



ABOUT ARMCAD 7

ARMCAD 7 is professional software for drawing reinforcement details, automatic specification and recapitulation of reinforcement bars and nets, and creation of bending and cutting plans with cost optimization.

ARMCAD 7 was created as a result of our many years of work to improve the ARMCAD 6 program and represents its comprehensive improvement and enables a faster, easier and more accurate process of drawing reinforcement details. Many of the novelties in the ARMCAD 7 program stem from the practical and functional requirements of users, whose contribution to the development of the ARMCAD program is immeasurable.

MAIN ELEMENTS OF THE ARMCAD 7 PROGRAM

ARMCAD 7 enables drawing, positioning, labeling, marking and editing of bars, series of bars and mesh reinforcement. The formation of complete and detailed reports of specification, recapitulation and cutting plan of bars and nets is completely automatic, and the reports are highly professional and fully adaptable to different standards and styles, both in form and content.

ARMCAD 7 contains complete support for the use of bars of limited, predefined length (purchase or transport length). The program provides the possibility of automated division and continuation of bars and series of bars (constant and variable) into several predefined ones. Positions with bars whose lengths exceed the purchase length are specially marked, and the creation of an optimal plan for cutting bars with the least amount of waste is automatic.

ARMCAD 7 provides multiple paving optimization mechanisms with mesh reinforcement with multiple levels of cost savings and waste reduction.

ARMCAD 7 is bidirectionally compatible with ARMCAD 6 and ARMCAD 2005, which means that it can load drawings drawn in older versions, but also save its drawings in a format that can be opened with ARMCAD 6 and ARMCAD 2005.

ARMCAD 7 also enables the automatic generation of finished drawings based on the sizing performed by the Tower program.

ARMCAD 7 is fully integrated into AutoCAD and BricsCAD and is compatible with 64-bit versions of AutoCAD (version 2010 and later) and 64-bit versions of BricsCAD (version v14 and later). The supported operating system is Windows, versions 7, 8, 10 and 11.





BRIEF OVERVIEW OF ARMCAD 7 NEW FEATURES

NEW FEATURES IN REPORT

In this group, the most important new features include the ability to display the bending diameter, adjust the font width factor, display oblique segments of the bar with deflection angles, adjust the orientation of the bar in the display in the specification, additional reports, additional columns and new ways to separate and group data, support for British standard specification - via Shape Codes that are determined automatically, etc.

NEW FEATURES IN ENTITY LAYOUT

Among the most important new features in entity layout are support for the technology of mechanical reinforcement coupling (threaded couplings), including labeling and specification and recapitulation of fasteners, the ability to adjust the appearance of the labeling for each entity separately, new ways of displaying bars, series, labels, new ways for their adjustment, displaying the markings of the installation layer of the bar or series, displaying the orientation of the mesh in cross section, new types of display of structural reinforcement, etc.

NEW FEATURES IN LABELING, POSITIONING AND REFERENCING

The most important innovations in these areas are the newly introduced uniform specifiers and the possibility of their automatic generation (uniform in terms of the dimensions of the boxes in which they are placed), labels with center alignment, the ability to skip bars during crossing, the option of labeling additional markings to the bar position, additional new types of sorting and numbering positions, the option of creating specifiers for grids in the cross-section, etc.

NEW FEATURES IN DEFINING AND EDITING GEOMETRY

The most important new features in defining and editing geometry are the use of standard mesh geometry in cross-section, the ability to add segments to the network in cross-section, support for arcs in standard bar geometries, etc.

NEW FEATURES IN REINFORCEMENT CONTINUING AND ANCHORING

Among the most important new features are the function of automatic continuation (break) of series of bars with alternating position of overlap, continuation in series of bars with arc geometry, continuation of circular bars (division into arc bars of transport length), anchoring (extension) of mesh reinforcement, etc.

NEW FEATURES IN THE USER INTERFACE

In this group of new features, the most important are the ability to group labeling styles, control of ARMCAD's auto-start when opening drawings with ARMCAD entities, several additional visibility filters, quick position selection and payments in dialogues via drawing, compliance control of weights and dimensions of networks between drawings and data in a database of type grids, the direct orbit of the bar geometry in dialogues, improving the import of reinforcement from the Tower, etc.

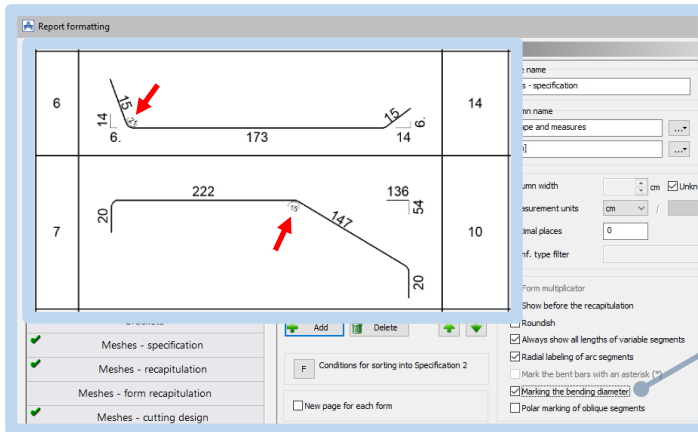
NEW FEATURES IN QUANTITY CALCULATION AND COST OPTIMIZATION

The most important changes are the possibility of using the remaining cut parts of the net within the same payments with the possibility of determining the most optimal order of installation of mesh positions, the possibility of entering the correction of bent bar length in relation to bar diameter and bending diameter, etc.

More detailed information on the most important innovations of the ARMCAD 7 program are presented below.



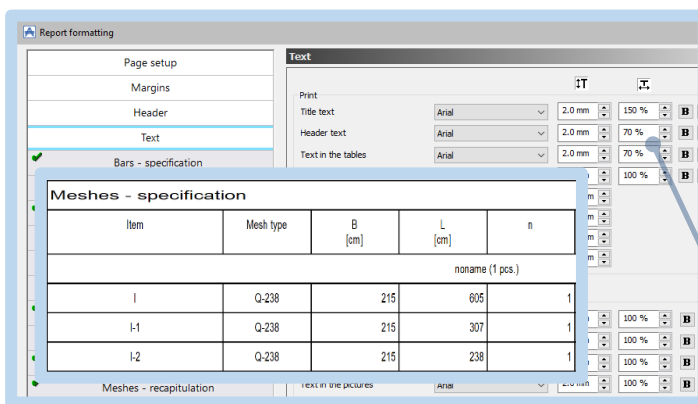
01 DISPLAY OF BAR BENDING DIAMETER



The appearance of the bar in the bar specification report may also include a graphical representation of the bending diameter. This feature can be switched on for each individual position separately, for all positions at once, and will be switched on automatically in the case of user-defined bar shaping parameters.

Switch in the report for enabling show of bending diameter.

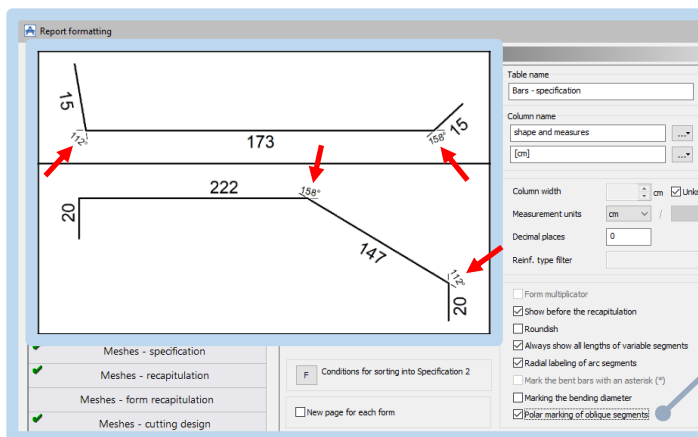
02 FONT WIDTH ADJUSTMENT



Fonts with a user-defined width factor are enabled. This allows using narrower fonts and save space or emphasize titles with wider fonts, both for the report that is being printed and for the report that is embedded in the drawing. The available range of width factors is 20-200%.

Mesh specification report with reduced font width to 70% for table text and column names, and increased to 150% for title text

03 POLAR MARKING OF OBLIQUE SEGMENTS



A new way of labeling obliquing segments - "polar" - is enabled in the bar specification report and bar layout display. This display mode can be selected for each position separately or for all positions at once. Right angles are not marked unless the right angle segments are "slope".

Switch for enabling polar marking of oblique segments.

04 SUPPORT FOR BRITISH SHAPE CODES (BS8666)

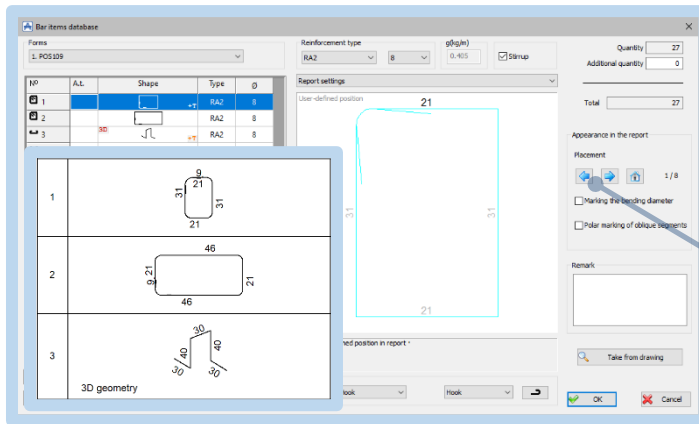
The feature of automatic recognition of the shape and parameters of the type geometry of the bar according to the British standards BS8666 is introduced, as well as the creation of a specification.

Specification report according to BS8666, with automatic bar shape recognition.

