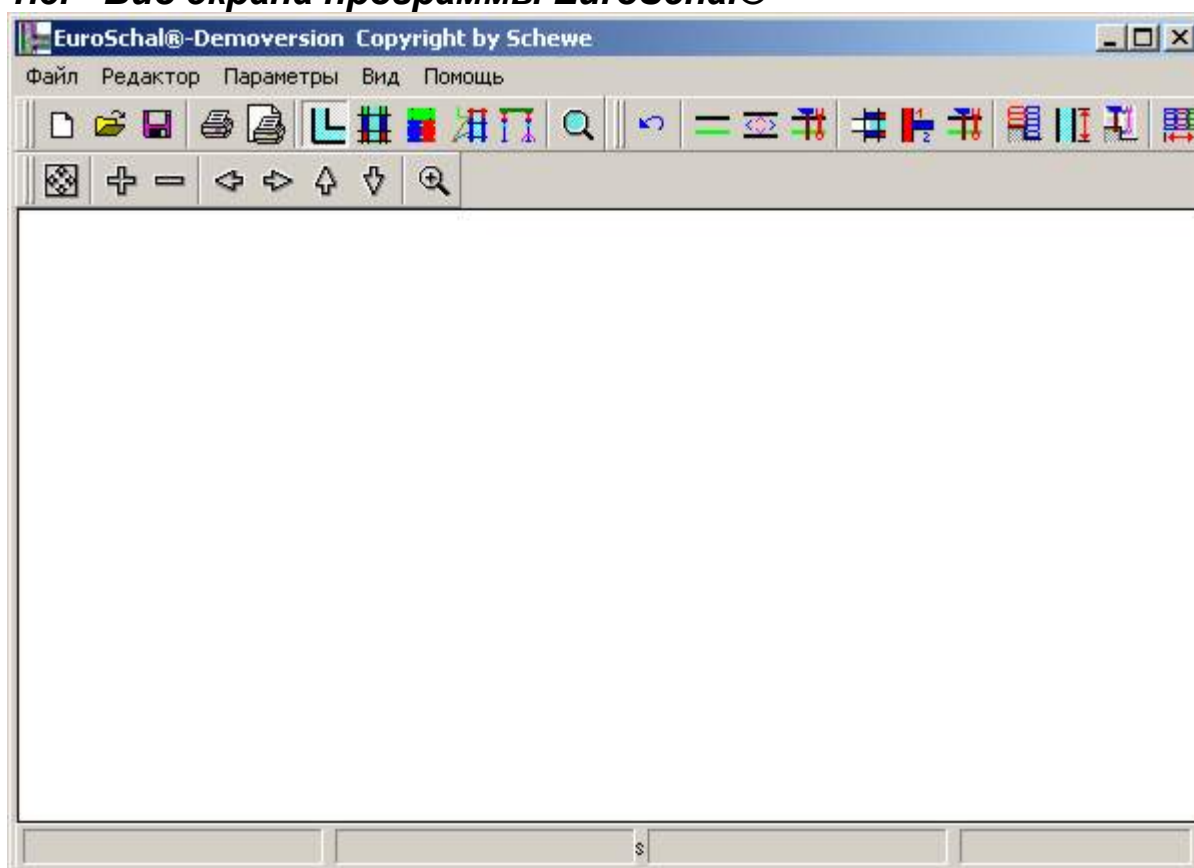
2) Подключение ключа лицензии

Ключ подключается к серверу в параллельный порт принтера. Рекомендуется остановить и выключить сервер перед механической установкой ключа, чтобы избежать поломки системы статическим электричеством.

Если необходимо подключить принтер – воткните его разъём в разъём ключа.

1.2. Запуск ЕвроОпалубки®

1.3. Вид экрана программы EuroSchal®



1.3.1. Панель инструментов

При помощи мыши можно выполнять часто используемые инструкции программы, нажимая на многочисленные кнопки панели инструментов.

1.3.2. Статусная строка

В нижней строке окна находятся три секции. Первая показывает координаты X и Y рисуемой стены. Вторая показывает длину и угол рисуемой стены. Третья показывает значение длины стены, находящейся под курсором. В самой правой части статусной строки показано наименование склада, с которого будут взяты элементы.

1.3.3. Контекстное меню

Контекстное меню служит для выполнения возможных в текущий момент инструкций. Контекстное меню изменяет своё содержимое в зависимости от этапа работы.

Для открытия контекстного меню кликните в любом месте экрана чертежа правой кнопкой мыши. Появится окно с инструкциями. Выполнить одну из команд можно кликнув в неё левой кнопкой мыши.

Диалоговое окно

Многие функции начинаются с окна диалога. Оно служит для ввода размеров и параметров в соответствии с Вашими требованиями. Окно диалога можно переносить по экрану в нужное место.

1.3.4. Всплывающие подсказки

Когда Вы наводите курсор на кнопку панели инструментов, то появляется подсказка, показывающая название функции кнопки.

1.4. Mouse input

If you have a mouse with two keys, use the left key to choose instructions and the right key to show menus.

1.4.1. Point

Place the mouse pointer to the desired element

1.4.2. Click

Point to an element and click with the left mouse key on it. Let it go immediately.

1.4.3. Shift

Point to an element, click with left mouse key, hold it pushed and move the mouse to the point you want. Then let the mouse key go.

1.5. Zoom

You can enlarge a part of the plan to see details better and do inputs easier. The visible detail can be altered in different ways. You can do this even during a wall input.

1.5.1. Directly with the mouse


You will come to the zoom mode with the „zoom“  symbol or with the instruction “zoom” in all context menus.

In the zoom mode you can pull up a rectangle with the mouse. The content is shown in the window.


If you do a double click with the left mouse key in the zoom mode, the whole floor plan is shown..

1.5.2. With the symbols





 Show whole floor plan

 Enlarge visible detail

 Reduce visible detail

 Move visible detail to the right side.

 Move visible detail to the left side.

 Move visible detail to the bottom.

1.5.3. With the keyboard

You can call the zoom instructions from the symbol bar directly over the keyboard;

BACKSP Show whole floor plan


For the following keys you must push on the numerical key block (right side of keyboard):

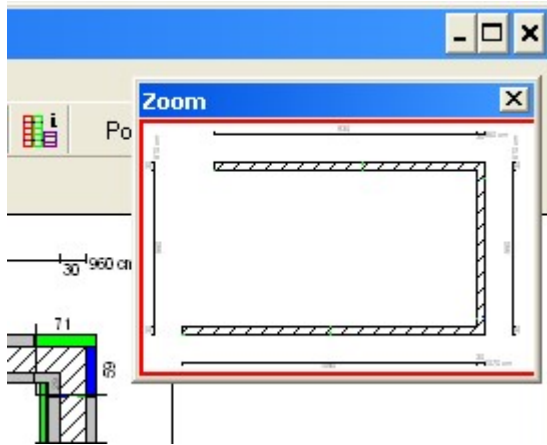
+ Enlarge visible detail

- Reduce visible detail

With the four cursor keys you can move the visible detail in every direction.

1.5.4. With the zoom window

With the „zoom window“  symbol the zoom window can be opened.



The zoom window is an overlapping window which is always shown in the foreground. It can be shifted as you like and size can be change.


The zoom window always shows the whole floor plan of the last active window. If there are several windows on the screen (e.g.: side view) you can see the content of the window where the last input was done. If you want another window to be shown then click with the mouse on it. It is then shown in the zoom window.

The red rectangle shows the visible detail on the screen. If the visible detail on the screen is changed with a zoom instruction, also the red rectangle is updated.


With the mouse you can pull up any new detail in the zoom window which is to be shown enlarged on the screen. For it click with the mouse on one corner of the area you like and shiftclick the area. After you let the mouse key go the detail is zoomed.

The visible detail can be shifted in the zoom window when you place the mouse above the red frame. There the mouse pointer changes to a double arrow and you can then shift the visible detail with the mouse.

2. Input

With the symbol „show floor plan“  or the instruction „show floor plan“ from the menu „window“ the floor plan window opens. It is only possible to do changes in the floor plan in this window.

2.1. Walls

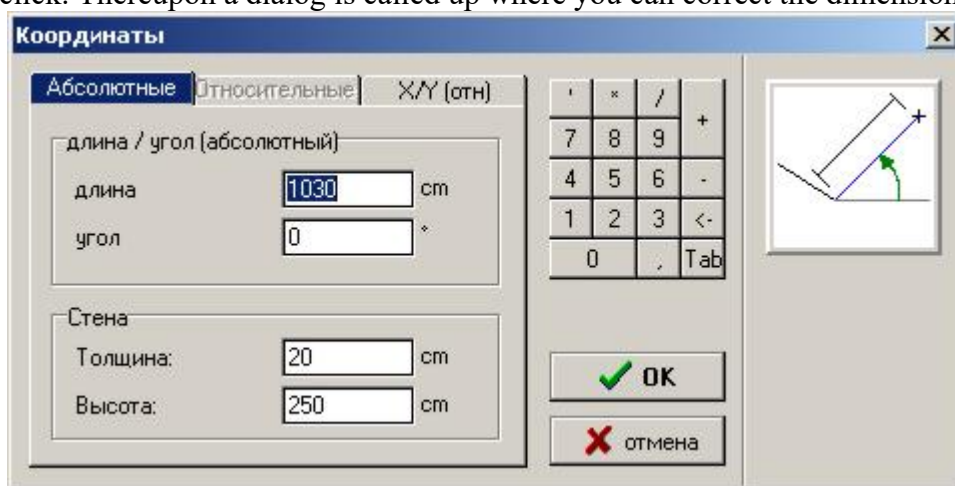
The wall input is started with the symbolm „wall input“  or the instruction „wall input“ from the menu „Edit“.

Walls are always drawn by mouse in EuroSchal. You always have to input a start and an end point of a wall.

First wall

If you want to draw a new wall which is not connected to an existing wall, click with the mouse on a free place in the plan where the wall should start. Now drag the wall in the desired direction. In the status bar you can watch length and angle of the wall.

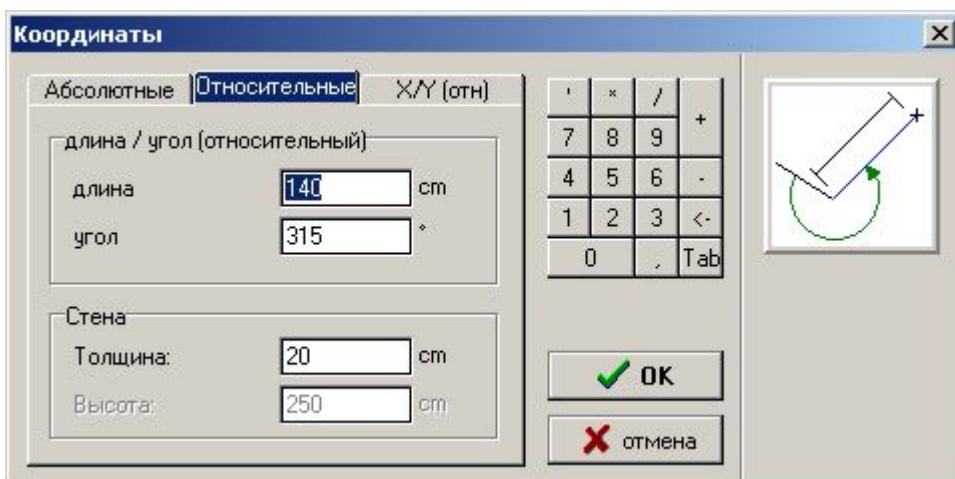
If the wall has about the right length and angle, confirm the end point of the new wall with a click. Thereupon a dialog is called up where you can correct the dimensions again.



The screenshot shows the 'Coordinates' dialog box with the 'Абсолютные' (Absolute) tab selected. The 'длина / угол (абсолютный)' section has 'длина' (length) set to 1030 cm and 'угол' (angle) set to 0°. The 'Стена' (Wall) section has 'Толщина' (Thickness) set to 20 cm and 'Высота' (Height) set to 250 cm. A numeric keypad is visible on the right, and a small diagram shows a wall segment with a green arrow indicating the angle.

L/W (abs)

If this register side is active the dimensions of the new wall can be entered. The absolut angle refers to the horizontal line to the right (0°) and is measured in “°” anticlockwise. The values of the entered wall are shown in the fields „length“ and „angle“. You can either accept or correct it.



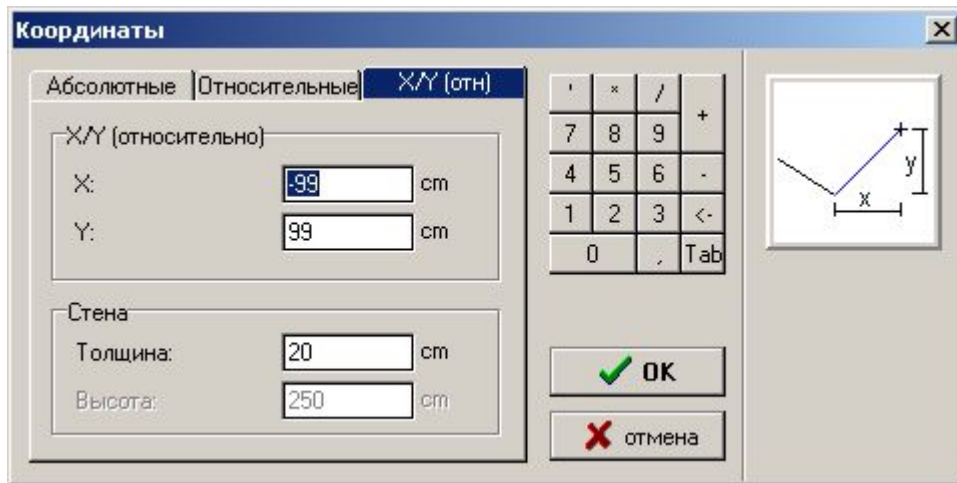
The screenshot shows the 'Coordinates' dialog box with the 'Относительные' (Relative) tab selected. The 'длина / угол (относительный)' section has 'длина' (length) set to 140 cm and 'угол' (angle) set to 315°. The 'Стена' (Wall) section has 'Толщина' (Thickness) set to 20 cm and 'Высота' (Height) set to 250 cm. A numeric keypad is visible on the right, and a small diagram shows a wall segment with a green arrow indicating the angle.

L/W (abs)

The length of the new wall can be entered directly in this register side. The direction of the new wall can be entered relatively to the wall connected. Therefore this instruction is only active if

you connect a new wall to the existing one. (see **Fehler! Verweisquelle konnte nicht gefunden werden.**).

So you have the possibility to connect a new wall to a slanting wall with a right angle(90° oder 270°) without knowing the angle of the existing wall.



X/Y (rel)

If the length of the new wall is not known but the dimensions of the x and y direction, this wall can be input with the X/Y (rel) register. The measurements X and Y are related relatively to the start point of the wall. The positive directions are to the right and upwards, the negatives to the left and downwards.

Furthermore the wall strength can be corrected. You can also enter the height of a new wall which is not attached to an existing wall.

2.1.1. Connected walls

2.1.1.1. At the corner

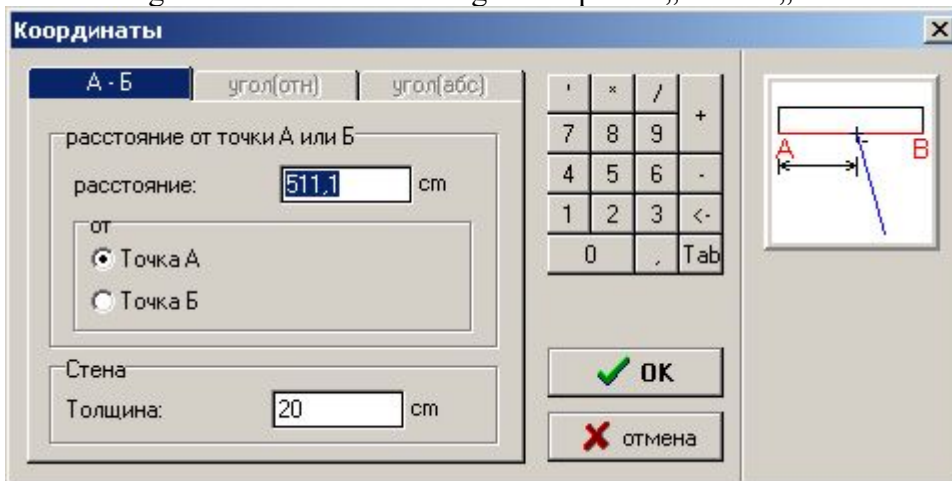
If the new wall joins an already existing wall and should build a corner with it, you have to click with the mouse to an end point of the existing wall. If the mouse is above an existing wall, a black point is shown beside the mouse pointer. The black point shows that EuroSchal® has recognized, that you want to connect to the existing corner.

Which of the points you have to click depends on the measurement of the existing wall – if it has the measure of the inner or outer side. When entering a corner the clicked point is kept and the opposite point is adapted. The wall side of the opposite line is layed down automatically.

2.1.1.2. In the middle of a wall

If a new wall is to join an already drawn wall you have to click on the place where the wall should join the other. It is important that there is a black line beside the mouse pointer. This line shows that EuroSchal® has recognized you want to connect to a wall.

The existing wall is marked red and gets the points „A“ and „B“ .



Furthermore a dialog window opens where you can fix the distance of the new wall from „A“ or „B“. This measure is always related to the green drawn line of the wall. In case that the second line is on the wrong side of the line, it can be changed with the instruction “change wall side”.

2.1.2. Close floor plan

2.1.2.1. At the corner

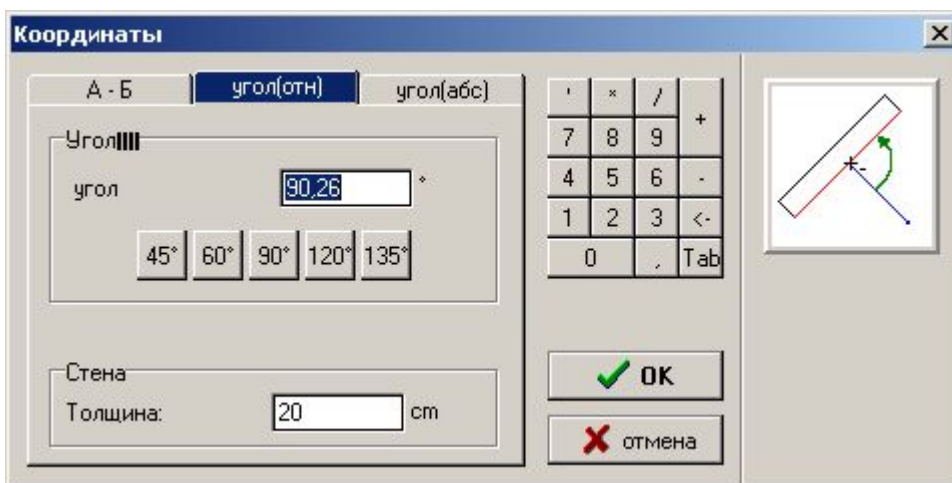
If a floor plan should be closed, that means, if the end point of a new wall should directly connect to the end of an existing wall, you must click with the mouse on the end point of the existing wall while beside the mouse pointer is a black point. After clicking, no coordinate window is shown, the floor plan is closed.

Caution: A wall for closing the floor plan is not allowed to be entered by the coordinate window because EuroSchal® would not recognize that the floor plan should be closed.

2.1.2.2. In the middle of a wall

If an end point of a new wall should join the middle of an existing wall you have to click with the mouse on the existing wall and a black line appears beside the mouse pointer. These line is marked red and is written with „A“ and „B“ like the connection of a new wall to an existing. (see 2.1.1.2).^

Apart from the possibility to fix the connection point about the distance of point „A“ or „B“ there are two more possibilities:



Angle (rel):

Here you can enter in what angle the new wall should join the the existing wall. You can either

choose directly a pre defined angle by the buttons or enter the angle in the input field. The length of the wall is automatically defined.




Angle (abs):


Here you have the possibility to give the absolute angle (not relativ to another) of a new wall. The connection points and also the length of the new wall are automatically calculated.

2.1.3. Change wall side

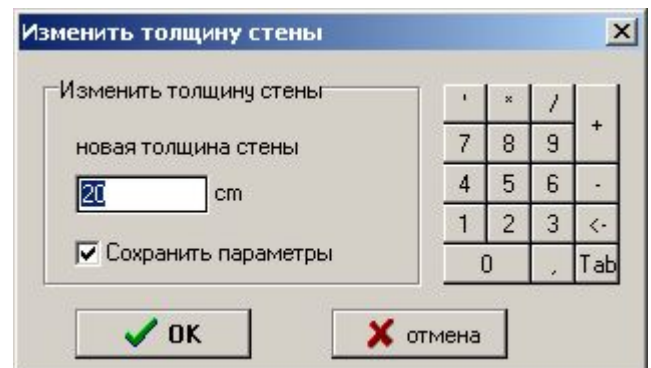
During the wall input always one side of the wall is directly entered by mouse. This side is drawn green. The opposite side is drawn black. All inputs of length, position, coordinates relate to this green line.

With the symbol „Change wall side“  or with the instruction „Change wall side“ from the context menu the opposite wall can be changed relative to the green line.


2.1.4. Change wall strength

With the symbol „change wall strength“  or the instruction „change wall strength“ from the context menu the strength of the wall can be changed.


If this instruction is called after entering the start point of the new wall, only the strength of the new wall is changed. If you call up this window before you start with the wall input, you can change the wall strength for all walls you want to draw.



2.1.5. New wall


With the symbol „New wall“  or the instruction „New wall“ from the context menu you can delete a started wall.

2.1.6. Polygon

With the symbol „Polygon“  or the instruction „Polygon“ from the context menu you can stipulate if a new wall should be drawn automatically at the end point of an existing wall.

Is the end of a wall connected to an existing wall, no new wall is connected also if „Polygon“ is active.

2.1.7. Ortho

With the symbol „Ortho“  or the instruction „Ortho“ from the context menu you can stipulate that walls can only be entered in fixed angle distances.

The angle steps can be entered in the „snap adjustment“ (see **Fehler! Verweisquelle konnte nicht gefunden werden.**).

2.1.8. Snap adjustment

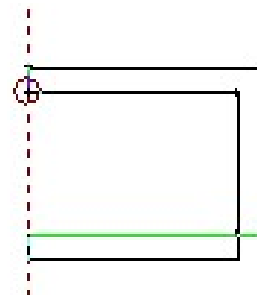
2.1.8.1. Snap

Here you can fix the value in which steps the wall length can be drawn with the mouse.

2.1.8.2. Catch existing x-y coordinates

If this button is active every mouse move is checked during the wall input for the x and y coordinates. If there is another point with its coordinates near the mouse this point will be caught. A horizontal or vertical line is shown in the plan.

With this function easy rectangular floor plans can be entered without entering one wall twice. The input of the first and the second line must be exact. The third line can be entered with the same length like the first one with this function. The fourth line closes the floor plan without input of a length.




2.1.8.3. Ortho

(see 2.1.7).

2.1.9. Relativ to reference point

If you have to input a point (e.g. during wall input, while moving or reflecting the floor plan) which should have a fixed distance and direction to a corner, you can do it with this function.


