RebarCAD
Getting Started

CADS
GLOBAL CONSTRUCTION
SOFTWARE AND SERVICES

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Contents

Introduction

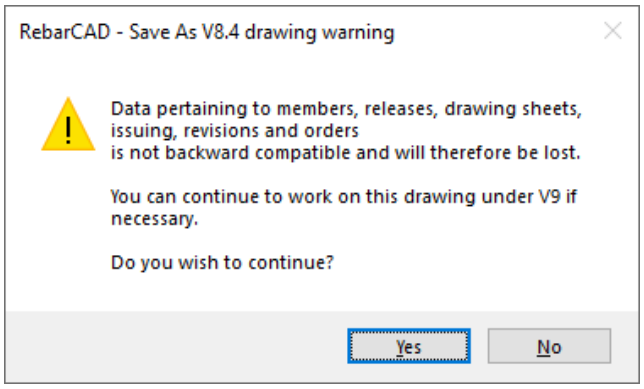
This guide aims to help users to familiarize themselves with some of the new functionality in RebarCAD. It attempts to highlight significant new aspects of this product that may not be immediately apparent on running the software. The guide communicates the location of new commands and explains their purpose. Reading this guide will equip you with the knowledge needed to explore the new features in more detail.

Compatibility

This section confirms some details about drawing compatibility.

You can open drawings produced under any previous version of RebarCAD.

RebarCAD includes a **Save As V8.4 Drawing** command that allows you to save a drawing to be compatible with any RebarCAD V8.4 based release. On running this command the following confirmation message will appear:



Saving back to v8.4 comes with the loss of some specific data as listed in the dialog.

You can not open RebarCAD drawings directly in an older version of RebarCAD unless you have previously used this **Save As V8.4 Drawing** command.

Key Points

- You can open any existing RebarCAD drawing under RebarCAD
- You can save a drawing produced using RebarCAD to be compatible with RebarCAD v8.4 by using the **Save As V8.4 Drawing** command. Some specific data will be lost as part of this process.
- You can not open RebarCAD drawings under an older version of RebarCAD unless you have used the **Save As V8.4 Drawing** command

Commands

Action	Menu	Toolbar
Save drawing compatible with V8.4	RebarCAD > Utilities > Save As V8.4 Drawing	None

Drawing Sheets

This section explains the new concept of drawing sheets, introduced in v9.0.

Drawing sheets allow you to produce several drawings together with their associated bar lists from within a single AutoCAD DWG file. Whole structures can be detailed in one AutoCAD DWG file and split between several drawing sheets. Each drawing sheet and associated bar list can be issued and tracked independently.

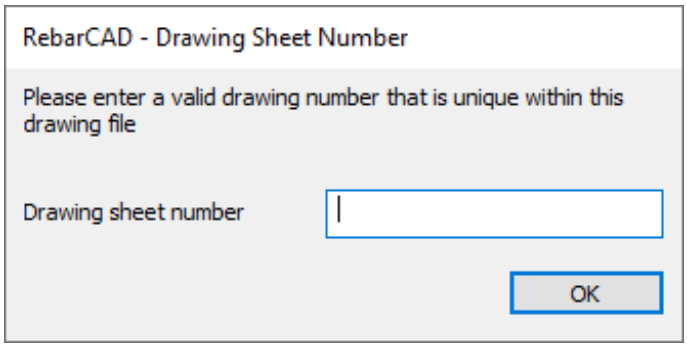
A drawing sheet can either be an AutoCAD layout or a specific area of model space. Reinforcement can be assigned to specific drawing sheets as you detail or at a later time.

You can only produce a formatted report (e.g. combine bars) when you have created at least one drawing sheet.

Creating drawing sheets

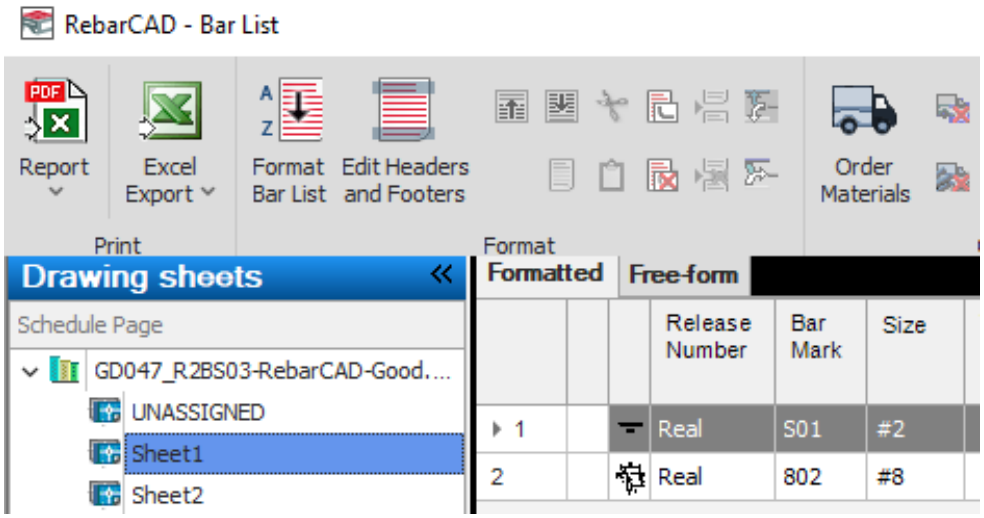
There are a number of ways to create a drawing sheet. Users of CADS-VPM and CADS Scale can configure drawing sheets to be created automatically as part of the process of setting up a drawing. Other users can also ensure drawing sheets are created as part of their own drawing setup procedure. Instructions on configuring your own title blocks to both trigger drawing sheet creation and to map to the bar list headers and footers can be found later in this chapter.

The creation of drawing sheets is triggered by the insertion of a title block that contains an attributed tag that describes the drawing number. If a value is entered for this attribute then a corresponding drawing sheet will be created inside RebarCAD. If no value is specified for this attribute then RebarCAD will present the following dialog to ask for the drawing sheet number.



The drawing sheet number can be changed by editing the associated drawing number attribute with the title block. Drawing sheets can be deleted by erasing the corresponding title block. So essentially, you can think of a drawing sheet as an instance of a title block within the drawing. If you decide not to insert a title block then bars will be assigned to an UNASSIGNED drawing sheet. You can assign them to a valid drawing sheet later by using the **Assign Bar to Drawing Sheet** command, as described later.

The drawing sheets are listed in the bar list as follows;



If you select one of these drawing sheets then the only bars that belong to that specific drawing sheet will be shown in the formatted and free-form view.

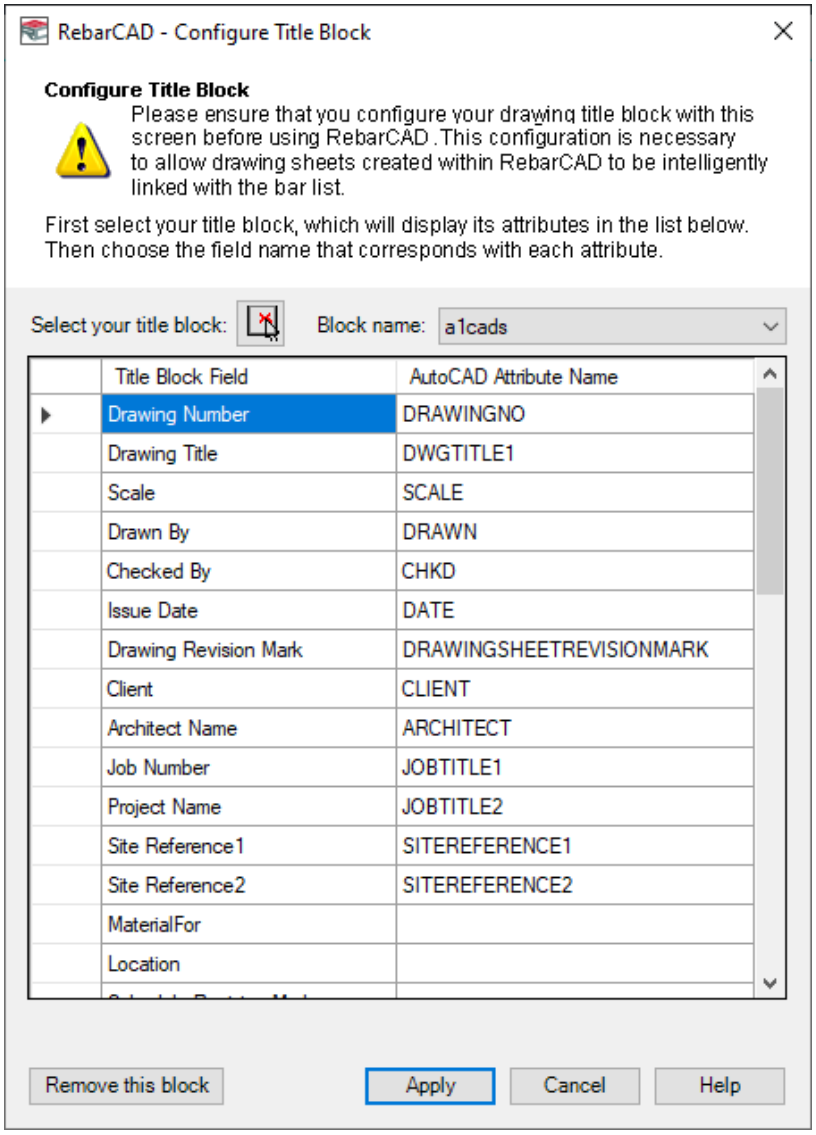
Configuring your title blocks

You can configure your own title blocks to work with RebarCAD by selecting the **Configure Title Block** command. This feature will be shown when you first run RebarCAD following installation and when the program detects that a title block may have been inserted.

This **Configure Title Block** feature allows you to select your own title block and then map its attributes to RebarCAD's data fields. In order to create drawing sheets and therefore formatted reports you will need to ensure that the drawing number field is mapped to an appropriate attribute within your title block. Mapping the remaining RebarCAD data fields to title block attributes will result in the bar list headers and footers being automatically populated from the title block.

If your title block has no attributes then the **Configure Title Block** command will offer you the chance to automatically add a single attribute to represent the drawing number.

