



SPC Online Coil Selector

Software User Guide



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Signing up for SPC Online Coil Software

Using the following Link: www.spc-hvac.co.uk/resources/software/

You will be directed to the SPC Online Coil Selector Software. Here you'll be presented with a simple login screen. Click on the **Register** link to create your own customer account.

Registering to use Coil Software

Software Registration.

First Name*

Last Name*

Company*

Address Line 1*

Address Line 2

City*

Post Code*

Contact Number*

Mobile (If not the same as Contact Number)

Market*

Email*

Confirm Email*

Password*

Confirm password*

☐ I'm not a robot


reCAPTCHA
[Privacy](#) - [Terms](#)

Register

Please ensure you click on the reCAPTCHA tick box so we know you're not a robot.

Once you've clicked **Register** you'll receive a confirmation email from our dedicated coil software email address. It'll contain a confirmation link to verify your account. Once you've verified your email address, you can log in and start using the coil selection software.

Thank you for registering as a user
of SPC Online Coil Selector Software.

Please click the link below to validate your email address
and gain access to the software.

Please confirm your account by clicking [HERE](#)



Please see attached pdf for our coil selection guide

-

Should you require any further assistance please do not hesitate to contact us.

Please do not reply to this email as mailbox is not monitored.

If you haven't received an email a minute or two after registering, take advantage of the **Resend Email** button on the confirm account page after you're sure that your email address was entered correctly.

Confirm Account

Thank You for Registering. Please check your email and confirm your account, you must be confirmed before you can log in..

If you do not receive an email, please re-enter your email and Click Resend.

Email

Resend Email

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Forgotten Password

We all occasionally forget passwords, so we've implemented a **Forgotten your password?** link for everyone.

Forgot your password?.

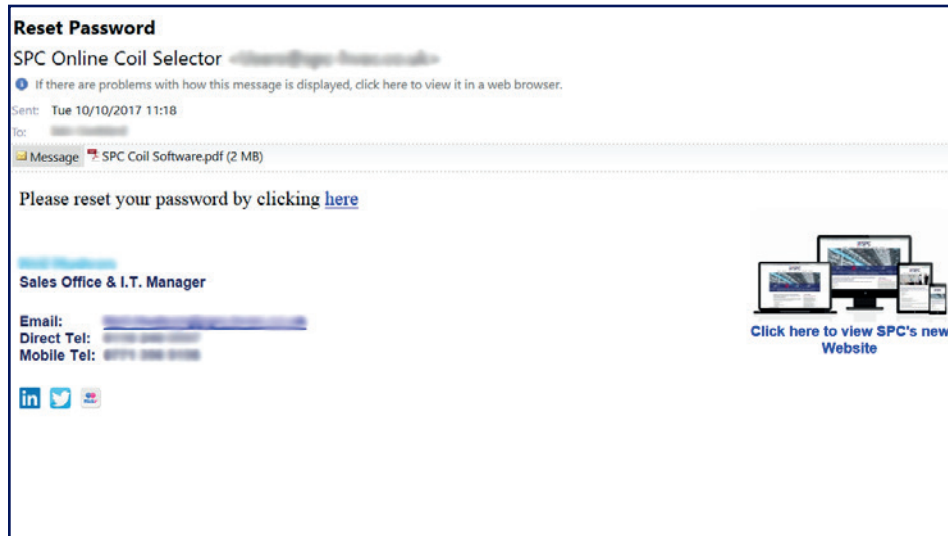
Enter your email.

Email

Email Link

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You'll receive an email from our users@spc-hvac.co.uk email address containing a link. Follow the link to a reset password page and enter in your new password. Once you've confirmed the details you'll be good to go!



Reset password.
 Reset your password.
 Email:
 Password:
 Confirm password:
 Reset
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Creating a Project

Before we can select a coil, we need to create a new project. Click on the **New Project** button to prompt a dialog box:



Create Project

Name

Testing

Create

Close

Then click the **Create** button to finish. Alternatively, you can cancel the project creation process by clicking the **Close** button.

After creating a new project it will automatically assign your project with its own SPC quote number ready for you to add a new product.