To activate this function, click on the symbol „relative to reference point“  or the instruction „Relative to reference point“ from the context menu. The mouse pointer changes to a circle with a cross in the middle.

Now the reference point must be chosen. Normally this is an already drawn corner or wall end. After clicking on the reference point a coordinate dialog appears, where you have to say in which distance and direction the new point should be (relatively to the chosen reference point).

This you can do either by input length and angle or by input the distances in x and y direction (like wall input).

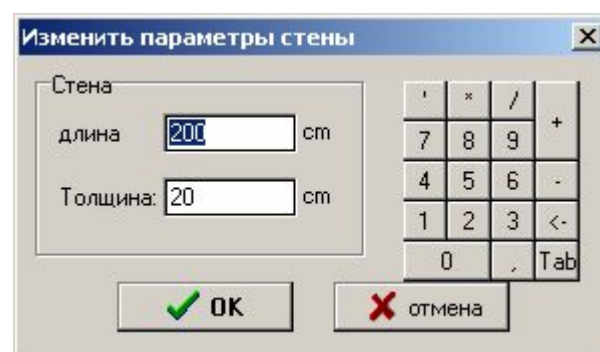
After confirming the dialog the new point is chosen. This can be, for example, the start point of a new wall or a point of the reflection axis.

2.2. Change wall length and wall strength

The alteration of the walls is started with the symbol „change wall“  or the instruction „change wall“ from the menu „edit“.


Please click then on one of the two lines of the wall you want to change. This line is marked red and it appears the dialog „change wall“.

In both input fields „length“ and „strength“ you can enter new values. After clicking on „OK“ the wall is changed.



If an input has been made in a dialog, which EuroSchal® cannot assign to the wall, you will be informed. In this case the wall is not changed.


2.3. Edit walls


The edition of walls is started with the symbol „edit walls“  or the instruction „edit walls“ from the menu „edit“.

2.3.1. Mark walls


With a click on one of the two lines of a wall this wall is chosen. It is then drawn red. If you click on a marked wall, the marking is removed.

If several walls are to be marked this can be done by mouse through pulling up a marking field. Therefore click on a corner of an area you want and shift-click the window. If all walls you wanted to mark are within the window let the mouse key go. All walls which are within the pulled up rectangle are marked.


With the symbol „choose all walls“  or the instruction „choose all walls“ from the context menu you can mark all walls of the floor plan all at once.

With the symbol „Clear selection“  or the instruction „clear selection“ from the context menu you can demark all walls.

2.3.2. Delete walls

With the symbol „Delete“  or the instruction „Delete“ from the context menu all marked walls are deleted.


2.3.3. Shift walls

With the symbol „Shift“  or the instruction „shift“ from the context menu you can shift walls. Always completely connected areas can be shifted. For this reason all walls are marked when choosing the instruction „shift“, which are directly connected with a marked wall. Deshalb werden beim Auswählen des Befehls „Verschieben“ alle Wände markiert, die direkt mit einer markierten Wand zusammenhängen.

For shifting you have to click on the start point of the shifting. Then you clickshifting the floor plan by mouse in the desired direction. The shifted floor plan is shown sketched. The exact values of the shift is shown in the status bar(distance , angle, x-coordinate, y-coordinate).

If the floor plan has the position you want, click on the end point. The coordinate dialog appears (see wall input 2.1.1.) where the move is controlled once again and can be corrected.

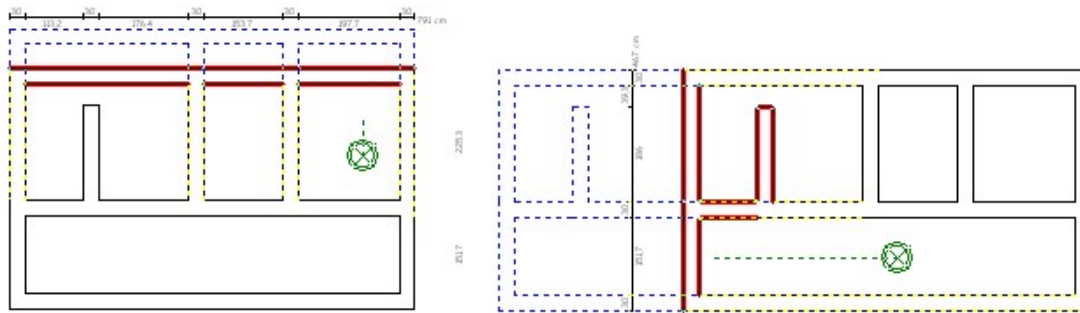
2.3.4. Stretch walls

With the sybol „Stretch“  or the instruction „Stretch“ from the context menu you can stretch parts of the floor plan.

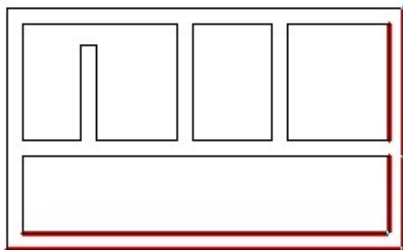
For that reason mark the wall or walls which should be moved. After activating the instruction “stretch” the start point must be clicked. Then the floor plan can be changed by mouse. When clicking on the end point the coordinate dialog appears (see wall input 2.1.1), where the exact dimensions of the change can be entered.

Stretching only works when the choice of the walls to be shifted is correct. All lines which should be shifted completely must be marked. All walls connected to the marked lines must be parallel to each other. Then the instruction “stretch” can be activated.


Examples of valid choices:



Example of invalid choice:




2.3.5. Copy walls

With the symbol „copy“  or the instruction „copy“ from the context menu you can copy walls. To copy walls is the same as to shift walls (see **Fehler! Verweisquelle konnte nicht gefunden werden.**). The only difference is that after confirmation of the coordinate dialog the walls are not shifted but copied to a special point..


In the coordinate dialog you can also say how many copies should be fitted into the plan. The standard value is 1. A copy at the end point is inserted. If there is more than one copy these copies are always fitted into one after the other in the given distance and same direction.

With these function it is e.g. easy possible to insert several props or foundation blocks which have all a constant distance to each other.

2.3.6. Turn walls

With the symbol „turn“  or the instruction „turn“ from the context menu you can turn walls. Like copying or shifting only connected floor plan parts can be turned. First you have to click on the fulcrum where the walls shall be turned. Then you can turn the walls by mouse. After clicking on the end point the coordinate dialog appears again and there you can correct the angle you have turned the wall.

2.3.7. Reflect walls

With the symbol „Reflect“  or the instruction „reflect“ from the context menu you can reflect walls. After activating the instruction, you have to enter 2 points of the reflection axis where the wall is to be reflected. For that reason first click on the first point, pull up the reflection axis and click then on the second point. Then the coordinate dialog appears again where you can change length and direction of the reflection axis.

After confirmation of the dialog you will be asked if you want to keep the original walls (a reflected copy is added) or if they are to be deleted.


Tip: If you want to enter a reflection axis in a certain distance to a given wall click for the first point of the reflection axis a corner point of these line and choose then the instruction „move basic point“ from the context menu. You can now decide on which direction and distance to the corner point the first point of the reflection axis should be shifted. This information can be

corrected in coordinate dialog. Now the first point of the reflection axis is fixed and you can enter the second point.

2.4. Pours

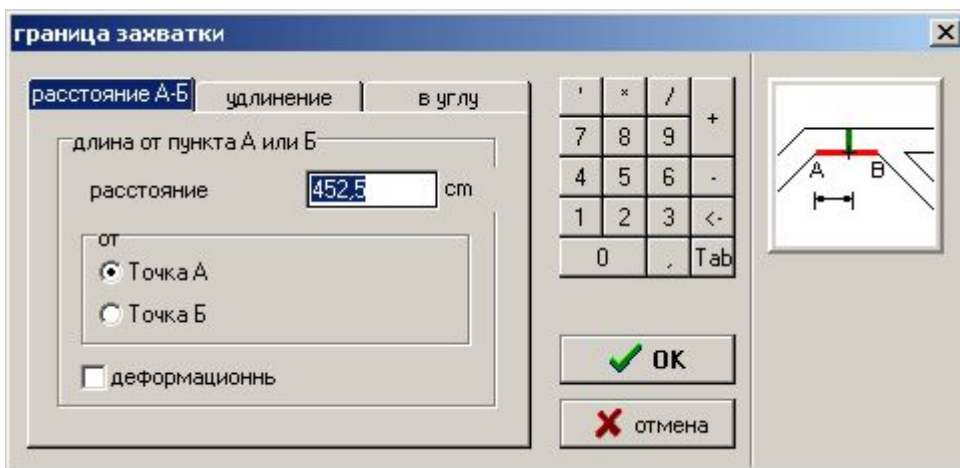
The pour input is made in two steps. First the pour borders are entered and then the order is layed down in which the pours are to be shuttered.

2.4.1. Enter pour borders

You start the input of the pour borders with the symbol „pour input“  or with the instruction „pour input“ from the menu „edit“.

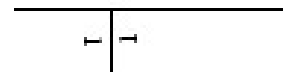
To enter a pour border, click with the mouse on a line, where the pour is to be added. The dialog „position of pour border“ appears. This line is written „A“ and „B“ in the floor plan. In the dialog you can now say if you want to enter the distance of the new pour border from point “A” or point “B”. Then enter in the the distance in the field “distance”.

A pour border can also entered in „lengthening“ of a corner or diagonal „in corner“. No distance must be entered, only the “A” or “B” side.




After clicking on „OK“ the pour border is inserted..

The pour border is shown as a line crosswise throught the wall. The two numbers on the two sides of the pour border show the number of the pour on the particular sides. Directly after the input of the pour border, normally both pour numbers are equal. They must give the order in which the pours are to be shuttered.




2.4.2. Pour order

You can start the input of the order with the symbol „pour order“  or with the instruction „pour order“ from the menu „edit“.

Click then on a line of the pour. A dialog opens where you can enter the number of the pour. It is always suggested a pour more than available at the moment. You can either choose a pour number you want from the list or enter directly. After clicking on „OK“ all connected lines up to the next pour border get allocated this pour number. This can see the number at the bour border.

If you change the to the „formwork view“ the different pours are shown in different colours cross-hatching so it easier to control the right pour order.

2.4.3. Edit pours

If you want to change the pours, you can do this with the symbol „edit pours“  or with the instruction „edit pours“ from the menu „edit“.


You can then mark or demark one or several pour borders by mouse.

You can also delete this marked pour borders or add or remove a joint grid and move the pour borders. In order to shift only one pour border must be marked. Again the same dialog as before appears (see 2.4.1).

2.5. Base step


The input of base steps is the same as the input of pours and is made in two steps. First you have to enter the position of the base steps and then the height of the walls are fixed.

2.5.1. Enter base steps

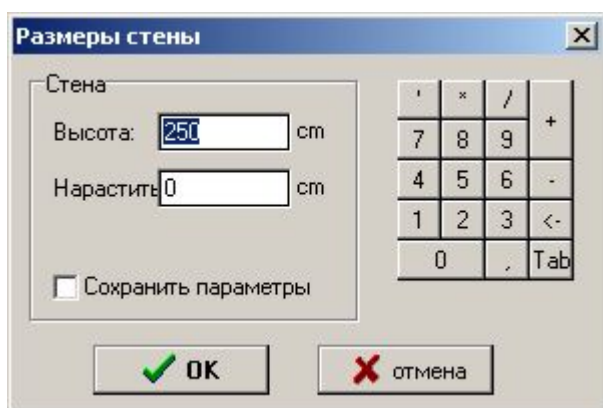
You start the input of the base step with the symbol „enter base step“  or with the instruction „enter base step“ from the menu „edit“.

Same procedure as „enter pours“ (see 2.4.1).

2.5.2. Stipulate height

The wall input is started with the symbol „input height“  or with the instruction „wall height input“ from the menu „edit“.

Then click on a line where you want to enter the height. A dialog window appears, where you can enter the wall height and wall nip.




The height is the actual height of the wall. With help of the input field “wall nip” you can enter walls which start from different levels. If a wall has a “nip” of 0cm and the second wall has a “nip” of 50cm, the second wall starts 50cm above the first wall. The wall is measured from this point.

After clicking on „OK“ all lines up to the base steps, which are directly connected to the marked line, get this setting.

You can control the height of the lines when you point with the mouse over a line. In the status bar the you can see the wall length and height.


The height and base steps can be controlled in the side view (see **Fehler! Verweisquelle konnte nicht gefunden werden.**).

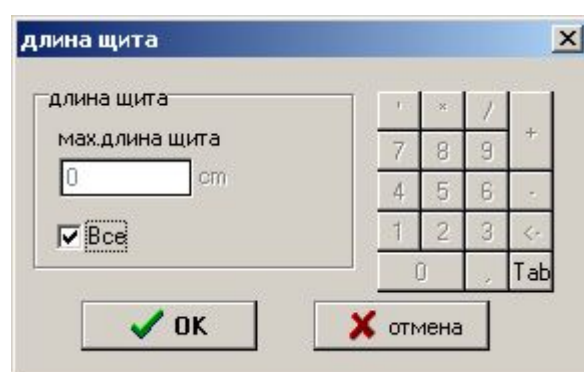
2.5.3. Edit base steps

You start the changes of the base steps with the symbol „edit base steps“  or with the instruction „edit base steps“ from the menu „edit“.

The base step change is the same procedure as the pour change (see **Fehler! Verweisquelle konnte nicht gefunden werden.**).


2.6. Maximum panel length

With the instruction „maximum panel length“  or the instruction „maximum panel length“ from the menu „edit“ you can stipulate that

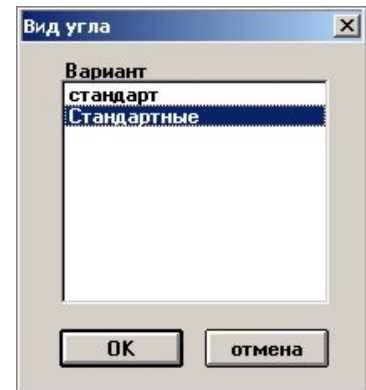


single walls may only be shuttered with panels up to a certain length. For that reason click on a wall and a dialog appears, where you can enter that all panels may be used or the length of the longest panel that may be used.

2.7. Choose corner variant


With the symbol „input corner settings“  or the instruction „input corner settings“ from the menu „edit“ you can stipulate the kind of formwork the 90° corner is to be shuttered (e.g.: with outer corners, with universal panels...).

Then you have to click on a 90° corner in the floor plan. This corner is marked with a red circle and a dialog appears where all available variants of the active formwork system are shown. If there isn't a wall formwork store loaded, the store selection appears where you have to choose the store you want the floor plan to be shuttered later.

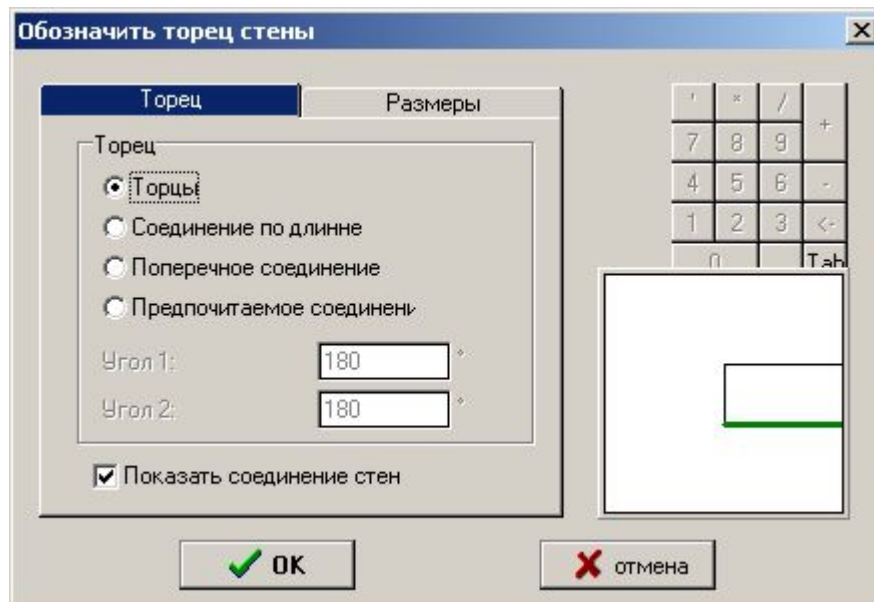


As a standard it is always the item „standard“ active at all corners. This means that the kind of corner shuttering is determined of the formwork setting. If you want to shutter all corners in the same way you do not have to fix different corner variants to all your corners. You can do this simply by changing the formwork setting. You will need this instruction only if you want to shutter a single corner different from the others.

2.8. Stipulate wall end

With the symbol „input wall connection“  or the instruction „input wall connection“ from the menu „edit“ you can lay down the typ of a wall end.

If you click on a free wall end it is marked with a red circle and the following dialog appears:




In the register side „wall end“ you can stipulate which kind of end you want to have in this case. „Stopp end“ is a normal wall end. All others name connections at existing walls.

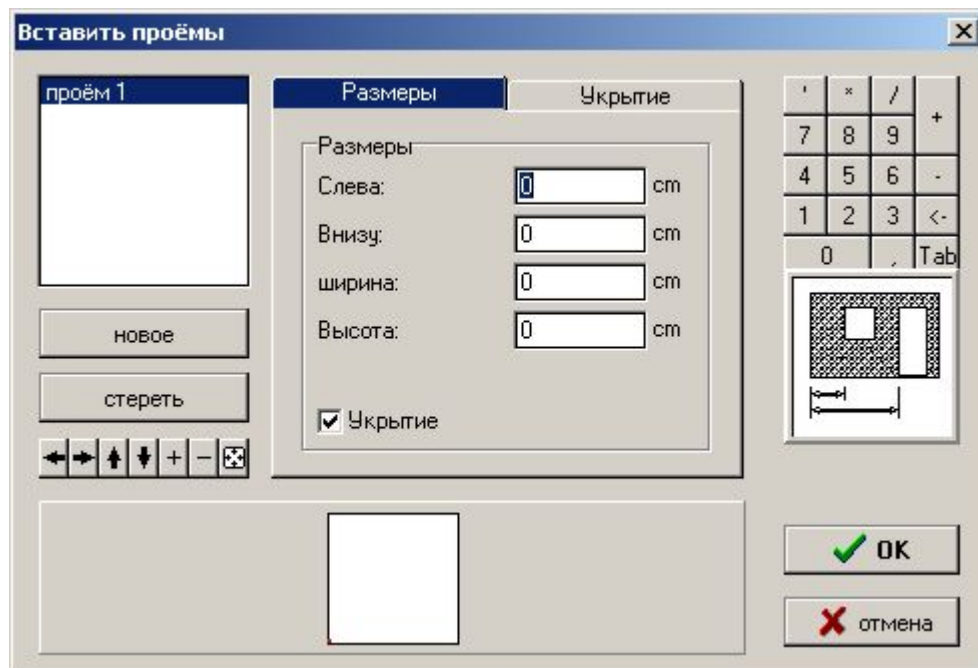
If a connection is chosen at an existing wall, it is shown in the floor plan except you have demarked the point „show wall end“.

With the register side „measurements“ you can enter slanting wall ends.

2.9. Openings


With the symbol „enter openings“  or the instruction „openings“ from the menu „file“ you can enter openings (windows, doors...). These openings are shown in the view and side view and considered in calculation of the concrete volume.


By clicking on a line a dialog appears where the openings of the choosen wall are entered. The choosen line is marked red.




In the left list the openings of this wall are shown. In the area below the side view of the current wall is shown with the entered openings. The marked opening in the top lefthand is shown red.

With the input fields in the middle of the window the coordinates and the size of the marked openings can be entered and checked. The coordinates „left“ and „Bottom“ denotes the distance between the bottom lefthand corner of the opening and the bottom lefthand corner of the wall.


With the button  you can enter a new opening. Then you must enter the coordinates and size in the input fields.

With the button  you can delete the marked opening.

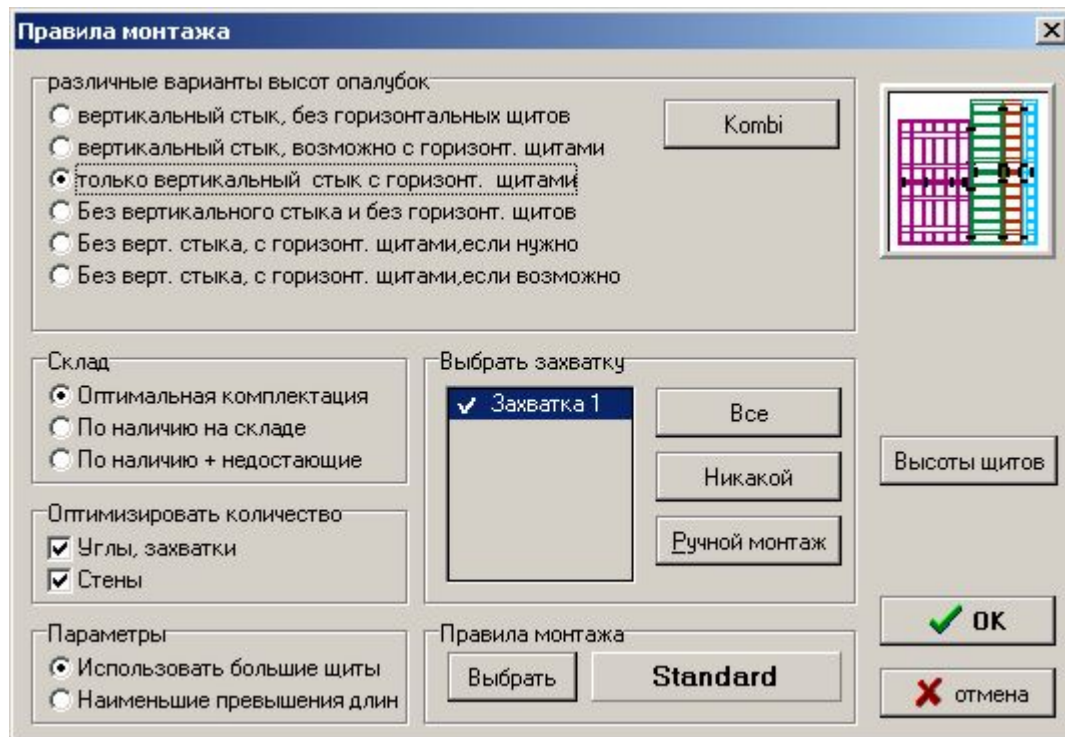
3. Formwork calculation

With the symbol „show shuttering“  or the instruction „show shuttering“ the formwork window opens. In this window the wall formwork is shown in the view. From this window on the calculation of the wall formwork can be started.

3.1. Select store

With the symbol „select store“  or the instruction „select store“ from the menu „edit“ you can choose which formwork system should be used for shuttering the current plan. After closing the dialog with „OK“ the shuttering is started automatically.

3.2. Shutter



3.2.1. Panel orientation

Here you can stipulate the panel orientation, with which higher walls should be formed.

Joint grid without lying panels:

The horizontal and vertical joints must be in the grid. No lying panels are allowed to use.

