





TRAINING GUIDE





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Chapter 1 BOM Editor



BOM Editor:

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- Accessing BOM Editor
- BOM Editor Components
- Displaying a template
- Template managers tools

Template customization:

- Template preview components
- Template editing

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BOM Editor

Introduction

Advance Steel has a powerful module for reports such as material lists, plate lists, cut lists, assembly lists, bolt lists etc. The preset templates for these reports are available in the **BOM Editor**.

This tutorial describes the **BOM Editor** components and explains how to customize the templates for content and format.

Accessing BOM Editor

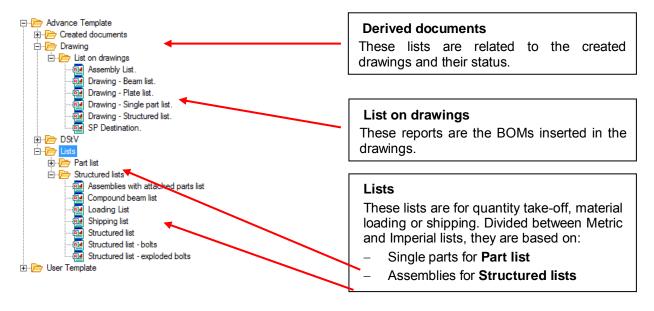
1. On the **Advance Steel** ribbon, *Output* tab, *Document Manager* panel, click 🗾 to start the BOM editor.



BOM Editor Components

The preset templates tree for material reports is in the right panel of the BOM Editor window. The tree is divided into three groups of templates.

- Advance Template: includes all BOM templates from Advance. Their properties cannot be modified.
- User Template: includes a copy of all the BOM templates from Advance that can be modified.
- Project Template: can be used to copy templates for project specific modifications.

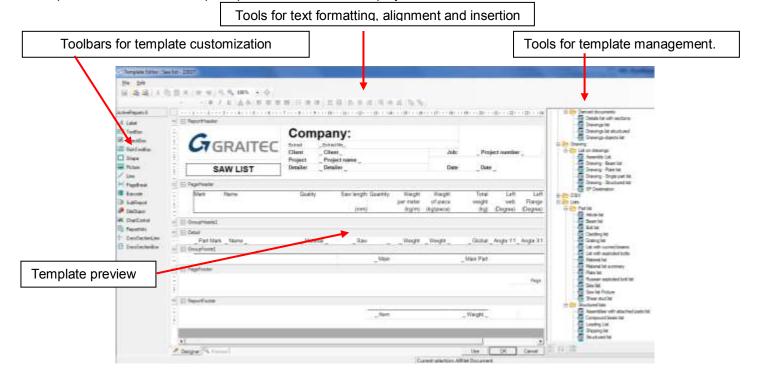


The extracted reports can be printed or exported in different file formats such as PDF, XLS and others.

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Template modification tools

The right panel of the BOM Editor window displays the selected components in the template tree. When you select, for example, Saw Cut list, the template preview of this list is displayed.



Functions for template management

The toolbar on the right side of the BOM Editor contains different tools for template management.

If you click on RMB on a list, the

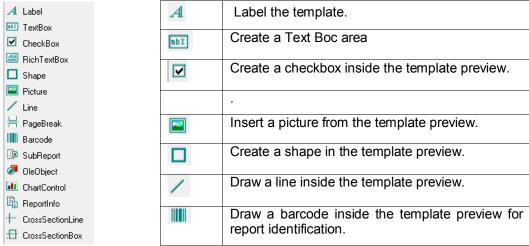
	Save template: save modifications to the edited template.
	Copy template: copy an existing template to the user / project database within the same category.
×	Delete selected template.
	Export selected templates as *.temp files.
	Import *.temp files as templates.
8	Template units: set up the units for the template.
	Setup of Page: opens the "Report settings" dialog box for page and printer setup, and styles.
3	Reports content: when a template is selected, it displays the list of objects whose related information from the model is used in the report
	Select XSL file.
<i>P</i>	Properties, can assign the selected list on Quick Document

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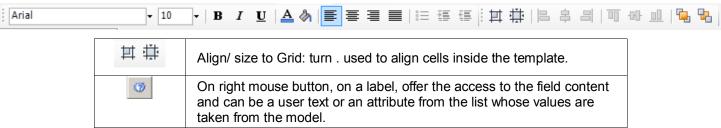


Tools for text formatting, alignment and insertion

Most of the icons are for text formatting, alignment and insertion are positioned on the Left area:

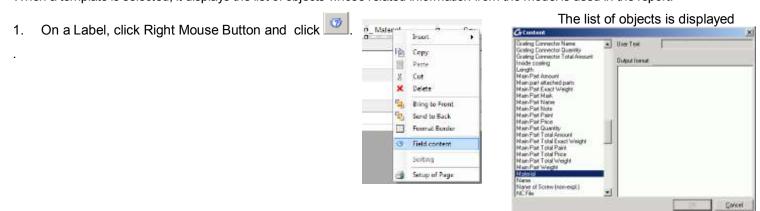


Other toolbars for template customization:



Example: Field content

When a template is selected, it displays the list of objects whose related information from the model is used in the report.



Note: You can edit the list of objects only for the BOM templates from the User template and Project template groups.

Buttons for applying or canceling the modifications

The three buttons at the bottom of the BOM Editor window have the following functions:

Use	Applies the selected template. The BOM Editor closes and the list creation begins.
OK	Saves any modifications and exit the BOM Editor.
Cancel	Exit the BOM Editor without saving any modifications.

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Template customization

Template customization can be easily done by modifying an existing template. We will explain the template preview components, how to edit the template for format and content modifications and how to insert a new logo in the report header.

Template preview components

The template preview represents how and what type of information is displayed in the report.