Bars - specification (POS109) (1 pcs.)					Shape code	A [mm]	B [mm]	C [mm]	D [mm]
mark	Ø	n [pcs.]	lg [m]						
21	11	1	200.00		21	200.00	4910.00	160.00	
6	11	1	4465.47		11	4465.47	160.00		
7	21	1	308.99		21	308.99	1209.89	201.95	
2	11	1	3081.99		11	3081.99	190.14		
9	00	1	4900.00		00	4900.00			
6	8	1	460.00		51	460.00	210.00	112.00	112.00
7	8	27	310.00		51	310.00	210.00	112.00	112.00



05 BAR ORIENTATION ADJUSTMENT



For each bar position, it is possible to specify a transformation (orientation) to display in the appearance of the bar in the report. As it is enabled for 1D and 2D bars, orientation adjustment is also enabled for 3D bars (according to a different algorithm).

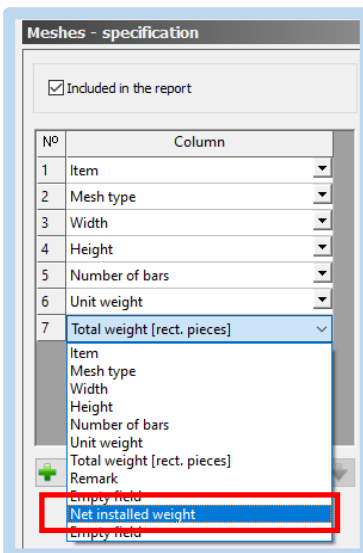
The stirrups of position 1 shows in the specifications "vertically", as set out in the dialogue Bar items database.

06 NEW REPORT - RECAPITULATION OF MESHES FOR A SINGLE FORM

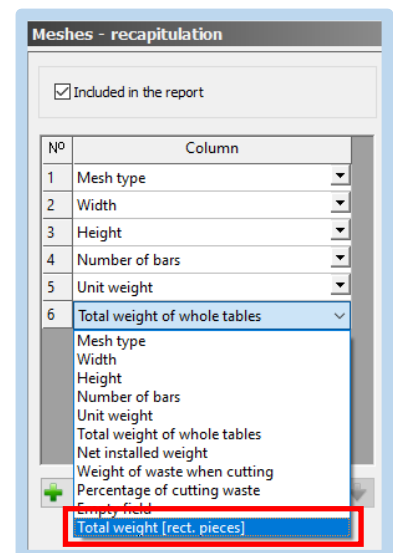
A new report was introduced - "Meshes – form recapitulation". It is available when a single cutting plan is not made for all forms. A separate report is printed for each form.

Mesh type	B [cm]	L [cm]	n	Unit weight [kg/m2]	Total weight of whole tables [kg]	Net installed weight [kg]
Wall W01-3						
Q-257	215	600	150	4.11	7952.85	5419.89
Q-335	215	600	38	5.38	2637.28	1999.24
Total					10590.13	7419.13
Wall W02-3						
Q-257	215	600	177	4.11	9384.36	6589.66
Total					9384.36	6589.66

07 DISPLAYING ADDITIONAL DATA OF MESHES CONSUMPTION



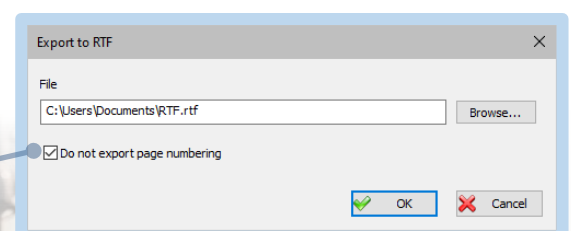
In the report of the network specification, added option of displaying the data "Net installed weight", which refers to the weight of exactly cut pieces of net (the existing data "Weight" referred to the consumption of cut pieces of rectangular shape). Also, in the report on the recapitulation of nets, the option of displaying data on the total weight of rectangular pieces of cut nets was added.



08 EXPORT OF REPORTS TO RTF - OPTION OF EXPORTING PAGE NUMBERING

The option of choosing whether page numbers will be exported when RTF is exported has been added.

Switch for enabling export of page numbering





09 PRINT OF TOTAL WEIGHTS IN THE BAR SPECIFICATION REPORT

Bars - specification (TG2) (1 pcs.)							
mark	shape and measures [cm]	Ø	lg [m]	n [pcs.]	lgm [m]	Bar item weight [kg]	Bar item weight without correction [kg]
1		14	8.32	9	74.85	92.97	94.45
2		10	7.45	9	67.05	42.44	42.44
3		8	2.41	47	113.27	45.87	49.49
4		8	1.61	44	70.84	28.69	32.08
Total						209.97	218.46

In the bars specification report, a row with the totals of the two columns of position weight (Bar item weight and Bar item weight without correction) has been added.

Bar items total weight in the report.

10 DIVISION OF REPORTS PER-FORMS

Report formatting

- Page setup
- Margins
- Header
- Text
- Bars - specification**
- Bars - specification 2
- Bars - recapitulation
- Threads and couplings - recapitulation
- Bars - form recapitulation
- Bars - recapitulation (SNIP)
- Bars - cutting design
- Brackets
- Meshes - specification
- Meshes - recapitulation
- Meshes - form recapitulation
- Meshes - cutting design

Bars - specification

☒ included in the report

Nº	Column
1	Item mark
2	Bar layout
3	Bar diameter
4	Bar length
5	Number of bars
6	Total length of bar item
7	Remark

Conditions for sorting into Specification 2

☒ New page for each form

It is enabled to define, for each report individually, whether to start on a new page for each of the forms or not. This data is now part of the report settings, which allows you to generate reports in the same way each time.

Switch for turning on report bar specifications to start at new page for each form.

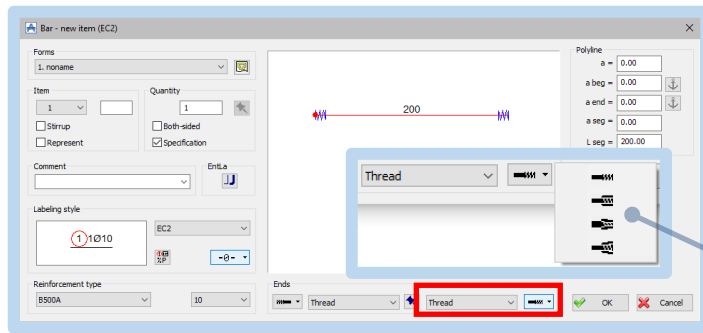
COMING SOON (1) SPECIFICATION AND CUTTING PLAN OF BENT MESHES

The bending of the mesh could impact the cutting plan - optionally. In the report of the mesh specification, it will be enabled to display the shape of the bending (in cross section), and the bending lines will be marked in the cutting plan (in layout).





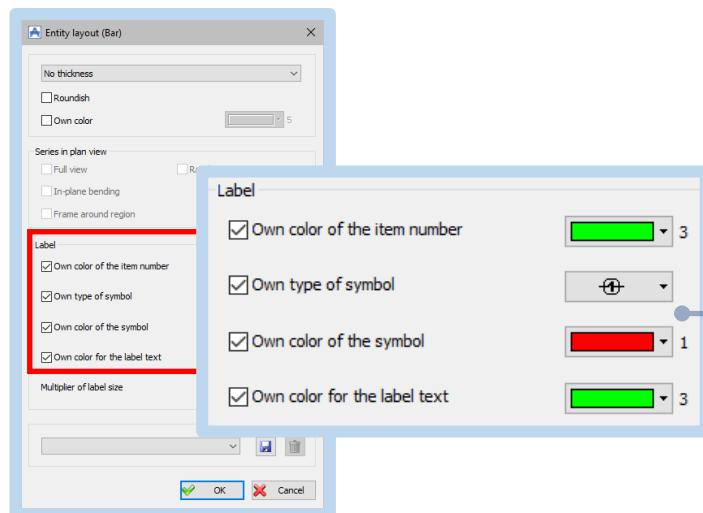
11 MECHANICAL CONTINUATION OF BARS WITH COUPLINGS



Support for mechanical continuation of reinforcement with threaded couplings is provided. The positions of the bars at the ends can define the existence of threads, and at the instances (bars and series) couplings can be placed. In the reports of the specification, it is possible to show the threads, and in the reports of the recapitulation, it is possible to count the used couplings.

Specifying threads and couplings in the Arbitrary bar dialog.

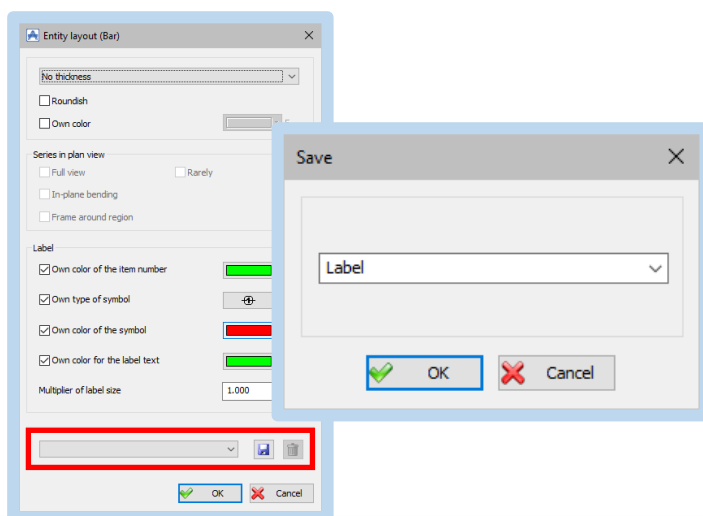
12 LAYOUT OF THE ENTITY I



The "Entity Layout" command allows you to independently set four user-selected settings (three colors and marking type) for printing text in labels for the selected entities.

Parameters for labels layout adjustment.