Joint grid, lying panels possible

The horizontal and vertical panel joints must be in the grid. Lying panels are allowed to use. It is also possible that a lying panel is laid over several standing panels. The ends of the lying panels must exactly end with the standing panels.

Only vertical joint grid with lying panels

Only the vertical joints must go straight through from the bottom til the top. In the horizontal other combinations can be used, e.g. smaller panels with a height of 270 cm can be used standing and next to it a large panel with a width of 270 cm and a height of 240 cm can be used lying. On top of this large panel you can also put a normal lying panel.

Without joint grid, no lying panels

The different levels of the panel orientation are shuttered independent from each other. No lying panels are allowed to use. In every level, except the top, all panels must have the same height.

Without joint grid, with lying panels if necessary

The different levels of the panel orientation are shuttered independent from each other. In every level, except the top, all panels must have the same height. It is tried to shutter the uppermost level with standing panels. If this is not possible, lying panels are used.

Without joint grid, with lying panels if possible

The different levels with the raises are shuttered independently from each other. In every level, except the uppermost, all panels must have the same height. In the uppermost level lying panels are use if through this the formwork jut out can be reduced.

3.2.2. Store Optimum shutter

All panels from the store which are marked „active“ can be used. The stocks are not considered.

Shutter according to stock

All panels from the store which are marked „active“ can be used and a stock >0 must be entered. There are only used so much panels maximum in a pour as entered. If the entered stock is not enough for a pour the remainig walls stay free. If the stock is only adequate for a part of the wall, the whole wall remains free.

According to stock with deficit list

First it is tried to shutter **According to stock**. If a wall can't be completely shuttered with the entered stock the wall is shuttered without considering the stock. The material which is needed in addition (deficit stock) can be shown in the material list under “deficit stock”.

3.2.3. Shutter pours

Here you can stipulate which pours are to be shuttered. Click on the hook of the pour or on a free area and you can say if the pour is to be shuttered or not. If a formwork was shuttered manual, it is shown with an „E“.

3.2.4. Optimize total quantity

With this instruction you can determin if, for shuttering the next pour, the same material is to be used as for the last pours.

This adjustment can be entered seperate for walls and corners.

If this adjustment is active it is tried to shutter a pour with the total quantity of all previous pours. If this is not possible further material from store is used.

3.2.5. Adjustment

This adjustment is related to the panel height of the panel orientation:

Shutter with larger panels

In this adjustment always the largest panels as possible are used in the panel orientation.

Minimize jut out


Here it is tried to reach the lowest jut out as possible by combining several panel heights.

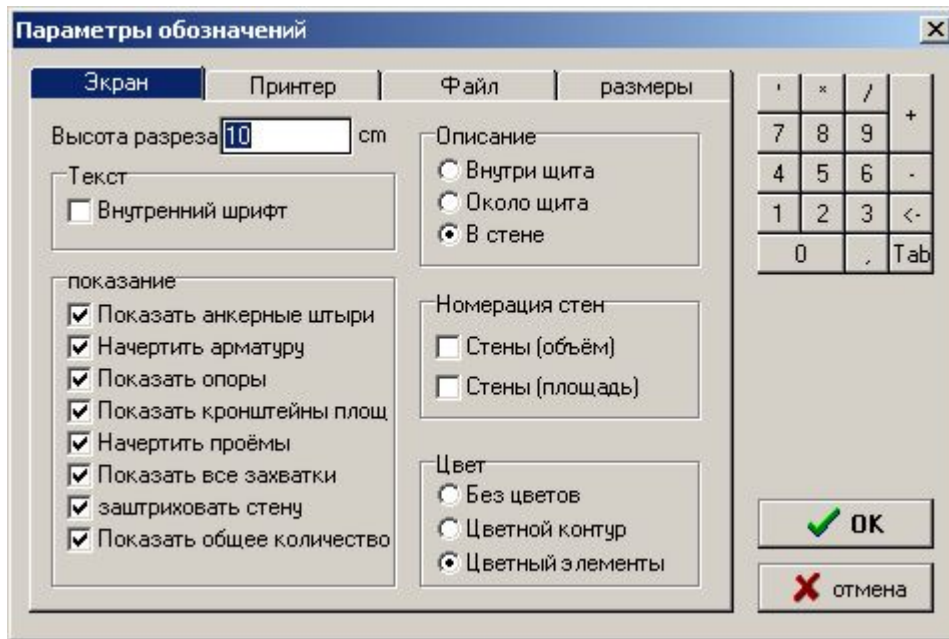
3.2.6. Shutter rule

Here the current shutter rule is shown. Furthermore you can chang the shutter rule (see **Fehler! Verweisquelle konnte nicht gefunden werden.**).

3.3. Representation

3.3.1. Display setting

With the symbol „display settings“  or the instruction „display settings“ from the menu „general settings“ you can stipulate in which way the plan is to be shown or printed.



The representation can be adapted individually for three different versions with register „screen“, „printer“ or „meta file“.

Cutting height

Here you can say which panels of the panel orientation are to be shown in the view. All panels are shown which are intersected by a horizontal level in this height.

Show

Different adjustments can be made here like which parts are to be shown or not.

Labelling

Here you can stipulate the position of the labelling of the panel width in the view.

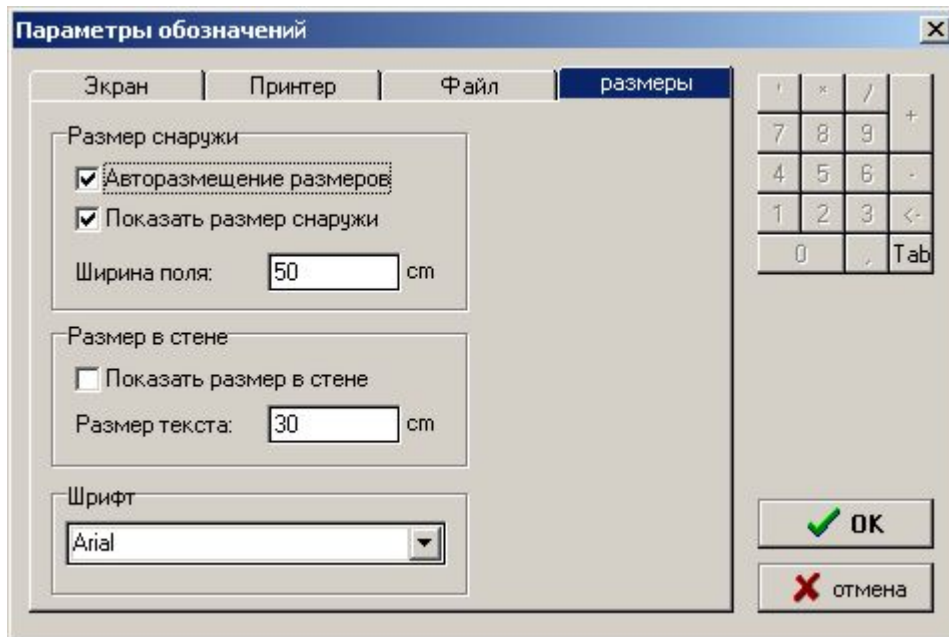
Wall numbering

Here the numbering of the walls can be activated or deactivated. The numbering is necessary for the classifying to walls.

Colour

Here you can say if the panels are filled with colours or the panel is bordered colourd.

3.3.2. Dimension line



With the instruction „dimension line“ from the menu „Display“ the sort of dimension line can be stipulated..

Dimension line outside

Here you can activate or deactivate the outside dimension line. Furthermore you can stipulate if the dimension line is to be generated automatically or if the manual dimension line is to be shown.

With the value „margin width“ you can say how large the dimension line should be compared with the floor plan.

Dimension line in wall

Here the dimension line of the wall length can be switched on or off.

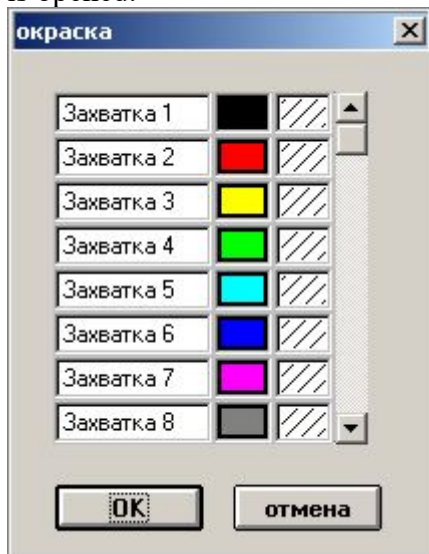
With the value „text size“ you can stipulate the height of the dimension text within the wall.

Font

In this window you can choose the font of the dimension.

3.3.3. Hatch colours

With the instruction „hatch colours“ from the menu „general settings“ the dialog „hatch colours” is opened.




Here you can stipulate the colours and the infill pattern for the walls of the single pours.

3.3.4. Directions for use

With the instruction „Directions for use“ from the menu „display“, the direction for use window can be opened. Here you can see if the programme has problems with the calculation of the formwork. This window is automatically called up after the calculation, if directions for use exist.

In this window you can also delete single directions for use.

3.4. Formwork adjustment

With the symbol „Formwork adjustment“  or the instruction „Formwork adjustment“ from the menu „Setting“ the formwork adjustment is opened.

3.4.1. Walls

Правила монтажа опалубки

Соединения | Пересечения | Высоты стен | Компенсаторы | Закругления

Стены | Вкладыши | Углы | Стяжка | Аксессуары | Торцы

разница

макс.превыш.щитов в верхнем ряду над уровнем бетонирования: cm

Максимальная ширина щита с предпочтительным превышением: cm

До этой стены применять различные выступающие щиты: cm

щиты и рейки-вкладыши

Малые элементы или вкладыши разместить в середине стены

Между каждым крупногабаритным элементом по возможности малый

Универсальные элементы использовать для опалубки стены

Рассчитать самую широкую комбинацию панелей

От такой длины стены использовать большие щиты: cm

Минимальная ширина больших щитов: cm

Максимальная высота брусьев: cm

Максимальное расстояние между соединяющими клеммами: cm

При верт.стыке: макс.высоту для разно лежащих щитов: cm

Стандартные

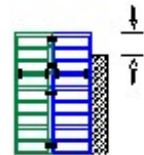
OK

Отмена

Jut out:

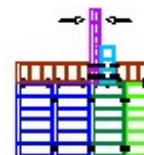
Maximum jut out of panels in the uppermost row

Normally panels in the panel orientation are allowed to jut out above the concrete wall up to this value maximum. This is not always possible and so the next two values form exceptions.



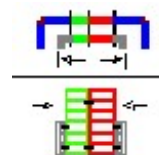
Maximum panel width with projection you like

Panels, which are not wider than this value form an exception to the the value mentioned above. This is necessary cause at a panel orientation with lying panels a wall cannot always be shuttered without standing filler panels. These standing panels may continuing to jut out.



Up to this wall length use panel jut out you like

At very short walls it can be necessary that all used panels have to jut out, if no lying panels fit in. With this value the wall length can be entered up to where the panels may jut out as they like. EuroSchal® always tries to versucht aber immer die Elemente möglichst weit



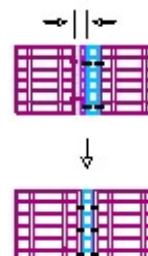
Panels and fillers:

Place small panels or fillers in the middle of the wall

With this switch you can stipulate that small panel or fillers are placed in the middle of the wall.

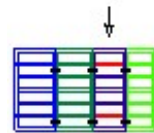
One small panel between each large panel if possible

This function is to reduce the number of tie holes. If possible use small panels between two large panels without tie holes.



Use universal panel for shuttering the wall

This function says if universal panels should be used for shuttering within the wall or only for special purpose at the corner or wall end.

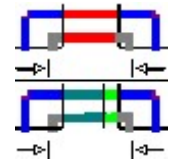


Calculate extended panel combination

This function only has effects if the stock is to be considered when shuttering („shutter according to stock“).

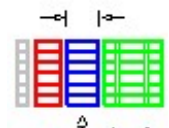
Use „large“ panels from this wall length on

With this and the next value you can stipulate that panels from a certain width (size) on are only to be used with longer walls. This value stipulates the wall length from where on all panels should be used.



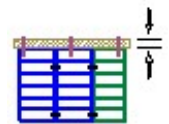
Panels from this width on are „large“ panels

With this value you can say which panels shouldn't be used with small walls also this would be possible.



Maximum height at raised fillers

Small fillers (smaller or equal this value) can be shuttered directly with wood from EuroSchal®. No panels are used in the fillers.

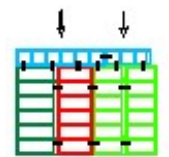


Maximum distance of the clamps for the timber make up

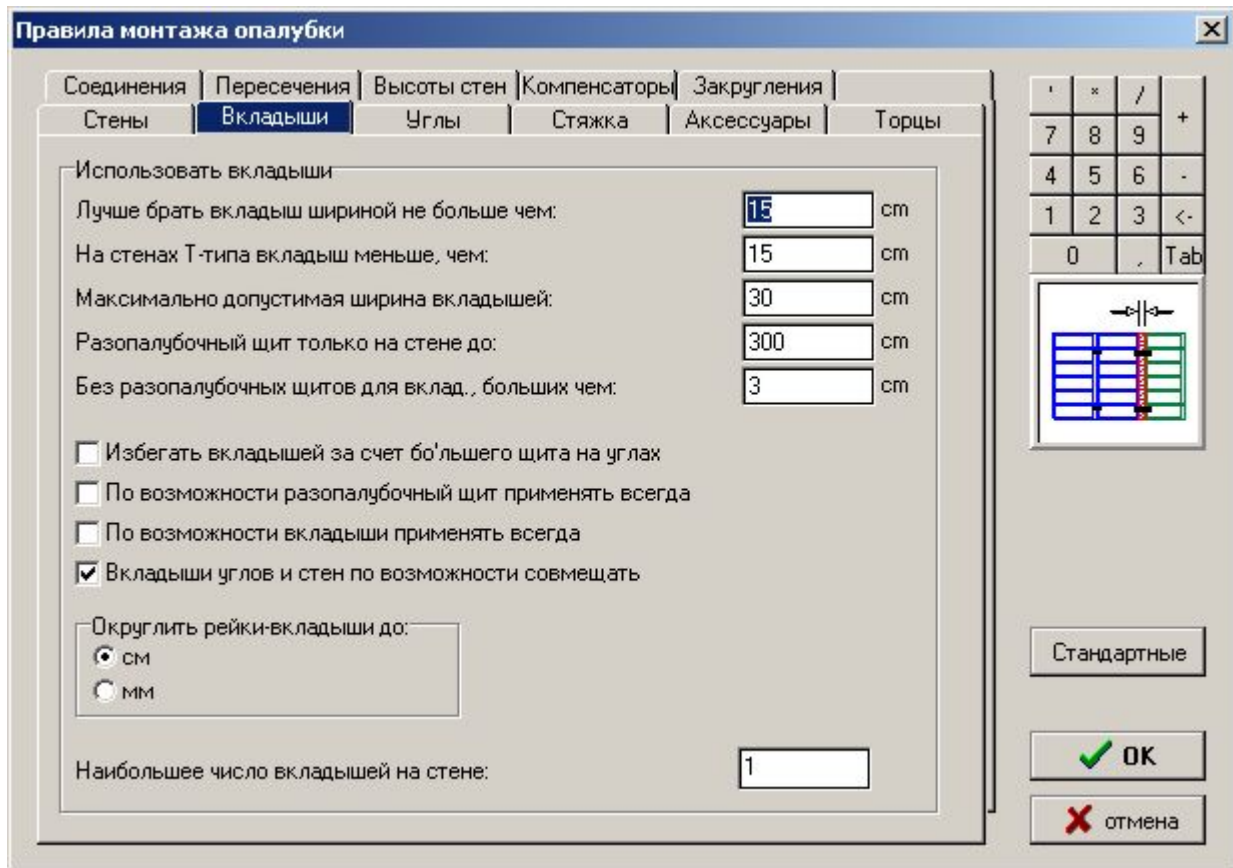
With this value the maximum distance of the clamps is stipulated with which raised panels are fixed.

With joint grid: Max. height for any horizontal panels

When shuttering to joint grid, horizontal panels with which the joint cannot be kept are not allowed to use. With this value a panel height can be stipulated which is allowed to be used in spite of the adjustment „joint grid“ with horizontal panels outside the joint.



3.4.2. Fillers

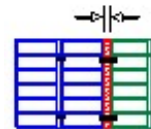


Place wall make up:

If possible use no larger infill in the wall

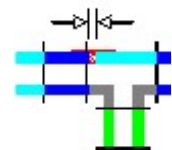
EuroSchal® tries to place the panels in that way that no fillers are necessary which exceed this width. However, it could happen that instead of a few large panels several smaller panels are used.

The programme can overstep this value if too much small panels are necessary to keep to the make up width.



If possible infill sizes at T-walls smaller than...

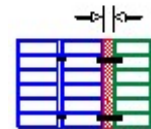
This timber width should not be exceeded at wall ends (T-Walls). If necessary timbers are inserted on both sides of the end and the width of the single timbers is halven.



This infill size must never be exceeded

EuroSchal® will not insert a timber which exceeds this width. Should wall calculating, with a make up smaller than this value, not be possible, the wall is left completely free and an error message will appear.

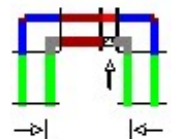
This value should at least have the width of the smallest panel.



Place a stripping panel up to this length

Walls, which are flanked by higher walls, get a possibility for easier stripping. This could be a stripping panel, a timber make up or a make up metal.

If at all walls (no matter how large they are), which are locked up, an ease for stripping should be planed, the value can be put on a high number (e.g. 1000m).



For this infill size and larger do not place a stripping piece

If a stripping piece is to be placed and a timber with at least that width is there, no extra stripping piece must be placed.

Minimize infills at the corner by using larger make up

If through a make up a timber joins to a panel at the outer corner, this timber on the outside can be reduced or removed by enlarging the panel..

Always use stripping piece if possible

At walls, where a stripping possibility is necessary, a stripping panel is used, also if there is an infill through the wall make up.

If possible always use infill

The insert of a make up infill should be always done if possible, if this value is active.

If this value is not active, the infill is only inserted, when no better solution is found.

If possible combine timbers of corner fillers and wall fillers

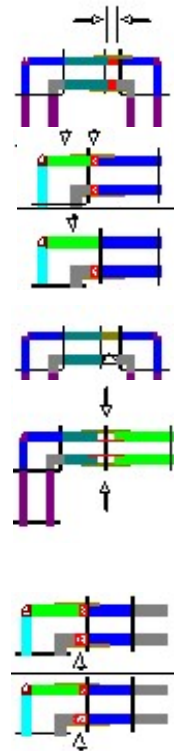
If there is already a timber in a wall through a corner make up, then the timber of the wall make up is placed (by activating this instruction) to the corner make up if possible, so that both timbers could be combined to one larger timber.

Round fillers up to:

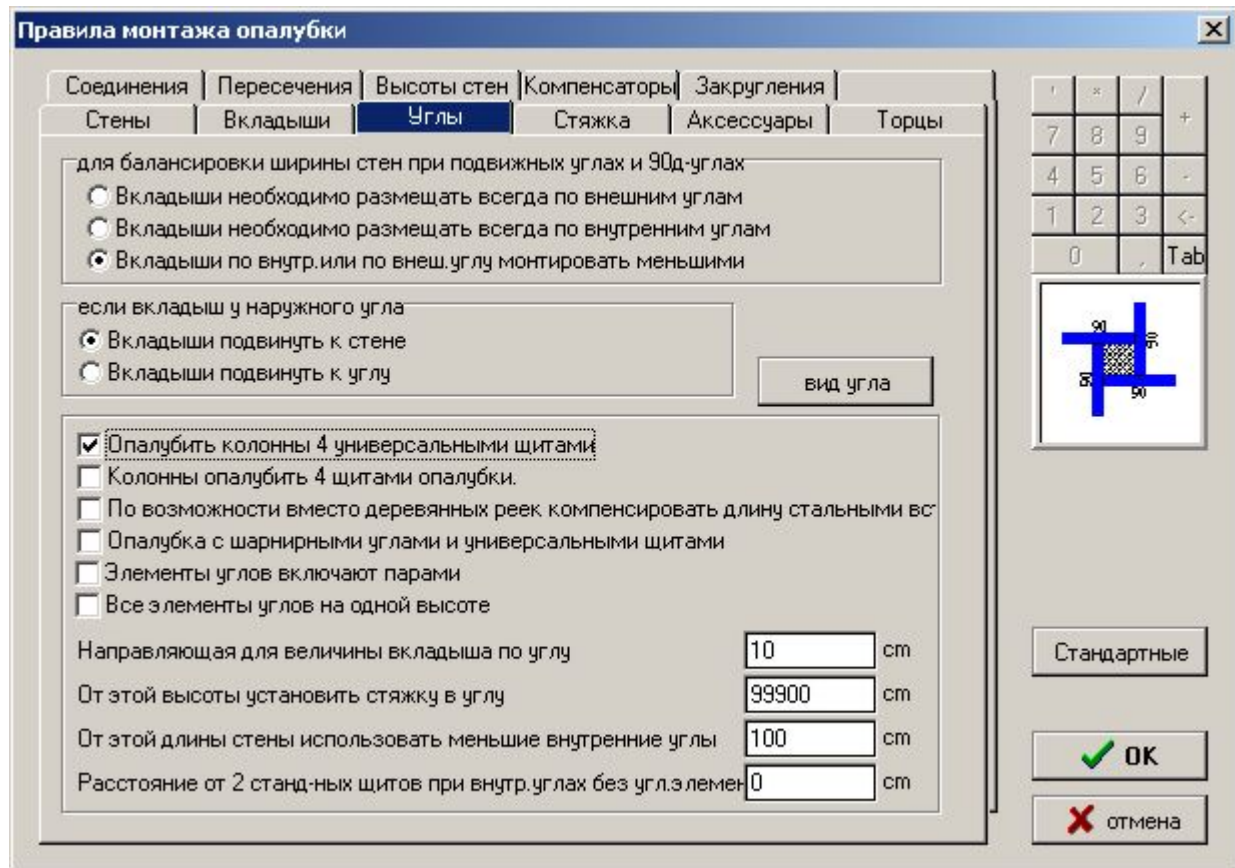
Says, how exactly fillers should be rounded up.

Maximum number of fillers per wall

This value is for most of the formwork systems of no importance and should be left to the standard adjustment.



3.4.3. Corners



Timber for wall thickness make up at movable and 90° corners

Always place make up at outside corner

If there is a make up (timber...) necessary in the corner area, it is always inserted on the outside, also if a small make up would be enough in the inside corner.

Always place make up at inner corner

If a make up is necessary in the corner area (timber...), it is always inserted at the inner corner, also when on the outside a small make up would be enough.

Minimize make up either at the inner corner or outside corner

If there is a make up necessary at the corner area, this corner is calculated so that the make up is at the smaller side.

When make up at the outside corner

Place make up towards wall

If a make up (timber...) is placed on the outside of a corner, you can determine that this make up is put off the corner towards the wall.