Editing/Deleting an Existing Project

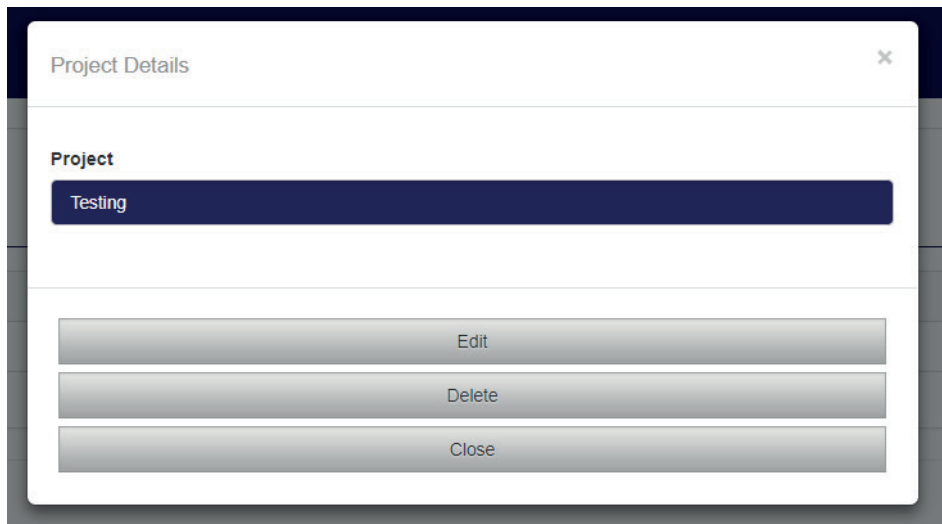
A list of projects will always be accessible using the **My Projects** button located on the web page's header:



You will be redirected to view a history of all your created projects with their corresponding SPC quote number, which is handy when talking to a sales engineer about a quote you've created yourself:

Clicking on a project will give you a short list of options.

My Projects	
Project	Ref
Testing	006942/17 RD



Edit

Clicking **Edit** will take you to the coil selection area, allowing you to add or remove coils to amend your quote.

Delete

Clicking **Delete** will purge the selected project completely. Deleted projects cannot be recovered, so please pay special attention to the second windows prompt waiting for confirmation when deleting a project.

Close

Click **Close** to close the prompt and interact with another project. Alternatively you can click anywhere outside the prompted box to get the same effect.

Coil Selection

Click the **Add** button on the right hand side menu to select the desired coil type:



Here you can select either a water coil, refrigerant coil or steam coil. Alternatively, click the **Back** button to navigate to your selections/project overview.

There are a few universal features you'll see on each of the coil types:

The screenshot displays the '036947/17 R0 - Testing' page with a breadcrumb trail: 'Water / Heating / Selection'. The interface is divided into four main sections:

- Air Side Data:** Includes fields for Air On DB (°C) set to 10, Air Off DB (°C) set to 30, Duty (kW) (blue field), Standard Air (Yes), Face Velocity (m/s) (blue field), Max. PD (Pa) set to 30, Air Pressure Drop (Pa) (blue field), and Air Volume (m³/s) set to 1.
- Fluid Side Data:** Includes Fluid On (°C) set to 82, Fluid Off (°C) set to 71, Flow Rate (l/s) (blue field), Glycol (%) set to EGS, Max. PD (kPa) set to 20, and Actual Fluid PD (kPa) (blue field).
- Physical Data:** Includes Fin Material / Type (Aluminium 0.15 Rippled), Tube Diameter (12mm), Tubes High (0), Duct Height (mm) (4), Duct Width (mm) (0), Finned Density (Optimise), Circuit Type (Optimise), No. Sections (1), Surface Margin (1), No. Rows (blue field), No. Sets Connections (blue field), Flow / Return Connection Size (Calculate), Duty Margin (blue field), and Coil Code (blue field).
- Right-hand Navigation Menu:** A vertical stack of buttons: Cooling Mode, Rating Mode, Back, Selection, and Calculate. The 'Cooling Mode' button is highlighted with a red rectangle.