The Configure Title Block dialog is shown below:

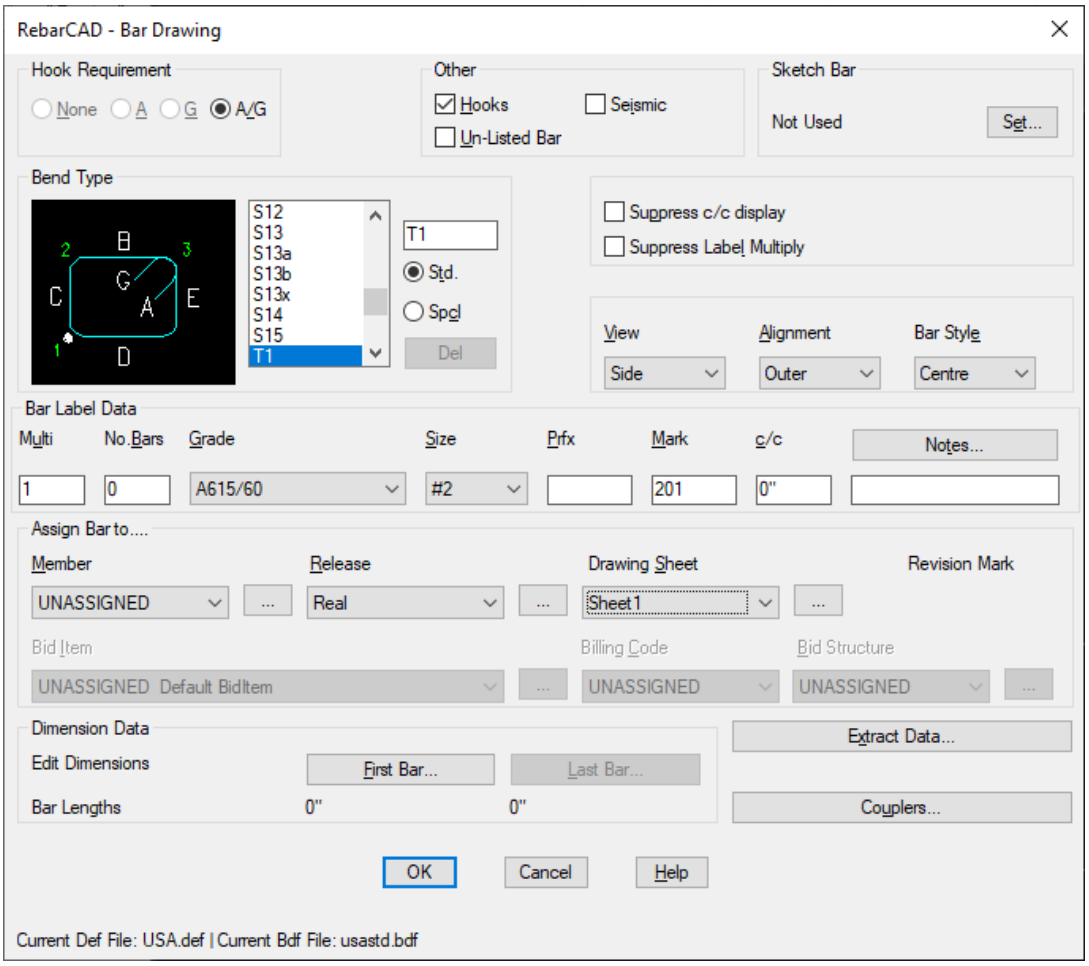


Please consult the **RebarCAD Customization & Configuration Guide** for more information on saving the title block settings for future drawing sessions.

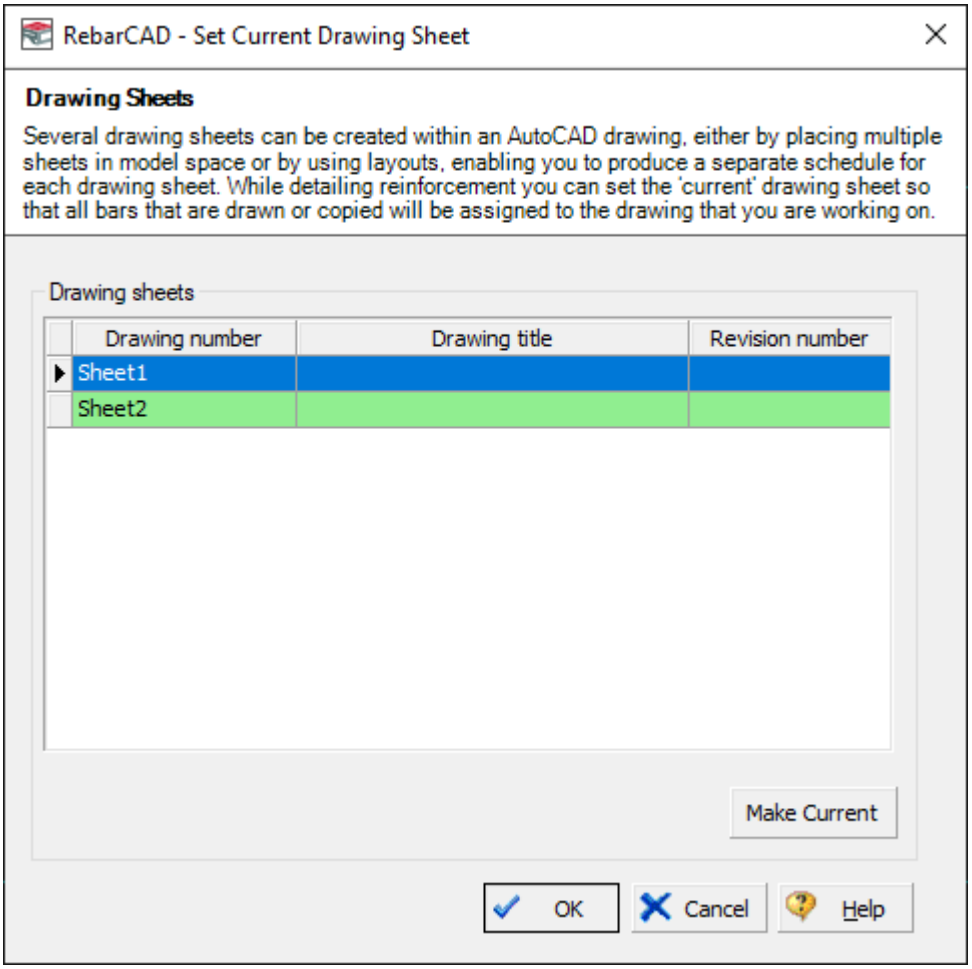
You can configure RebarCAD to work with any number of title blocks regardless of whether they use consistent attribute naming. You can use the same method to migrate any title blocks that are imbedded in an AutoCAD DWT file.

Assigning bars to drawing sheets

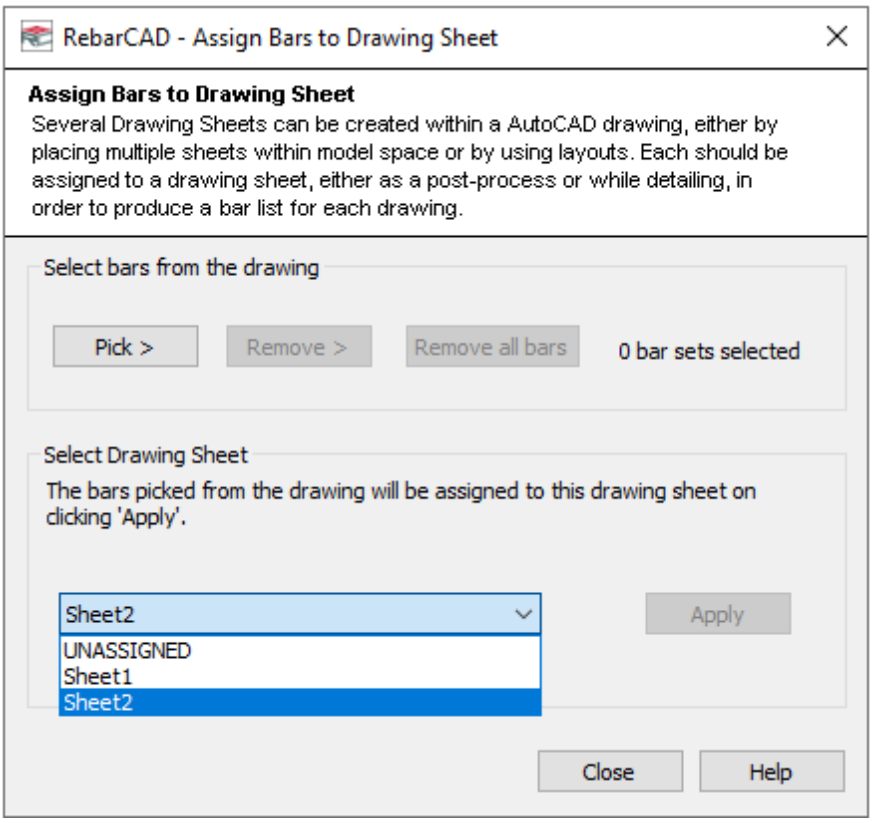
When you attempt to draw a bar then you will see that a new field that controls the drawing sheet assignment of the bar is present on the Bar Drawing dialogue. As shown below.



The program will default to the last drawing sheet created. You can change this default setting by using the **Set Current Drawing Sheet** command, as shown below:



You can use the standard RebarCAD bar/label editing commands to change a bar's drawing sheet assignment or alternatively use the new **Assign Bar to Drawing Sheet** command that's available from the RebarCAD->Editing menu. This command allows for the rapid assignment of multiple bars, as shown below:



The following tutorials help explain some of the basic operations related to drawing sheets.

