

2009

ShipConstructor®



Featuring: Database Driven Relational Object Model™ (DDRORM™)

Standard Assemblies

ShipConstructor 2009 Standard Assemblies
Published 2010-01-20

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Standard Assemblies

A standard assembly is a logical grouping of parts and components which can be used multiple times in one or more projects but only has to be modeled once.

Naming Conventions

Manager > General > Naming Conventions

Assemblies

The naming convention used when placing a standard assembly in a model drawing. Users will need at least one naming convention of this type defined in order to insert standard assemblies into their model drawings.

Available Naming Elements

- Static – User defined text
- AutoNumber – Auto-generated number
- ModelDrawing – Name of the current model drawing
- Standard – Name of the standard assembly standard

Parts

The naming convention used for parts within a standard assembly standard. Users will need at least one naming convention of this type defined in order to create parts in a standard assembly standard.

Available Naming Elements

- Static – User defined text
- AutoNumber – Auto-generated number
- Standard – Name of the standard assembly standard

Spools

The naming convention used for spools in a standard assembly standard. Users will need at least one naming convention of this type defined in order to create spools in a standard assembly standard.

Available Naming Elements

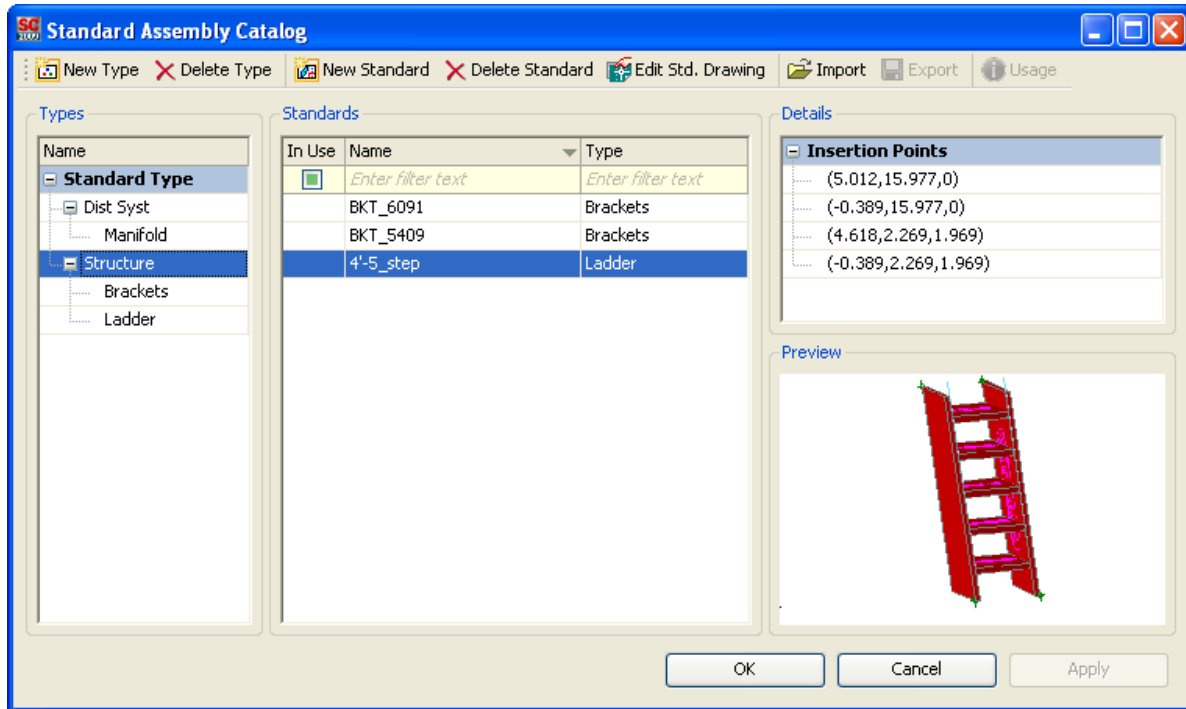
- Static – User defined text
- AutoNumber – Auto-generated number
- Spec – Name of the pipe or HVAC specification the parts in the spool belong to.