1. Highlighted above you'll see a short description of what you are currently selecting. In this example you'd be selecting a water heating coil. As each selection page is extremely similar keep an eye on this description to make sure you're selecting the correct product.
2. The blue fields cannot be edited. Once the white boxes have been filled with the appropriate data, clicking calculate will populate the blue fields with the optimal values.
3. The circled menu on the right hand side of the selection area has been optimised to a short simple menu with the following buttons:
 - **Heating Mode** - Changes the selection to heating coil
 - **Cooling Mode** - Changes the selection to cooling coil
 - **Rating Mode** - Uses Physical Data to automatically configure Air/Fluid Data
 - **Selection** - Reverts Rating Mode back to manual selection
 - **Calculate** - Takes input data to calculate optimal values for the blue fields
 - **Selection** - Reverts Rating Mode back to manual selection
 - **Calculate** - Takes input data to calculate optimal values for the blue fields
 - **Costing** - Redirects you to select the final aspects of the coil
 - **Save** - Adds the finished coil to your quote
 - **Back** - Takes user back to My Projects
4. While entering the coil details, all values entered will be checked against some set validation rules. If the inputs don't comply with the rules, a small block of red text will appear towards the bottom of the selection area to guide you in the right direction.

The coil selection process is straightforward and easy to use. All the inputs are appropriately labelled with the option to switch between pre-set options. For example, using Standard Air or setting unique parameters, calculated using Air Off (°C) or Duty (kW), using program selected Flow/Return Connection Sizes or configuring your own.

036947/17 R0 - Testing - Water / Heating / Selection

Air Side Data		Fluid Side Data	
Air On DB (°C)	10	Fluid On (°C)	82
Air Off DB (°C)	30	Fluid Off (°C)	71
Duty (kW)		Flow Rate (l/s)	
Standard Air	Yes	Glycol (%)	EGS
Face Velocity (m/s)		Max. PD (kPa)	20
Max. PD (Pa)	30	Actual Fluid PD (kPa)	
Air Pressure Drop (Pa)			
Air Volume (m³/s)	1		

Physical Data	
Fin Material / Type	Aluminium 0.15 Rippled
Tube Diameter	12mm
Tubes High	0
Duct Height (mm)	4
Duct Width (mm)	0
Finned Density	Optimise
Circuit Type	Optimise
No. Sections	1
Surface Margin	1
No. Rows	
No. Sets Connections	
Flow / Return Connection Size	Calculate
Duty Margin	
Coil Code	

Buttons: Cooling Mode, Rating Mode, Back, Selection, Calculate

While entering your coil specifics, the SPC Online Coil Selector Software will test your inputs against a list of requirements and validation. Any issues with your coil selection that are either not possible or advised against will be highlighted in red. A short explanation will appear at the bottom of the selection to guide you through the selection. For example:

Physical Data	
Fin Material / Type	Aluminium 0.15 Rippled
Tube Diameter	12mm
Tubes High	0
Duct Height (mm)	4
Duct Width (mm)	0
Finned Density	Optimise
Circuit Type	Optimise
<p>The field Duct Height (mm) must be between 80 and 20243. The field Duct Width (mm) must be between 100 and 20000.</p>	

Trying to select a coil with a 4mm **Duct Height** is showing up a validation conflict. It is not possible to manufacture a 4mm height coil, so the red validation message gives a suggested **Duct Height/Width** range.

Physical Data	
Fin Material / Type	Aluminium 0.15 Rippled ▼
Tube Diameter	12mm ▼
Tubes High	10
Duct Height (mm)	385
Duct Width (mm)	400
Finned Density	Optimise ▼
Circuit Type	Optimise ▼

Entering a realistic **Duct Height/Width** value has bypassed the selection validation. In addition, using a 400mm **Duct Height** has rounded it to the closest optional coil size as well as automatically configuring the optional Tubes High value.

036947/17 R0 - Testing - Water / Heating / Selection

Air Side Data		Fluid Side Data	
Air On DB (°C)	10	Fluid On (°C)	82
☒ Air Off DB (°C)	30	☐ Fluid Off (°C)	
☐ Duty (kW)		☒ Flow Rate (l/s)	1
Standard Air	No ▼	Glycol (%)	EGS ▼ 0
Air Density (kg/m³)	1.21	Max. PD (kPa)	20
Face Velocity (m/s)		Actual Fluid PD (kPa)	
Max. PD (Pa)	130		
Air Pressure Drop (Pa)			
Air Volume (m³/s)	1		

Cooling Mode
Rating Mode
Back

Selection
Calculate

Physical Data	
Fin Material / Type	Aluminium 0.15 Rippled ▼
Tube Diameter	12mm ▼
Tubes High	10
Duct Height (mm)	385
Duct Width (mm)	400
Finned Density	Optimise ▼
Circuit Type	Optimise ▼
No. Sections	1
Surface Margin	1
No. Rows	
No. Sets Connections	
Flow / Return Connection Size	Calculate ▼ 1 1/2 inch ▼
Duty Margin	
Coil Code	

Once both you and the SPC Online Coil Selector Software are both happy with the coil selection, click Calculate on the right-hand side menu to finish the configuration.