Try it: **Create a drawing sheet using CADS-VPM**

1 Launch RebarCAD

2 Click CADS-VPM->**Create Layout** command

3 Accept the default layout name and sheet. Click create

4 Immediately click OK on the Edit Attribute dialog

5 Specify a drawing sheet number of “Sheet 1” in the RebarCAD Drawing Sheet Number dialog <Note: this dialog will not appear if you specify a value for Drawing Number, in the edit attributes dialog>

6 Click RebarCAD->**View Bar List** command

7 You should see that a drawing sheet called “Sheet1” has been created. If you now attempt to draw a bar using RebarCAD->Draw Bar->New Mark then you will see that this now defaults to this new drawing sheet. If you draw a bar then this bar will be assigned to this new drawing sheet

Try it: **Create a paper space drawing sheet using CADS Scale**

1 Launch RebarCAD

2 Click CADS Scale->**Drawing Setup** command

3 Ensure “Apply setup to” is set to “Layout1”. Select “Standard A0 setup”. Click OK

4 Click Modify on the “Page Setup Manage” dialog and select A0 paper size. Click close

5 Select a scale of 1:50 in the “Setup Scale” dialog. Click OK

6 Immediately click OK on the Edit Attribute dialog

7 Specify a drawing sheet number of “Sheet 1” in the RebarCAD Drawing Sheet Number dialog. <Note: this dialog will not appear if you specify a value for Drawing Number, in the edit attributes dialog >

8 Click RebarCAD->**View Bar list** command

9 You should see that a drawing sheet called “Sheet1” has been created. If you now attempt to draw a bar using RebarCAD->Draw Bar->New Mark then you will see that this now defaults to this new drawing sheet. If you draw a bar then this bar will be assigned to the drawing sheet titled “Sheet 1”

Try it: **Create a model space drawing sheet using CADS Scale**

1 Launch RebarCAD

2 Click CADS Scale->**Drawing Setup** command

3 Ensure “Apply setup to” is set to “Model”. Select “Standard A0 setup”. Click OK

4 Select a scale of 1:50 in the “Setup Scale” dialog. Click OK

5 Immediately click OK on the Edit Attribute dialog

6 Specify a drawing sheet number of “Sheet 1” in the RebarCAD Drawing Sheet Number dialog. <Note: this dialog will not appear if you specify a value for Drawing Number, in the edit attributes dialog >

7 Click RebarCAD->**View Bar list** command

8 You should see that a drawing sheet called “Sheet1” has been created. If you now attempt to draw a bar using RebarCAD->Draw Bar->New Mark then you will see that this now defaults to this new drawing sheet. If you draw a bar then this bar will be assigned to the drawing sheet titled “Sheet 1”

Try it: **Create a paper space drawing sheet using AutoCAD**

1 Launch RebarCAD

2 Make “Layout1” active by selecting the tab

3 Right click on the Layout1 and select “Page Setup Manager…”, Select Modify, Select a A0 paper size, Click Ok and Close.

4 Select Insert->Block or type “Insert”

5 Browse to the “\cads\AutoCAD XXXX\CADS Viewport Manager\blocks folder” and select A0CADS.dwg. Click Ok and place the title block

6 Double click on the title block

7 Specify a drawing sheet number of “Sheet 1” in the RebarCAD Drawing Sheet Number dialog

8 Click Ok on the attribute edit dialog

9 Click RebarCAD->**View Bar list**  command

10 You should see that a drawing sheet called “Sheet1” has been created. If you now attempt to draw a bar using RebarCAD->Draw Bar->New Mark then you will see that this now defaults to this new drawing sheet. If you draw a bar then this bar will be assigned to the drawing sheet titled “Sheet 1”

Try it: **Configuring your title block to work with RebarCAD**

1 Launch RebarCAD

2 Insert an instance of your title block using AutoCAD

3 Click RebarCAD->Configuration-**>Configure Title Block** command

4 Use the pick button to select your title block

5 Specify which attributes relate to which RebarCAD data fields. Ensure you map an attribute to the first drawing number field

6 Click Apply

7 You will now be prompted to specify the drawing sheet number for the previously inserted title block. All subsequent inserts of this title block will result in the creation of a RebarCAD drawing sheet. You can confirm drawing sheet creation by viewing the bar list

Key Points

- Drawing sheets are created when valid title blocks are inserted
- You can configure your title blocks to work with RebarCAD by using the **Configure Title Block** command.
- You can use the **Configure Title Block** command to automatically add a drawing number attribute to title blocks that have no attributes
- Drawing sheets can be edited or deleted via the associated title block

- You can only produce a formatted view (i.e. combined bars) when you have at least one drawing sheet
- You can set the default drawing sheet by using the **Set Current Drawing Sheet** command
- You can assign bars to a drawing sheet as you draw them or at a later time
- Use the new **Assign bars to Drawing Sheet** command when doing multiple assignments
- The program may sometimes mistakenly guess that an inserted block is a title block and show the Configure Title Block dialog. In these inappropriate situation simply select the cancel button

Commands

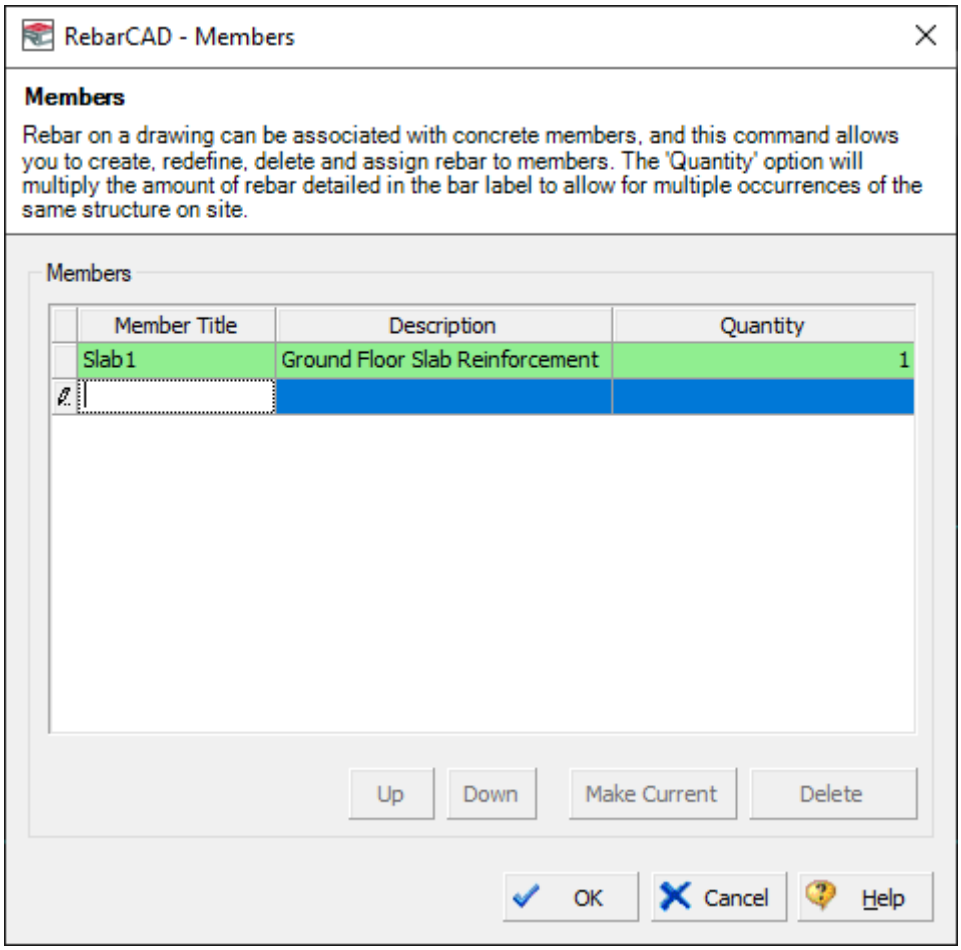
Action	Menu	Toolbar
Create layout	CADS-VPM > Create Layout	CADS-VPM
Drawing setup	CADS Scale > Drawing Setup…	CADS-Scale
View bar list	RebarCAD > View Bar list…	RebarCAD
Assign bars to drawing sheet	RebarCAD > Editing > Assign bars to Drawing Sheet...	Editing
Set Current drawing sheet	RebarCAD > Draw Bar > Set Current Drawing Sheet…	Draw Bar
Configure title block	RebarCAD > Configuration > Configure Title Block	Configuration

Members

The new concept of members has been introduced in v9. Members can be used as a way of grouping and categorizing bars.

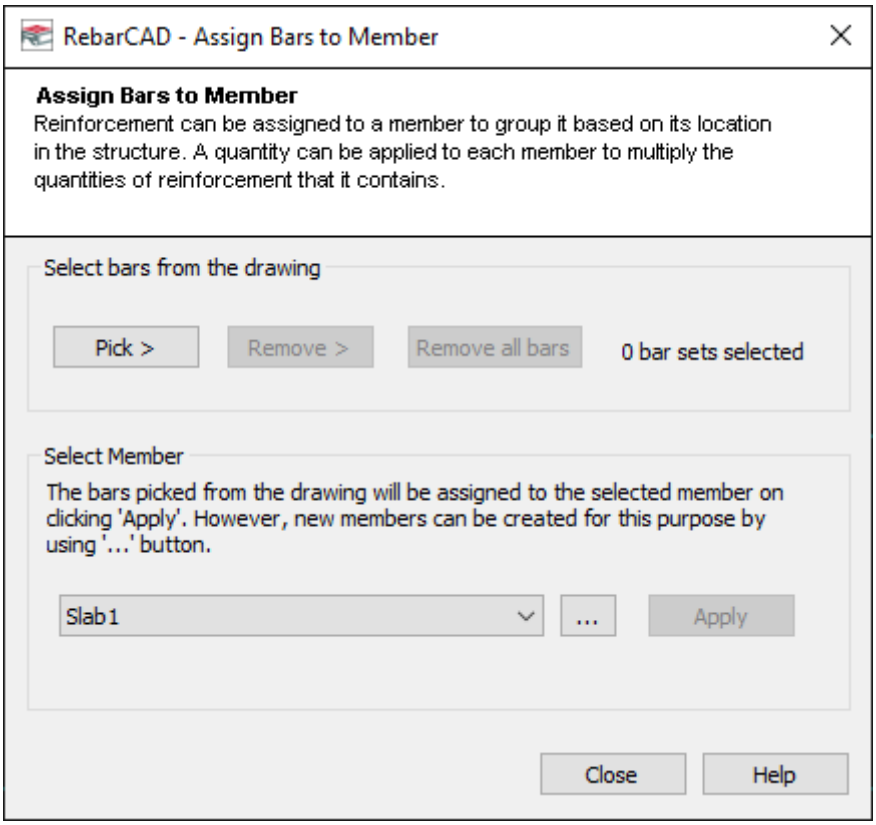
The Release quantity is no longer present in RebarCAD. If you wish to produce a duplicate of a specific detail without detailing it then you will need to use the Member quantity option. You can very easily use Members to build up Releases. This will be described in the Releases section of this guide.

The new **Members** dialog is shown below.



To make the draw bar dialog default to a specific member you can simply highlight the required member within the list and click the “Make Current” button.