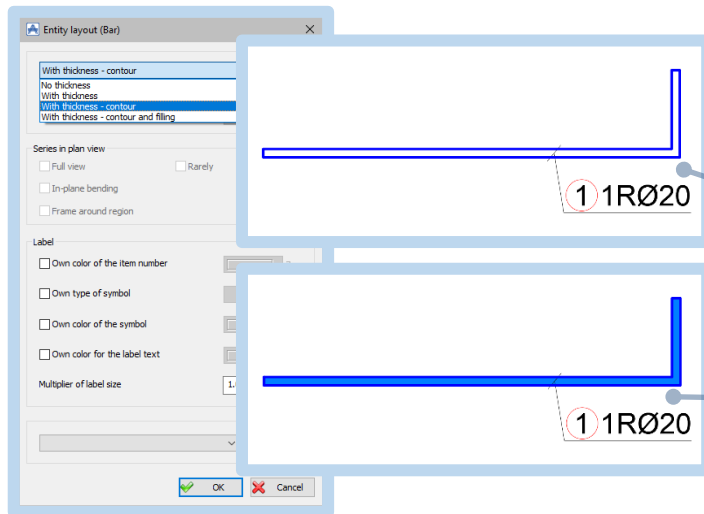
13 LAYOUT OF THE ENTITY II



In the "Entity Layout" command, enabled functionality for saving user defined configurations.



14 LAYOUT OF THE ENTITY III

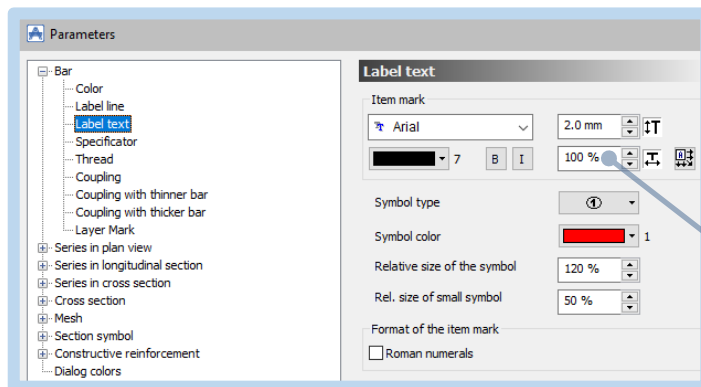


Two new types for bar's thick layout have been added to the "Entity Layout" command: "contour" and "contour and filling" (Contour lines Responds to OSNAP).

With thickness - contour.

With thickness - contour and filling.

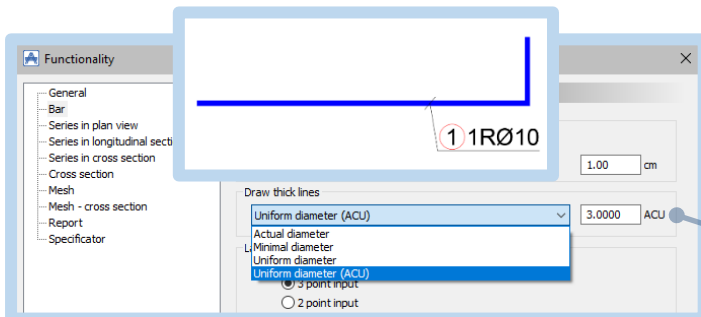
15 FONT WIDTH ADJUSTMENT II



The use of fonts with a user-defined width factor is enabled for labeling and marking the reinforcement on the drawing. The possible range of width factors is 20-200%.

Setting the font width for bar position number.

16 DRAWING BARS WITH THICKNESS - CONSTANT THICKNESS



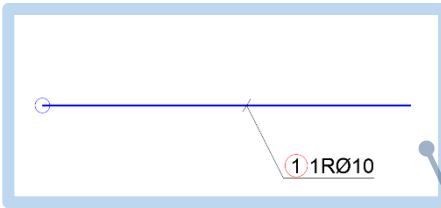
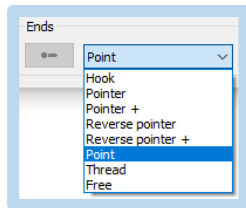
The option of using the "Single Diameter (ACU)" mode (drawing a constant thickness in ACU units that does not depend on the size) has been introduced for drawing bars and series with thickness.

Defining a constant thickness of 3 ACU for drawing bars.

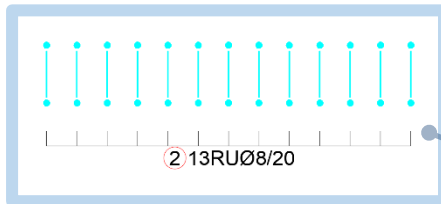




17 CIRCULAR MARKER AT THE END OF THE BAR AND SERIES



A new type of marker has been added - a circle (it can be used to show the bent end of the bar in the direction of view). For constant and variable series in longitudinal section, it is possible to set their drawing at the beginning and end of each bar representation line.



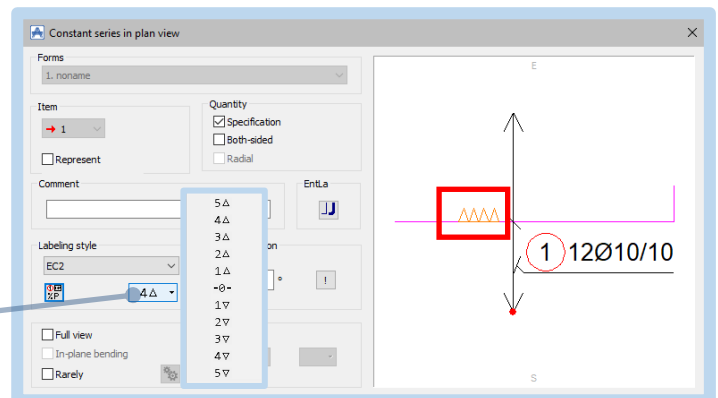
At the left end of the bar, a new type of marker is set – a Point.

Point markers in series in longitudinal section.

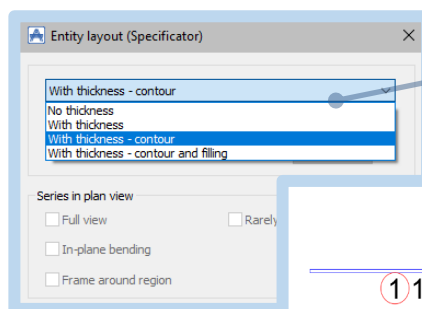
18 DISPLAY OF THE BUILT-IN LAYER MARK

It is possible to specify the built-in layer mark (for bars and series of bars in the base). The built-in layer is marked with a triangle symbol that is drawn on the bar, directed to one or the other side and which can be moved along the bar. There can be up to 5 of them, directed to one side or the other.

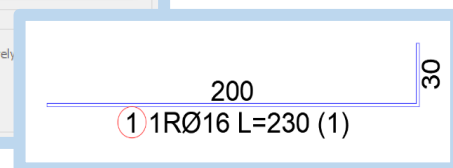
Setting the built-in layer mark in series in plan view.



19 DISPLAY OF SPECIFICATOR WITH THE THICKNESS



Adjustment of specifier width thickness

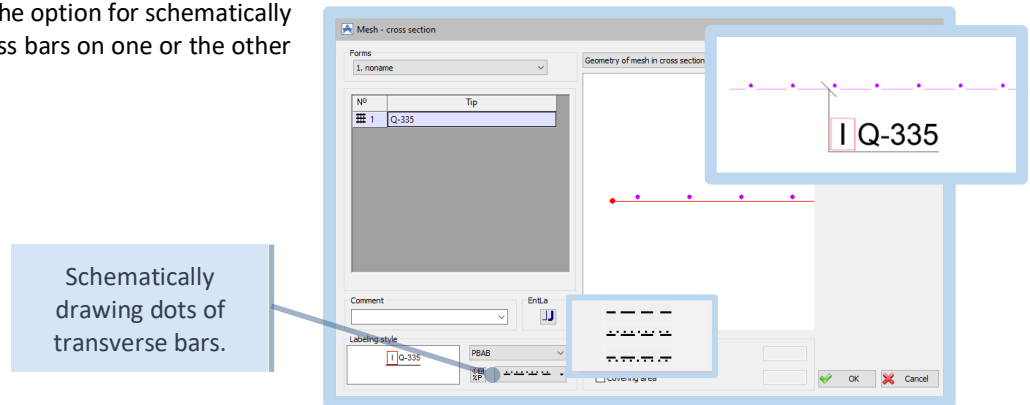


It is enabled to adjust the bar geometry display in the specifier (with and without thickness), and in the thickness display it is possible to adjust one of the four ways of calculating the thickness - as for all other entities.



20 SHOWING MESH ORIENTATION IN CROSS SECTION

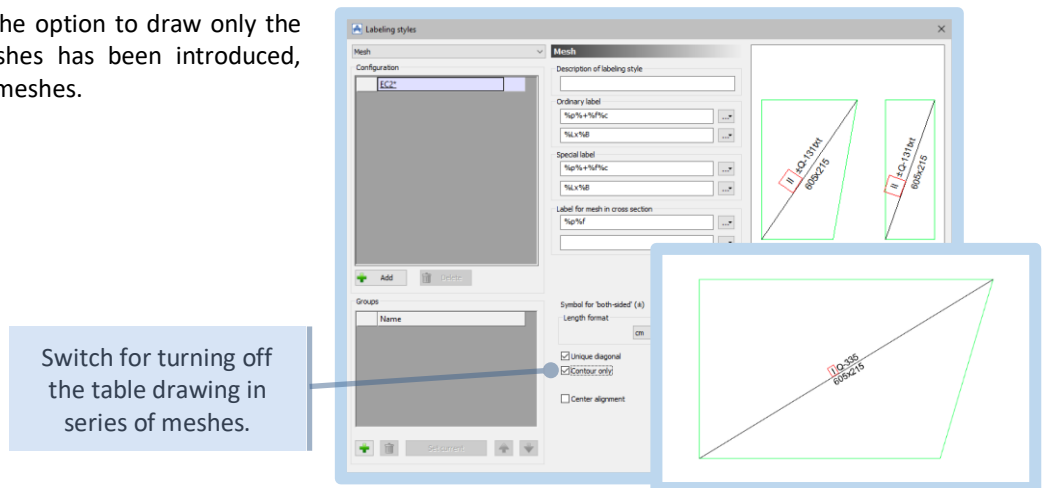
For meshes in cross section, the option for schematically drawing the points of the cross bars on one or the other side has been added.



Schematically drawing dots of transverse bars.