Drawing Templates

Users can define multiple standard assembly drawing templates which will be used when editing a standard assembly standard for the first time. Users can create new standard assembly templates through Navigator or can manually copy existing drawing templates to their Template\StandardAssembly folder under the project folder. If copying an existing template over manually users will need to open each copied template through Navigator to register it to the current project.

Catalog

Standard assembly standards are created through Manager using the Standard Assembly Catalog Manager > Standard Assembly > Standard Assembly Catalog



Types

Types provide a way for users to organize their standard assembly standards into a folder like structure. Use the New Type and Delete Type buttons to create and delete types. You will need to have at least one type to be able to create a standard assembly standard.

Note: You cannot delete a type if a standard assembly standard is assigned to that type or any of any of its sub types.

Standards

The standard assembly standards in the project that are assigned to the selected type and all sub types are listed here. Here users can rename standards and assign them different types. Use the New Standard and Delete Standard buttons to create and delete standard assembly standards.

Note: Users will not be allowed to delete a standard assembly standard if it is currently used in a model drawing.

Details

Details of the selected standard assembly standard are shown here. (i.e. Insertion Points)

Preview

A preview of the selected standard assembly standard is shown here. The preview shows the view of the standard assembly standard at the time of the last save as seen by the user.

Editing a Standard Assembly Standard

To edit a standard assembly standard select it in the Standards area and click the Edit Std. Drawing button. This will prompt you to save any changes you have made in the Standard Assembly Catalog and open up a model drawing with the standard assembly standard in it. In the model drawing users can create\edit\delete parts and assemblies associated with the standard assembly standard. See the [Modeling a Standard Assembly Standard](#) section.

Note: If you have multiple standard assembly drawing templates you will be prompted to select which template to use for the standard assembly standard the first time it is edited.

Import

To import standard assembly standards from another project with the same database version click the Import button. Users will be prompted to select a source project and then all importable standard assembly standards will be listed so the user can choose which to import.

Note: Importing standard assembly standards from an XML file is not supported in the current ShipConstructor release. Please look for it in a future release.

Export

This is not supported in the current ShipConstructor release. Please look for it in a future release.

Usage

If a standard assembly standard is in use in the current project, click the Usage button to get information on where it is being used.

Closing the Catalog

If changes may have been made to a standard assembly standard that is in use in a model drawing the user will be prompted to update the model drawings which contain the standard assemblies. It is strongly recommended that users allow the update of the model drawings to proceed or else information about the standard assemblies in these drawings may not be up-to-date.

Modeling a Standard Assembly Standard

Structure

Modeling structure parts in a standard assembly standard is almost the same as modeling structure within a single structure model drawing. Certain operations and interactions with other drawings are limited or restricted but almost all of the structure functionality and operations are available to be used in a standard assembly standard.

Stiffener-Plate Cutouts

Cutouts can be added in plate parts from stiffeners within the same standard assembly but cutouts can't be created in plate parts in a standard assembly from stiffeners that are not within that standard assembly. Stiffeners in a standard assembly can make cutouts in non-standard assembly plate parts in a model drawing.

Assigning Parts to Assemblies

The Product Hierarchy page of the Part Properties window will not be shown when creating\editing structure parts. Users will need to use the Standard Assembly Standard Hierarchy window to assign parts to assemblies. See the [Assembly Structure](#) section.

Exclusions

The following entities cannot be included in a standard assembly:

- Standard Parts
- Curved Plate Parts

- Plank Parts
- Datum Lines
- Hull Trace Construction Lines
- Planar Group Construction Lines

Pipe/HVAC

Modeling pipe and HVAC parts in a standard assembly standard is almost the same as modeling these parts in a single model drawing. Certain operations and interactions with other drawings are limited or restricted but almost all of the pipe and HVAC functionality and operations are available to be used in a standard assembly standard.

When modeling pipe and HVAC parts user will only need to specify a Specification they are working within and not a System\Branch.

Note: Once a standard assembly standard is used in a model drawing users will not be able to add new pipe or HVAC parts to the standard. Please look for this restriction to be removed in a future release.