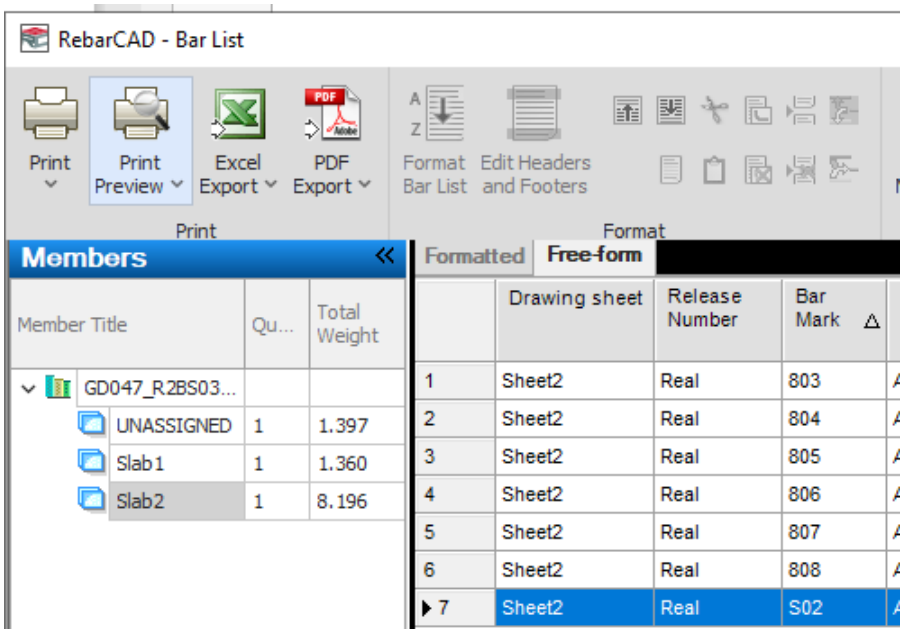
You can assign existing bars to a member by using the **Assign Bars to Member** command, as shown below.



Use the selection buttons to build up a list of bars to be assigned to a member, select the required member from the list, then click apply.

The bars are assigned to the member on selecting apply and the number of selected bars is reset to 0 which allows you to make additional assignments. You can select the "…" button to access the Members dialog in order to create new members.

You can see a list of members together with their weight information from inside the bar list by selecting the Members Mode, as shown below. A fuller description of this can be found in the section titled “Navigating the Bar list”



Key Points

- Members quantity options in v9 has replaced the Releases quantity option in v8
- You can use Members to quickly build up Releases
- To make the bar draw dialog default to a specific member set it as current
- Use the **Assign Bars to Members** command to assign existing bars to a member
- You can view information about members from inside the bar list

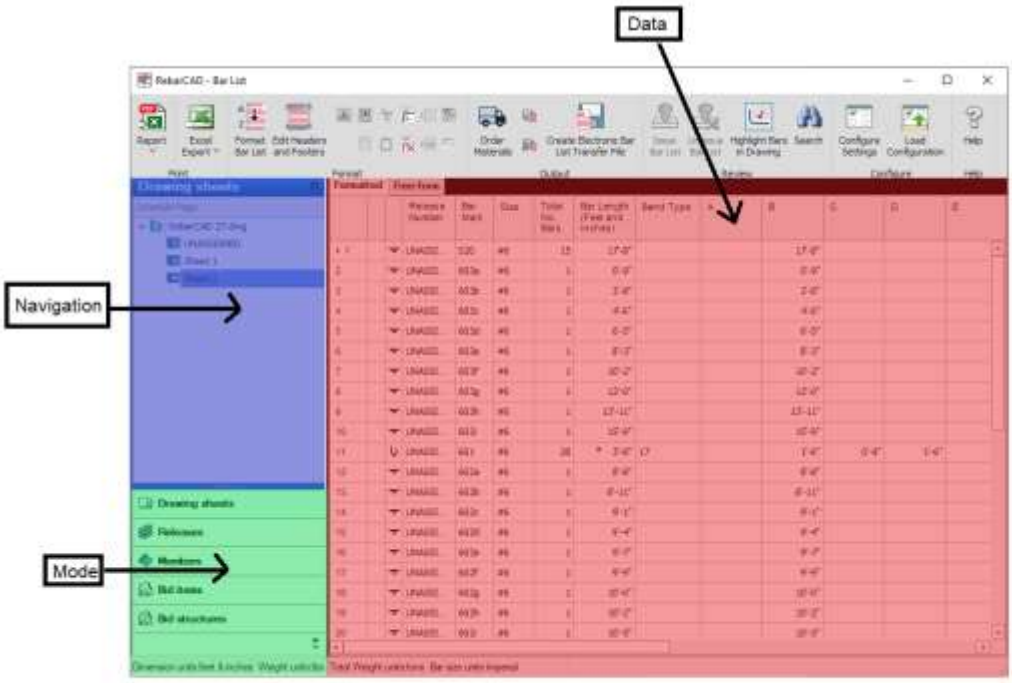
Commands

Action	Menu	Toolbar
Define Members	RebarCAD > Draw Bar > Set Members	Draw Bar
Assign bars to member	RebarCAD > Editing > Assign Bars to Members	Editing
View bar list	RebarCAD > View Bar list…	RebarCAD

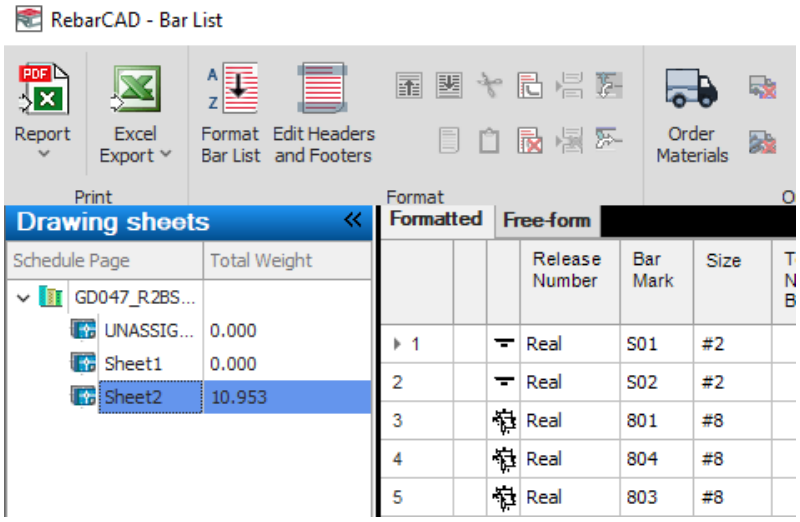
Navigating around the Bar list

The bar list dialog and ordering related functionality has been completely redesigned to offer improved usability, clarity and configurability. This section explains how to navigate around the new bar list dialog.
There are three main areas to the bar list dialog as shown below.

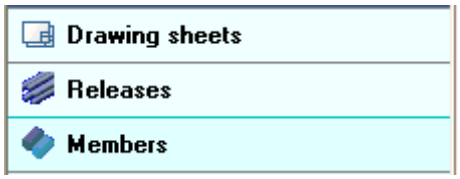
- The Navigation area: This area contains a tree view of either the drawing sheets, members or releases.
- The Data area: This displays the bar bending data depending on the selection chosen in the navigation area. This area has two tabs, formatted and free-form. These tabs will be described later.
- The Mode area: This area contains three buttons that alters whether the navigation area, and therefore the data area, displays data pertaining to drawing sheets, members or releases.

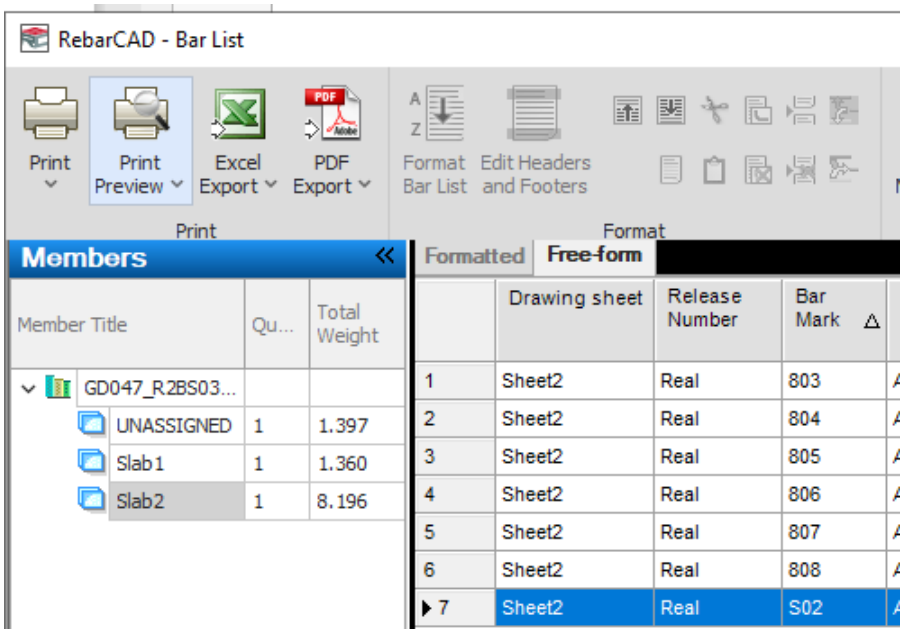


By default, the Navigation area will show a list of all the currently created drawing sheets. Selecting a drawing sheet will filter the Data area to show just bars that are assigned to that drawing sheet.



Selecting the Members button from the Mode Area, as shown below, will toggle the Navigation area to show information about members. Selecting a member will filter the Data area to show just bars belonging to the selected member.





Selecting the Release button from the Mode Area will toggle the Navigation area to show information about releases. Further information on releases can be found later in this guide.

Formatted versus Free-form

For a given drawing sheet you can choose to view the bar bending data in the Data area in either a formatted or free-form style. You can toggle between these styles by selecting the corresponding tab above the Data area, as shown below.

When the Mode area is set to Member or Release you will notice that the formatted tab is unavailable, this is because you can only view formatted data from the drawing sheet mode.

The **formatted** style will display the bar bending data as it will appear on the printed (or bar list on drawing) report. In the formatted mode you can sort, combine and segregate the bars bending data, as well as attach diagrams. You can manually insert text lines, page breaks and even move lines about to produce the required formatted bar list.

The **free-form** style will display the raw unformatted bar bending data so you can produce reports beyond the constraints of any company or industry standard. You can filter, group and order the bar bending data as required. A full description of this feature can be found in the section titled “Free Form Reports”.