036947/17 R0 - Testing - Water / Heating / Selection

Air Side Data		Fluid Side Data	
Air On DB (°C)	10	Fluid On (°C)	82
☒ Air Off DB (°C)	30	☐ Fluid Off (°C)	76
☐ Duty (kW)	24.51	☒ Flow Rate (l/s)	1
Standard Air	No	Glycol (%)	EGS
Air Density (kg/m³)	1.21	Max. PD (kPa)	20
Face Velocity (m/s)	6.49	Actual Fluid PD (kPa)	8.383
Max. PD (Pa)	130		
Air Pressure Drop (Pa)	126.2		
Air Volume (m³/s)	1		

Physical Data	
Fin Material / Type	Aluminium 0.15 Rippled
Tube Diameter	12mm
Tubes High	10
Duct Height (mm)	385
Duct Width (mm)	400
Finned Density	Optimise
Circuit Type	Optimise
No. Sections	1
Surface Margin	1
No. Rows	2
No. Sets Connections	1
Flow / Return Connection Size	Calculate
Duty Margin	1.01
Coil Code	12WF12.2-10Tx400

Buttons: Cooling Mode, Rating Mode, Back, Selection, £ Costing

SPC Online Coil Selector Software will configure the rest of the coil with the optimal inputs. As the user you're able to gloss over the software's selection to make sure you're happy with the configuration. If so, click the new button on the right-hand side menu - **Costing**.

036947/17 R0 - Testing - Water / Heating / Selection

Casing	Block
Casing Style	Standard
Casing Material	16g Galv
Drainpan	None
Casing Depth	Standard
Casing Depth (mm)	
Nutserts	☐
Thick Walled Tube	☐
Vent / Drain	☒
Test Points	☐
Blygold Coated	☐
Braze Material	Phos e
Flanges	None

Weight/Volume	Coil Code
Total Weight (kg)	
Internal Volume (litres)	
Ex Works Price	
Ref	
Qty	1
Ex Works Price (£)	

Buttons: Cooling Mode, Rating Mode, Back, Selection, £ Costing, Calculate

Lastly, you can configure the finishing touches of your coil. Once you've finished, give your coil a reference and a quantity then click on **Calculate**.

However if you feel you've missed something during the initial coil selection, click on the **Selection** button on the right-hand side menu to go back to the physical coil selection area.

036947/17 R0 - Testing - Water / Heating / Selection

Casing

Casing Style

Standard

Casing Material

16g Galv

Drainpan

Standard Flat

Drainpan Material

16g Galv

Casing Depth

Standard

Casing Depth (mm)

150

Nutserts

☐

Block

Thick Walled Tube

☐

Vent / Drain

☒

Test Points

☐

Blygold Coated

☐

Braze Material

Phos a

Flanges

None

Weight/Volume

Total Weight (kg)

12.3

Internal Volume (litres)

1.8

Coil Code

Coil Code

12WF12.2-10Tx400

Ex Works Price

Ref

Example Coil

Qty

1

Ex Works Price (£)

526

Cooling Mode

Rating Mode

Back

Selection

Costing

Calculate

Save

Once you've double checked the finishing selection details, reference and cost, click on the **Save** button to add the coil to your quote.

036947/17 R0 - Testing

Ref	Qty	Coil Code	Casing Style	Price Each Inc Carriage (£)	Total Price (£)
Example Coil	1	12WF12.2-10Tx400	Standard (45mm Flange)	526	526