Spools

Before a standard assembly standard can be saved all pipe and HVAC parts must either be spooled or set to no-spool. If a user attempts to save when there are some parts that are not spooled or set to no-spool then a log file will be presented to the user listing the parts that need to be corrected before the save can be tried again.

Exclusions

The following entities cannot be included in a standard assembly:

- Hangers
- Supports

Equipment

Equipment can be inserted and manipulated just as in an equipment model drawing.

Other Exclusions

The following entities cannot be included in a standard assembly:

- Penetrations
- Space Allocations

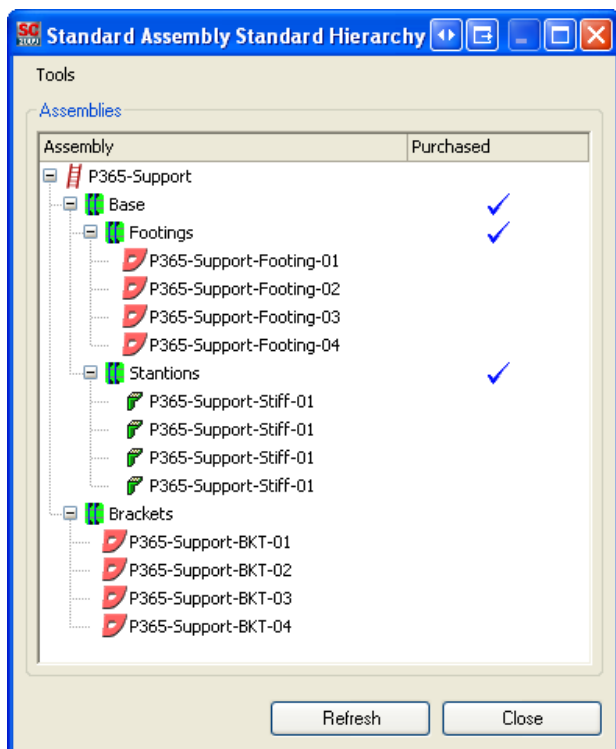
Assembly Structure

While modeling a standard assembly standard users can set up the assembly structure that the standard assembly will use.

To make changes to the assembly structure:

1. Choose ShipConstructor > Product Hierarchy

The Standard Assembly Standard Hierarchy appears



2. Create\edit\delete assemblies and assign parts just like you would in the main product hierarchy

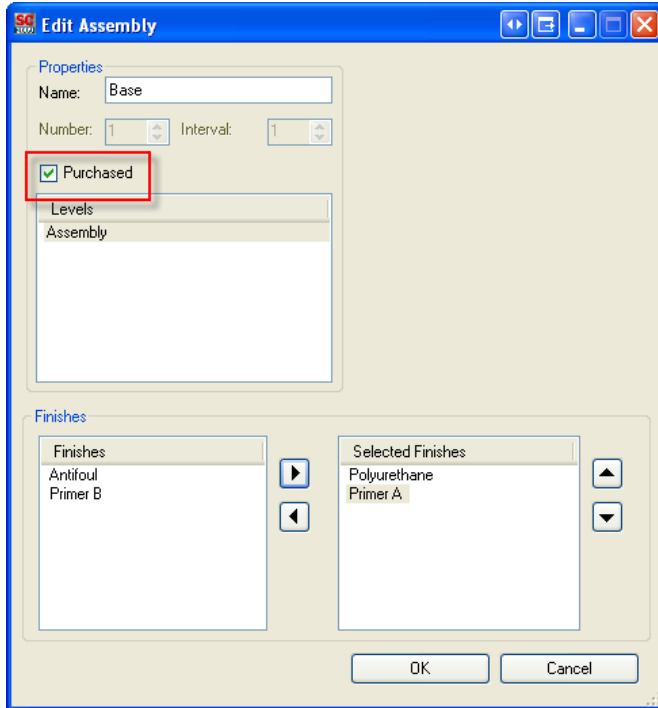
Purchased Assemblies

Assemblies in a standard assembly standard can be designated as purchased. This will allow the user to easily filter the parts in these assemblies out of some production output. (i.e. If a ladder is purchased as a complete unit it can be modeled as a standard assembly using plate parts and stiffeners, placed in an assembly designated as purchased and the user will have the option to not include these parts in their plate nests and profile plots)