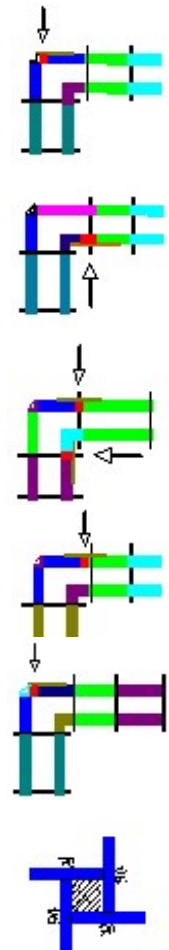
Place make up towards corner

If a make up (timber...) is placed on the outside of the corner, you can say that this make up is connected directly to the corner panel.

Corner

Shutter columns with 4 multi-purpose panels

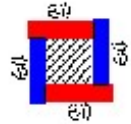
Columns should be shuttered with 4 multi-purpose panels in windmill



system if possible.

Shutter columns with 4 normal panels

Columns should be shuttered with 4 normal panels in windmill system if possible.



Length make up in corner area if possible with steel make up instead of timber

If a corner make up can't be shuttered completely with standard panels, it should be tried to shutter with standard fillers. Only insert timber if necessary..

Shutter make up at movable corners with multi-purpose panels

At movable corners ($< 90^\circ$) the make up can be shuttered with a multi-purpose panel on one side.

Always calculate panels at the corner in pairs

Make up panels at the corner should always be calculated in pairs, even then when different wall thicknesses come together and so an additional make up at one side is necessary.

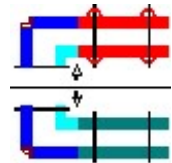
All panels same height in the corner

If this value is active all panels in the corner area are calculate with the same height. This is also done if panels jut out and one part to the panels would have a lower height.

Directions for timber size at the corner

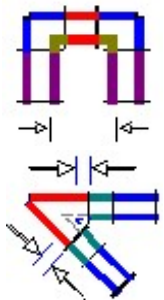
From this wall height on force tie in the corner

At some systems it is normally not necessary to insert a tie at the inner corner, if a large panel with indented ties connect directly. With this value you can stipulate a wall height from where a tie directly at the inner corner is necessary. For the most formwork systems, this value is of no means.

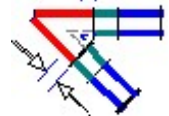


Up to this wall length use smaller inner corners

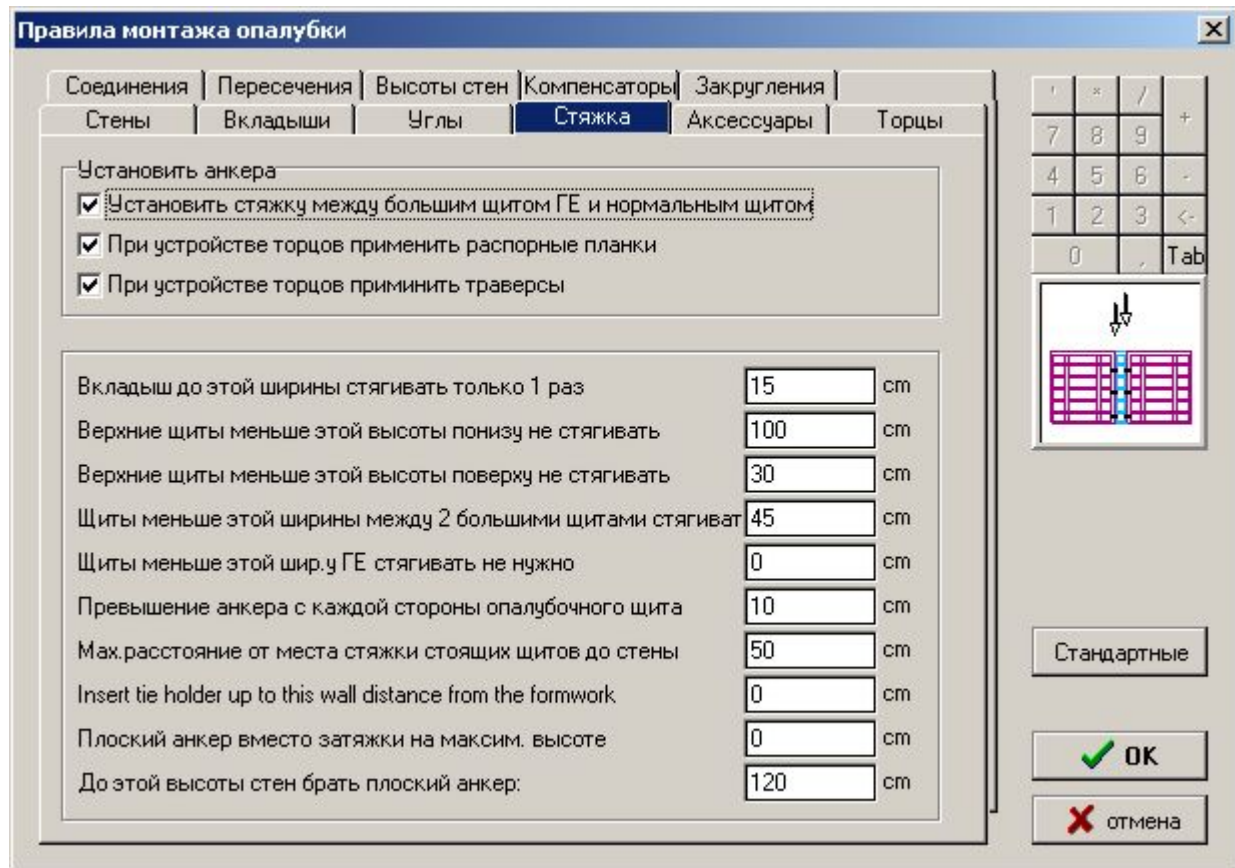
If a system has several different width inner corners normally the wider corners are favoured. At short walls it could be better to insert smaller corner panels.



Distance of two standard panels at inner corners without corner panel



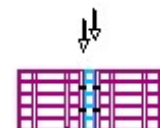
3.4.4. Tie rods



Place tie rods

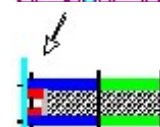
Tie between large panel and normal panel

If between a large panel with a indented tie, a normal panel is at the edge you can say if the normal panel always have to be tied to this bundle.



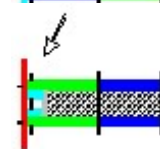
At bulkheads with distance strip: set tie rod

If a bulkheads with accessories like „distance strip“ is inserted, it can be determined if at the end of the last panel it has to be tied or not.



At bulkheads with alignment beam:set tie rod

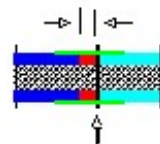
If a bulkead with accessories like „alignment beam“ is inserted, it can be layed down if at the end of the last panel it has to be tied or not. Elements of the typ „alignment beam“ are normally alignment beams, alignment rail...



Tie rods

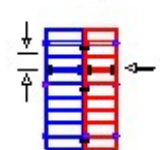
Up to this width infill is only tied once

Infills with a width up to this value only have to be tied once (either on one side or in the middle). At larger infills both panels must be tied on both sides.



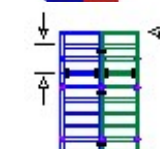
Tie not clamp uppermost elements at the bottom below this height

This setting is normally related to lying panels in multiple panel height. Panels which are not exceed this height are not tied below. The upper tie of the panels beneath will be enough.



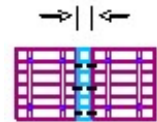
Do not clamp uppermost elements at the top below this height

This setting is normally related to lying elements in multiple panel height. Element which are not exceed this height are not clamped on the tie positions.



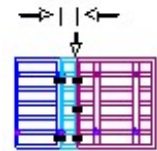
Elements smaller than this width are not clamped between two large panels

If the value „Clamp between large size element and normal element“ is deactivated, the element width can here be entered, from which on a normal element must be clamped between two large size panels. All panels smaller than this value are not clamped between two large size elements.



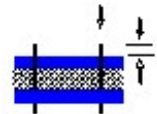
Elements smaller than this width are not clamped on large size panels

If the value „Clamp between large size element and normal element“ is deactivated, the element width can be entered from which on a normal element, which connects to a large element, has to be tied. All elements smaller than this value are not clamped between a flush panel and a large size element.



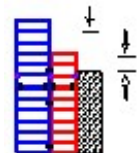
Projection of the tie rod on either side of the form

With this value the minimum length of the tie rod can be fixed. The tie rod must at least be as long as the wall strength + 2x form width + 2x this value.



Maximum distance from ties of vertical elements to wall

Vertical elements (e.g. in the corner), which are projected in the multiple panel height far above the wall are not clamped at the top, if the distance of the ties exceeds the value to the wall top edge.



Put in tie holder up to this wall distance from the formwork

If the uppermost tie rod has to be inserted directly on the top edge of the form (e.g. at horizontal elements), it can be fixed that the tie rod is to be fixed with tie holders above the form and not through the element. This makes sense so that the tie rods do not exactly run through the top edge of the wall.

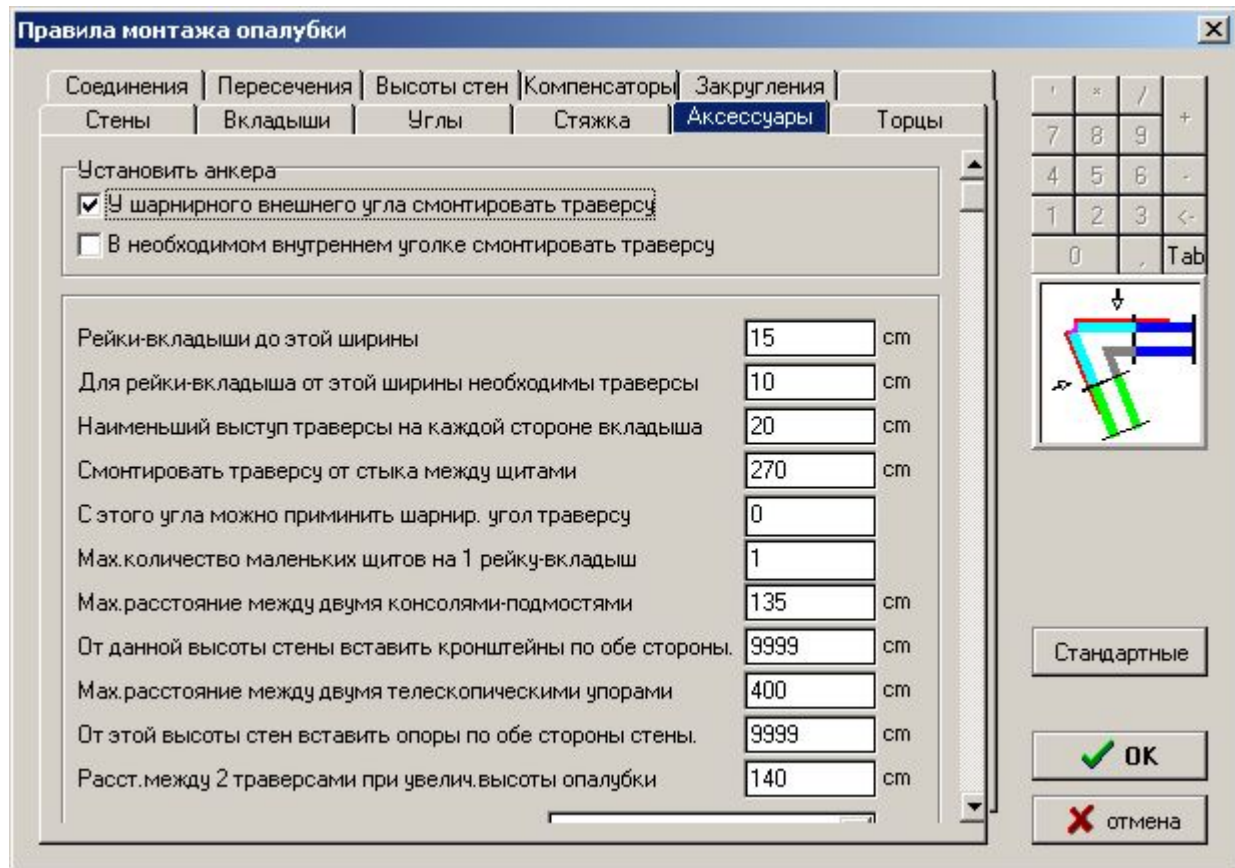
Use flat anchor instead of tie with max-height over bottom

If there are flat anchors in a system, they can replace the lowest tie rods of the elements. With this value you can say up to which height above the bottom the ties are to be replaced by flat anchors.

Use flat anchor only up to this wall height

The insert of the flat anchor can be restricted with this value to a certain wall height.

3.4.5. Accessories



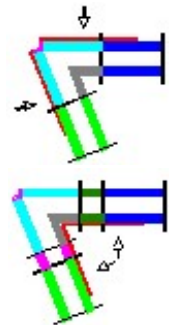
Place tie rods

Insert alignment rail at adjustable outside corner

If this value is activated the adjustable corners are stiffen with alignment rails on the outside.

Insert alignment rail at adjustable inside corner

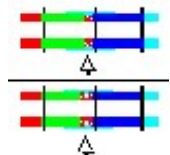
If this value is activated the adjustable corners are stiffen with alignment rails on the inside.



Accessories

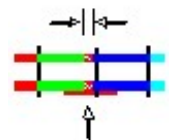
Up to this width filler to have alignment rail

Fillers which do not exceed this width are hold with a linking part (e. g. adjustable clamp...) between the 2 elements. Bigger fillers are inserted as 2 fillers with form skin. The fillers are each connected with a linking part (e.g. clamps, bolts...) with each element.



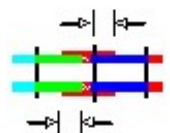
Alignment rail required to make up this width and wider

Fillers with width bigger than this value must be bridged with alignment rails.



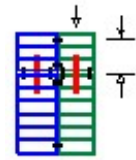
Smallest projection of alignment rail on either side of filler

With this value the minimum length of the alignment rail is calculated for the filler.



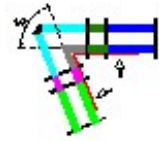
Use alignment rail when top panel is this height or larger

With this value you can fix that at low elements in the uppermost row of multiple panel height no alignment rails are necessary. If every raised panel needs raised alignment rails, this value can be put on 0.



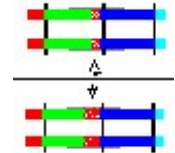
Alignment rails used at inside corners of this angle or greater

At joint inner corners with very acute angles no alignment rail can possibly be set if this is necessary from the above setting. This angle can be entered here.



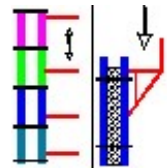
Maximum number of filler elements per timber

If there is no suitable filler element or filler timber for a wall filler in the store, the filler can be put together by a combination of several fillers. With this value the maximum number can be entered. If this value = 1, no fillers are combined. If necessary a lumber filler by contr. is inserted.



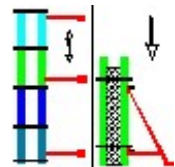
Maximum centers of scaffold brackets

Here the maximum centers of scaffold brackets can be entered.



This wall height and above use scaffold brackets on both sides

Here you can define the wall height from which on scaffold brackets should be used on both sides of the wall. If this should not happen, enter a very high value (e.g.: 100m).

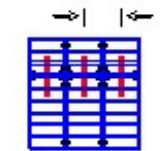


Maximum centers of alignment props

Here the maximum centers of alignment props can be entered.

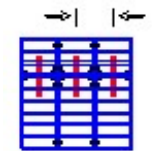
This wall height and above use aligners on both sides

Here you can define a wall height from which on aligners should be used on both sides of the wall. If this should not happen, enter a very high value (e.g.: 100m).

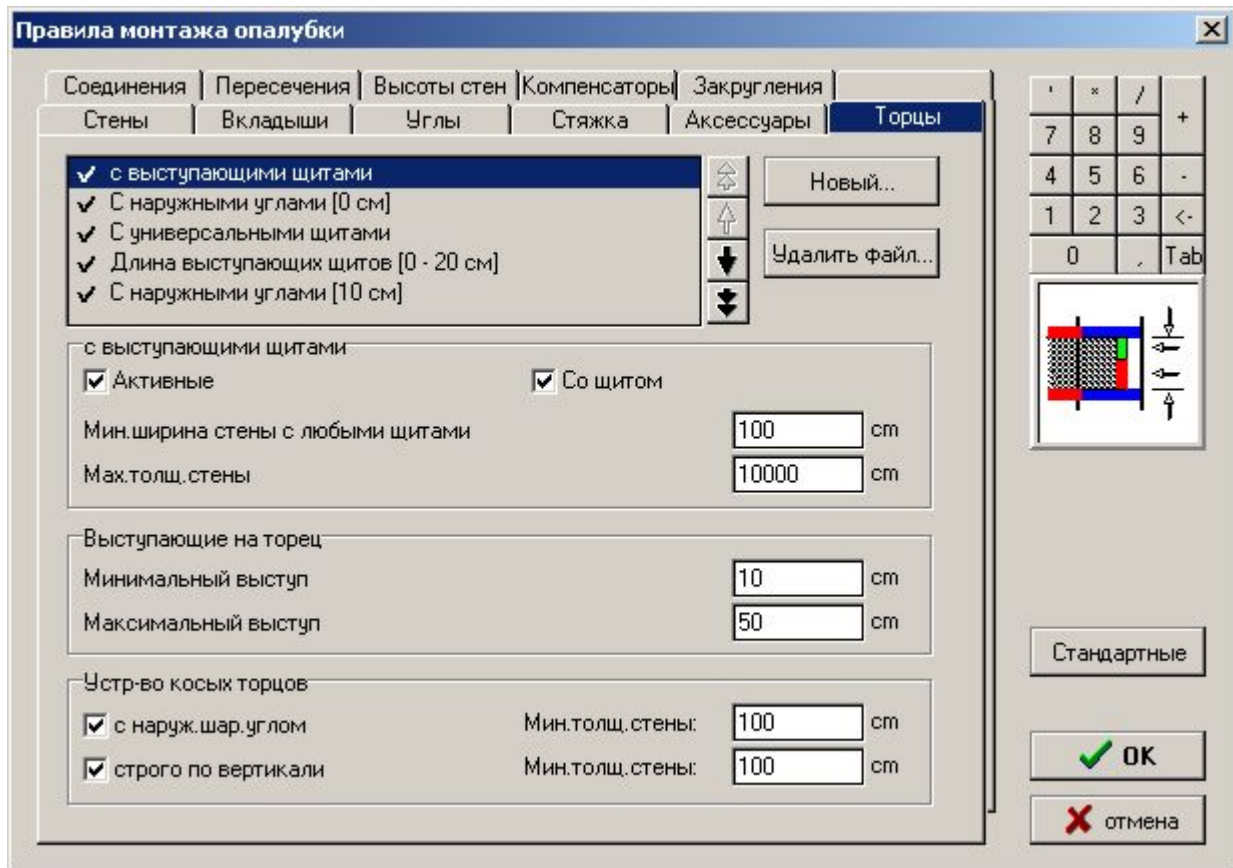


Horizontal centers of alignment rails at multiple panel height

Here you can enter the centers of two alignment rails for multiple panel height.



3.4.6. Bulkheads



There are different possibilities to arrange formwork at the free wall end (bulkhead). The standard in EuroSchal® is bulkhead with projecting elements. With the button **New** you can enter more possibilities in the list above (depends on form system). EuroSchal® always tries to take the first possibility of the list. If that one is not possible it takes the second possibility and so on, til one possibility works.

You can change the order of solutions by arrow buttons beside the list or directly by mouse.

If a solution is marked, the settings are shown below with which the solution can be adapted:

Active

If you want EuroSchal® to consider the solution, it must be marked as activated. If a solution is not activated, it is shown grey in the upper list.

with elements

if this point is marked EuroSchal® can put an element on the bulkhead. It is only done if the elements fits exactly. If this point is deactivated or no element fits in, a lumber filler will be taken.

Minimum wall width for any combination of panels

For larger wall widths (e.g. foundation blocks) it can be permitted that on the bulkhead also combinations of several elements can be used.

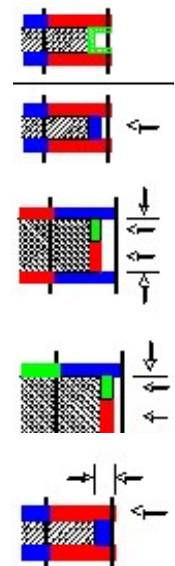
maximum wall width

This bulkhead solution is only used up to the entered wall width.

Projection on bulkhead

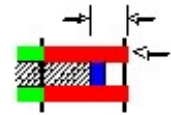
Minimum projection

If a wall with projected elements is finished, the minimum projection of the elements above the wall edge can be entered here.



Maximum projection

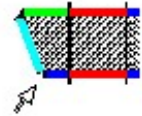
If a wall with projected elements is finished, the maximum projection of the elements above the wall edge can be entered here.



Sloping bulkhead

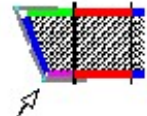
with hinged corners

If this value is active hinged corners are inserted at sloping bulkheads, in case the wall width is large enough.



with flush panels

If this value is active, at sloping bulkheads all elements are put directly flush on the wall end. Also on the bulkhead elements are inserted.



3.4.7. Lapping

Правила монтажа опалубки

Стены | Вкладыши | Углы | Стяжка | Аксессуары | Торцы

Соединения | Пересечения | Высоты стен | Компенсаторы | Закругления

следующая захватка в длину к существующей стене

присоединяющий щит

с ГЕ - элементом

с универс. элементом

с малым элементом

Мин. величина элемента: см

Макс. величина элемента: см

Мин. превышение: см

Мин. расстояние: см

С досками

Последний щит

использовать старые места стяжки

Мин. расстояние: см

Макс. расстояние: см

Стандартные

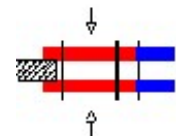
OK

отмена

Connecting panel

With large size panel

If this point is activated, it is tried to use a large size panel (large panels with indented ties) at the lapping connection.

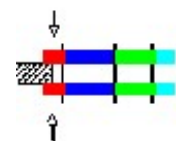


With multi-purpose panels

If this point is activated, it is tried to use a multi-purpose panel at the lapping connection.

With filler

If this point is activate a filler is used at the lapping connection. The following values lay down the size of the panel.

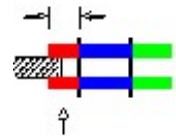


min. panel size

The connecting panel must at least have this size.

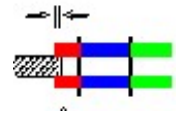
max. panel size

The connecting panel must not be larger than this value.



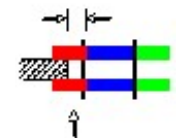
min. overlap

The connecting panel must at least overlap the old pour by this value.



min. distance

The connecting panel must at least project the existing wall by this value.



With timber

The connecting panel should be formed with a timber.

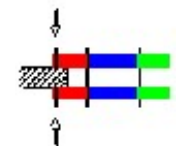
Timber width

The timber on the pour connection should have this width.