Here is an example of a template preview that has the following blocks:



1. ReportHeader - ReportFooter

The **ReportHeader** displays the company and project information.

The ReportFooter summarizes some of the data included in the report such as the total weight.

2. PageHeader - PageFooter

The **PageHeader** represents the header line that is displayed at the beginning of each page. It contains User text describing the data listed in the report.

The PageFooter displays the page number.

3. GroupHeader1 – GroupFooter1

The **GroupHeader1** displays the title of the group data that are described in the next level.

For example, for **Structured list**, the **GroupHeader1** displays the Assembly main part name for the single parts that are listed in the next level.

4. Detail

The **Detail** contains the attributes for the data that is listed in the report according to the header line of the **PageHeader** block.

The data inside the Detail block can be listed based on selected criteria: for example, if sorting is based on Weight, the heaviest piece is listed first in the report.



To establish your own criteria, right-click over the Detail block and select Sorting from the list to display the Template sorting window:

You can select the sorting criteria from the **Source** panel and move them to the Result panel with the arrow icons. You can also modify the sorting order with these icons.



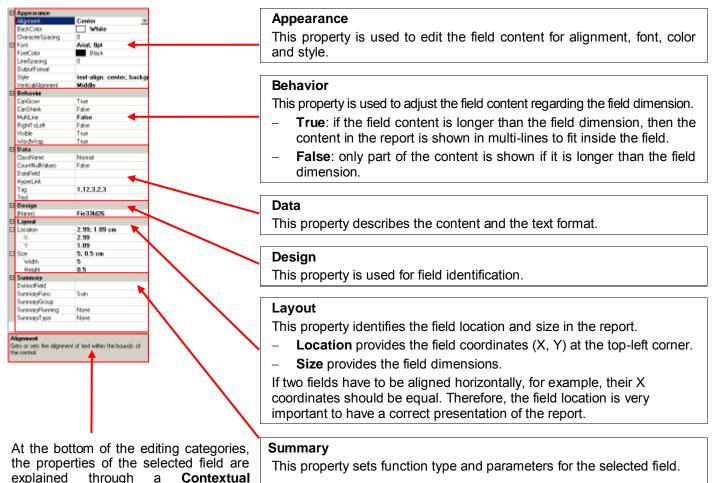
Template editing

Template blocks contain fields that can be edited for content and format. A field is an area inside the block that can have a user text or attribute tag.

- Click a field to modify its properties.
- Select the Categorized presentation: 2.



The field properties are divided into six categories:



description window.

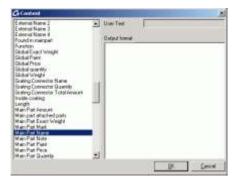
Next, modify the content of the list, add borders, insert an image and turn on/off the grid lines from the template, report contents.

Example 1: Modifying the content of the list

- 1. Select a field in the template.
- 2. Right click and select Content from the context menu.



- 3. Click OK.
- 4. Select the suitable field content from the list.



5. Click OK.

Note: The field content can be a user text or an attribute from the list whose values are taken from the model.

Example 2: Editing borders of a field

1. Right-click a field and select **Borders** from the context menu.

The "Format Border" dialog box appears.

Select a line style from the Line Styles list or use the available Presets.



Inserting an image

- . On the toolbar from the left, click
- 2. Select a start and end point in the **ReportHeader** to insert the picture field.
- 3. Select the picture field, go to the field properties and make the following settings:
 - Adjust the field location and layout to have the same size as the logo.
 - In the **Data** category, in the **Image** field, click to open an image.
 Select the image file and click **Open**.

The logo is inserted.



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Chapter 2 Steel Workflow

Following the steps described in this chapter you will get the model used in the Connection chapter. Also, you can use it as guidelines in approaching an Advance Steel project.



Web http://www.graitec.com/En/
Email support.americas@graitec.com



- Set up the drawing prototypes
- Select a template
- Save the drawing
 - Select the correct osnap
 - Management Tools Drawing Presentation
- Colors / Dim Style / Font /General look and feel of drawings
- Job Setup Project data
 - Set all project information and units

Open Project - Begin Modeling

- 1. Set UCS to world
- 2. Draw grid lines start @ 0,0,0 use grid by distance
- 3. Place required Level Symbols
- Create a Compass symbol
- 5. Copy grid lines up to 0,0, TOS of next level if necessary
- **6**. Use the frame tool to draw columns and beams in a frame plan; or create them from the beam object.
- 7. Set beam shape and position
- 8. Create connecting beams between frames Save
- 9. Create bracings Save
- 10. Set the required "model roles" to all profiles
- **11**. Check all information in the Model Browser (Material, Coating, Lot/Phase, Model Role, etc.)
- 12. Start connections
- **13**. Base plates all columns **Save** (Grout / Anchor holes)
- 14. Cap plate if required Save
- 15. Beam to column Save
- 16. Beam to beam Save
- 17. After all the connections are made run collision check
- 18. Check the collision report, if errors
- 19. Check, locate and fix collision Save
- 20. Audit checking
- 21. Purge Advance Steel objects
- 22. Assign welds if additional are required Save
- 23. Shade, rotate, check & review
- 24. Check the prefix settings
- 25. Number the model with the numbering tool Save

- **26**. Begin drawings single part
- 27. Do all single part drawings or by selection with filter
- 28. Begin assembly drawings
- 29. Do all main part drawings
- 30. Or by selection for Column, Beams, Misc.
- 31. Or by selection of phase
- 32. Create elevations view Save
- 33. Create plan view Save
- 34. Create anchor bolt plan Save
- 35. Create 3D view and node as required
- **36**. Details of bolts
- 37. Clean up drawings
- 38. Create external project lists
- 39. Create NC files
- 40. Batch plot / Explode drawings

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