Try it: **Navigating around the bar list**

1. Launch RebarCAD
2. Create three drawing sheets called “Sheet 1”, “Sheet 2” & “Sheet 3”
3. Create three members called “Member 1”, “Member 2” & “Member 3”
4. Draw numerous bars and assign them to the various drawing sheets and members
5. Click **View Bar list** command
6. By default the formatted view of the first drawing sheet (“Sheet 1”) should be displayed
7. Select each drawing sheet in turn to filter the Data view to show just bars belonging to that drawing sheet
8. Select the Member button from the Mode Area to change the mode of the Navigation area. The Navigation area should now show the list of members
9. Select each member in turn to filter the Data view to show just bars belonging to that drawing sheet
10. Select the Drawing Sheet button from the Mode Area to change the mode of the Navigation area. The Navigation areas should now show the list of drawing sheets
11. Select the formatted tab to toggle the style of the Data area

Key Points

- The Navigation area can be toggled to show drawing sheets, members or releases by using mode selector
- You can only view a formatted view from the drawing sheet mode
- The Data area is filtered depending on the selected drawing sheet, member or release
- The free-form style can be used to produce quick queries and reports

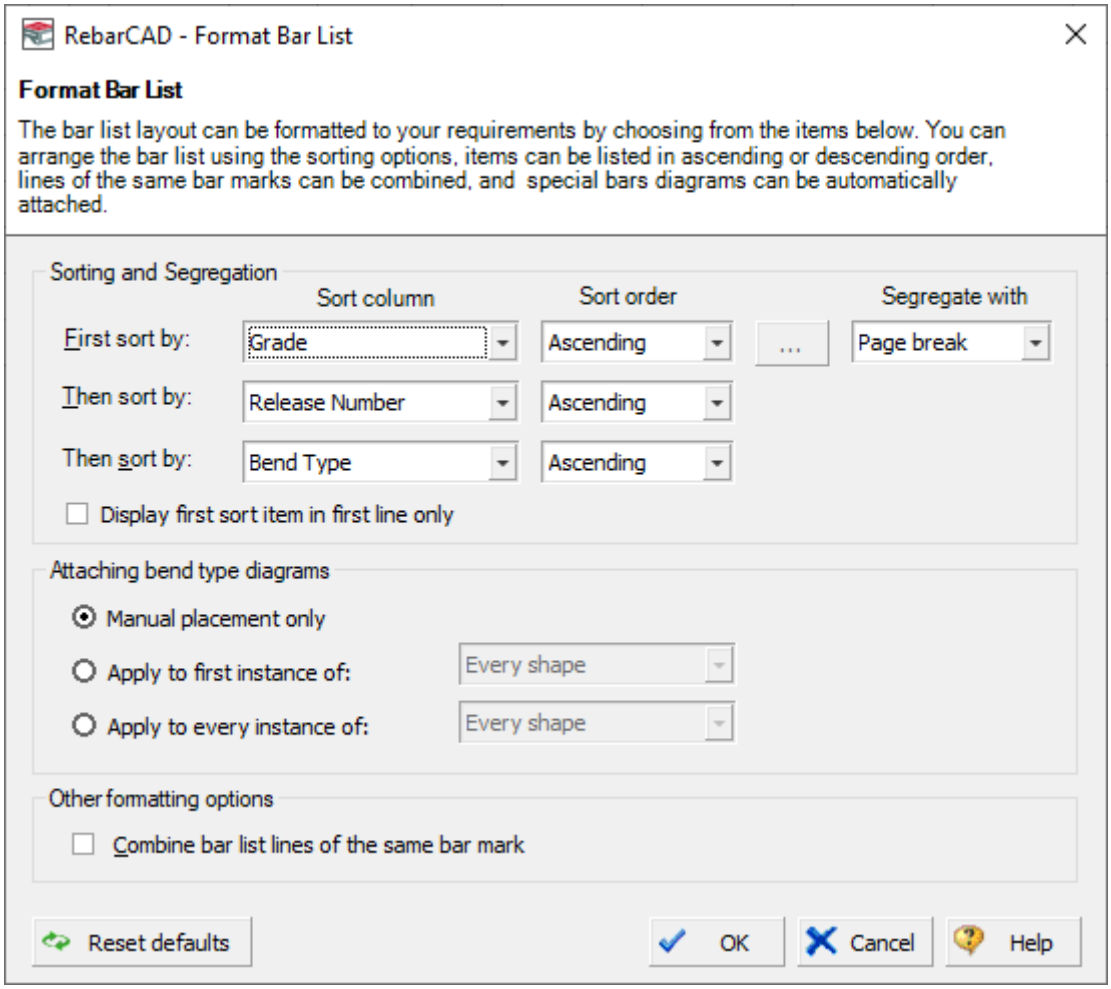
Commands

Action	Menu	Toolbar
View bar list 	RebarCAD > View Bar list…	RebarCAD

Formatting the Bar list

It is now much easier to format the bar list to achieve your required layout. The following **Format Bar list** dialog is available from the Bar list->Edit menu.

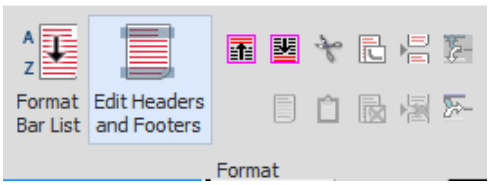
The **Format Bar list** command is only available for the formatted view which is in-turn only available when working with drawing sheets.



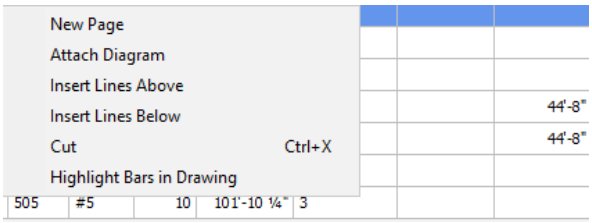
You can apply three levels of sorting, the first having an additional segregated option. Additionally you can specify whether you'd like diagrams attached. The entire bar list can also be combined.

The "Reset defaults" button can be used to restore the default settings from the currently configured bar list configuration file.

You are also free to manipulate the bar list manually using a range of commands.



Or by directly selecting a line within the bar list and using a right mouse click to show available options.



The Bar List on Drawing by default will produce a simple unformatted report. i.e. any manual formatting will not be reflected. You can configure the Bar List on Drawing to shown all manual formatting as follows: RebarCAD->View Bar List->Settings->Configure->Bar List tab->Change **Bar List Table on Drawing Template** from **Bent Bar List by Release** to **Bar List with Header**.

By default the bar list will be automatically combined on events such as placing a bar list on drawing. You can configure the bar list to combined either always, only during specific actions, or wholly via the manual commands. More details on these configuration options can be found in the **RebarCAD Customization & Configuration Guide**

Key Points

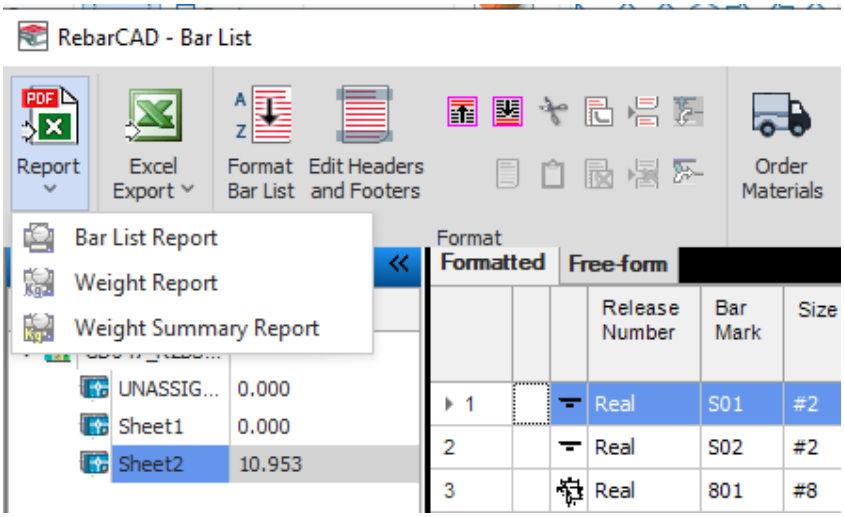
- The formatting options can only be applied to the formatted view and not to the free-form view. So you will need to have at least one drawing sheet created
- Select a bar in the bar list and use a right mouse click to find available options
- Some manual manipulation of the bar list may result in a confliction with the automatic formatting options. This will result in the automatic formatting options being reset
- You can configure exactly when the program should combine bars

Commands

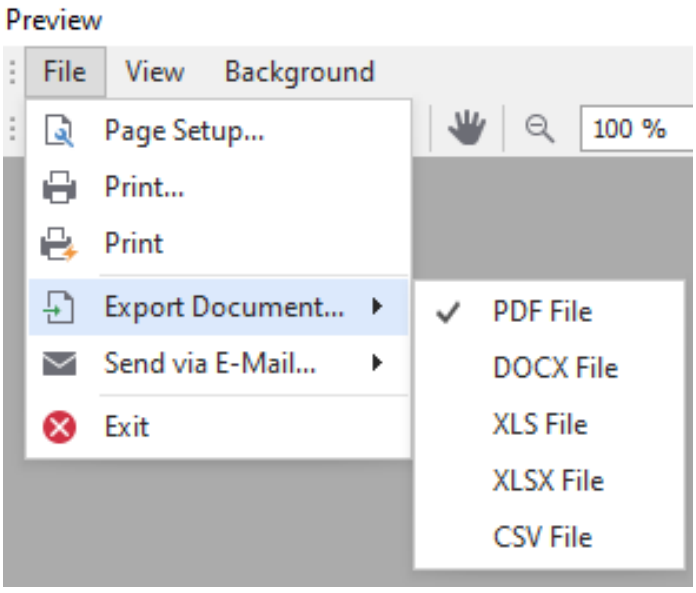
Action	Menu	Toolbar
View bar list 	RebarCAD > View Bar list…	RebarCAD

Printing Bar lists & Reports

A formatted view of the bar list can be printed using the typical **Print** and **Print Preview** options from the Bar list->File menu. You will first need to ensure that the correct drawing sheet is selected from the Navigation area and that the bar list has been formatted as required.



The **Print Preview** option offers some additional export options. To access these select either the “Export/Save To” options from the File menu or the following toolbar icons.



The style of the printed reports is controlled by the report templates which can be configured from the **Configure Settings** command from the Bar list->Settings command. A detailed description of how to customize your reports can be found in the **RebarCAD Customization & Configuration Guide**.

Alternatively you can place a bar list on the drawing. This can be done from AutoCAD by selecting the **Place Bar list on Drawing** command from the RebarCAD->Place Bar list menu.