To designate an assembly as purchased:

1. In the Standard Assembly Standard Hierarchy window select the assembly and choose Tools > Assembly > Edit...

The Edit Assembly window appears



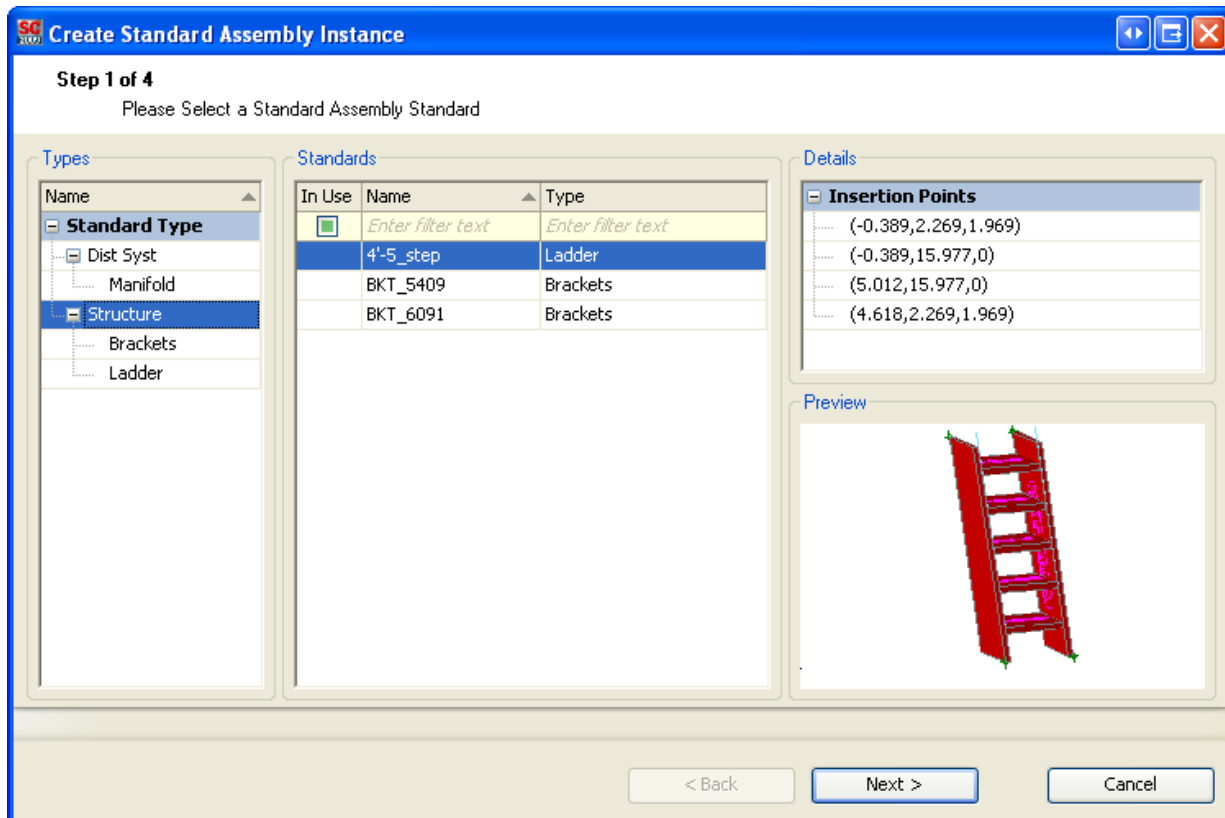
2. Check the Purchase box
3. Click OK

The selected assembly and all sub-assemblies will now be designated as Purchased. All standard assemblies using the current standard which exist in model drawings will be updated to match the new assembly attributes.