Add

Quote

BIM

My Projects

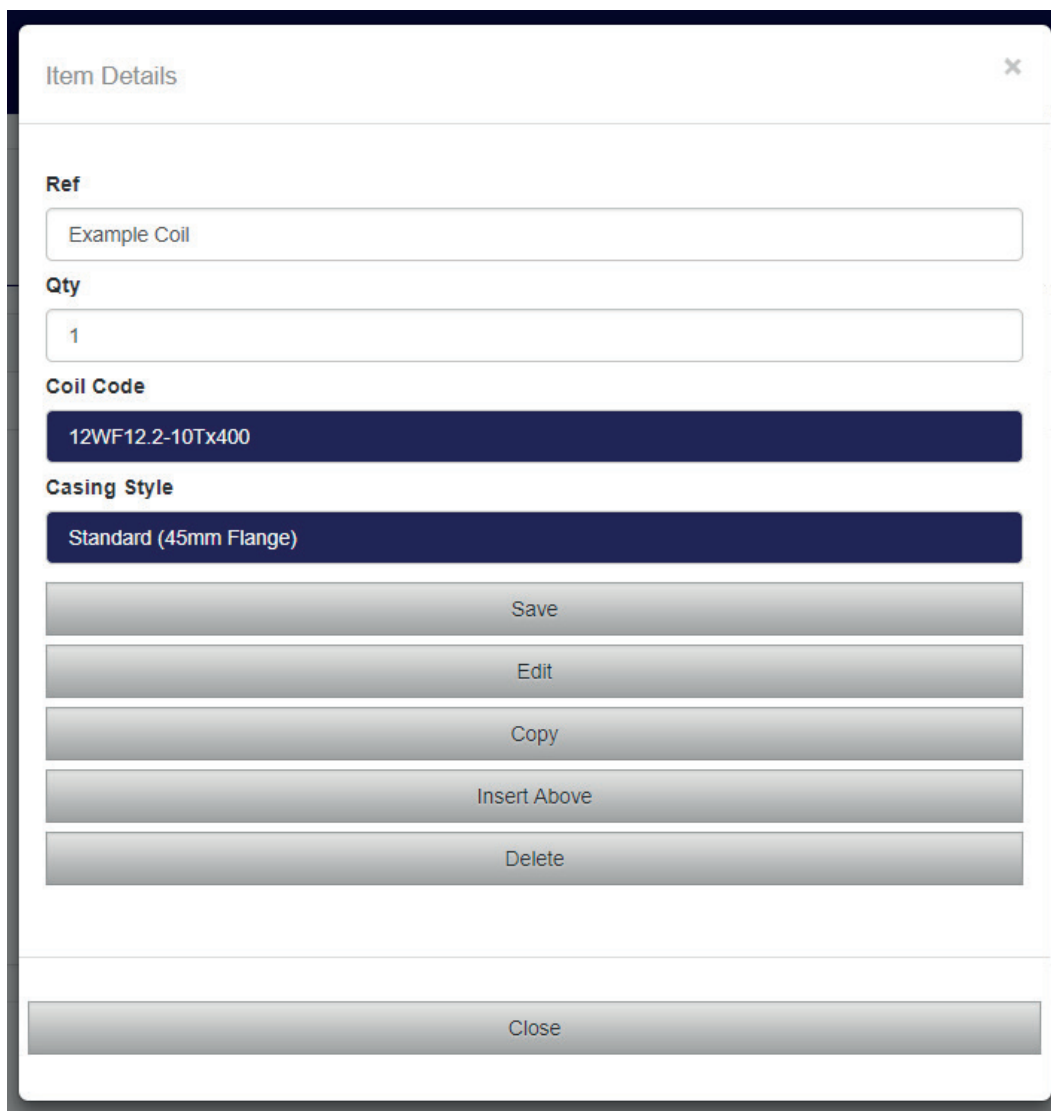
Project Information

Total Selling Price (£)

526

After the coil has been saved, you'll be redirected to your quotation overall view. The new coil has been added to your selection list displaying a few key columns of information as well as the cost being added to your quote value.

From here you can also interact with your previously selected coils:



The image shows a dialog box titled "Item Details" with a close button (X) in the top right corner. The dialog contains several input fields and buttons. The "Ref" field has the text "Example Coil". The "Qty" field has the number "1". The "Coil Code" field has the text "12WF12.2-10Tx400". The "Casing Style" field has the text "Standard (45mm Flange)". Below these fields are five buttons: "Save", "Edit", "Copy", "Insert Above", and "Delete". At the bottom of the dialog is a "Close" button.

