

Using SFH Metric Conversions

SFH User Documentation

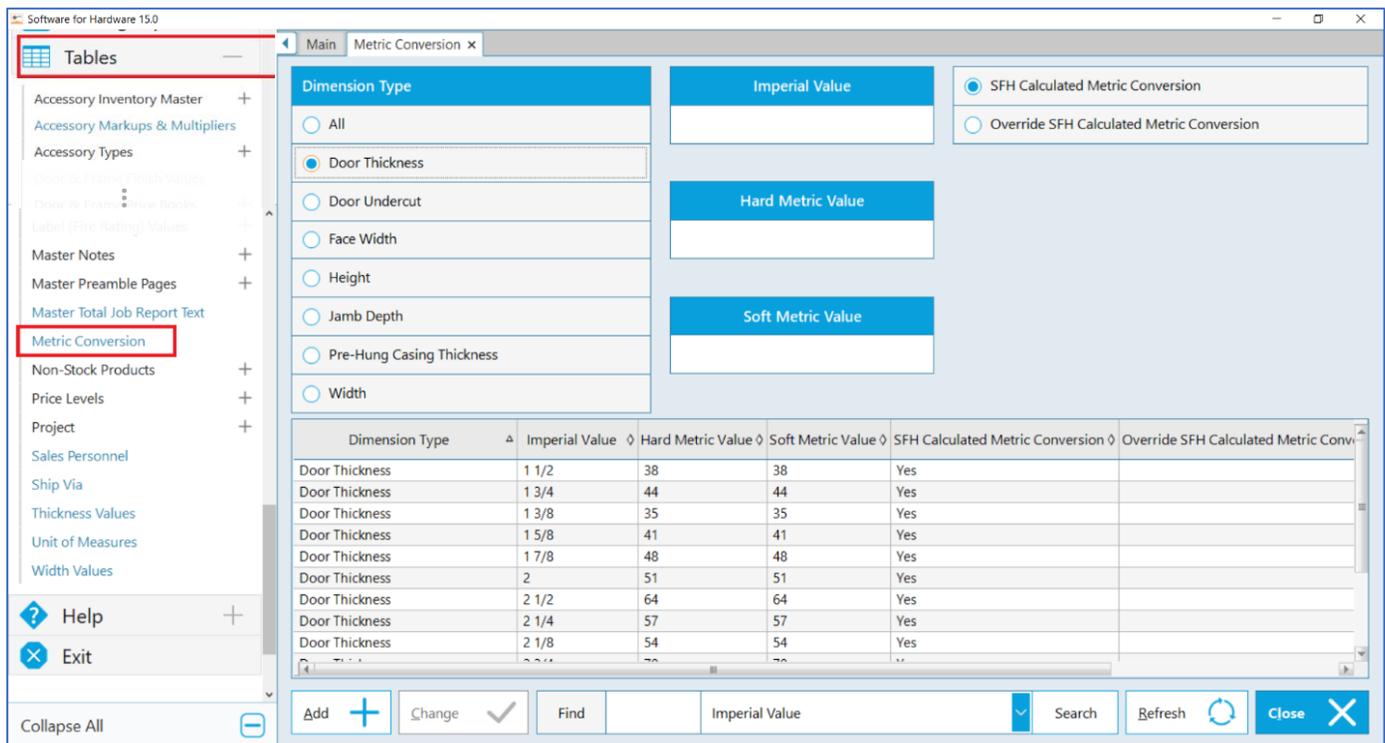
I. Overview

Software for Hardware has supported both Imperial and Metric dimensions for many years. In early 2023, the conversion process between Metric and Imperial values underwent some new development in order to improve accuracy and adhere to industry standards for rounding. A conversion table was created to achieve this, so that, instead of doing a direct mathematical calculation, SFH would now refer to this table to map an Imperial value to metric or vice versa.

We recently have come to recognize that many of our customers have their own conventions and therefore may not use the exact same conversions that we provided. For this reason, an additional feature has been added to the conversion process. SFH users now have the ability to view and modify the metric conversion table to suit their own needs.

II. Viewing the Metric Conversions Table

You can now access the conversion table from **Tables > Metric Conversion**:



Dimension Type	Imperial Value	Hard Metric Value	Soft Metric Value	SFH Calculated Metric Conversion	Override SFH Calculated Metric Conversion
Door Thickness	1 1/2	38	38	Yes	
Door Thickness	1 3/4	44	44	Yes	
Door Thickness	1 3/8	35	35	Yes	
Door Thickness	1 5/8	41	41	Yes	
Door Thickness	1 7/8	48	48	Yes	
Door Thickness	2	51	51	Yes	
Door Thickness	2 1/2	64	64	Yes	
Door Thickness	2 1/4	57	57	Yes	
Door Thickness	2 1/8	54	54	Yes	

This screen will show you the list of metric conversions, filtering by **Door Thickness** by default. You can select other dimension types or select “All” to filter the list accordingly. Each row in the table represents a conversion (or mapping) between Imperial and Metric and has the following properties:

- **Dimension Type:** The type of dimension that this specific conversion will apply to.
- **Imperial Value:** The imperial dimension value of this conversion.