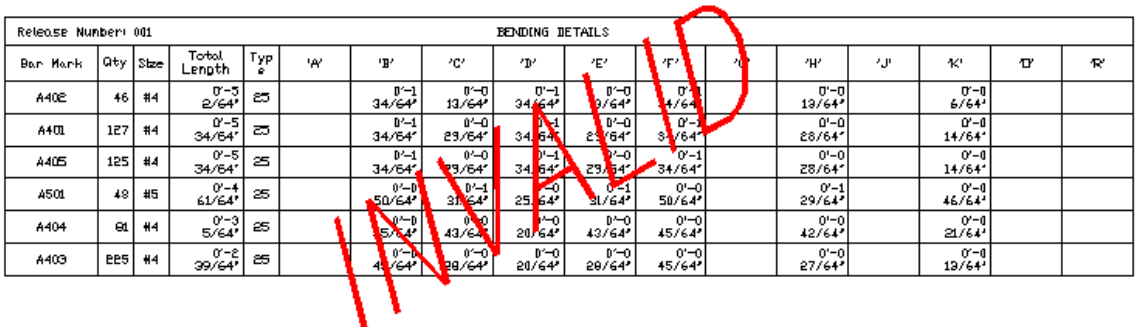
The product is configured to place a Bar List on Drawing by Release. So on selecting this command you will be asked to select the required release.

You can configure the product to place a Bar List on Drawing by Drawing Sheet as follows:
RebarCAD->View Bar List->Settings->Configure->Bar List tab.

- Change the **Display Bar List by** option from **Release** to **Drawing Sheet**
- Change the **Bar List Table on Drawing Template** option from **Bent Bar List by Release** to **Bar List by Drawing Sheet**

On placing a Bar List on Drawing you will be asked to specify the height of the bar list. This option allows you to split the Bar List on Drawing to fit around details.

If changes are made to bars following the placement of the bar list on drawing then an “INVALID” message will appear over the bar list on drawing, as shown below:



This is to signify that the bar list is now out-of-date. The bar list on drawing can be updated at any time by selecting the **Refresh Bar list on Drawing** command.

Try it: **Printing a bar list**

1. Launch RebarCAD
2. Create a drawing sheet using one of the methods described in the Drawing Sheet section above
3. Draw some bars on this new drawing sheet
4. Click **View Bar list** command
5. Click **Print Preview** from the File menu

Try it: **Place and updating a bar list on drawing**

1. Launch RebarCAD

2 Create a drawing sheet using one of the methods described in the Drawing Sheet section above

3 Draw some bars on this new drawing sheet

4 Click **Place Bar list on Drawing** command

5 Tick the drawing sheet and click Ok

6 Place the bar list on drawing

7 Edit the bar size of one of the bars

8 The bar list on drawing should now show be shown as “INVALID”

9 Click **Refresh Bar list on Drawing** command

10 The bar list on drawing should now be up-to-date

Key Points

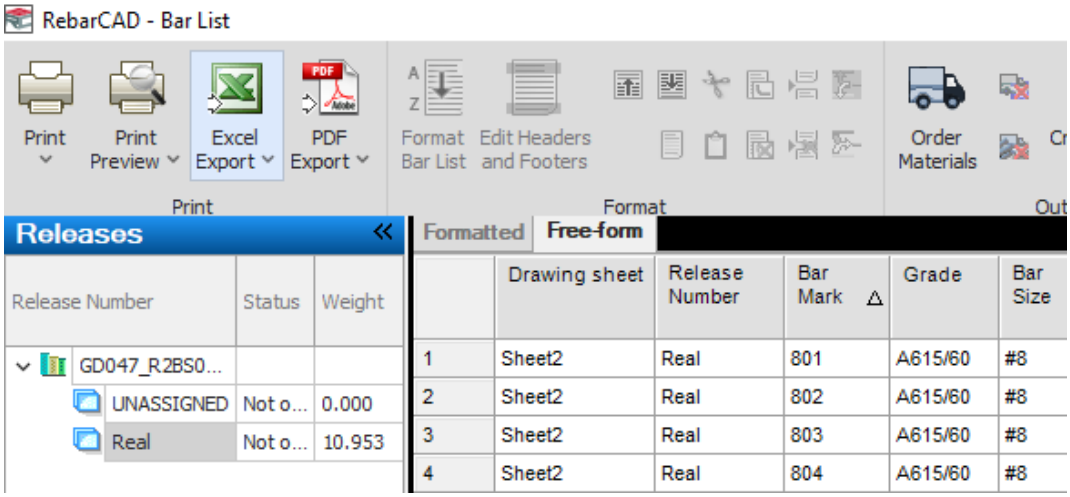
- Ensure you have the correct drawing sheet selected before doing a print
- You can configure the bar list on drawing to be by Release or by Drawing Sheet
- The preview dialog includes some additional export options. (e.g. PDF, Excel)
- The bar list on drawing will display an “INVALID” message if subsequent edits are made to the bars being shown. The bar list can be refreshed by using the **Refresh Bar list on Drawing** command.

Commands

Action	Menu	Toolbar
View bar list	RebarCAD > View Bar list…	RebarCAD
Place bar list on drawing	Place Bar list > Place Bar list on Drawing	Place Bar list
Refresh bar list on drawing	Place Bar list > Refresh Bar list on Drawing	Place Bar list

Free-form Reports

A custom report can be produced from the bar bending data using the free-form view. To access this open the bar list and select the free-form tab as shown below:

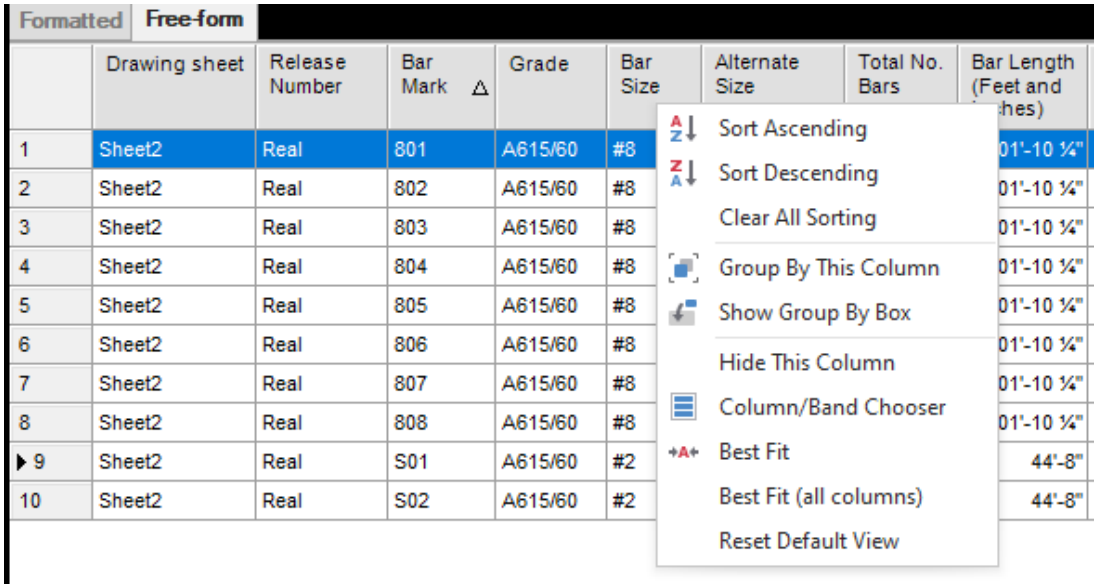


The bar bending data will initially be displayed in the order in which the bars were created. You can change the order of the bar bending data by selecting the required column header. The order can be changed from ascending to descending by repeatedly clicking on the column header.

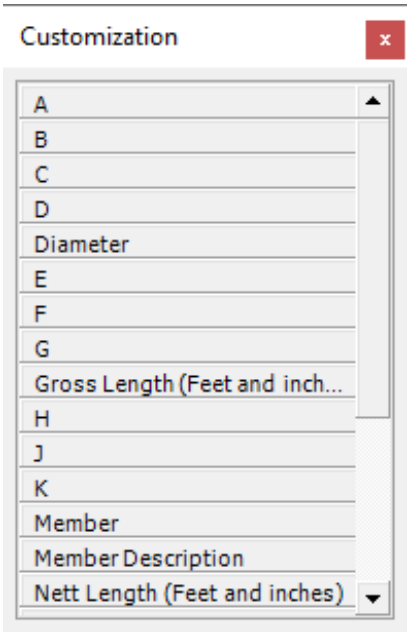
Formatted | Free-form

	Drawing sheet	Release Number	Bar Mark △	Grade	Bar Size	Alternate Size	Total No. Bars
1	Sheet2	Real	801	A615/60	#8	25	10
2	Sheet2	Real	802	A615/60	#8	25	10
3	Sheet2	Real	803	A615/60	#8	25	10
4	Sheet2	Real	804	A615/60	#8	25	10
5	Sheet2	Real	805	A615/60	#8	25	10
6	Sheet2	Real	806	A615/60	#8	25	10
7	Sheet2	Real	807	A615/60	#8	25	10
8	Sheet2	Real	808	A615/60	#8	25	10

You can group bars with the same property by right clicking on the column header and selecting the **Group by This Column** option, as shown below. You can group several columns if required. These can be ungrouped by selecting the **Ungroup** option.



You can add/remove columns by right clicking on a column header and selecting the **Column Chooser** option. This will display a list of available columns. These can be dragged to the column header area as required. You can also drag unwanted headers from the column header area into this dialog.



Once you have the required report you can select the **Print** or **Print Preview** command from the Bar list->File menu.

The example report below shows a report of just the type A615/40, size #5 bars.