Field/Action	Value/Label
Ref	Example Coil
Qty	1
Coil Code	12WF12.2-10Tx400
Casing Style	Standard (45mm Flange)
Buttons	Save, Edit, Copy, Insert Above, Delete, Close

- **Save** - Change coil Reference and Quantity then save the changes.
- **Edit** - Edit the coils selection and recalculate the coils configurations.
- **Copy** - Duplicate coil. Useful when selecting multiple similar coils.
- **Insert Above** - Insert another coil above the selected.
- **Delete** - Removes coil from quote. Coils cannot be recovered once deleted.
- **Close** - Closes the dialog box.

Creating Quote

With all of your coils selected you can click on the **Quote** button on the right-hand side menu.

036947/17 R0 - Testing

View

Back

Quote Selection

Quote Format

Pdf

Quote Type

Normal

All quotes are only available for download in a PDF format. You can however check the quote type. After selecting your quote type, click **View** to download the PDF. If you are using Google Chrome, Google Chrome will act as a PDF viewer if you do not have one installed.

037659/17 R0 - Testing

View

Back

Quote Selection

Quote Format

Pdf

Quote Type

Normal

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BIM Objects

All coils selected using the SPC Online Coil Selector Software will have a corresponding set of BIM Objects ready to insert into a Revit Model. Navigating back to your quote overview, with at least one coil selected click on the **BIM** button on the right-hand side menu:

036947/17 R0 - Testing

Ref	Qty	Coil Code	Casing Style	Price Each Inc Carriage (£)	Total Price (£)
Example Coil	1	12WF12.2-10Tx400	Standard (45mm Flange)	476	476
Example Coil	1	12WF12.2-10Tx400	Standard (45mm Flange)	476	476

Add
Quote
BIM
My Projects

Project Information
Total Selling Price (£)
952

During our example we've only selected one type of coil - Standard Water Coil.

036947/17 R0 - Testing - BIM

BIM Object	Type Catalog Parameter File (.txt)	BIM Object (.rfa)
Standard Water	Type Catalog Parameter File (.txt)	https://www.bimstore.co.uk/bim/standard-water-coil-heat-exchanger-range

Back

On this view you'll see two download links. One for the Type Catalogue (.txt) and the other being a raw Revit file (.rfa).

Download each of these files by following the links. The .txt file will download from the SPC Online Coil Selection Software, however the .rfa Revit download link will redirect you to the BIMStore.



Standard Water Coil Heat Exchanger Range

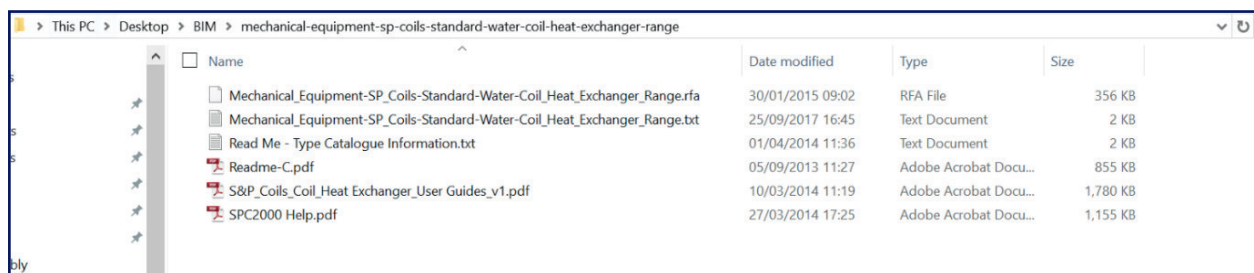
MANUFACTURER: S & P Coil Products Limited
MODEL: Standard Water Coil Heat Exchanger Range
REVISION: 2
CI/SFB CODE: (56)
UNICLASS: 90-45-50/340
OMNICLASS: 23.75.70.21.14
WEBSITE: www.spc coils.co.uk
SOFTWARE: revit 2013
LAST UPDATED: 30 Jan 2015
EMBED: [Click to get code](#)



 2,465
 5 out of 5

Download BIM
Add to BIM Box

Please note when trying to insert the Revit model into your version of Autodesk both files need to be in the same file directory:



An easy way to do this is extract the files from BIMStore's .zip file, then drag and drop the SPC .txt file into the extracted BIMStore folder.

For a short walk through of inserting a BIM model into a Revit Model, click on the following link <https://youtu.be/UuxRqWCmB0w>.



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