21 SIMPLIFIED MESH SERIES VIEW

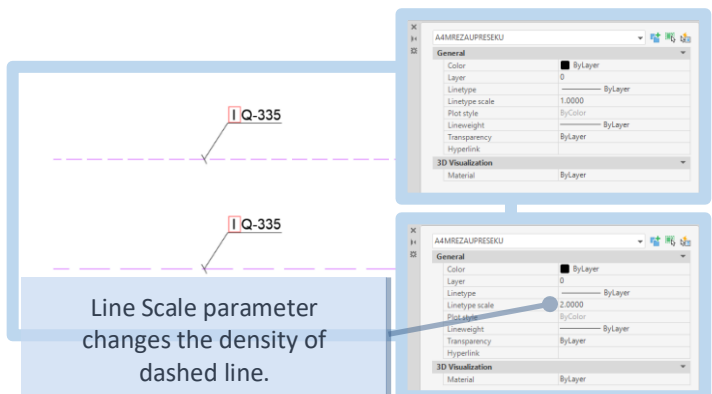
In the mesh labeling style, the option to draw only the contour of a series of meshes has been introduced, without displaying tables of meshes.



Switch for turning off the table drawing in series of meshes.

22 OPTION FOR ADJUSTING LINE DENSITY OF MESHERS IN A CROSS-SECTION

For the line symbol of mesh in the cross section, enabled adjustment of dashed line density using the Entity Line Scale data (set via AutoCAD's Property function).

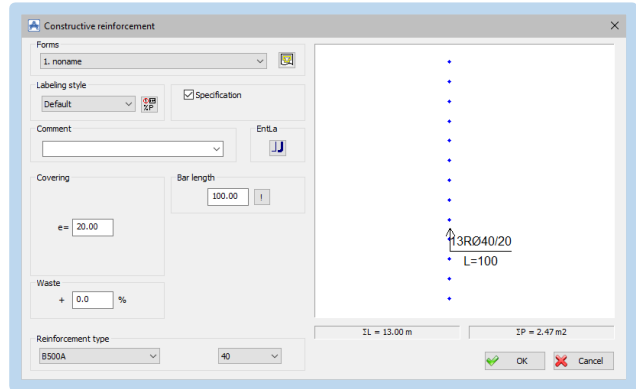
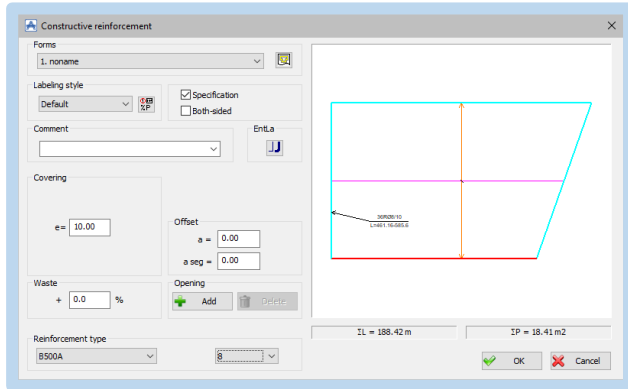


Line Scale parameter changes the density of dashed line.



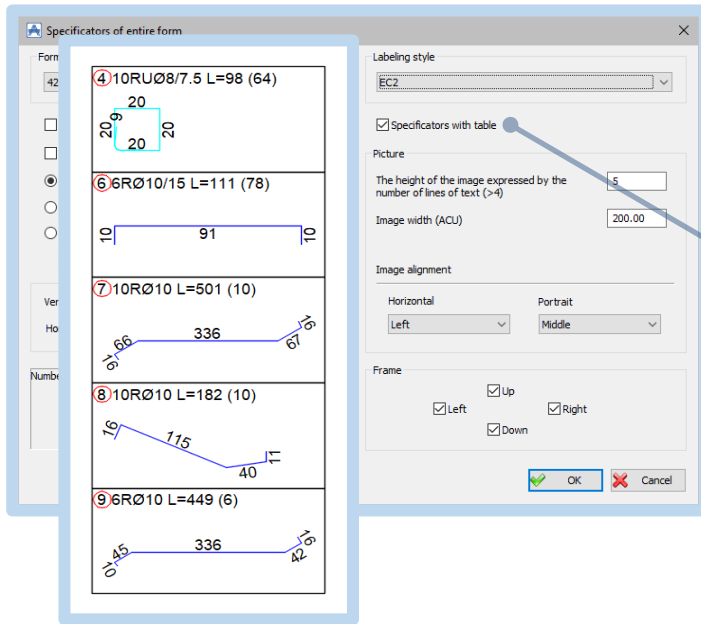
23 NEW LAYOUT TYPES OF CONSTRUCTIVE REINFORCEMENT

Two new layouts of constructive reinforcement were introduced - area and cross section. Constructive reinforcement is the straight reinforcement for covering certain surfaces, without specific geometry and without a position mark, and is counted in the recapitulation of reinforcement just with its weight and length.





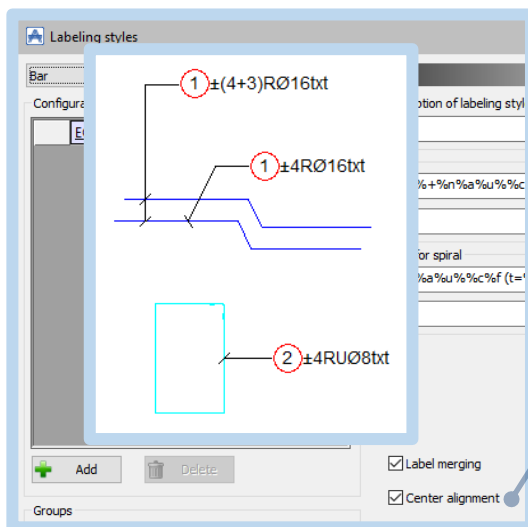
24 UNIFORM SPECIFICATORS



Automated mass generation of framed (formatted) specifiers of the same dimensions is enabled.

Check box for enabling generation of "framed" specifiers.

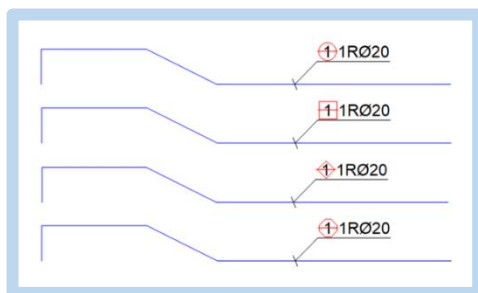
25 LABELS WITH CENTER ALIGNMENT



New type of label display, for bars, series, mesh and cross sections - center vertical alignment.

Switch for turning on center vertical alignment.

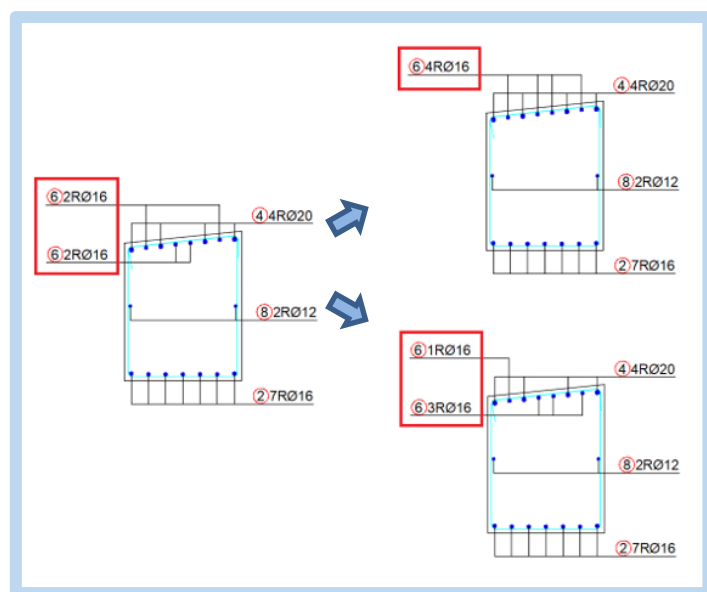
26 NEW TYPES OF LABELS LAYOUT



Four more types of framing around the position number for have been added. All four represent crossed variant of the existing types.

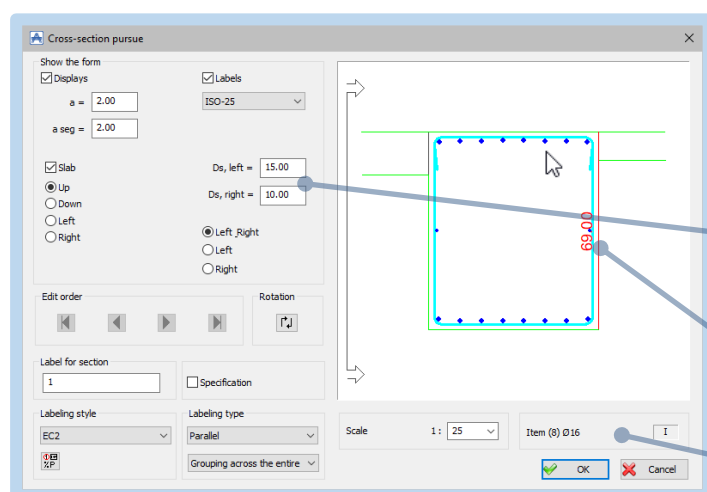


27 EDITING OF CROSS SECTION I



New command "Edit cross-section" has been created, which allows dots (bars) of cross-section of the same position to be transferred from one group of dots to another.

28 EDITING OF CROSS SECTION II



In the dialog for extracting the cross-section, when selecting a form segment, its length is also shown. While hovering the mouse over a bar, the position, diameter and group to which the bar belongs are displayed. Adjustment of the thickness of the plate on both sides is enabled.