Final panel

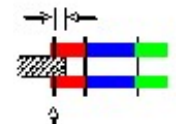
use tie holes from previous pour

For a pour within a wall EuroSchal® can use the tie of the last panel of the first pour for the connecting panel of the second pour. For this reason a small panel must be added at the end of the first pour so that the tie is not too much away to the wall end.



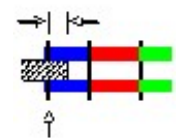
min. distance

The connecting panel must at least project the existing wall by this value.

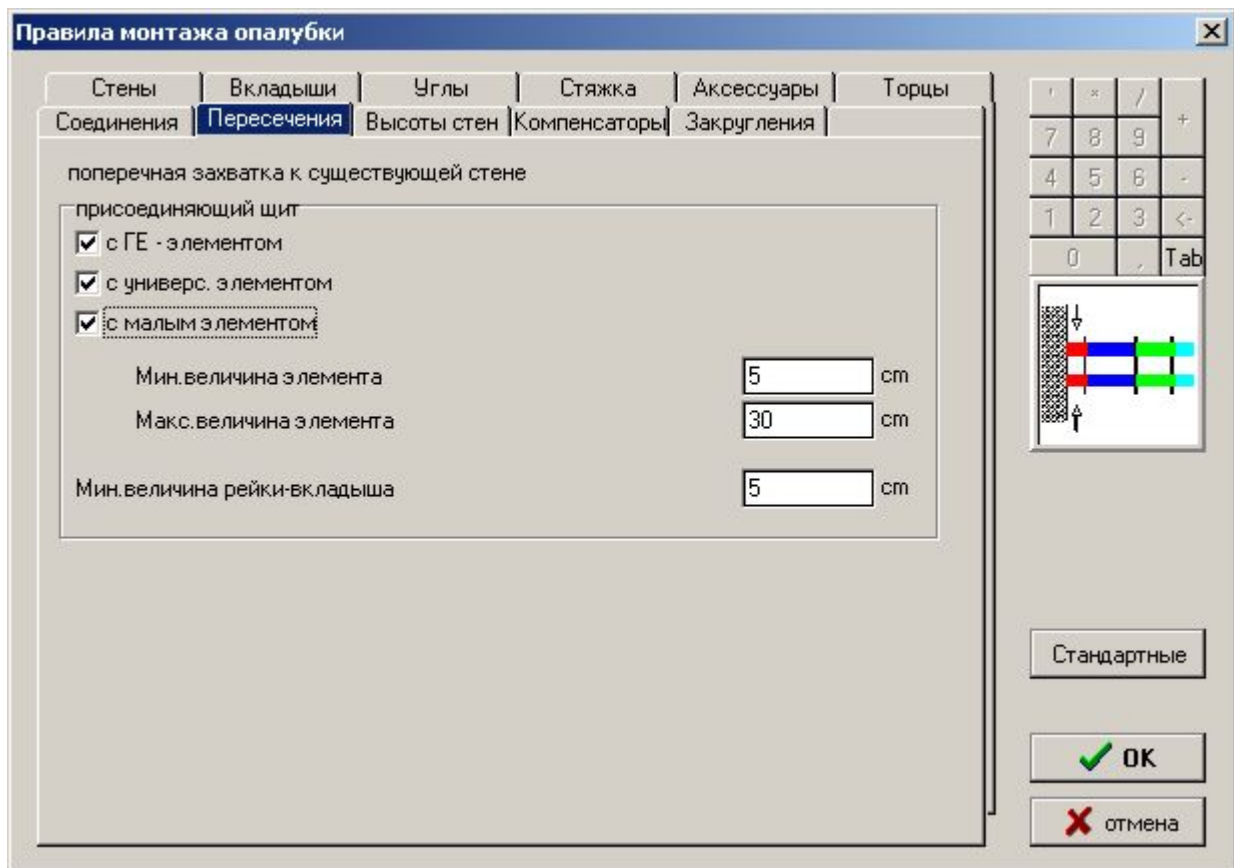


max. distance

The connecting panel must not project more than this value.



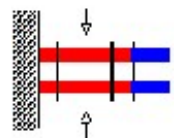
3.4.8. Butting



Connecting panel

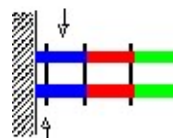
With large-size panel

If this point is activated EuroSchal® tries to form a butting with large-size panels.



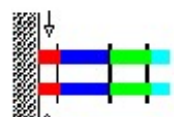
With multi-purpose panel

If this point is activated EuroSchal® tries to form a butting with multi-purpose panel.

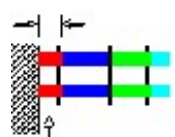


With small panel

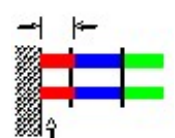
If this point is activated EuroSchal® places a small panel at the butting, which scaling you can fix with the following values.



min. panel size

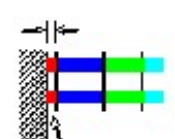


max. panel size

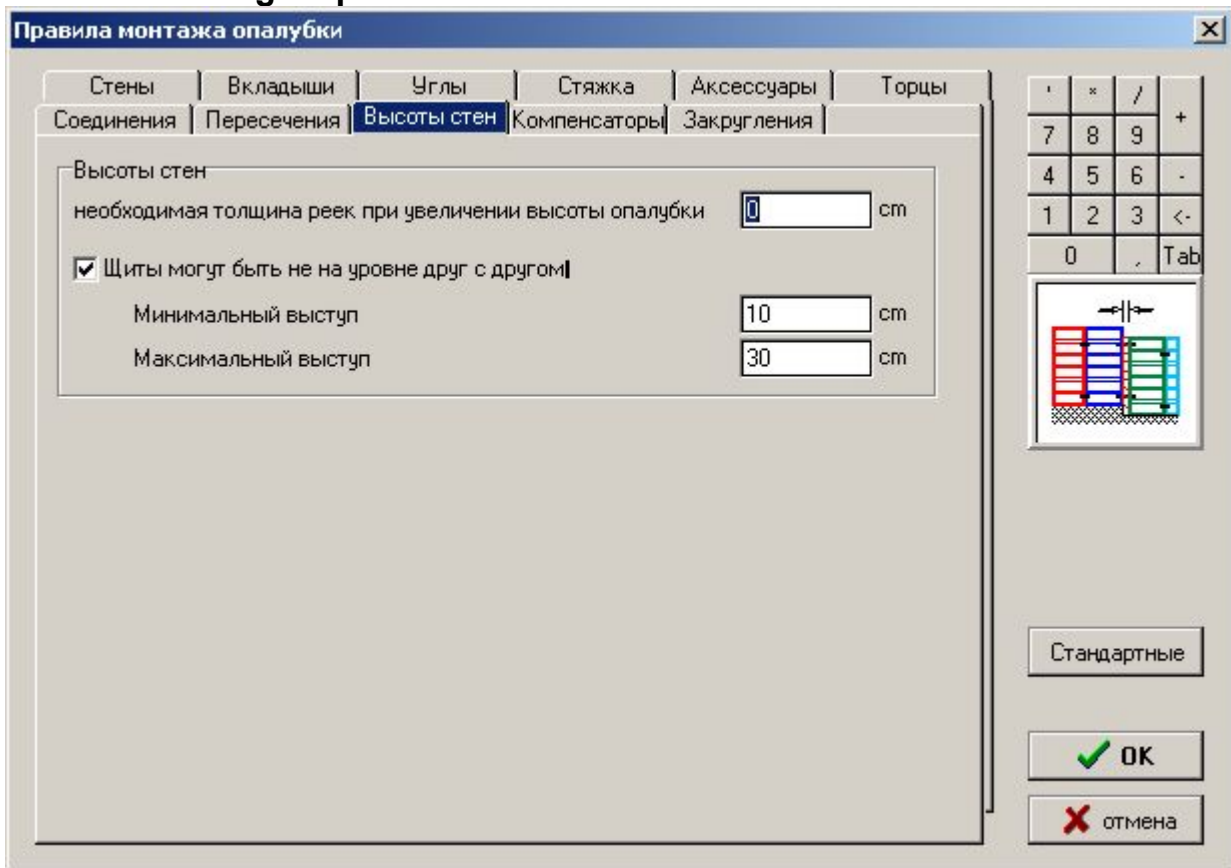


min. timber size

If no above mentioned solution is activated or working, EuroSchal® places a timber at the butting, which size you can enter here.



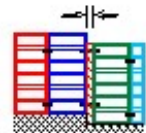
3.4.9. Footing steps



Footing steps

Timber width, which is necessary at the footing steps

If there is a timber or filler element necessary between the panels left and right side of the footing step, you can here enter the necessary width.

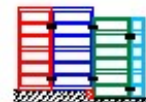


Panel can project past wall offsets

EuroSchal® can project the panels at the higher side past the footing step. Through it a filler can be saved on one side.

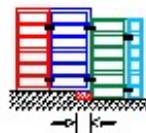
Min. overlap

If the footing step is formed with projecting panels, the minimum overlap the panels have to project past the food step, can be entered here.

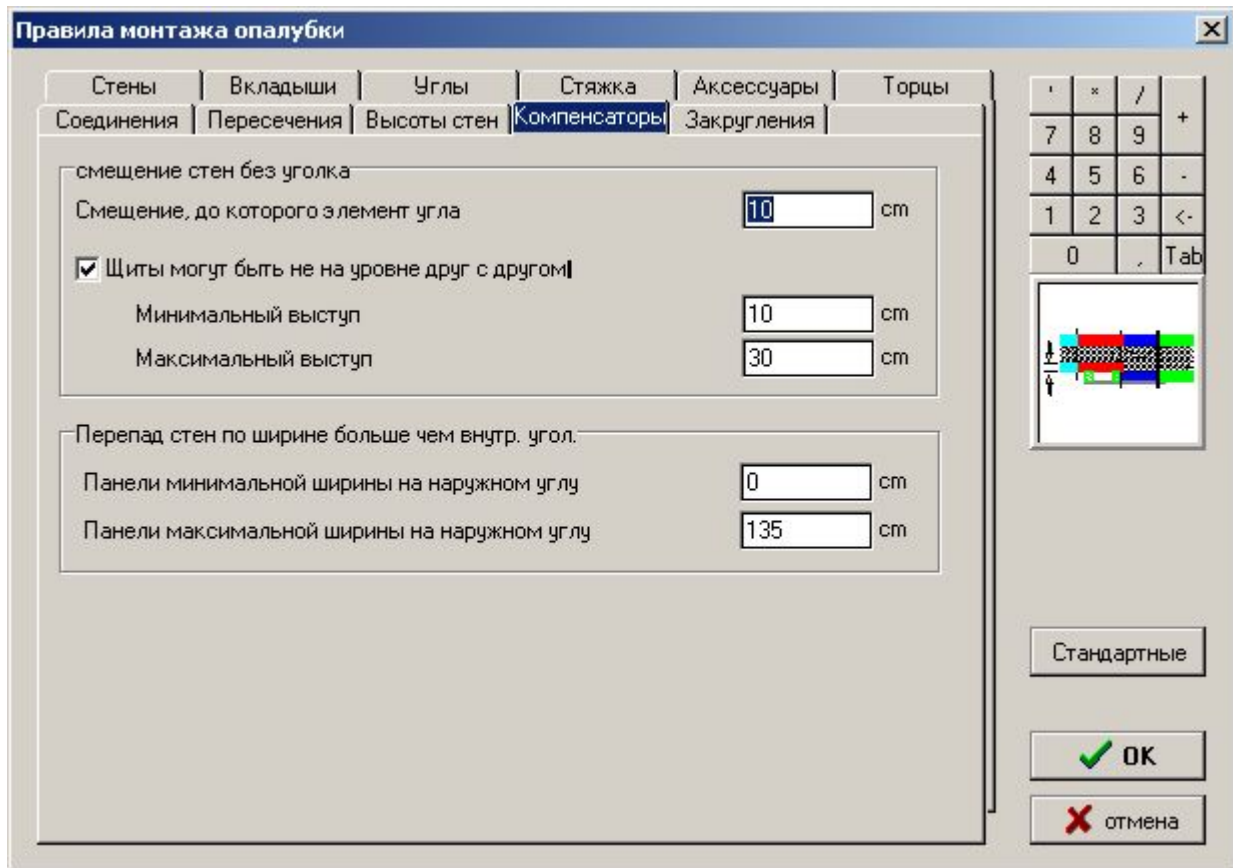


Max. overlap

If the footing step is formed with projecting panels, the maximum overlap the panels have to project past the food step, can be entered here.



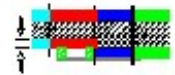
3.4.10. Wall offsets



Wall offsets without corner element

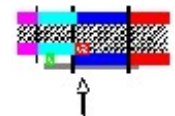
Max. offset dimension without an internal corner

A wall offset with an offset dimension smaller than this value no internal corner must be placed. The panels are flushed together in steps.



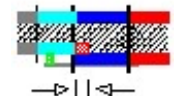
Elements may project past the step

To avoid unnecessary fillers in this case, the panels on the thicker side of the wall offset can project past the step. The area created through this must be filled by site.



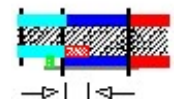
Min. overlap

The projecting panels at the wall offset must at least overlap by this value.



Max. overlap

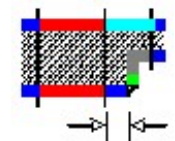
The projecting panels at the wall offset are maximum allowed to overlap by this value.



Wall offset with offset length more than inside corner

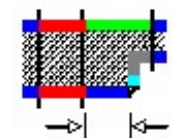
Minimum panel length on outside corner

With a larger wall offset a inside corner must be placed. With this and the next value the size of the panel can be laid down, which comes on the stronger side of the wall directly after the offset (connected to the outside corner). This width must be kept at least.



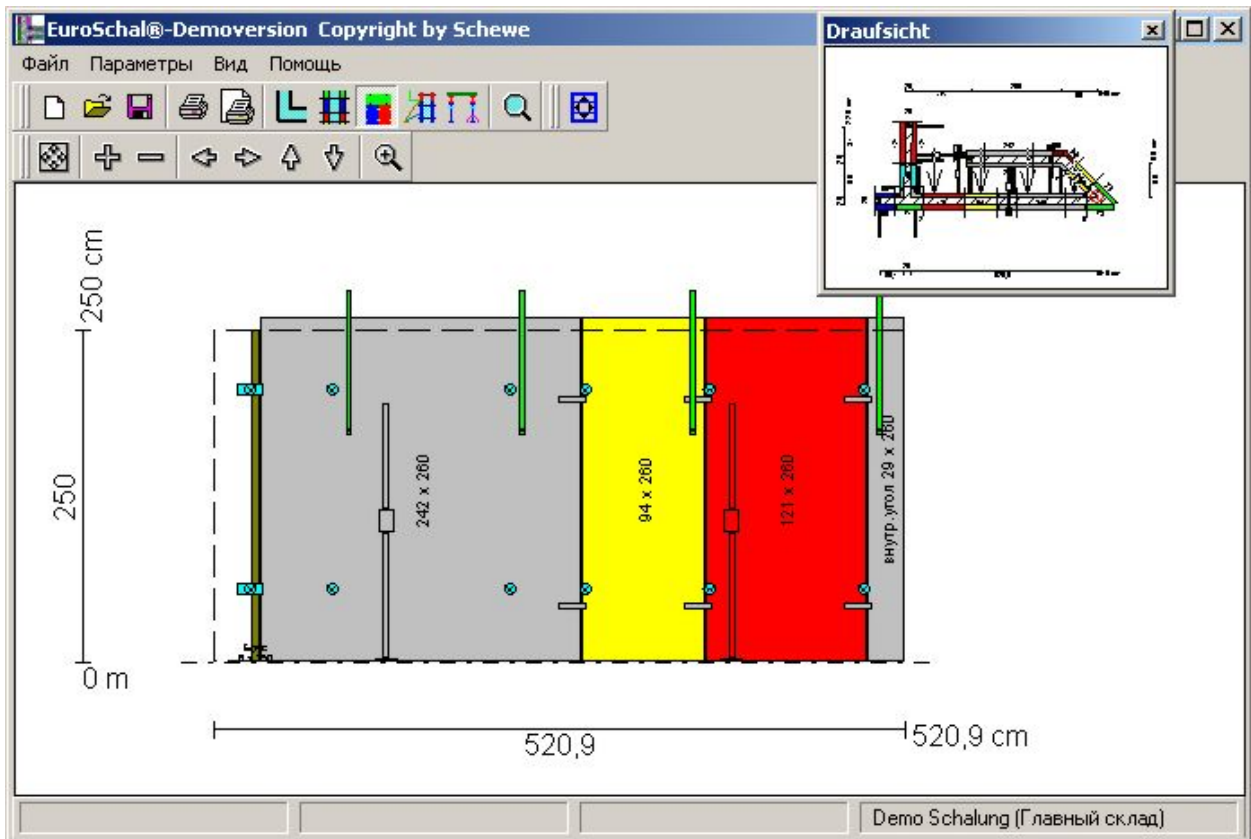
Maximum panel length on outside corner

Here you can enter the max. width of the panel.



3.5. Form settings

With the form settings you have the possibility to save different and often used „form settings“ and you can activate them with only one click.




On the screen the side view of a wall is shown in large format. The view is shown in a small window the right corner. This window can be shifted and changed in size.

In the view window the current wall, which is shown in the big window, is marked with arrows. If you want to see another wall, click on the wall side you want to see.

In the side view window and the view window you can use the zoom instructions (chapter 1.5).

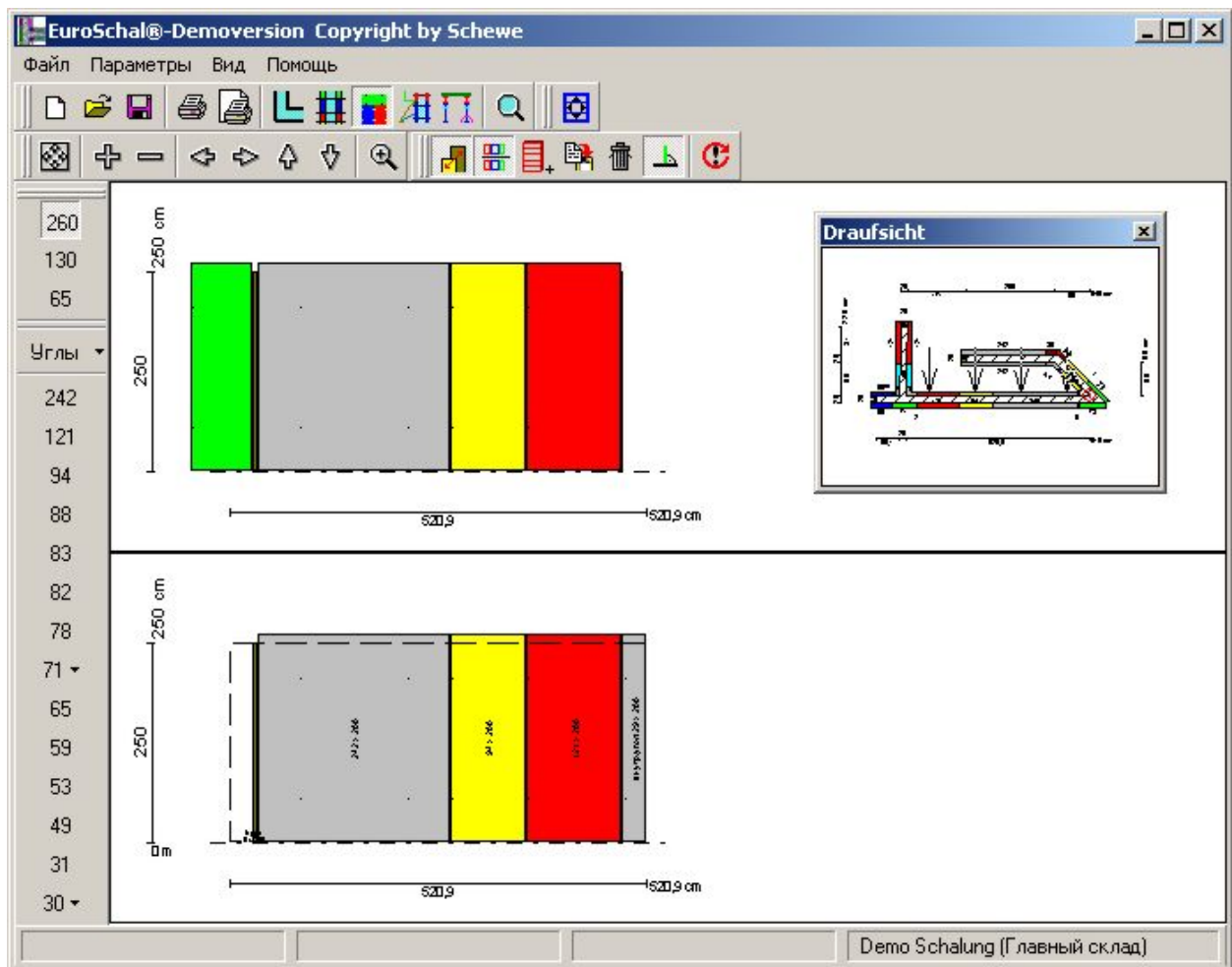
3.6. Manuel editing of formwork

In EuroSchal® the automatically calculated formwork can be adapted. Therefore you have to change to the side view (chapter Fehler! Verweisquelle konnte nicht gefunden werden.).

Click then on the symbol „Manuel editing“  or on “manual” in the context menu.

First you will be remembered that all accessories will be removed before the manuel editing can be started, because only the panels can be changed. After you have finished the accessories for the changed formwork it is calculated again.


Then you will be asked if you want to change the formwork on only one side or on both sides. Changes in the corner area should only be done one side, at a straight wall on both sides.




3.6.1. Screen view

The display screen looks similar as the side view with the manuell editing. In the view window you can choose the wall you want to change.

If the setting is that the opposit wall is to be adjusted as well, this one can also be shown on the screen for help. The screen divides in two halves. The lower half shows the marked wall side which should be changed, the upper half shows the opposite panels. While zooming and shifting of the display both sides are treated the same so that opposite panels are always shown one above the other.

With the symbol „show the opposite wall“  you can fix if you want to see the opposite wall or only one wall during editing.

With the symbol „adjust opposite wall side“  you can say if only one side or boht sides are to be edited. If only one side is edited only one side is shown..

3.6.2. Mark elements


With the mouse single or several elements can be marked. The marked elements are shown hatched. If the opposite wall side is also shown, these elements are hatched, too.

3.6.2.1. Single elements

You can mark a singel element by clicking on it with the left mouse button. All other marked elements are not marked any more.

If you click in a free area all elements are unmarked.

3.6.2.2. Several elements through clicking


Several not connected panels can be marked by clicking with the left mouse button on the panels and holding the  button at the same time.

3.6.2.3. Several elements through pulling up a rectangle

Several connected panels can be chosen through pulling up a select window. Therefore shiftclick with the left mouse button on the corner of the area you want to mark. When the selected window has the right size let the mouse button go.

If the selected window is pulled from the left to the right side \rightarrow , only the elements which are completely within the select window are marked.

If the select window is pulled from the left to the right side \leftarrow , all elements, no matter if within or only partly within the select window, are marked.


If several panels are marked in this way, all other panels marked before are demarked, except you have pushed the -button during the whole process.