Using Standard Assemblies in Model Drawings

Insertion

1. Choose SC Standard Assembly > Insert Standard Assembly



The Standard Assembly Wizard appears

2. Select the standard assembly standard to insert and click Next.
3. Select the assembly in the primary product hierarchy to assign the standard assembly to and click Next.
4. Select the systems\branches to assign the pipe and HVAC parts to and click Next.
5. Select the naming options for the different types of parts in the standard assembly and click Finish.
 - Generate New Name – New part names will be generated using the current naming convention for the parts getting the lowest available auto-numbers.
 - Generate New Name Using Auto-Number from the part in the Standard Assembly Standard - New part names will be generated using the current naming convention for the parts but it will attempt to use the auto-number of the corresponding part in the standard assembly standard. This can allow users to set up a specific numbering sequence in the standard assembly standard that the parts can follow when inserted in the model. (i.e. A user may want their spools numbered 1, 2, 3 forward to aft. Using this option ShipConstructor will attempt to generate names for the standard assembly spools in the model following the same numbering sequence.)
 - Use Name from Standard Assembly Standard – The parts will use the exact name that is set in the standard assembly standard.
6. Use the placement jig to position the standard assembly in the correct location and orientation.

The standard assembly is created and placed in the drawing at the correct location.

Editing

1. Choose SC Standard Assembly > Edit Standard Assembly
2. Edit the systems\branches the pipes and HVAC parts are assigned to and click Next.
3. Edit the naming options for the different types of parts in the standard assembly and click Finish.

The standard assembly is updated with the changes the user made.

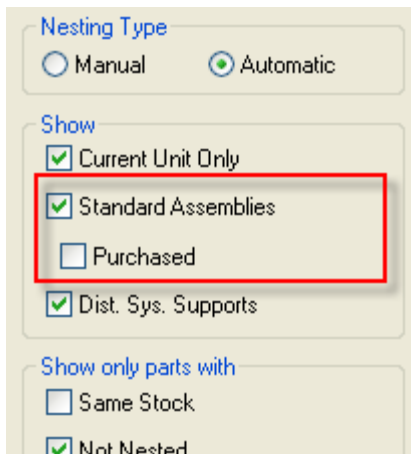
Note: Users will not be able to use the AutoCAD UNDO functionality to undo the changes made during the edit of a standard assembly.

Anchor\Unanchor

Users can anchor and unanchor standard assemblies to restrict their movement just like a distributed systems part.

Production Output

Plate Nesting



Users have the ability to filter out plate nestable parts which reside in standard assemblies so they will not be included in plate nests.

- Standard Assemblies – If unchecked no plate nestable parts which reside in standard assemblies will show up or be selectable in the assembly\part tree on the left.
- Purchased - If unchecked no plate nestable parts which reside in standard assemblies and are assigned to assemblies marked as purchased will show up or be selectable in the assembly\part tree on the left.

Profile Plots

The screenshot shows the 'Profile Part Filtering' dialog box with the following settings:

- Show:**
 - Current Unit Only
 - Std Assemblies (highlighted with a red box)
 - Purchased
 - Dist. Sys. Supports
- Stock Type:**
 - All
 - Show Angle
 - Show Flatbar
 - Show Tee
 - Show W'
 - Show Custom
 - Show Fab Tee
 - Show Bulb Flat
 - Show Structural Pipe
 - Show Rect Tubing
 - Show Channel
 - Show Round Bar
 - Show Fab Angle
 - Show Fab W'
- Part Shape:**
 - Straight
 - Bent
- Part Type:**
 - Faceplates
 - Stiffeners
 - Twisted Stiffeners
- End Cut (Start/End):**
 - All Endcut Starts:
 - All Endcut Ends:
- Stock Name:**
- Length:**
 - Length
 - <= Length <= mm

Buttons: OK, Cancel

Users have the ability to filter out profile parts which reside in standard assemblies so profile plots will not be created for them.

- Std Assemblies – If unchecked no profile parts which reside in standard assemblies will show up or be selectable in the assembly\part tree.
- Purchased - If unchecked no profile parts which reside in standard assemblies and are assigned to assemblies marked as purchased will show up or be selectable in the assembly\part.

Reports

A new Purchased field was added for all parts and assemblies which will indicate if the part or assembly has been marked as Purchased. This field will always be false for parts and assemblies that are not part of a standard assembly.

A new section was added for standard assemblies allowing users to include them in their existing reports or to generate reports on only standard assemblies.

Index

No index entries found.