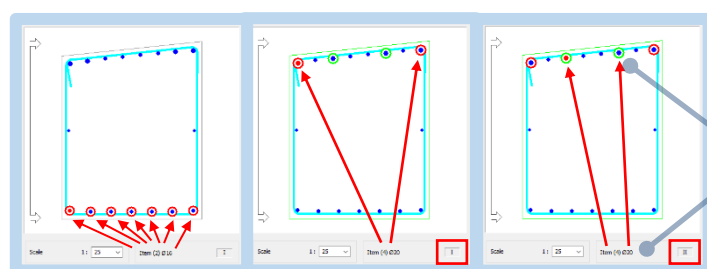
Independent setting of plate thickness on both sides.

Display of the length of the selected segment.

Item number, diameter, and group of
under the mouse bar.

29 EDITING OF CROSS SECTION III

In the dialog for extracting sections from longitudinal series, it is now possible to define an arbitrary grouping of cross bars (dots) of the same position, in order to be labeled together.



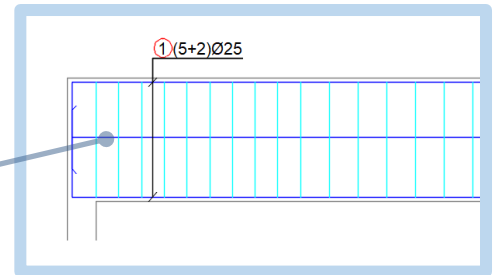
Clicking on any bar in the cross section will display a ring around all bars of the same position. The same colored circle indicates a common group and a common labeling. Right click opens a menu for editing.



30 LABELING ENHANCEMENT

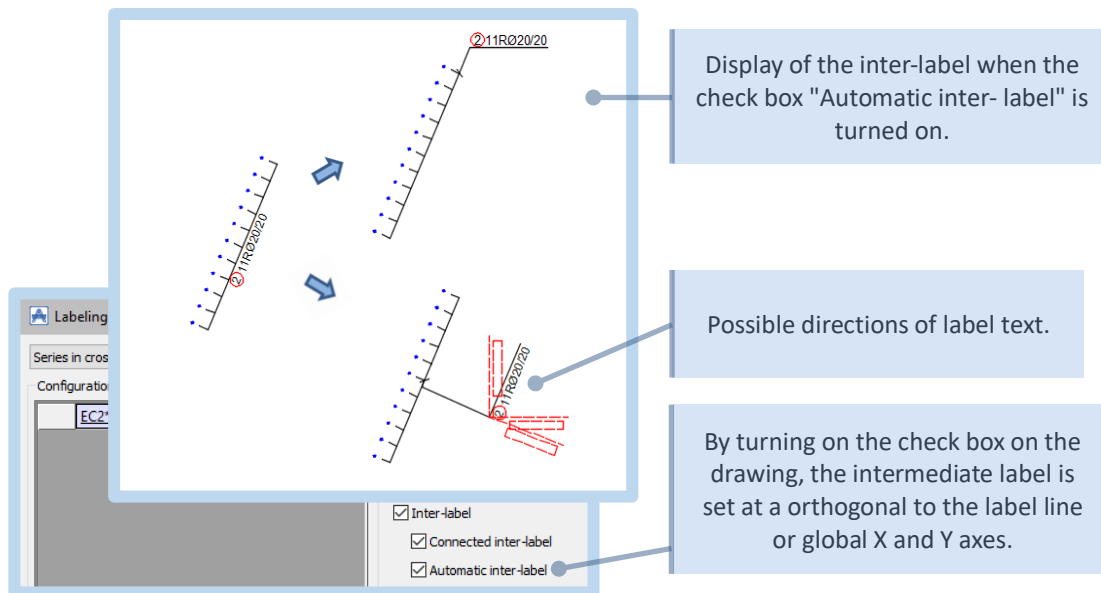
In the "Label" command, when cutting several bars, it is possible to exclude (skip) the labeling of individual selected bars.

A bar that is off at labeling and for which no label is displayed.



31 A NEW WAY OF LABELING SERIES - AUTOMATIC INTER-LABEL

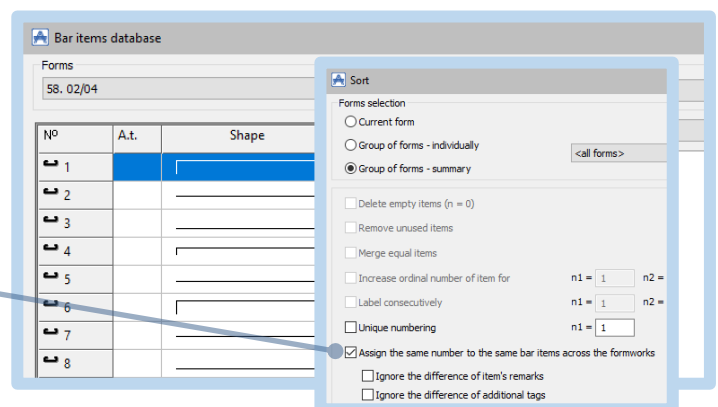
A new way of dragging and setting the label has been created for all series, which can be selected in the labeling style ("Automatic intermediate label"). In this way, the labels are drawn at right angles to the label line. For both the old and the new way, the direction of the label text can now be changed, but changing the angle is limited to the local directions of the label line and the global directions (parallel and vertical).



32 ASSIGNING THE SAME NUMBERS TO EQUAL POSITIONS

In the "Bar items database" dialog, the option was introduced to assign the same numbers to geometrically equal positions of bars from different payments.

Switch for turning on equal number re-assignment across the selected forms.

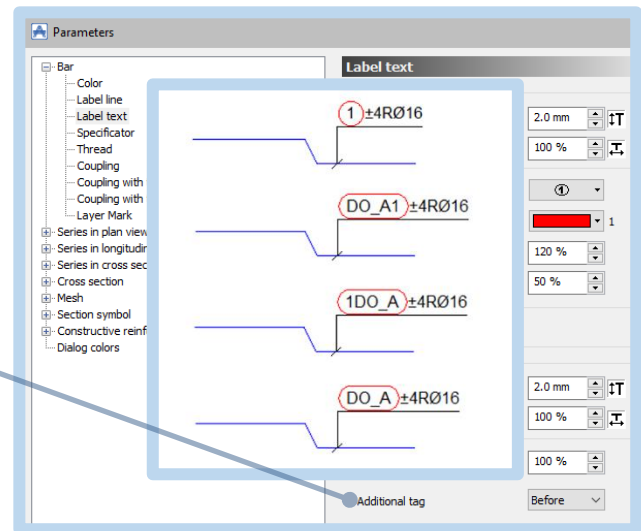




33 ADDITIONAL ITEM TAG

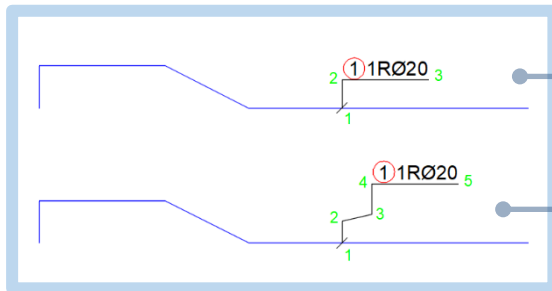
An "Additional tag" has been introduced in the bar items and mesh items. The additional item tag may be displayed together, with, or instead of the bar/mesh item number.

List to select one of four types of additional tag display.



34 MULTI-SEGMENT LABEL - NEW COMMAND

A new command for multi-segment label has been introduced (so far, multi-segment label has been called with the "Label" command, but only when such a mode of operation has been specifically enabled in the functionality).



The label is set by selecting points 1, 2 and 3.

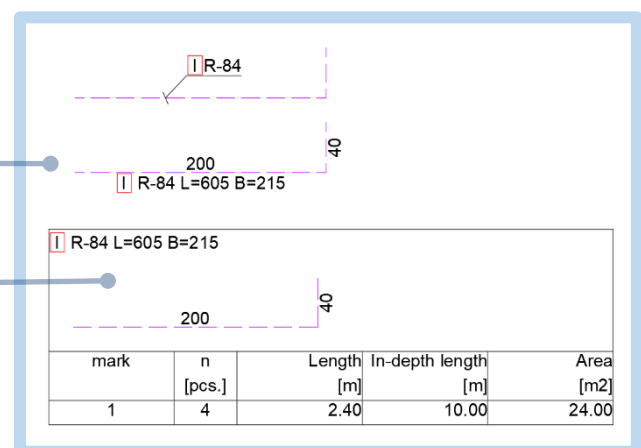
The multi-segment label is set by selecting points 1, 2, 3, 4 and 5.

35 SPECIFICATORS FOR MESHES IN CROSS - SECTION

The specifier and the specifier with the table can be created from the mesh in cross section.

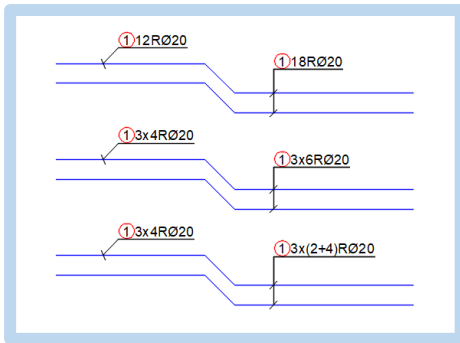
Specifier for mesh in cross section.

Specifier with table for mesh in cross section.



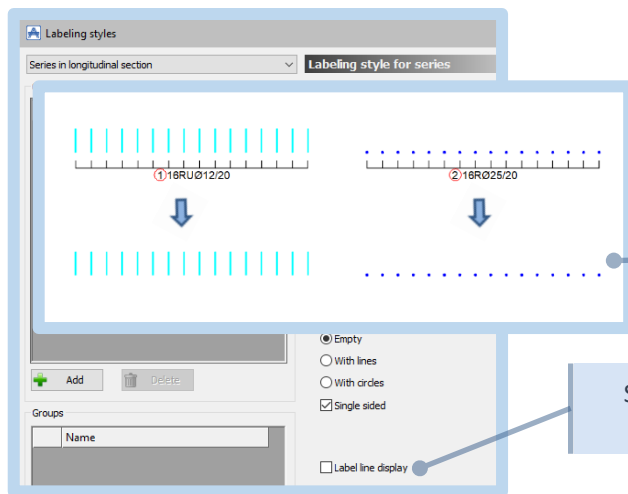


36 NEW PARAMETERS IN LABELING STYLE I



Three new entries have been added in the multi-entity label styles to display or take into account the mesh multiplier when printing the number of bar pieces or the number of pieces of mesh cut.