3.6.3. Shift elements

Elements can be shifted by shiftclicking with the mouse (chapter 1.4.3).

During shifting the elements snap into existing elements or at wall ends.

The position of the bottom lefthand corner is shown in the state bar.

With the symbol „Ortho“  you can stipulate whether the elements are to be shifted in only one direction (horizontal oder vertical) or shifted as you like. If the symbol „Ortho“ is marked the elements are either shifted horizontal or vertical.

By pressing and holding the -button on the keyboard during shifting, the choice of the Ortho modus can be reversed.



Elements can only be moved to a free position. It is not possible to overlap elements. If a choice of elements is moved so that at least one element overlaps with another element, the elements are not shifted.

Through the instruction „element position“ from the context menu a dialog window can be opened where you can enter directly the coordinates of the bottom lefthand corner point.

3.6.4. Exchange of elements

Within a wall the position of elements can be changed. If you shift a single or several connected elements horizontal as far as the selection area is lying over the flush panel, where the exchanged elements should be fitted. Through this the marked elements are fitted into the new position and the elements which were in this position before are moved.

3.6.5. Delete elements

Marked elements can be deleted with the symbol „Delete“  or with the button .


3.6.6. Add elements

If you want to add new elements you have to choose first which elements should be added. Then the position is fixed like at shifting elements.

The element can also be turned each about 90° with the instruction „Turn“ in the context menu in order to add an element also in lying position.

The selection of the element can be done in two ways.

3.6.6.1. With the store manager

By clicking on the symbol „add element“  or through the instruction „add element“ from the context menu the store manager opens. Here you can choose the element which should be added.

If the mouse is placed in a free area of the wall when the context menu is called, the store manager choose an element, which fits best in this free space.

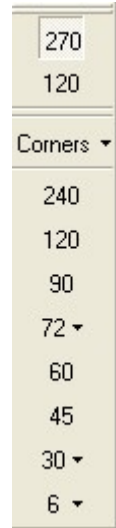
3.6.6.2. With the symbol bar

With the symbol bar elements can be added easier and faster.

In the upper area of the symbol bar are the existing panel height. Below there are the width. By clicking on it you can choose the desired height and width.

If there is only one panel in a special width, it is directly added when clicking on it. For checking the remaining store for the current pour point with the mouse on a panel height and you can see beside the name how many pieces of this panel are in the store. This value is always updated during editing. If the remaining stock is negativ it means that more panels have been used than there were in the stock. A deficiency is generated.

If there are several panels to one width a small arrow appears beside the width symbol. If you click on it a small menu appears where you will find all panels with the selected height and width. By clicking on such a panel it will be added to the wall. You can also see how many pieces of this panel are still in the store. This value is always updated while editing. If the remaining stock is negativ, see above.



3.6.7. Add wood

Free areas which cannot be filled with panels can be filled with timber filler. Therefore choose the instruction „Add wood“ from the context menu. Then move the mouse to the free area you want to fill with timber. Click on the left mouse button and the timber is added.

3.6.8. Change size

If a panel or timber is marked there are small black rectangles round the panel. By pulling this rectangle the size of the timber or panel can be changed. The size is shown in the state bar.

3.6.8.1. of panels


You can only change the size of panels to those panels you will find in the store. After pulling the corner the store manager appears where you have to confirm the new selected panel or to choose one from several panels with same size.

You can also change elements directly with the instruction „change“ from the context menu.

3.6.8.2. of timbers

The size of timbers can be changed infinitely variable. If a timber is marked you can call up a dialog with the instruction „size“ from the context menu where you can enter directly height and width of the timber.

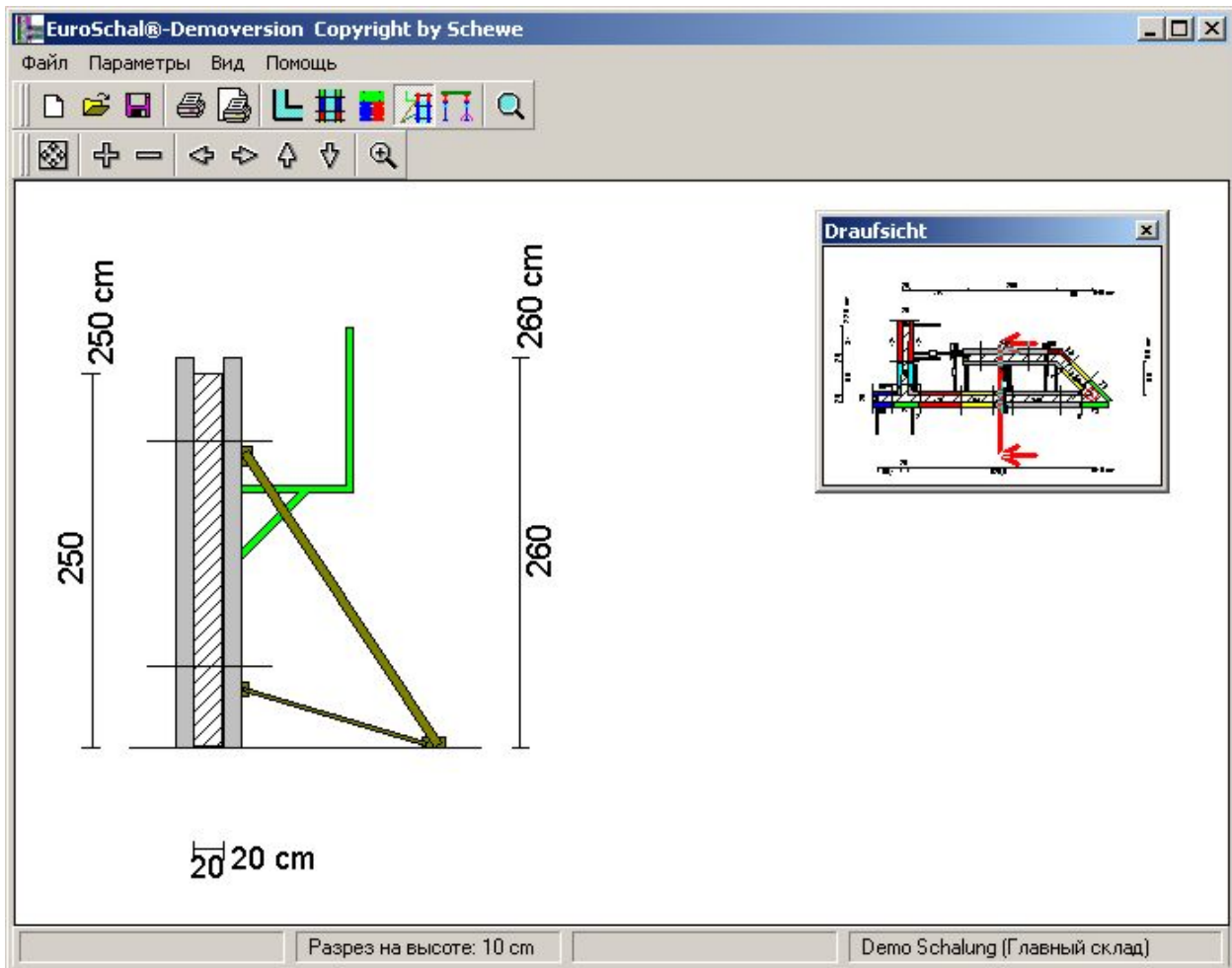
3.6.9. Copy elements

Within a wall single or several panels can be copied. Choose first the panel you want to copy and click then on the symbol „copy“  or on the instruction „copy“ from the context menu. Afterward you can place the copied panels the same way as adding a new panel (chapter 3.6.6).

3.6.10. Turn panels upside down

With the instruction „Upside down“ from the context menu you can turn panel upside down. For most panels this is not necessary. However, it can be necessary for panels, whose ties are not even spread, some universal panels or some corner panels with different sides.

4. Section



5. Form slab


The form slab modul in EuroSchal® can calculate concrete ceilings with timber beam form or compatible systems to it. The slabs, yoke beams, covering beams and props are calculated. Furthermore the support for filigran slab with timber beams or other compatible systems to it can be calculated. Only yoke beams and props are calculated. In EuroSchal® no static calculation is made. For the calculation of distances of the single beams the original manufacturer tables are used.

EuroSchal® can decide on beams and props distances automatically. It is tried to find the best possible solution with very few material.

It is also possible to lay down certain settings (e.g. covering beam distances). EuroSchal® will take over this settings and adapt the rest of the calculation.


As every slab surface can be formed in several ways (different start points of calculation, differen directions of yoke beams) the programme gives several solutions for every surface which you can compare against one another and find the best solution.

5.1. Pour division

If there are several integrated plans in your floor plan you are asked to decide in the slab form if all plans should be formed all in one or one after the other. The calculation is not influenced but the material list and the total quantity. Here you can decide if the plan is formed all at once (button: „all at once“) or should be divided in several pours (Button „Arrange pours“). If the plan is divided in pours the function Order of pours is called up. The pour arrangement can also be called up subsequently with the symbol Order of Pours .

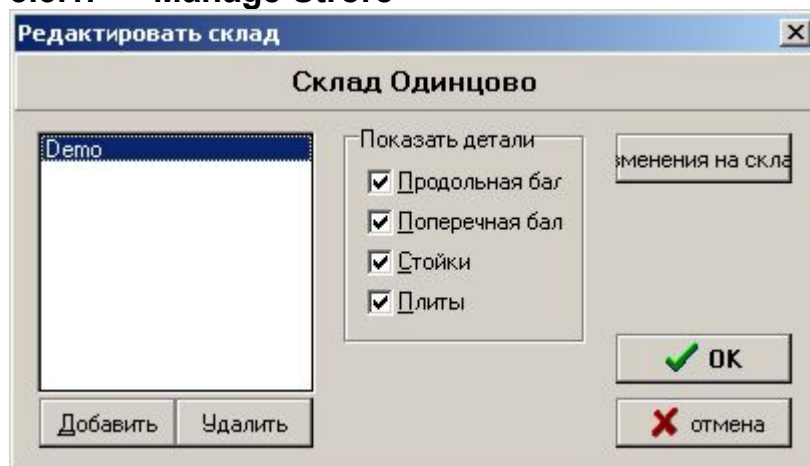
You can enter a pour number in the top righthand window and then you can click in all plans which should belong to this pour. As a standard all plans have the pour number 1.

5.2. Floor thickness and room height

Before forming a floor the floor thickness and room height must be entered. This function is automatically activated after changing to the floor formwork or with the symbol “Floor thickness” . In the window top righthand corner you can enter floor thickness and room height and then click on all plans which should get this settings. By clicking on the the button „All“ all plans get the entered settings.

5.3. Store

5.3.1. Manage Store




Before first forming of a floor a store must be created. There the material you need must be in it. If there exist no store you are asked to create a store. For this reason the store manager is opened.

First you have to enter a name for your store.

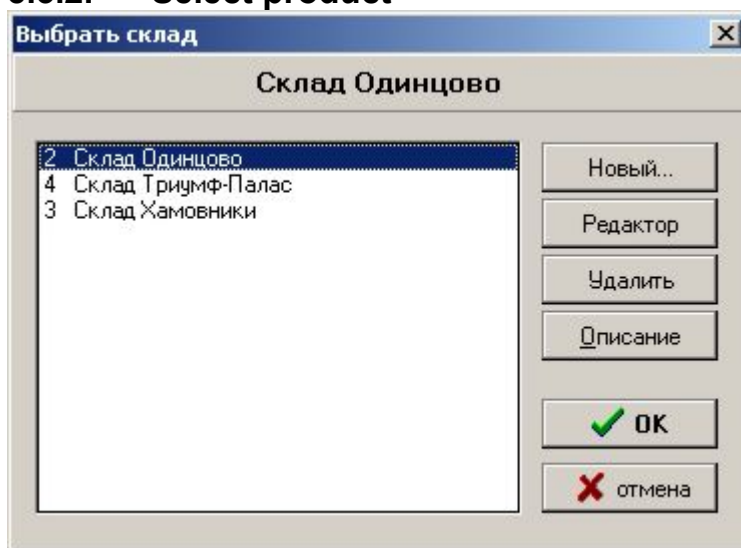
Then you can add one or several formwork systems to your store. EuroSchal® is able to combine material of different manufacturers.

In the window „Add formwork system“ mark a system and add it with „OK“. With the button „Add“ you can add further systems in the store manager.

With the 4 fields under „use parts“ you get a hint which kind of parts in the left marked systems are. If the entry is shown inactive, there are no according parts contained. If the entry is active, according parts are there. With a tick in front of every entry you can say if the parts are to be used.


The store manager can always be opened with the symbol „manage store“  or with the instruction „manage store“ from the context menu.

5.3.2. Select product




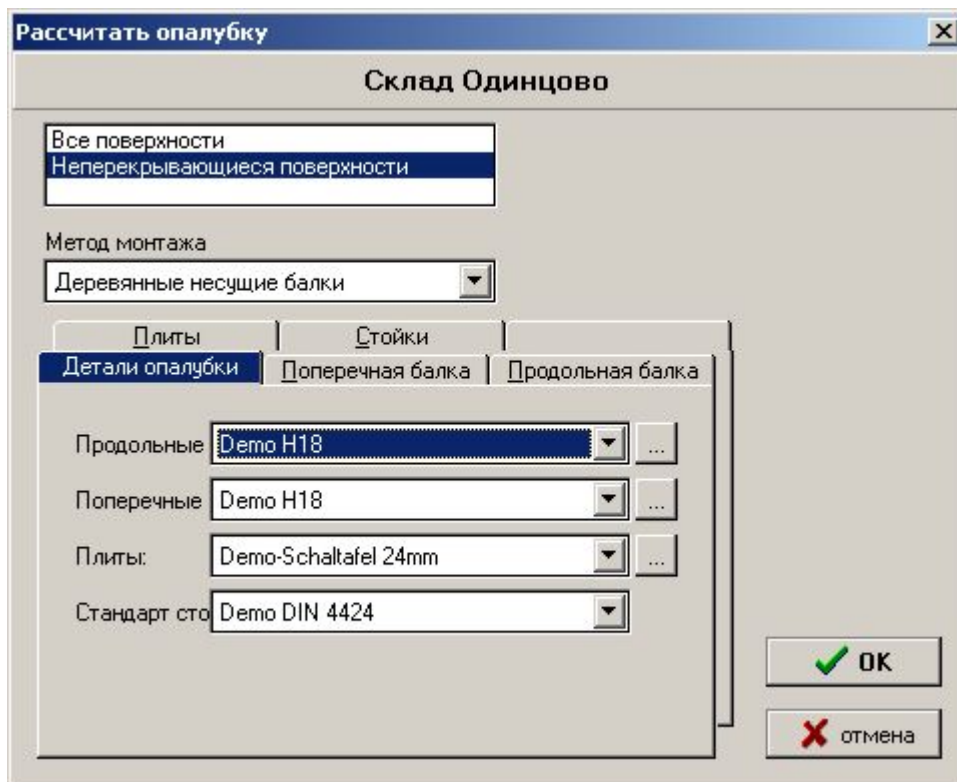
With the store manager (chapter **Fehler! Verweisquelle konnte nicht gefunden werden.**) you can create as many stores you want.

With the product selection you can choose the product you want to form your plan. Furthermore the new stores can be created here or you can change existing stores.

Open the product selection with the symbol „select product“  or with the instruction „select product“ from the context menu.

5.4. Form slab

With the symbol „Form slab“  or with the instruction „Form slab“ from the context menu the form instruction is started. The dialog “Form“ opens.



You have the possibility to say, which plans should be formed. The point „marked surface“ only appears if a surface is marked.

5.4.1. Concrete floor

For calculating a concrete floor select in the index „form parts“ the systems for „yoke beams, covering beams, slabs and props. By pressing the buttons behind the selection list dialogs for every system can be called up.

5.4.1.1. Covering beams

In the index covering beams a certain covering beam distance can be chosen. You can find here all kinds of covering beam distances. If the programme is to choose automatically the distance than select „variabel“ (standard setting).

If there is a certain slab selected in the index „slabs“ (chapter 5.4.1.3) only the covering beam distances are shown which can be used with the selected slab.

5.4.1.2. Yoke beams

In the index „yoke beams“ a fixed maximum distance for the yoke beams can be stipulated. The programme is then not allowed to overstep this distance. If necessary the used yoke beam distance can become a smaller value. If the button „yoke beam distance“ is inactive the programme calculates the best distance automatically.

5.4.1.3. Slabs

A certain slab can be selected in the index slabs. If the programme is to decide automatically choose „variable“. If in the index „covering beam“ (chapter 5.4.1.1) a certain covering beam distance is chosen, only the slabs are shown which can be used with this distance.

5.4.1.4. Props

In the index „props“ you can decide which props are used. If you want the programme to choose automatically then use „variable“ (standard value).

5.4.2. Filigran Slab

For calculation of the support of a filigran slab, the system „filigran slab“ must be added in the store. (chapter Fehler! Verweisquelle konnte nicht gefunden werden.). For the selection of the covering beams in the index “form parts“ the “filigran slab” must be selected.


5.4.2.1. Yoke beams

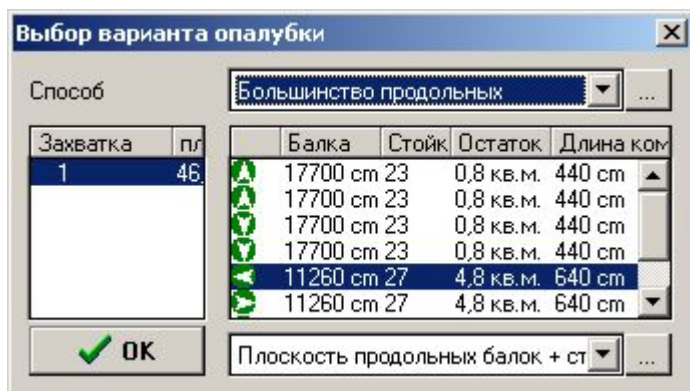
In the index „yoke beams“ the maximum permissible yoke beam distance for the filigran slab must be entered. No automatical calculation of this value is possible because the value is fixed by manufacturer of the filigran slab.

5.4.2.2. Props

In the index „props“ you can decide which props are used. If you want the programme to choose automatically then use „variable“ (standard value).

5.5. Choice of forming solutions

Directly after forming or through clicking on the symbol „choice of forming solutions“  the window „choice of forming solutions“ opens.



In the left list all floor surfaces are listed. Click on an entry and so you can choose the surface you want. You can also choose in the floor plan the desired surface.



In the right list all calculated solutions are shown.. To every solution certain information are shown where you can choose the optimum solution. The arrows at the beginning of every entry show the direction of the yoke beams. By clicking on one solution the solution belonging to it is shown in the main window.

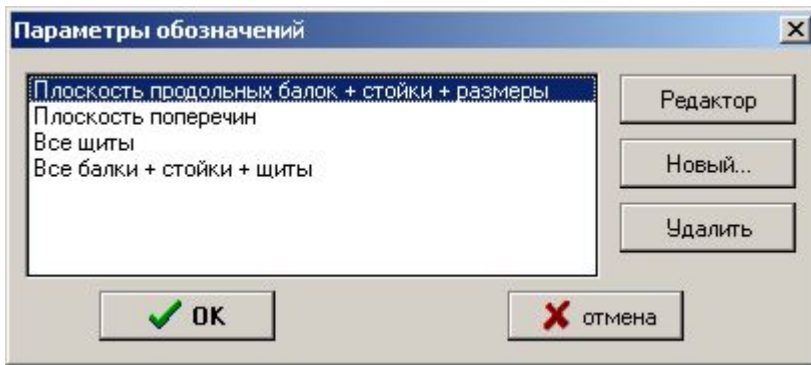
In the main window an arrow shows the start point and the direction of the yoke beams.

There is another window in the top righthand corner, where the sorting of the calculated solution can be adapted. Here are different criterions with which the solutions are to be evaluated. With the button right beside the list you can create further sorting criterions.

The screen presentation can be adapted with the selection window in the bottom righthand corner. (see chapter 5.6).

5.6. Screen presentation

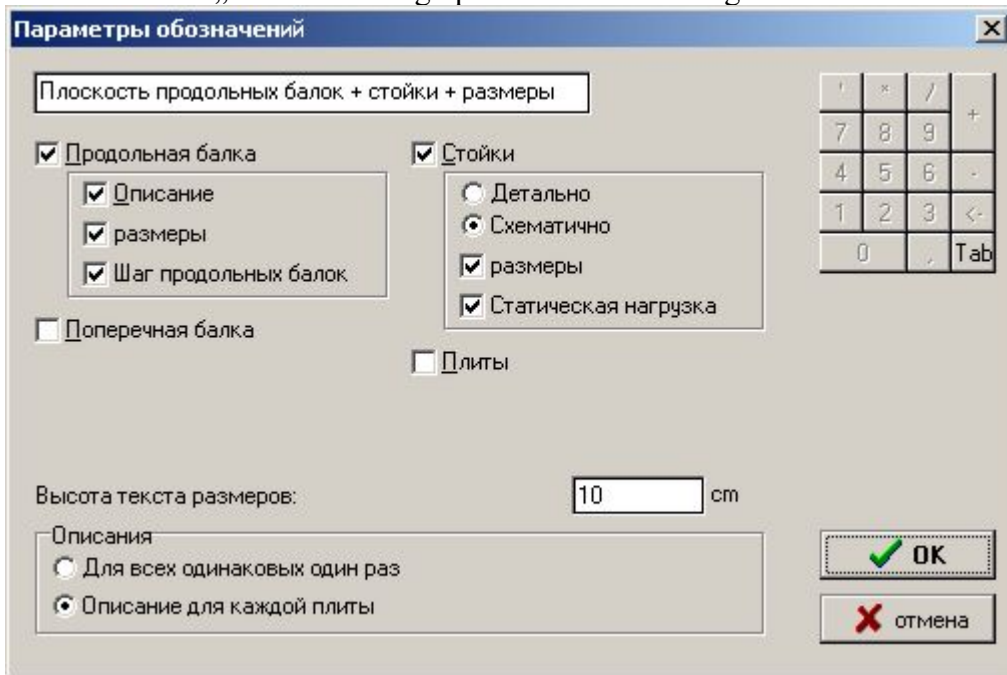
With the folding list besides the symbol „display settings“  the screen presentation can be adapted. It can be decided which level of the floor form is to be shown or not (yoke beams, covering beams, slabs or props). Furthermore you can decide the way the single parts should be drawn. With the button „display setting“  the dialog „display setting“. Here you can change the predefined settings and add other settings which you can then call up directly through the symbol bar.



With „New“ new settings can be created.

With „Delete“ settings can be deleted.

With the button „Edit“ the dialog opens where the settings can be done.



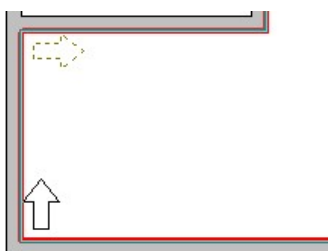
5.7. Starting point and yoke direction

Normally EuroSchal® calculates one solution for all possible starting points and yoke beam direction, which can be compared against one another after calculation.