Formatted | Free-form

	Drawing sheet	Release Number	Bar Mark	Grade	Bar Size	Alternate Size	Total No. Bars
	Weight per Bar (lbs): 106.23 'Total Weight : 4.249'						
1	Sheet2	Real	508	A615/40	#5	16	10
2	Sheet2	Real	507	A615/40	#5	16	10
3	Sheet2	Real	506	A615/40	#5	16	10
4	Sheet2	Real	505	A615/40	#5	16	10
5	Sheet2	Real	504	A615/40	#5	16	10
6	Sheet2	Real	503	A615/40	#5	16	10
7	Sheet2	Real	502	A615/40	#5	16	10
8	Sheet2	Real	501	A615/40	#5	16	10
	Weight per Bar (lbs): 46.59 'Total Weight : 0.466'						
9	Sheet2	Real	S03	A615/40	#5	16	10

Try it: **Creating a free form report**

1 Launch RebarCAD

2 Draw numerous bars of a variety of sizes and types

3 Click **View Bar list** command

4 As we have no drawing sheets then it will be in free-form mode

5 Right click on the Type column header and select **Group by this Column**

6 Right click on the Bar Size column header and select **Group by this Column**

7 Expand some of the groupings by selecting the + symbol

8 Click **Print Preview**

Key Points

- Select the Free-form tab to switch to free-form mode
- Right click on the column headers to see available options
- The free-form view does not show combined bars

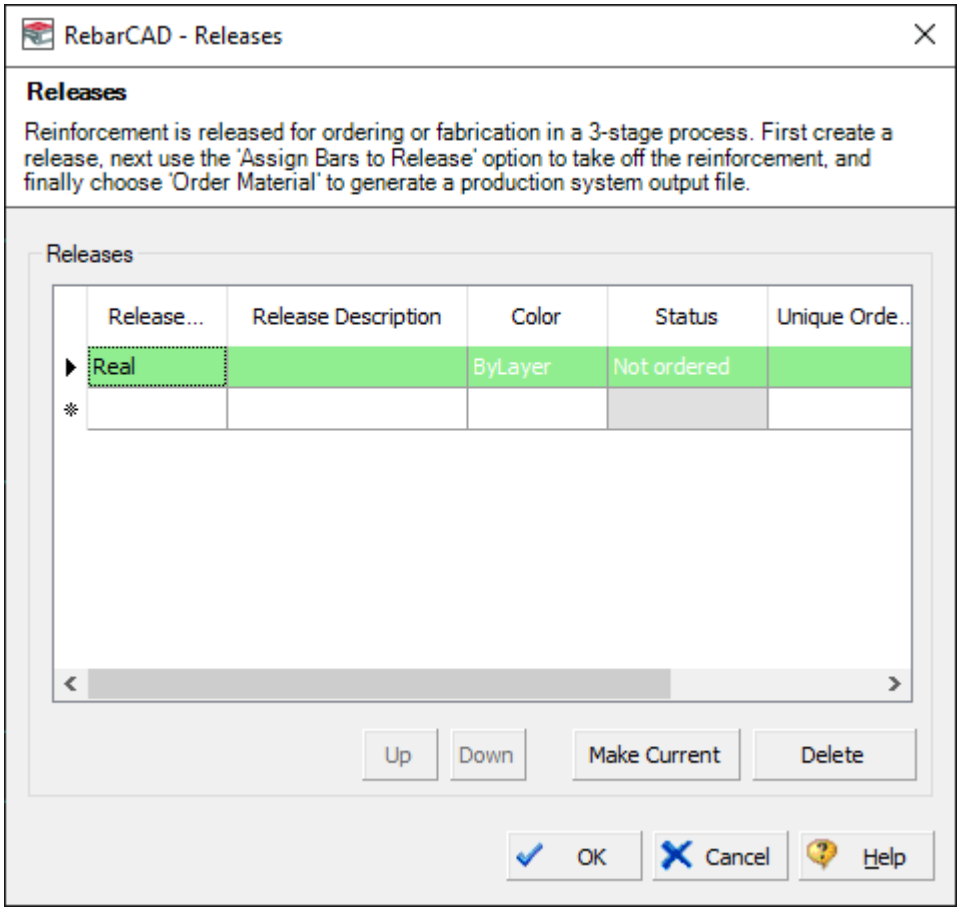
Commands

Action	Menu	Toolbar
View bar list	RebarCAD > View Bar list…	RebarCAD

Orders

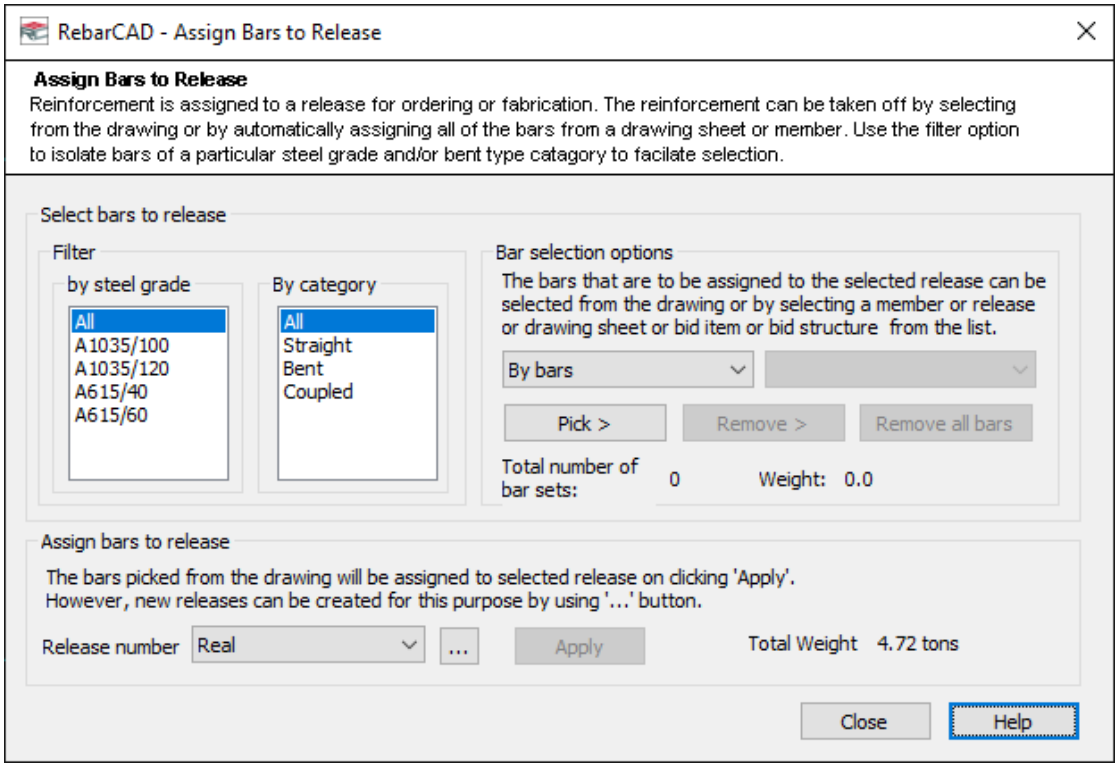
The appearance and usability of the dialogs relating to releases have been improved.

The new **Releases** dialog is shown below:



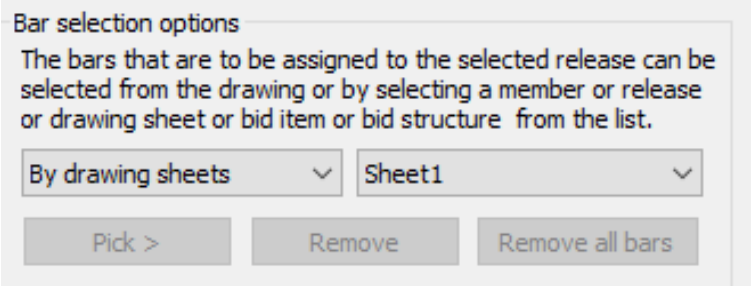
To make the draw bar dialog default to a specific release you can simply highlight the required release within the list and click the “Make Current” button.

You can assign existing bars to a release by using the **Assign Bars to Release** commands, as shown below:



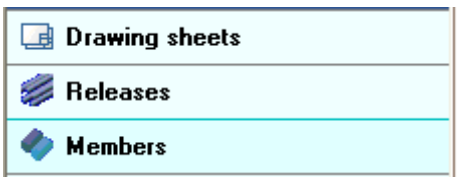
Use the selection buttons to build up a list of bars to be assigned to a release, select the required release from the list then click apply. You can use the additional filter options to help build up the required selection of bars.

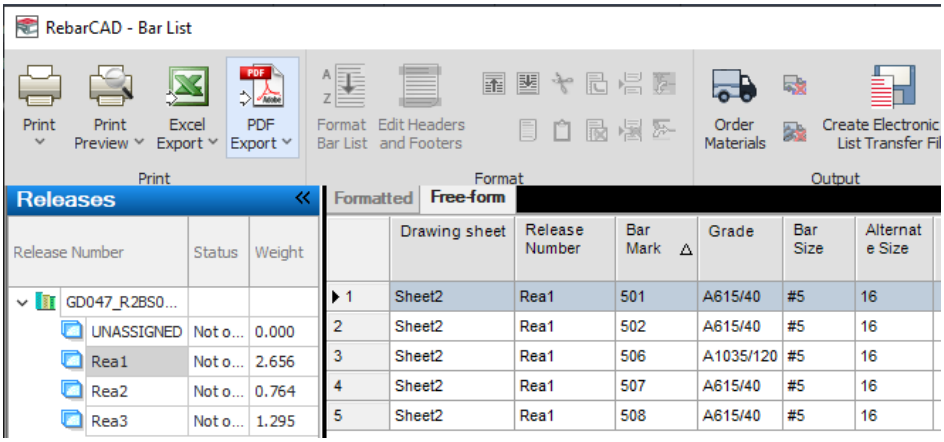
You can also build up your bar selection directly from members or drawing sheets, as shown below:



The bars are assigned to the release on selecting apply and the number of selected bars is reset to 0 which allows you to make additional assignments. You can select the "…" button to access the releases dialog to create or modify the releases.

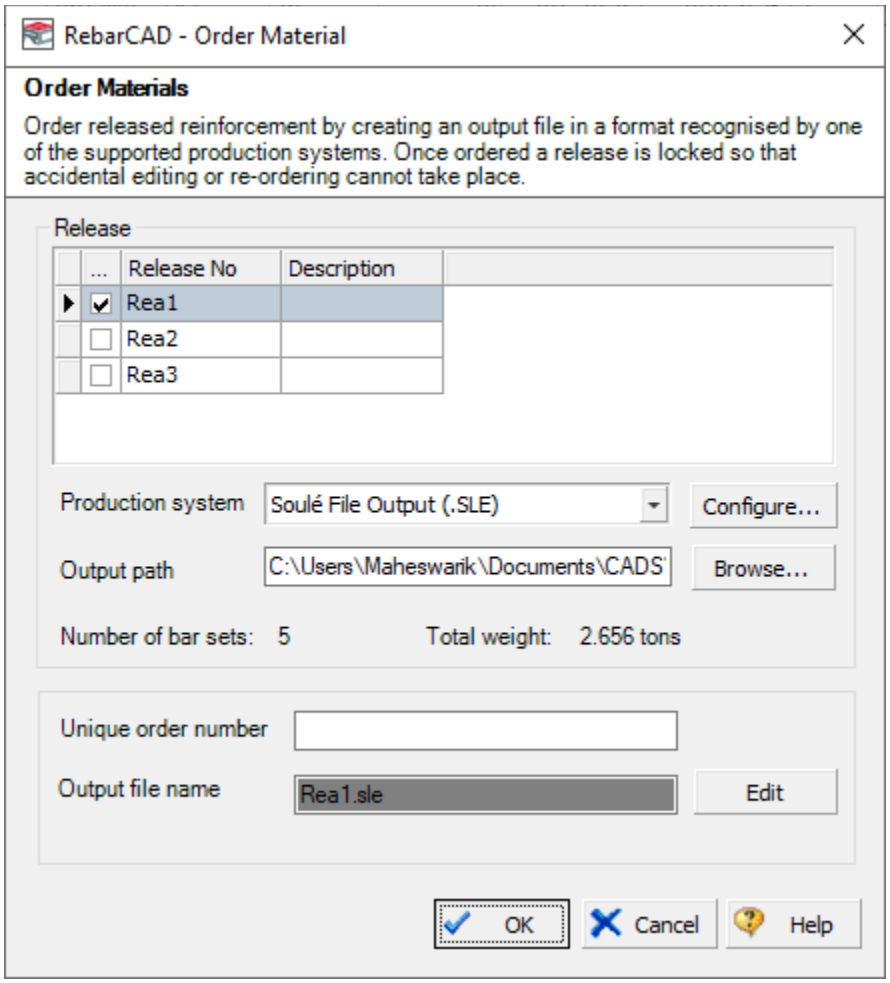
You can review the status and weight of the releases from the bar list by selecting the Release options from the Mode area of the bar list, as shown below:





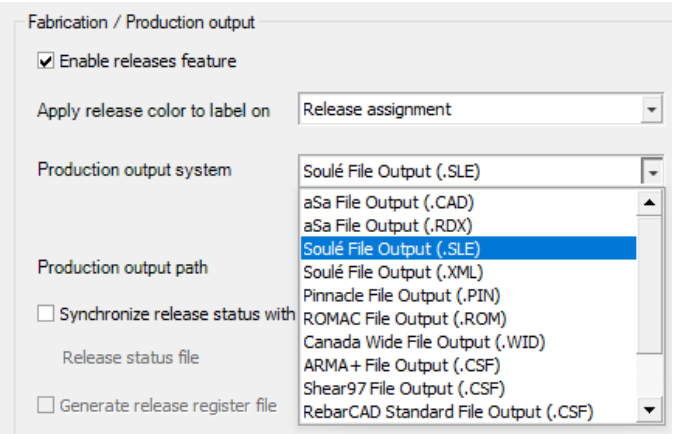
Selecting a release will filter the Data Area to show just bars belonging to the selected release.

Once you have specified your required release you can now order these from the Bar List. Select the **Order Material** command from the Production menu. This will display the following dialog.



Select which release you wish to order and specify the required location for the production output file. You will need to specify a UON. This UON will be used to build up the default name of the production output file.

Use the configure button to select the required production system, as shown below:



Additional dialogs may appear that request additional data for specific production systems.

Try it: **Order a bar**

1 Launch RebarCAD

2 Click Draw Bar New Mark

3 In the Releases dialog create a release called “001”.

4 Make this current by selecting the “Make Current” button

5 Draw a bar of any shape/size

6 Click **View Bar list**  command

7 Click **Order Materials** from the Production menu

8 Tick release “001”, specify a path, enter a UON, then click Ok

9 Depending on which production system you have configured you may be asked to specify additional data

10 Use Windows Explorer to confirm the creation of the appropriate file

Key Points

- You build up releases very quickly from members and drawing sheets
- All ordered bars will be locked from future editing. Use un-order if required
- The draw bar dialog defaults to the release that is set to current in the release dialog

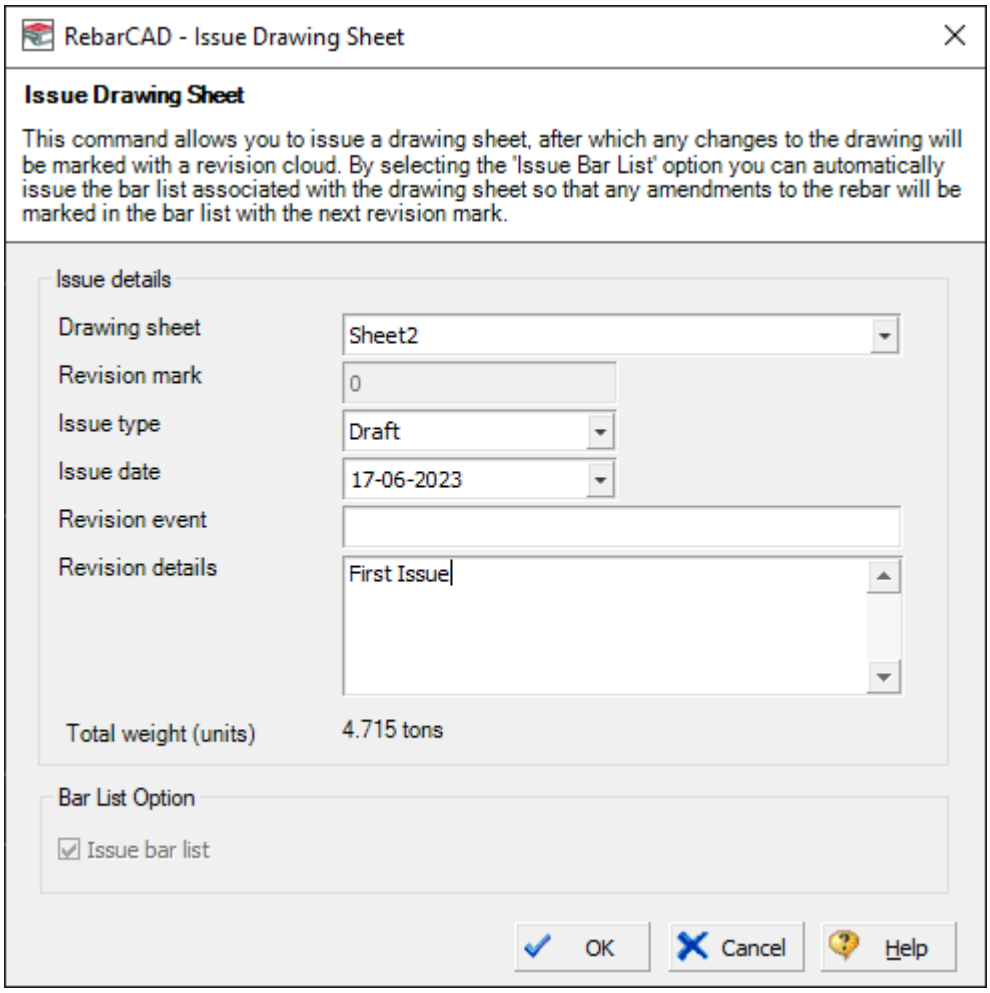
Commands

Action	Menu	Toolbar
View bar list 	RebarCAD > View Bar list…	RebarCAD
Define release 	RebarCAD > Draw Bar > Set Release …	Draw Bar
Assign bars to release 	RebarCAD > Editing > Assign Bars to Release	Editing

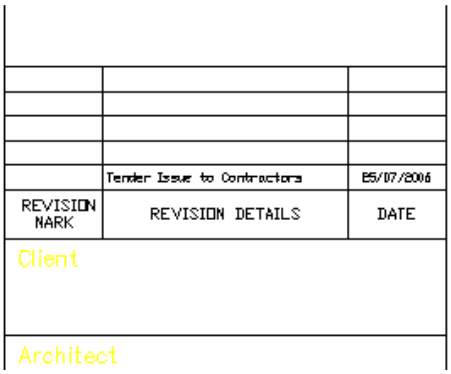
Issuing & Revision

RebarCAD includes a sophisticated issuing and revision system. Once the drawing and bar list have been completed you can issue them together. Subsequent edits to bars will be marked within the drawing and bar list.

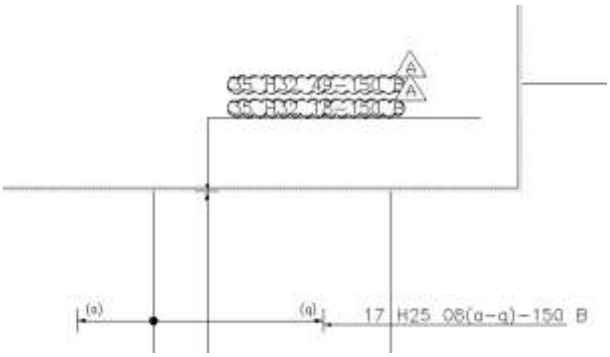
To issue a drawing sheet together with the bar list select the **Issue Drawing Sheet** command from the RebarCAD->Review menu.



Following the issues a revision table will be automatically generated. If the title block does not contain this table then you will be asked to place the table manually.



If you now edit any of the bars within the issued drawing sheet then they will automatically be marked with a revision cloud and symbol, as shown below:



The bars list includes a Revision Mark column (last column) that identifies which revision a bar belongs to, as shown below:

A track changes layer is also created automatically as part of the revision. This can be used to identify and control revision change. The layer name is prefixed with the drawing sheet number and includes the corresponding revision letter (e.g. **Sheet1**Revision**1**Changes).

Try it: **How to issue, revision and re-issue a drawing sheet together with bar list**

1 Launch RebarCAD

2 Create a drawing sheet using one of the methods described in the Drawing Sheet section above

3 Draw some bars on this new drawing sheet

4 Click the **Issue Drawing Sheet** command

5 Accept all the defaults in the Issue Drawing Sheet dialog by pressing Ok

6 If the drawing sheet was created in paper space then you should now be in the associated layout. Depending on which title block you inserted you will either see a revision table automatically appended to the title block or be asked to place one manually

7 Edit the size of one of the issued bars. Click Ok when the RebarCAD revision warning appears

8 A revision cloud should now appear around the edited bar label

9 Click **View Bar list** command to see that a revision 1 letter has been applied to the edited bar

10 Using AutoCAD locate the AutoCAD layer that is suffixed with drawing sheet name. (e.g. Sheet1Revision1Changes) Toggle this layer on/off to show/hide the revision clouds and annotation

11 We have now completed our revisions so now need to re-issue the drawing using the **Issue Drawing Sheet** command

12 Accept all the defaults in the Issue Drawing Sheet dialog by pressing Ok. Note that the Revision Mark field now shows 1

13 The revision table will now have a Revision 1 entry

Key Points

- You can issue a bar list with or without its associated drawing sheet
- Revision clouds, annotation and track change layers are generated automatically following the edit of any bar that belongs to an issued drawing sheet

Commands

Action	Menu	Toolbar
View bar list	RebarCAD > View Bar list…	RebarCAD
Issue drawing sheet	RebarCAD > Review > Issue Drawing Sheet…	Review