37 NEW PARAMETERS IN LABELING STYLE II

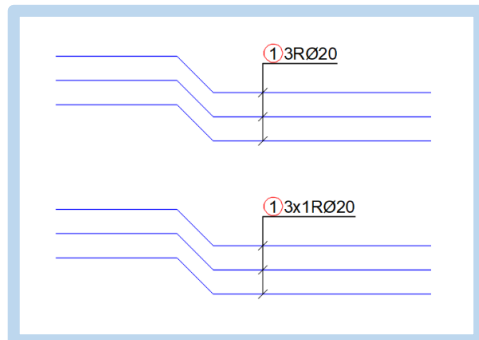


Enabled to set the labeling styles that causes series in longitudinal and cross section can be drawn without a series baseline.

Layout of series without series baseline.

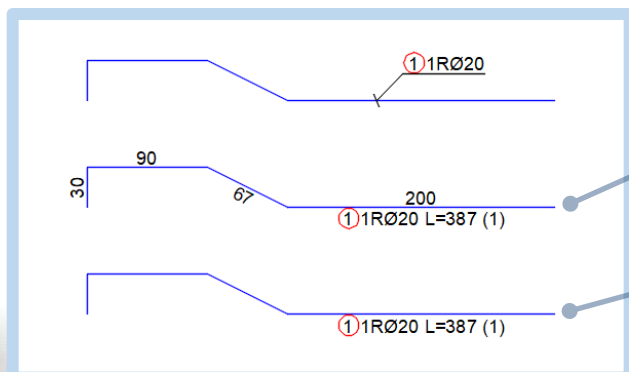
Switch for turning off drawing series baseline.

38 NEW PARAMETERS IN LABELING STYLE III



At joining a label, when one label intersects several instances of the bar of one position, it is possible to choose between two labels display modes: "N" or "Nx1" (set in the "Labeling styles" dialog).

39 NEW PARAMETERS IN LABELING STYLE IV



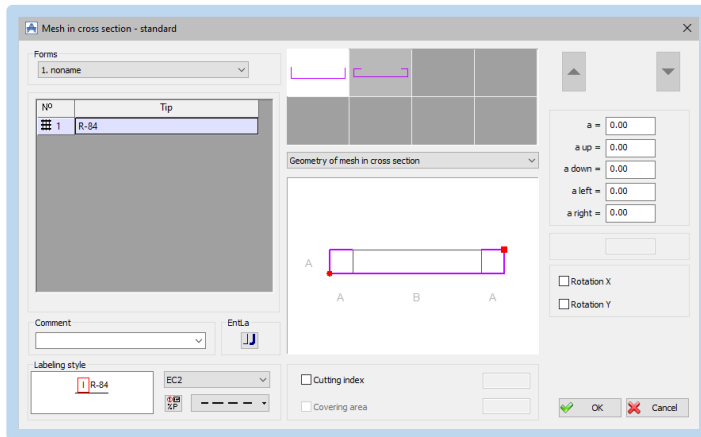
In the style of the specifier label, the display of the lengths of the bar segments can be turned off.

Specifier showing the length of the bar segments.

Specifier not showing the length of the bar segments.



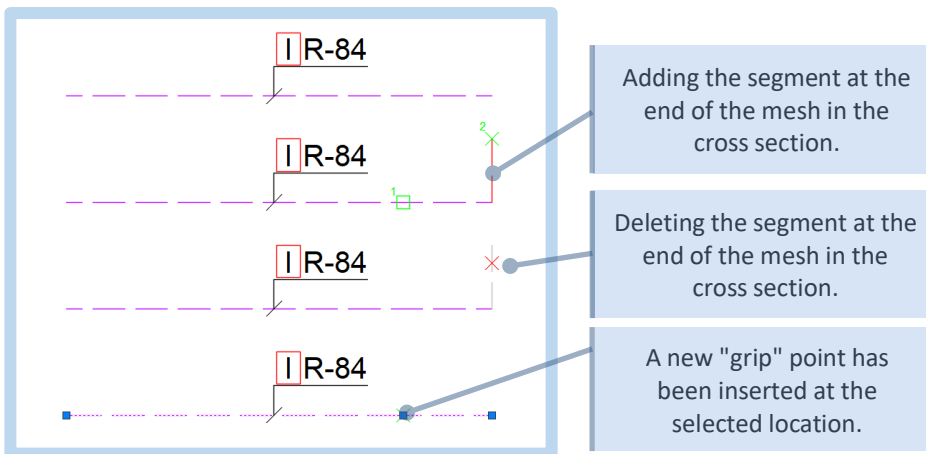
40 STANDARD MESHES IN CROSS SECTION



A new command for the standard meshes database in cross-section has been created and a new command for utilising the standard meshes in cross-section has been added.

41 MODIFICATION OF GEOMETRY OF CROSS SECTIONS MESH

Commands for adding, deleting and inserting segments to for meshes in cross-section as well.



42 SUPPORT FOR ARCHS IN STANDARD GEOMETRY



Added option that arc sections can also be specified when specifying the standard bar.

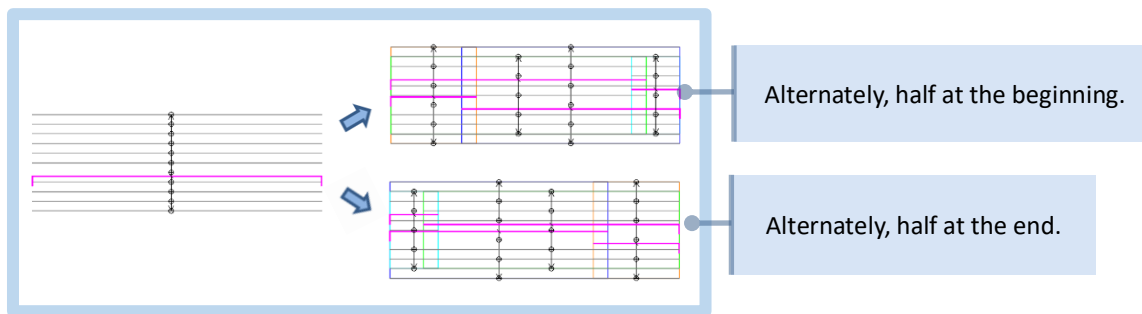
Line or arc segment selection list.





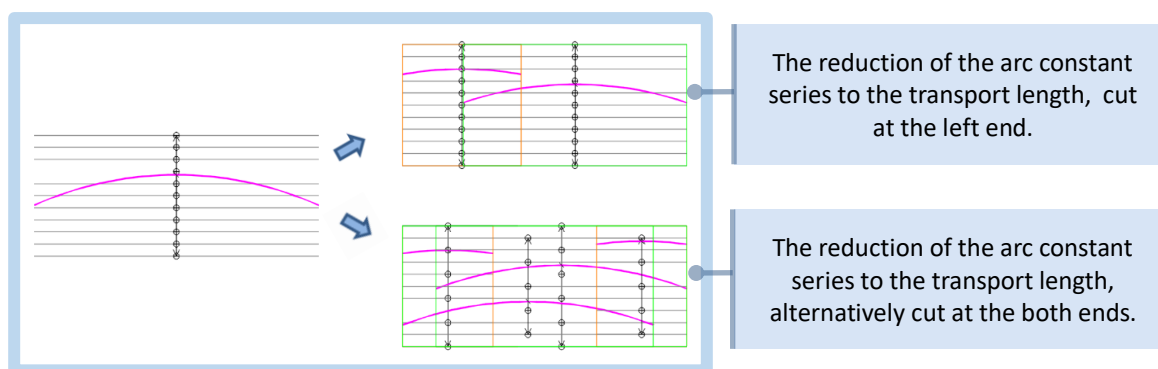
43 MULTI - CONTINUATION WITH ALTERNATE OVERLAP

It is possible to continue a series of bars with alternating position of the overlap.



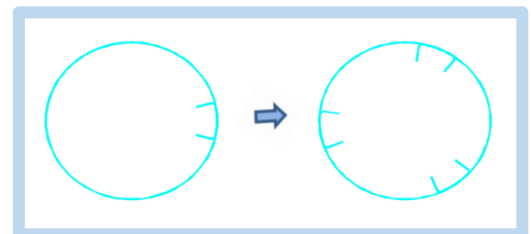
44 MULTI - CONTINUATION FOR ARCH BARS I

Multi - continuation of bars and constant series in which the continuing segment is arc is enabled.

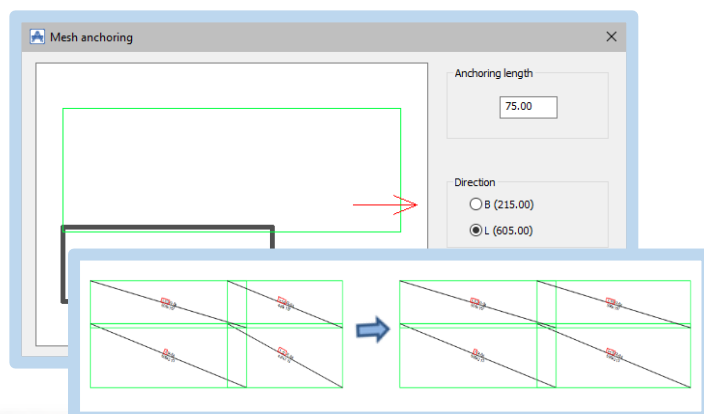


45 MULTI - CONTINUATION FOR ARCH BARS II

Multi - continuation of circular bars is enabled - division into segments of a defined (transport) length.