If you know the starting point and the direction already, you can enter this in the programme before. Only this solution will be calculated. For it select the instruction “choose starting point“ from the context menu of the floor formwork.

If a starting point is changed at a surface the starting point has already been calculated the form is deleted and must be calculated new.

A sketched arrow symbolizes the starting point of the calculation and points into the direction of yoke beams. If you press the left mouse button in this moment, this point is taken as starting point. This starting point is shown as a black arrow. If you do not click with the mouse on a sketched arrow, the selection of a starting point is deleted. For a calculation at the end all kinds of solutions are calculated.



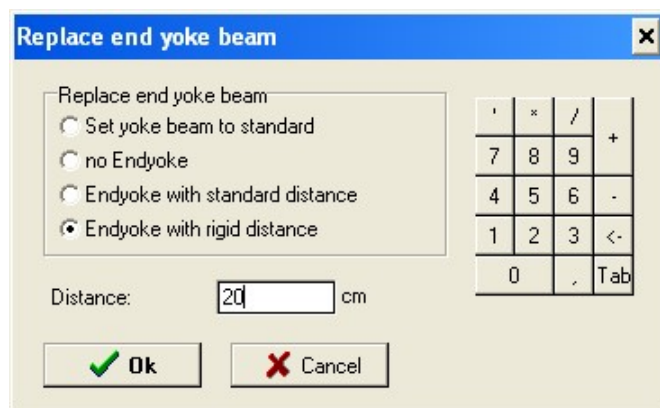
5.8. Replace end yoke beam

The stipulation of end yoke beams only influences the calculation of the filigran slab. As a standard the plans are calculated with end yoke beams. Through the form dialog (see **Fehler! Verweisquelle konnte nicht gefunden werden.**) you can stipulate for all floor plans if end yoke beams are to be added or not.

If you need different settings in some parts of the ceiling you can do this with the instruction „Replace end yoke beam“ from the context menu.

Afterwards you can point with the mouse on a ceiling edge. If there are two horizontal lines you can decide with clicking on left mouse button if there is an end yoke beam added at this wall. A formed end yoke beam is shown in the plan with two sketched black lines parallel to the wall. Another click on this wall deletes the end yoke beam again. Sketched grey lines say the standard setting is used (Siehe **Fehler! Verweisquelle konnte nicht gefunden werden.**).

As a standard the distance of the end yoke beams is fixed by the setting of the yoke beams (chapter 5.4). If there is an individuell setting necessary point with the mous to the wall and click with the right mouse button. The context menu opens. There you will find the point “replace end yoke beam”.




With this instruction a dialog opens where you can decide wether you want


- put endyoke to standard (Siehe **Fehler! Verweisquelle konnte nicht gefunden werden.**)
- no endyoke
- endyoke with standard distance
- endyoke with rigid distance

If you select „endyoke with rigid distance“ an input field appear where you can enter the distance.

5.9. Material list

With the symbol „Material list“  or the instruction „Material list“ from the context menu you can see the material list of the current project. You will get further instructions on the material list in chapter 7.

5.10. Manuel editing of yoke beams

In EuroSchal® the yoke beams can be edited after changing into the editing mode with the symbol „Edit manually“  or through the context menu „Man-Edit“. Before a plan must be marked, whose yoke beams should be adjusted.

Here complete yoke beams can be deleted, added, shifted, lengthend, shortend and turned. A yoke beam is a combination from one or several yoke beames inclusiv props. After changing a hole line of yoke beams all contained props and yoke beams are calculated new.

After a yoke beam has been changed in a plane (shifted, deleted, added,...), the props are newly calculated, as far as the changes have effects to the prop loads of the neighbouring beams.

Furthermore all covering beams and slabs of the hole plan are also calculated newly.

If you have places, where the yoke beam distance is too big, this distance is marked with a red circle. The maximum permissible yoke distance is shown in the incubus schedule of the cover beams or in the information of the filigran slab.

5.10.1. Marking of yoke beams

5.10.1.1. Single beam


You can mark the yoke beam by clicking with left mouse button.

5.10.1.2. Several beams

Several beams can be marked by clicking on a beam and holding the **STRG** button at the same time. The new beam is marked and the other marked beams remain.

5.10.2. Shifting of yoke beams

Marked yoke beams can be shifted by mouse. For it you have to point on a marked yoke beam til the mouse pointer becomes a double arrow. By shiftclicking you can move the yoke beam to its new position.


With the symbol „Ortho“  you can decide, if the yoke beams are to be shifted in only one direction (horizontal oder vertical) or any you like. If the symbol „Ortho“ is marked, the beams are only shifted either horizontal or vertical.

Through pressing and holding the **STRG** button during shifting, the selection of the Ortho mode can be turned upside down.

Beams which would stand into a wall after shifting, would automatically shortened or deleted.

The beam distances are displayed during shifting and always updated so that the distance can be controled easily.


5.10.3. Delete yoke beams

Marked yoke beams can be deleted by clicking on the symbol „Delete“  or with the button **DEL**.

5.10.4. Lengthen, Shorten and Turning of yoke beams


5.10.4.1. By mouse

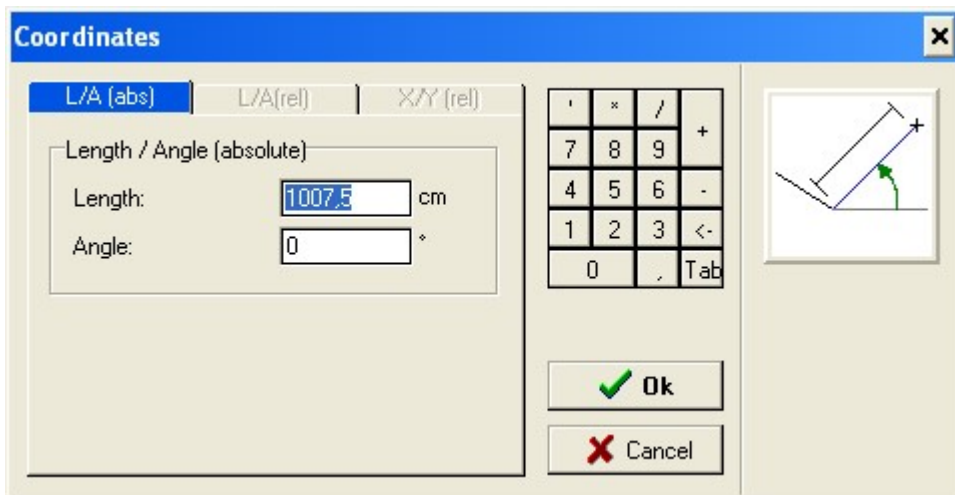
With the help of both markings at the end of the marked yoke beams, this end points can be shifted separatly. So it is possible to lengthen, shorten or turn a yoke beam.

With the symbol „Ortho“  you can decide wether the ends should be shifted in the direction of the beams or anywhere else. If „Ortho“ is marked the beamer can only be changed in the length but not be turned.

Through pressing and holding the **STRG** button on the keyboard during shifting, the selection of the Ortho mode can shortly be turned upside down.


5.10.4.2. By direct input of length and angle

The length and direction of yoke beams can be changed through a directly input of length and angle. For it call up the symbol “length/angle”  or the instruction „length / angle“ from the contex menu and then the dialog „coordinates“.



Here you can enter the desired length and angle. The angle is 0° for yoke beams which shows exactly in yoke beam direction of the plane.

5.10.5. Add yoke beams

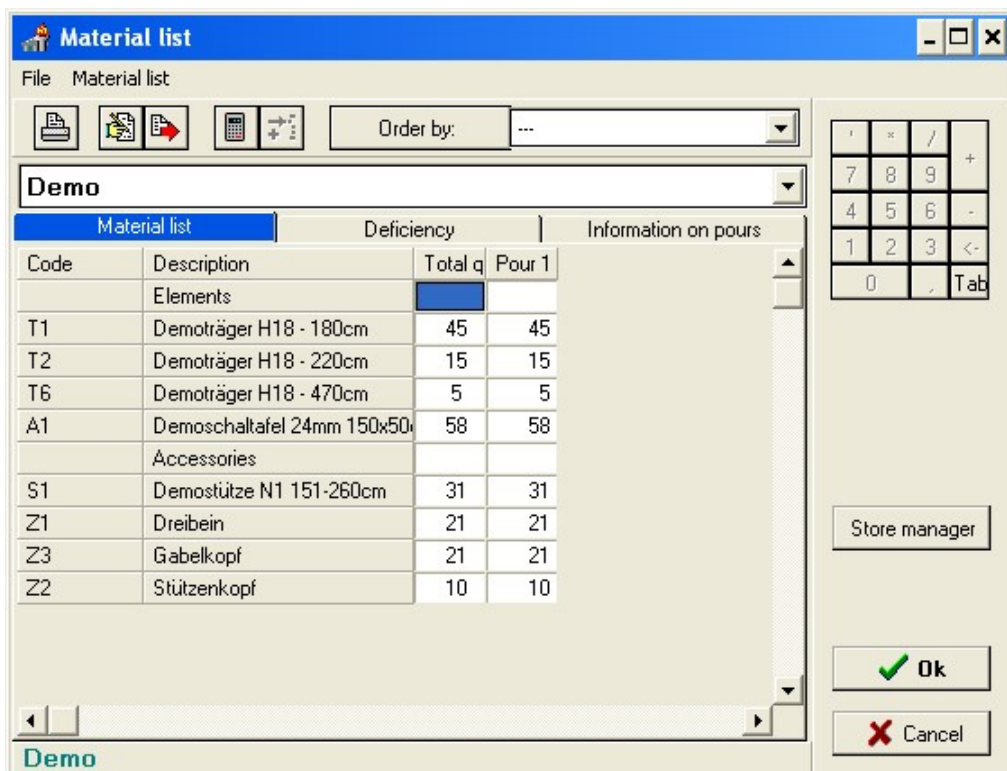
With the symbol „New“  or with the instruction „New“ from the context menu new yoke beams can be added. After you have activated the instruction you have to click on the start position of the new yoke beam and shiftclicking til the end position is reached. Then let the key go a a new yoke beam is created.

6. Material list

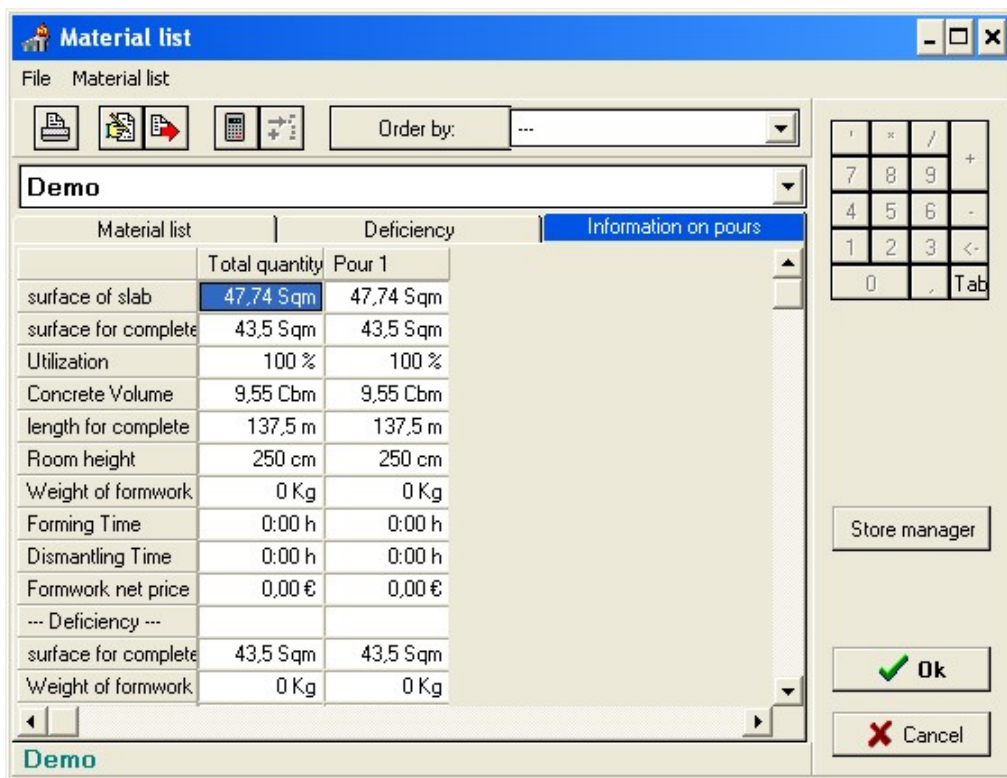
In the material list all parts are listed which are needed for the current project.

On the index side „material list“ all parts are listed you need. The material is listed for every pour. In the column Total quantity the whole quantity is contained which is necessary to form the pours.

On the index side „Deficiency“ the material is listed which is also needed in addition to the stock in the store manager (chapter **Fehler! Verweisquelle konnte nicht gefunden werden.**) to carry out the project.

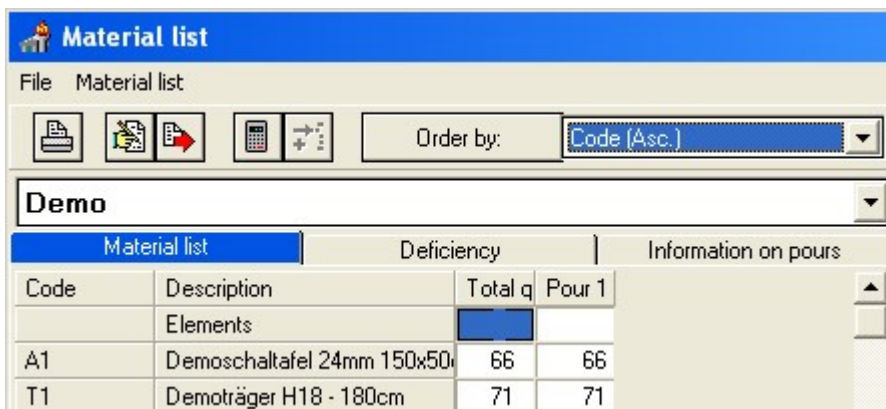


On the index side „pour information“ additional information to the floor plan are listed.



6.1. Material of different manufacturers

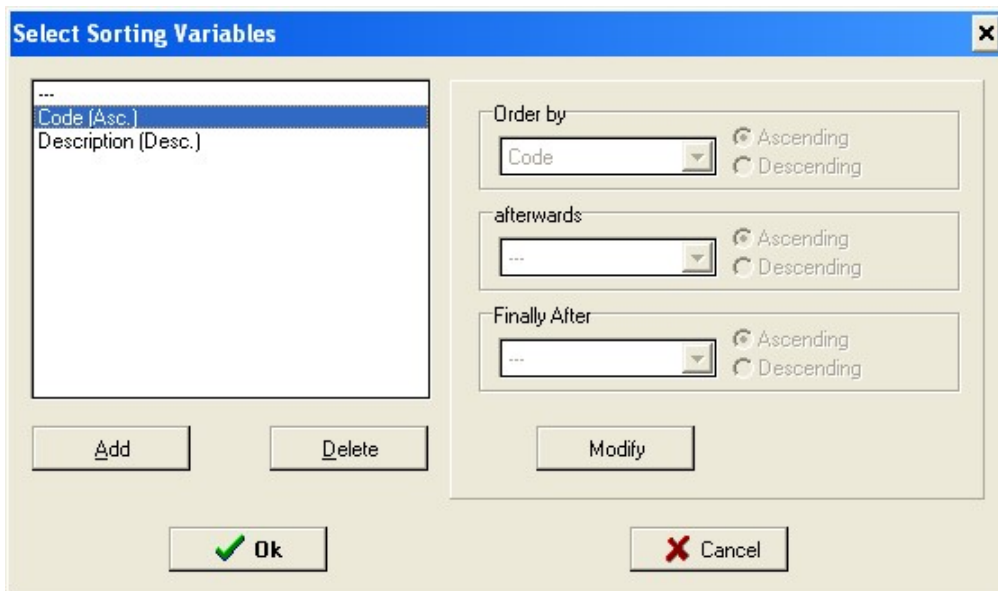
If there is material of different manufacturers in the material list (e.g. at the floor form: beams and props of different manufacturers), you will always have the material of one manufacturer on the screen.



The current displayed manufacturer is shown directly above the table (here „Demo“). With a click on this selection window a list is opened, where all manufacturers are shown which are used in this project. In this list only the manufacturer can be selected whose material is to be shown.

6.2. Sorting of material list

With the button „Order by:“ a dialog is called up, where different order variants can be created (according to article number, name, price, dimensions...).



With the button „Add“ and „Delete“ various order variants can be created or deleted.

With the button „Edit“ you can edit the order variant on the left side.

On the right side you can define up to 3 criteria for every order variant after which the material list is to be sorted.

In the selection window in the material list the sorting variant can be selected to which the list is to be sorted.

6.3. Edit Material liste

In the material list the stock of single parts can only be changed in the columns of the pours. A direct change of the total quantity is not possible. The total quantity is calculated automatically according to the entries of the single pours.


6.3.1. Edit stock

The number of parts in the material list can directly be changed in the table. For it mark in the line of the element, which stock you want to change, the field of the pour. Then you can directly enter the new stock value with the keyboard.


6.3.2. Delete parts

Single parts can be deleted from the material list by entering 0 in the quantity of the pour. After closing and reopening the material list these parts are disappeared.

6.3.3. Add parts

If a pour is marked in the table (not the quantity of pours), a new element can be added with the symbol „add panel to material list“  or with the instruction „add panels“ from the menu „edit“ from the store manager into the material list. For it the store list opens where you have to mark the panel you wish. In the stock list the deficit of every single part is shown which would still be there, if the current material list would have been deducted from the stock. After confirming with „OK“ a window appears, where you have to enter the number of the part.

6.3.4. Reset material list

If you want to show the stock, which is needed for the current plan, you can either shutter the plan new or you push the symbol „calculation“  in the material list or the button „calculation“.

6.4. Export material list

With the menu point „Export“ from the menu „file“ the material list can be exported to a text file, so that you have the possibility to use this material list in another programme(e.g.: Microsoft Excel).

You can stipulate the format of the text file with the instruction „export settings“ from the menu.

7. Store manager

In the store manager the whole material is administered which is in the current loaded form system. Here you have the possibility to administer your stock, create further stocks, to delete, to transfer material and to release parts for automatically forming.

7.1. Screen view

7.1.1. To fade in and out parts

In the store manager you have the possibility to fade out parts which are not to be used, so that the list can be created more clearly. For it you have to use the 3 buttons „All“, „visible“ and „active“.

Every part of the store manager has two attributes „active“ and „visible“.

If the button „active“ is pressed, only the parts are shown which have the attribute „active“. If the button „visible“ is pressed, only the parts are shown which have the attribute „visible“. If the button „All“ is pressed, all parts are shown.

The screenshot shows the 'Store manager' window with a menu bar (File, user defined parts, Info) and a toolbar. Below the toolbar are input fields for 'Code' and 'Description', and filter controls for 'Width' and 'Height' (each with 'All', 'Visible', and 'Active' buttons). A table lists parts with columns: Code, Description, Quantit, Activ, Weight, Price, Monthly F, and Colour. The table contains two rows: T1 (Demoträger H18 - 180cm) and T2 (Demoträger H18 - 220cm).

Code	Description	Quantit	Activ	Weight	Price	Monthly F	Colour
	Deutsch	Numbe		Kg	€	€	
	Elements						
T1	Demoträger H18 - 180cm	0	<input checked="" type="checkbox"/>	0,00	0,00	0,00	4
T2	Demoträger H18 - 220cm	0	<input checked="" type="checkbox"/>	0,00	0,00	0,00	5

As a standard at every opening of the store manager the button „visible“ is active. That means all parts are faded out which do not have the attribute „visible“. So you have the possibility to fade out certain parts which you do never want to use.

If you put the attribute „aktiv“ with a part, also the attribute „visible“ is put automatically. If you delete „visible“ the attribute „active“ is also deleted.

CAUTION: If you can't find certain parts of a system in the store manager, it could be that this parts are faded out. Please click on the button „all“ and look again for the parts.

7.1.2. Sort list

The list of the store manager can also be sorted to different criterions as the material list (see chapter 6.2).

7.1.3. Filter list

In order to find certain parts easier in the store manager list, the list can be filtered. That means all parts can be faded out which do not fit to certain criterions. Possible criterions are parts of the name, article number, height or width of the panel.

This image shows a close-up of the filter controls. It includes input fields for 'Code' and 'Description', and filter buttons for 'Width' and 'Height'. Each filter button has three options: 'All', 'Visible', and 'Active'.


7.1.3.1. Filter according to article number or name

In the fields „article number“ or „name“ you can enter as many signs as you like. Automatically only the parts are shown, where you can find this sign.

By deleting both fields both parts are shown again.

7.1.3.2. Filter according to width and height

If you want to filter the parts according to width and/or height you have to decide whether only the parts are shown which are equal $=$, equal and larger \geq or equal and smaller \leq to the desired value. Then you have to enter the value on the right side.

If you don't want to filter according to width and height, you have to mark all  buttons in the right line. After the input the filter is automatically used for the store manager.

Filter according to height and width is only working with form panels. It does not work with accessories. Accessories always get 0 at height and width in the store manager.

7.2. Administer stocks

You can enter the stock of every part in the field „quantity“ right beside the name of the parts. EuroSchal® gives the possibility to consider the stock at the wall forming.

If you form „according to stock“, only the parts are used which have a stock in the store manager (see chapter forming).


7.3. Release or block parts for forming

In the column „active“ you can see for every single part if it is allowed to be used for forming or not. If a part is to be used than it must be “active”. For other parts you do not want to use, delete „active“.

7.4. Administer several stores


As a standard there is one store for every form system in EuroSchal®, the “main store”. For every form system you can create as much stores as you want. With it either different stocks which are stored in different places can be administered or different panel combinations. In case you have a form system that contains alu or steel panels you can create a new store where you release all alu panels and another one where all steel panels are released.

7.4.1. New store

With the symbol „New store“  or the instruction „New“ from the menu „store“ you can create a new store in addition to the current form system. Afterwards you only have to enter the name of the new store.


The new store is not automatically activated.

7.4.2. Delete store


With the symbol „delete store“  or the instruction „delete“ from the menu „store“ you can delete the store. A list with all installed stores is shown. You can select the store you want to delete.

The current store cannot be deleted. It is also not possible to delete the last store that exists to a form system. If necessary you will get a message in these cases.

7.4.3. Change store


If you want to change into another store you can do this with the symbol „change store“  or with the instruction „change“ from the menu „store“. Through it a list with all stores for the current system is shown.


7.4.4. Rebook store

With the symbol „Rebook store“  or the instruction „rebook“ from the menu „store“ you can shift the complete stock from the current store into another store. You must then select the store from the list to which the stock should be shifted. After rebooking the stock the store, where the stock was booked, is automatically activated.

7.5. Book material list

If you have worked out a project you have the possibility to book the whole material of this project from the store manager. So the stock of the single parts is reduced.

With the symbol „Reserve materials list from stock“  or the instruction „Reserve from stock“ from the menu „material list“ you can reserve the current materials list from stock.