46 ANCHORING (EXTENSION) OF MESH REINFORCEMENT

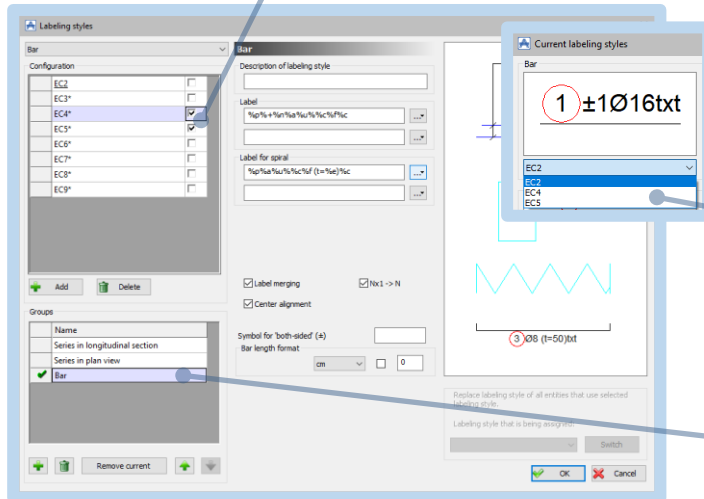


A new command has been created - "Mesh Anchoring", which allows you to easily extend the contour of a series of meshes to any side in the principal directions of mesh.



47 GROUPING LABELING STYLES

To the current group is associated two labeling styles, EC 4 and EC 5.

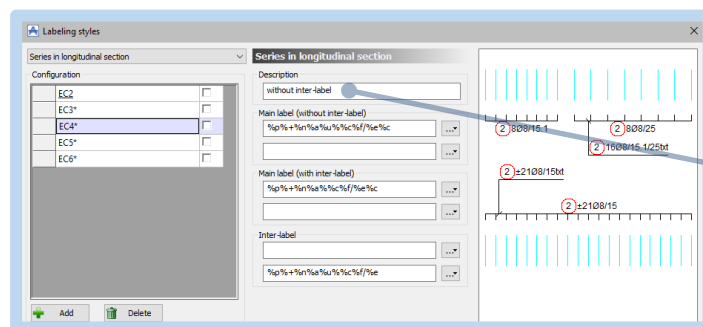


The option to group labeling styles to filter them has been introduced. Up to 32 groups can be created, and each group can include any set of existing styles. During the drawing process, only those label styles that belong to the current group will be available in the dialogues for drawing and editing entities.

In all dialogs, only those labeling styles that are associated with the current group and those that are already in use, are available.

Added 3 groups of Labeling styles and for the current group "Bar" was set up.

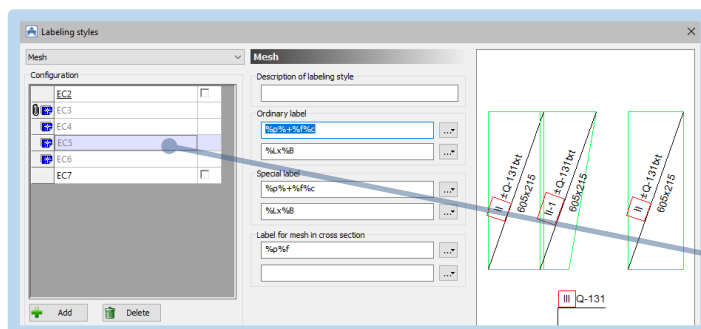
48 LABELING STYLE DESCRIPTION



All labeling styles now have the option for having their own description.

Field for the description of the labeling style.

49 LIST OF AVAILABLE LABELING STYLES

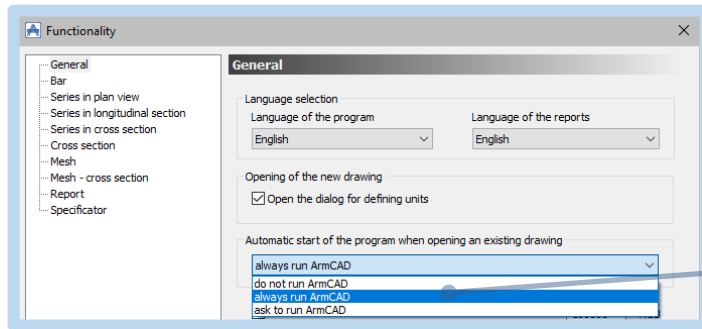


In the labeling styles dialog, unused label styles originated from the currently open drawing are not removed from the labeling style list. In addition, it is possible to delete the labeling style that was saved with the drawing, but is not used.

Visible all the styles contained in the drawing. Those that are not used can be deleted on demand.



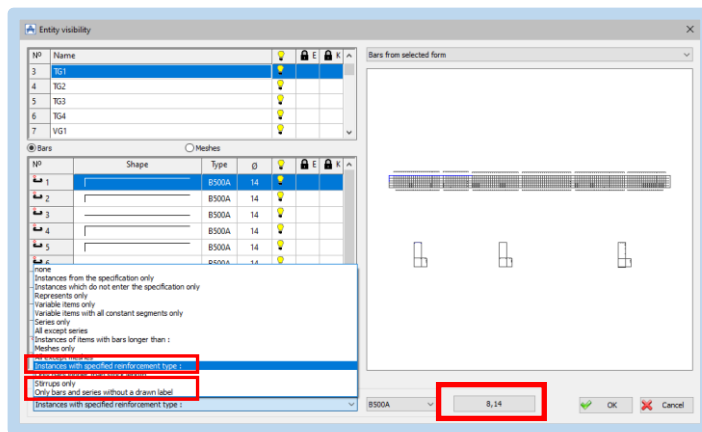
50 PREVENTION OF OF UNDESIRED LOADING OF ARMCAD



The option to adjust the behavior of ARMCAD when opening DWG drawings with ARMCAD entities in AutoCAD (where ARMCAD is not currently running) has been introduced to prevent unwanted ARMCAD loading.

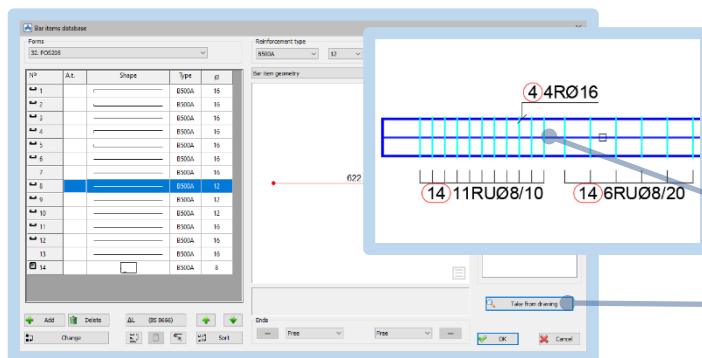
Adjusting program behavior at opening drawings in AutoCAD.

51 ADDITIONAL VISIBILITY FILTERS



Three new filters have been added to the visibility dialog (multiple diameters, stirrups only and only bars / series in a plan view - without labels). The first of them is the upgrade of the existing one, which referred to only one diameter.

52 FASTER AND MORE CONVENIENT SETTING OF CURRENT POSITION IN DIALOGUES

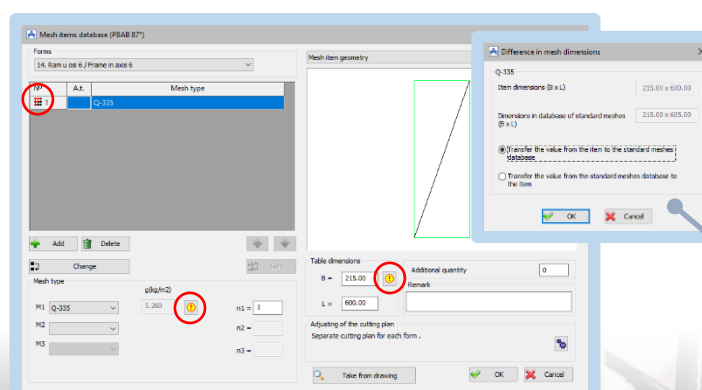


In several dialogues (bar items database, mesh items database, existing bar and represent), the command for select entities (bars, meshes, series...) from drawing is introduced, which sets selected tem position as current as upon the return to the dialog.

Select an entity from a drawing.

"Take from drawing" button in dialog "Bar items database".

53 CONTROL OF WEIGHTS AND DIMENSIONS OF USED MESHES

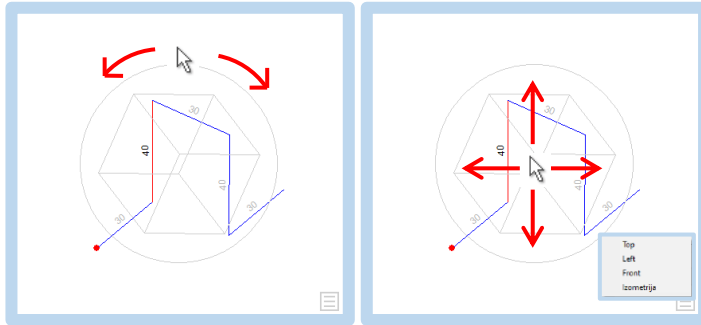


In the Mesh item database dialog, it can now be monitored whether the Gamma (mesh weight per m2), L (panel length) and B (panel width) data in the drawing are consistent with the data contained in the standard mesh database and, if necessary, the data can be easily synchronized.

Syncing of differences in mesh dimensions.

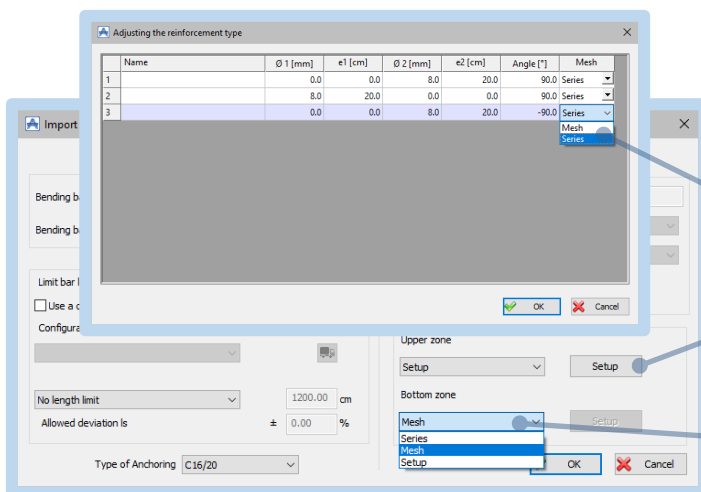


54 DIRECT ORBIT IN DIALOGUES



A new way of 3D rotation (orbit) of bar geometry in dialogues has been introduced. It starts directly, by pressing the left mouse button and dragging on the image. Dragging on the outer zone rotates the image in the plane of view, and dragging on the inner zone rotates the image perpendicular to the plane of view. Right-clicking on the menu image in the lower right corner opens the menu for setting the default view.

55 IMPROVEMENT OF IMPORT OF REINFORCEMENT FROM TOWER



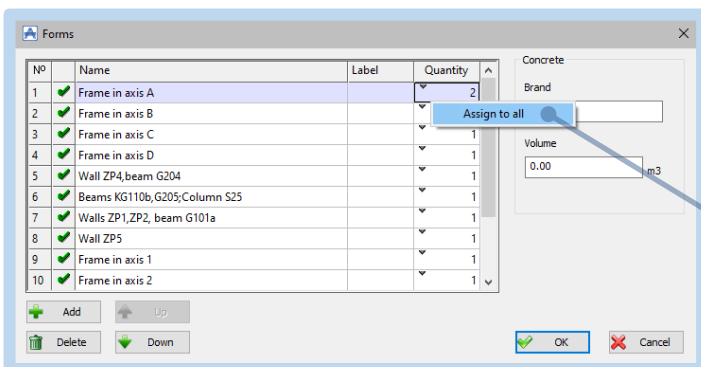
It is possible that when importing the area reinforcement from the Tower, the type of reinforcement (mesh or series of bars) can be manually overridden and set.

Selection from this list defines reinforcement type for this set.

This button opens a dialog to adjust the reinforcement type.

A list for choosing reinforcement type by slab zones.

56 MASS SETTING OF QUANTITY / NUMBER OF REPETITION OF FORMS

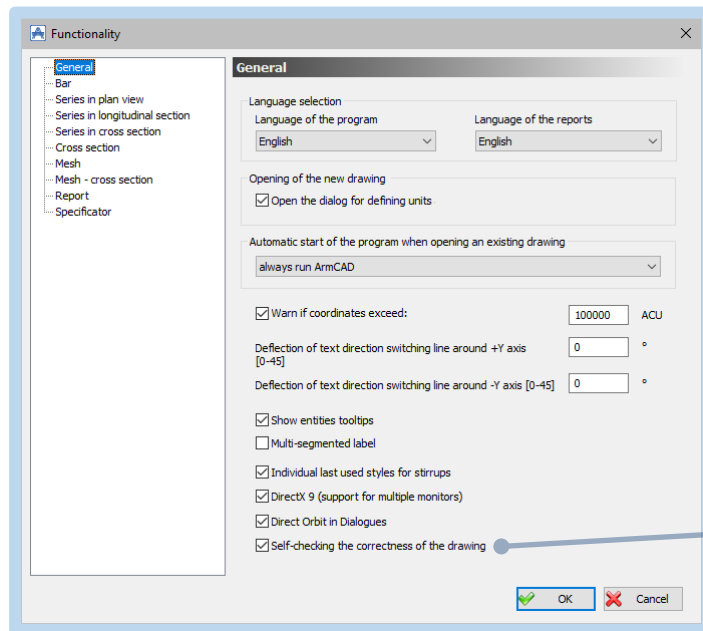


In the dialog of the forms position, the option has been added that the quantity of forms can be assigned to all other forms via the menu.

Right-click over a cell with the form quantity opens the menu.



57 ACCELERATION WHEN OPENING DRAWINGS



Added a new option in Functionality that allows you to turn off self-checking the correctness of the drawing when opening. This function also corrected any errors in the database. In cases when the drawing is large and has many entities in certain positions, the check can take several minutes, so turning off this check significantly speeds up the opening of the drawing.

New option that allows you to turn off self-checking the correctness of the drawing when opening.

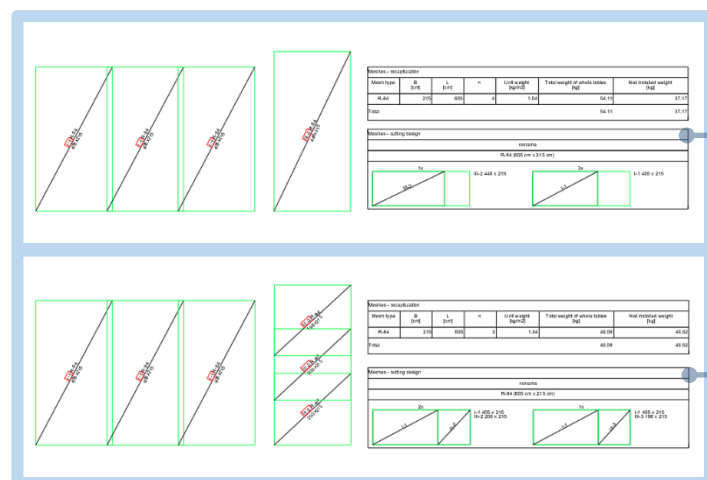
COMING SOON (2) NEW COMMAND – FORMS BROWSER

This command functions as a non-modal dialog (floating, always present) and allows you to view the info about the current form, change the form's visibility, generate a specification report in one go and set the current form by selecting a specific entity from the drawing.



58 A NEW TYPE OF MESH CUTTING PLAN OPTIMIZATION

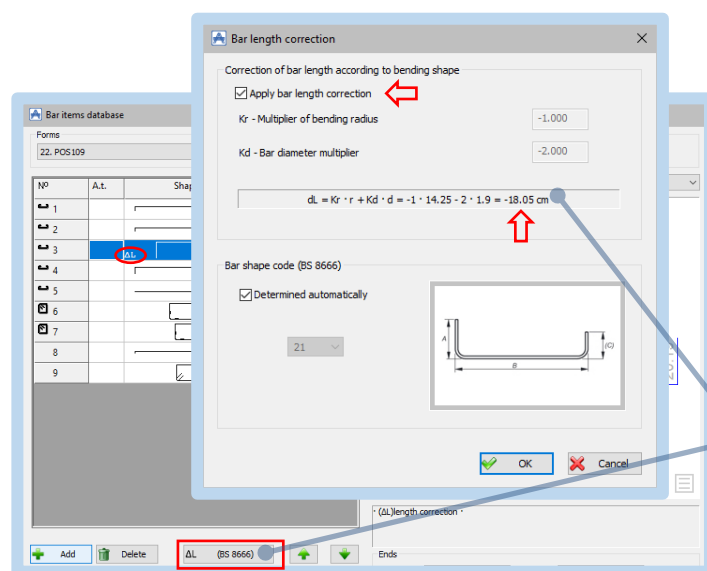
Another level of optimization of the mesh cutting plan is enabled, which is based on the use of the remaining cut parts of the meshes within the same form. The order in which the meshes are installed is determined by the ordinal numbers of the mesh positions, and the program may be instructed to search for the most optimal order and change the numbering if a more optimal solution exists.



Mesh cutting plan without using optimization. 4 whole mesh tables are needed, and the percentage of waste (purchased but not installed reinforcement) is 31.31%.

Mesh cutting plan using optimization. 3 whole tables of meshes are needed, and the percentage of waste (purchased but not installed reinforcement) is 0.15%.

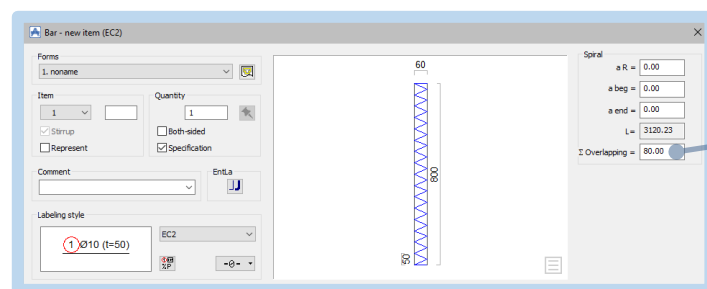
59 BENT BAR LENGTH CORRECTION



It is enabled to calculate the "correction" of the bar length based on the shaping and bending of the bar. The length correction calculation function is defined with a bar diameter multiplier and a bending radius multiplier. The default values for the characteristic shapes given in the British Standard are entered, but multipliers can also be entered manually.

Bar length correction.

60 SPIRAL BAR WITH INCLUDED OVERLAP DUE TO CONTINUATION



The value "total overlap length" was introduced into the spiral bar, which refers to the additional length of the spiral that originates from the internal continuation of the spiral.

61 ADDITIONAL OPTIMIZATION OF THE BAR CUTTING PLAN

The overall algorithm for optimizing the bar cutting plan has been improved by adding another procedure that is performed together with all existing procedures and from which the best result is selected.



ABOUT RADIMPEX

Radimpex Software is a company that has been exclusively developing professional software for civil engineering since 1989. Our programs TOWER, ARMCAD, METAL STUDIO and NORMABASE are constantly improved by a team of experienced experts, both by following modern trends and finding original and unique solutions.

The main features and priorities that determine us are the care of users, which is reflected in the traditionally close cooperation, quality technical support and willingness to adapt programs to new requirements. Thanks to that, we have always created state-of-the-art software that is easy to use, quick to work with and quick to reach the goal.

Quality cooperation with users as well as the knowledge and experience of top experts have contributed to our software having a wide range of uses and being adaptable to different uses and special requirements of each project. Our programs are made by engineers for engineers, so their main features are efficiency and optimality.

In the rich reference list of our users, there are faculties of Civil Engineering, scientific research institutes and a large number of design companies and bureaus that have used our programs to design and build many large and important facilities around the world.

February 2022.