With the symbol „Reserve materials list into stock“  or the instruction „Reserve into stock“ from the menu „material list“ you can reserve the current materials list into stock again. The materials list must not really reserved into the same store where it originally was booked from. You will be asked when reserving into stock, if the material is to be reserved into the same stock from which it came or in another one.

When the material of a plan was reserved from stock, there is no possibility to change the plan. If you want to do alterations in the plan or in the material list, you first have to reserve the plan into stock.

7.6. Export stock list

With the menu item „Export“ from the menu „file“ the stock list can be exported into a text file so that you have the possibility to use the stock list within another programme (e.g.: Microsoft Excel).

You can lay down the format of the text file with the instruction „export setting“ from the menu „file“.

8. Planmanager

8.1. General

With the planmanager you can easily put the form plans together and print them on a printer or plotter. There is also place for your company logo in a text box on the paper. From your EuroSchal® floor plan you can fit in a pour view (in the window), view, 2-D side view, detail area (view or 2-D side view), material list, pour information, walls lists, store list, graphics, text boxes as well as sections of formwork manufacturers.

8.2. Start planmanager

The planmanager is started in the EuroSchal® Menu. The planmanager can only be activated if you have entered and formed a floor plan in EuroSchal® before. But first of all you should decide for a printer for you plan so that the planmanager can adapt to the paper format (menu bar: „Printer Setup“).

8.3. Possibilities

At the beginning always a white sheet appears. Through clicking on the right mouse button, selection point **add new top view** you come to different selection points and now you can start to add objects. After adding the object is marked with 8 little black blocks. With the mouse you can now change the size of the objects by shiftclicking with the left mouse button on a little block.

To shift the whole object, click with the left mouse button on the object and shiftclicking it to the end position. An added object can be changed at any time.

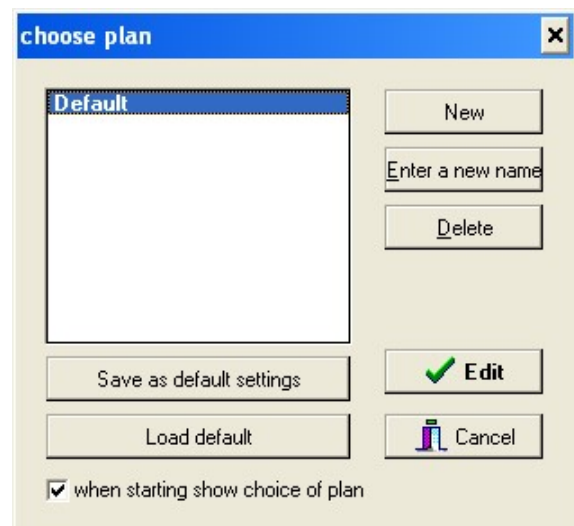
Should your objects do not have enough place, on one side automatically a second a third or more sheets are added.

8.4. Working with Planmanager

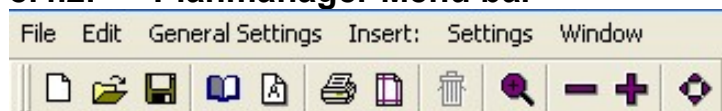
First you open a floor plan you like or use the plan you just have formed. Then click on the button **Planmanager** in EuroSchal® main menu.

8.4.1. Plan selection

The content of this window is stored with the active floor plan file of EuroSchal® (*.wsp). In this window you can make different plan prints of a floor file. This function is very usefull if you have to create two kinds of plans e.g.: You have created a floor plan with pours an several openings (windows and doors) 1. plan: Confirm the plan selection. (Mark standard) with edit. Then you can create a plan with view, several side views and materials list. After finishing the first plan you can print it. 2. Plan for windows and doors: Click with the mouse on the button „new plan“. You will be asked to store the current plan. Confirm this with yes. Now you are again in the plan selection with a little input window for the new plan name. Enter the text for the 2. plan (e.g.: plan for openings) and confirm this with OK. Add a new view(e.g.: pour view). Now you can fit the side view (without form) with windows and doors into the plan. On the screen you will only see a view and several side views with doors or windows dimensions. You can now print the second plan.



8.4.2. Planmanager Menu bar



With the menu text bar you can edit the plan easily and without problems. If you click with the left mouse button on a menu text e.g.: file, a sub menu with different functions opens.



New

Creates a new plan and asks you to enter a new plan name.

Open

Opens an existing plan in the planmanager.

Save

Saves the form plan to the current floor plan.

Save as

Is not possible because the form plan needs a constructed floor plan in EuroSchal® .

Set up page

Here you can change text files, columns and page division. No problem if you use singel or several sheets arranged side by side or one above the other. We recommend to use tile settings (standard) with fit to one page.

Print

Start printing on your standard printer of Windows. If this printer is the wrong one you can assign another printer in the printer set up field.

Exit

Back to the EuroSchal® main menu.



Delete

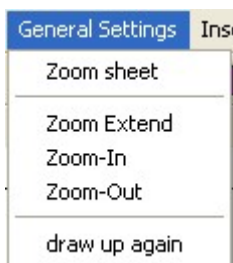
Mark the graphic or the text you want to delete and click on delete.

Mark all

All objects and texts on the plan are marked.

Demarcate completely

All marks on the plan are deleted.



Zoom sheet

To zoom-in a certain detail on your plan please activate „Zoom sheet“. Then you pull up a window (left mouse button) round the area you want to zoom-in.

Zoom extend

The whole sheet is extended to the screen format..

Zoom-in

Screen area is extended by appr. 30%

Zoom out

Screen area is reduced by appr. 30%

Draw up again

Screen area is set up new (regenerated)!



New top view

Adds a new top view

New side view

This one is active if a top view was marked before. Now you have to click on the wall side from which you want to add a side view. The reference to each other, shown in letters, is automatically made in the view and side view.

New material list

Adds a new material list

New list of missing material

Adds a new list of missing material

New pour information

Adds new pour information.

New walls list

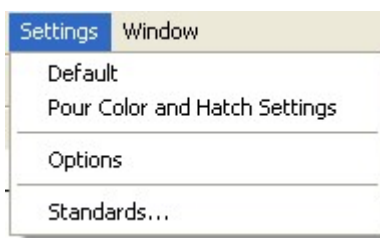
Adds a new walls list.

New stock list

Adds a new stock list.

New picture and new text box

Adds a new picture (graphic) or a new text box.



Standard

Here you can adapt the format of the graphic or text you want to add.

Hatch colours

You can highlighted the pour sections with different colour. Choose between 256 tones and several cross hatchings.

Options

Here you can decide on the favourit scale for the added originals.

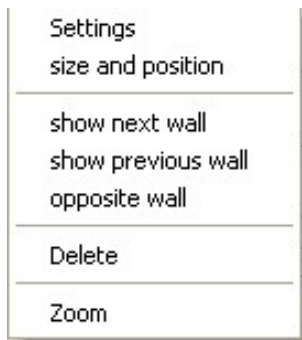
Standards

Select here the required standards (m, cm, foot...) for your plan.

8.4.3. Edit graphics and texts in the planmanager

Edit side view

With the right mouse button you can call up a sub menu, if you click on a marked side view.



Setting

The marked object can be changed as you like.

Size and position

Size, scale and position can be changed here.

Show next wall

In a side view the current page can be turned by one page.

Show previous wall

In a side view the current page can be turned back by one page.

Show opposite wall

Here you can change the wall side (inner and outer wall)

Delete

A marked object can be deleted.

Zoom

Any zoom window you like can be pulled up.

Edit text field

You can call up following sub menu by clicking on right mouse button on the text field.



Setting

The standard setting can be changed like you want.

Size and position

Here you can change size, position and scale.

Delete

Deletes the marked object (text box, material liste and so on)

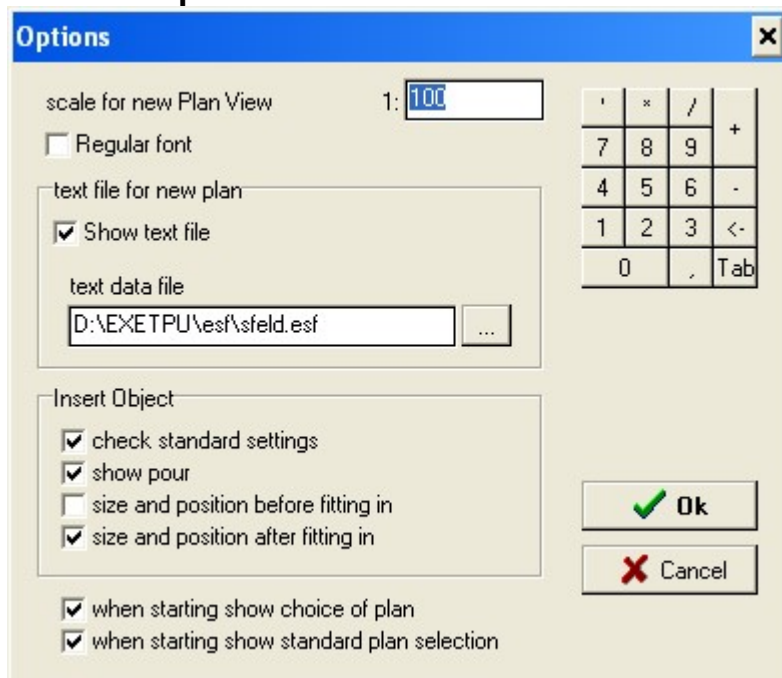
Standard size

The marked object is backspaced to standard font size.

8.5. Insert a new object

This window is shown if you want to add a new object into the plan. The left column is the so called main category, a menu part in the programme that can not be changed. On the right side there are the sub categories. In this sub categorie the user can create new objects (you can give them a name), change or delete. In the „sub categorie“ all kinds of possible objects are listed, which are in reference to the marked text „main categorie“ (left side).

8.5.1. Options



This window is either shown automatically when adding a new plan or you will find it in the menu „settings“.

Scale for views

Enter your standard scale here. The added objects are allocated by this value.

Text file for new plan

Here you can activate or deactivate the text file box in the plan. In an active condition the text field box is shown at least once per plan.

Add objects

Standard setting

If the selection window is to be shown before adding an object (view, side view...)

Show pour selection

During adding a view (or other objects) the pour selection window is shown where you can choose a pour which is to be shown.

Size and position before inserting

With this function you can say the size of the object.

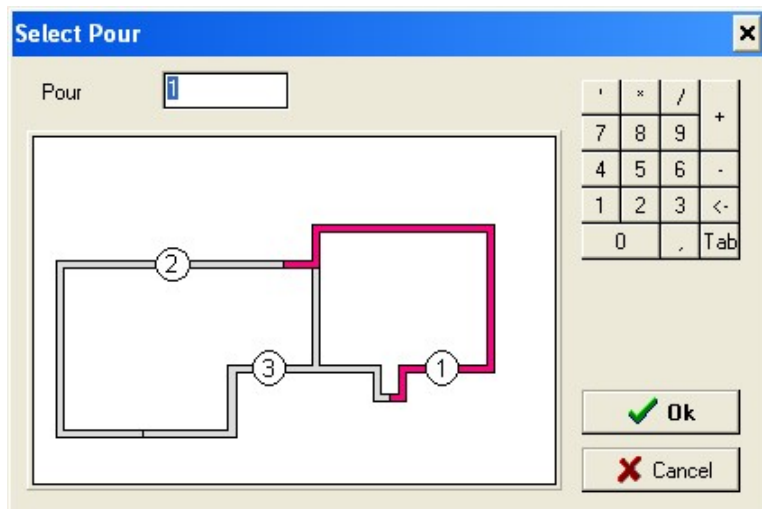
Size and position after inserting

The size of the object can be determined later.

Show plans selection at start

If always only one plan is created you can deactivate this window.

8.5.2. Pour selection window



When inserting objects (view, material list...) the pour selection window is always shown when the floor plan is divided into pours. Mark the one you need with the mouse.

8.5.3. Menu bars

The menu bar „**work sheet**“ was detailed treated before. For a simple processing there are some more menu bars at your disposal.

Menu bar „**Insert new object**“ (is always active)

The order of the menu bar can be right, left, at the top or at the bottom of the screen or floating.



If you pull a mouse pointer on a field, the function of the field appears, e.g.: insert view, insert side view and so on.

Menu bar „**view**“ (only visible when a view or side view is visible)

The order of the menu bar can be right, left, at the top or at the bottom of the screen or floating.



To show the functions of the fields point with the mouse on it.

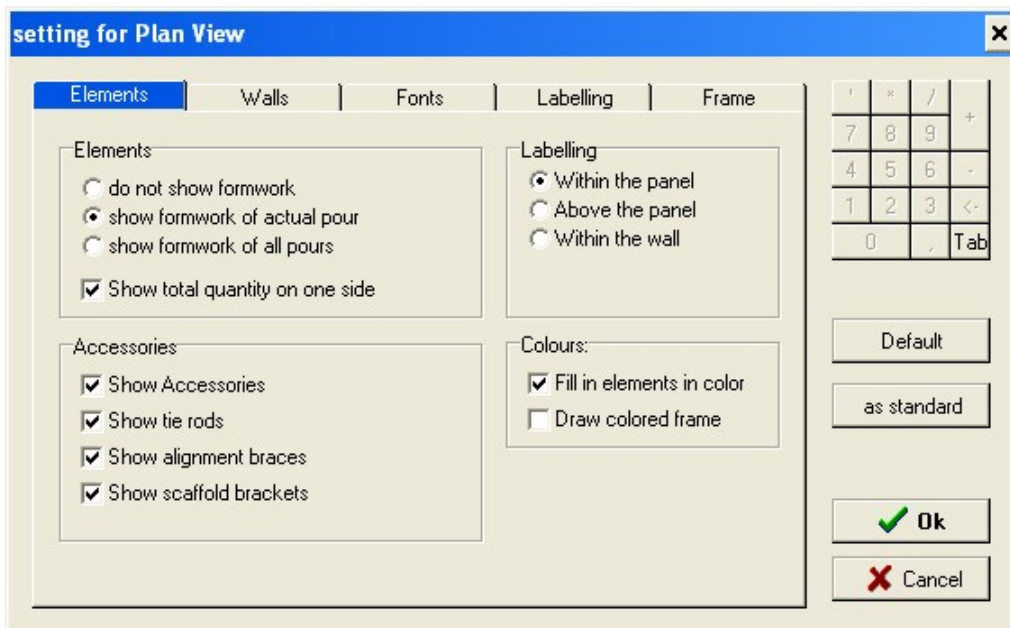
Menu bar „**Material list**“ (only visible when a material list is marked in the plan)

The order of the menu bar can be right or left, top or bottom of the screen edge.



8.6. Setting for the view

Click with the left mouse button on view and select „settings“. The following window appears:



8.6.1. Elements

- Show no form

The form elements are not shown in the ground plan (faded out).

- Show form of current pour

In the ground plan only the form panels of the active pour can be shown.

- Show form of all pours

The form elements are all shown with a floor plan with pours (faded in).

- Show total quantity on one side

The form panels of the total quantity are shown in the active small box (faded in).

Accessories

- Draw accessories

The accessory parts are shown in the view. (deactivate: not shown).

- Show tie rods

The tie rods are shown in the view (deactivate: not shown).

Labelling

- In panels

The width of the form panel is shown as a text within the panel frame.

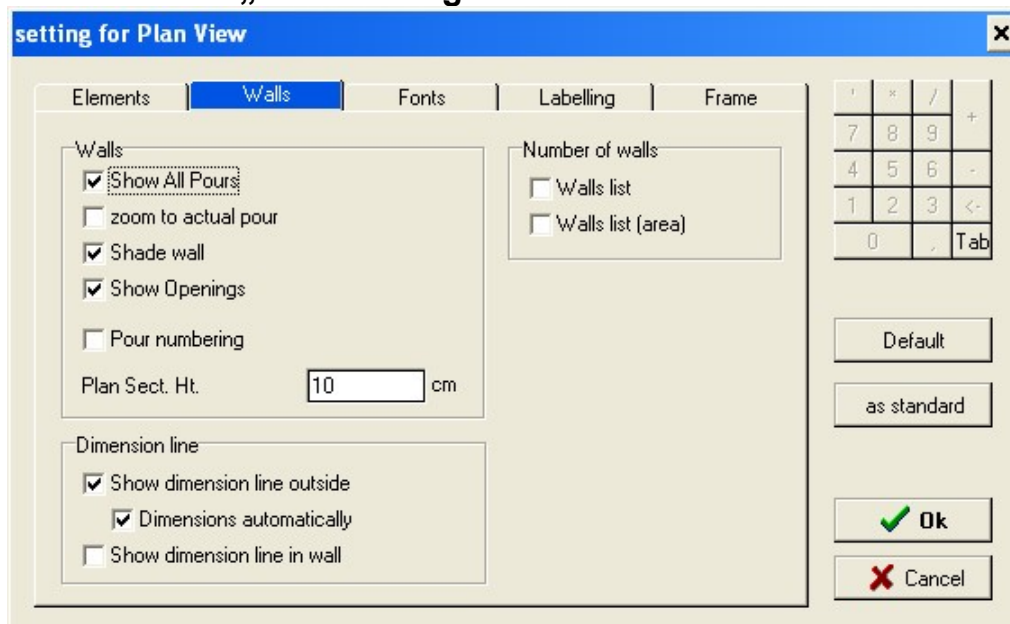
- Above panel

The width of the formwork panel is shown as a text outside the panel frame.

- In the wall

The width of the formwork panel is shown as a text within the floor plan wall.

8.6.2. View „wall“ settings



- **Show all pours**

If a floor plan was divided into pours all pour sections are shown together.

- **Zoom for current pour**

From a floor plan divided into pours only one pour is shown and adapted to window size.

- **Shade wall**

In the active condition the walls are shaded with every pour gets another colour. The colour of the single pour sections can be adapted like you want in the main menu „settings“ under „hatch colours“.

- **Draw openings**

Here you can decide if openings are to be shown in the view. This openings can only be shown, if they were entered in the floor plan before.

- **Pour numbering**

Here in the middle of the pour a circle is shown with the current pour number.

- **Plan sect. Ht.** (value in cm)

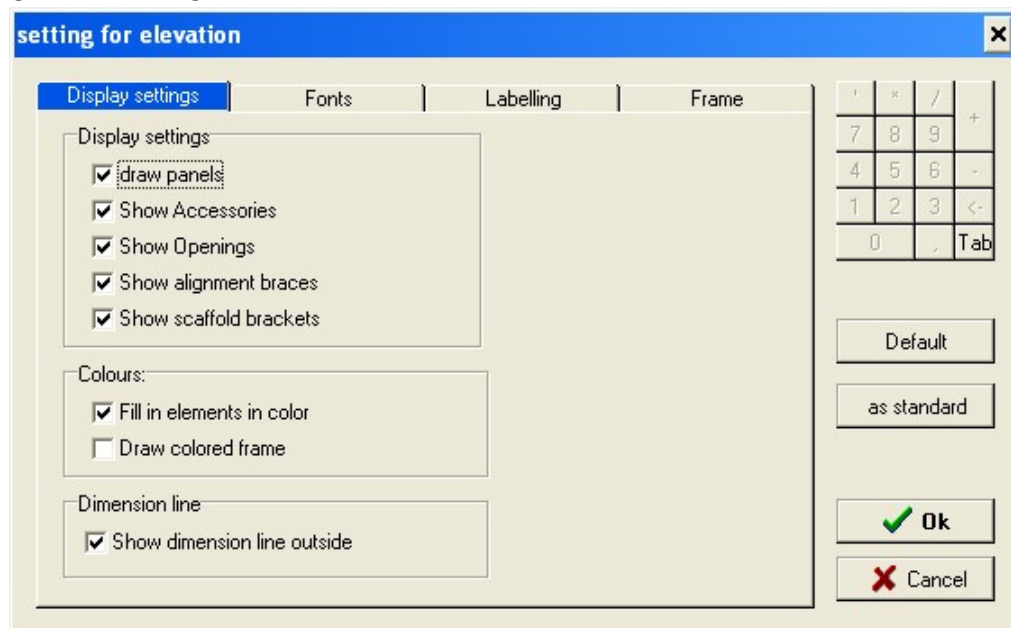
All formwork panels, which are in the section height (horizontal section) are shown in the view. The formwork, which is higher or below this value is not shown.

Fonts, Labellings and frames

Here you can do further detail settings for optical highlights and better understanding of the plan.

8.7. Setting for side view

8.7.1. View



Like in the view you can here edit your side view as you like.

Setting for material list, setting for deficit list, setting for walls list, setting for store list and setting for pour information.

Also in this fields the single lists can be exactly defined and edited for your wishes.

8.7.2. Pictures or graphic



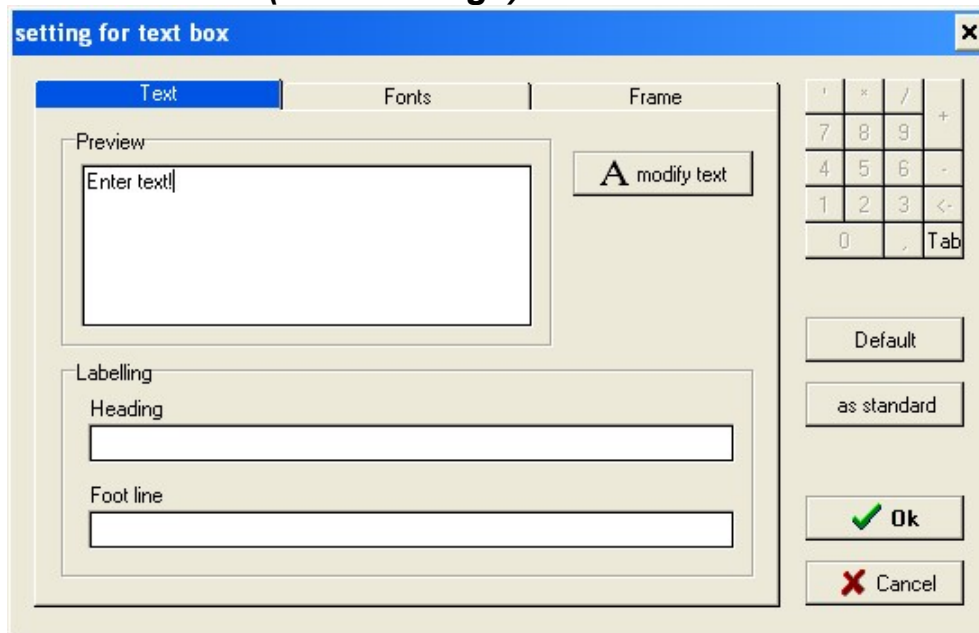
Picture

With this menu point you can add all files in *.wmf and *.bmp format. The size of pictures, graphics or sections of formwork manufacturers can be changed as you like.

Caution Important!

The picture or graphic file is not saved in the plan. In the plan only the path and alignment of the picture is saved. Should the file be deleted within a path you will only see white spots instead of pictures and graphics on the plan.

8.8. Text box (Text settings)



Preview

In the preview you will see the text entered in the text box.

Change text

Here you can change, complete or delete the text to the preview window.

The text field to the planhead can be changed if really necessary. You will find the texthead file under the EuroSchal® direction e.g. „C:\Winschal\esf\Sfeld.esf“.

For further questions please contact the hotline 08071-93040.