- **Hard Metric Value:** The hard metric dimension value of this conversion.
- **Soft Metric Value:** The soft metric dimension value of this conversion.
- **SFH Calculated Metric Conversion:** Whether or not this is one of SFH’s default conversions we have provided.
- **Override SFH Calculated Metric Conversion:** Whether or not your company has created or changed this conversion manually. This will always have the opposite value of the previous property, since each conversion is either a default SFH or one created by your company.

You can use the **Find** box at the bottom of the screen to search for any string of text in the column you specify. For example, you can search for all conversions with an **Imperial Value** containing “1/2”.

The screenshot shows a software window titled 'Metric Conversion'. On the left, there is a 'Dimension Type' sidebar with radio buttons for 'All', 'Door Thickness', 'Door Undercut', 'Face Width', 'Height', 'Jamb Depth', 'Pre-Hung Casing Thickness', and 'Width'. The 'All' option is selected. In the center, there are three input fields labeled 'Imperial Value', 'Hard Metric Value', and 'Soft Metric Value'. On the right, there are two radio buttons: 'SFH Calculated Metric Conversion' (selected) and 'Override SFH Calculated Metric Conversion'. Below these is a table with the following data:

Dimension Type	Imperial Value	Hard Metric Value	Soft Metric Value	SFH Calculated Metric Conversion	Override SFH Calculated Metric Conversion
Door Thickness	1 1/2	38	38	Yes	
Door Thickness	2 1/2	64	64	Yes	
Door Undercut	1 1/2	38	38	Yes	
Door Undercut	1/2	13	13	Yes	
Face Width	1 1/2	38	38	Yes	
Face Width	10 1/2	267	267	Yes	
Face Width	11 1/2	292	292	Yes	
Face Width	12 1/2	318	318	Yes	
Face Width	13 1/2	343	343	Yes	

At the bottom of the window, there is a search bar with a 'Find' button, a dropdown menu set to 'Imperial Value', and a 'Search' button. The search bar contains the text '1/2'. Other buttons include 'Add', 'Change', 'Refresh', and 'Close'.

III. How the Conversions Work

Under the covers, SFH uses this table to convert values in project and orders between Imperial and Metric values. Anytime that an Imperial dimension needs to be converted into Metric, it will search for the Imperial value in the conversions table and return the matching Hard/Soft Metric Value. Conversely, any time that a Metric dimension needs to be converted into Imperial, it will search for the Hard/Soft Metric Value in the table and return the matching Imperial value. This most often happens when you manually switch between Imperial and Metric dimensions inside of a job, sales order, change order, purchase order, or packing slip.

IV. Modifying the Metric Conversions Table

You can make your own modifications to the metric conversions table to suit your company's needs. However, a word of caution: any changes you make here will affect **ALL new and existing projects and orders** for **ALL users** in SFH.

A. Adding New Conversions

To **add** a new conversion, make sure to select the applicable **Dimension Type**, then input the **Imperial Value** and the matching **Hard Metric Value** and **Soft Metric Value**, then click **Add**. The following example will ensure that all face width values of 1' 1/16" will map to 27mm for both hard and soft metrics and that 27mm will map back to 1' 1/16".

Dimension Type	Imperial Value	Hard Metric Value	Soft Metric Value	SFH Calculated Metric Conversion	Override SFH Calculated Metric Conversion
Face Width	0-10	254	254	Yes	
Face Width	0-11	279	279	Yes	
Face Width	1	25	25	Yes	
Face Width	1 1/2	38	38	Yes	
Face Width	1 1/4	32	32	Yes	
Face Width	1 1/8	29	29	Yes	
Face Width	1 3/4	44	44	Yes	
Face Width	1 3/8	35	35	Yes	
Face Width	1 5/8	41	41	Yes	
Face Width	1 7/8	48	48	Yes	
Face Width	1-0	305	305	Yes	
Face Width	10 1/2	267	267	Yes	
Face Width	10 1/4	260	260	Yes	

Dimension Type	Imperial Value	Hard Metric Value	Soft Metric Value	SFH Calculated Metric Conversion	Override SFH Calculated Metric Conversion
Face Width	0-10	254	254	Yes	
Face Width	0-11	279	279	Yes	
Face Width	1	25	25	Yes	
Face Width	1 1/16	27	27	Yes	Yes
Face Width	1 1/2	38	38	Yes	
Face Width	1 1/4	32	32	Yes	
Face Width	1 1/8	29	29	Yes	
Face Width	1 3/4	44	44	Yes	
Face Width	1 3/8	35	35	Yes	
Face Width	1 5/8	41	41	Yes	
Face Width	1 7/8	48	48	Yes	
Face Width	1-0	305	305	Yes	
Face Width	10 1/2	267	267	Yes	
Face Width	10 1/4	260	260	Yes	

B. Changing Conversions

To **change** a conversion, simply select it from the table, modify one or more of the numerical values, and click **Change**. SFH will automatically select the **Override SFH Calculated Metric Conversion** option for you once you begin making changes. The following example will cause all door undercut values of 1 1/2" to map to 37mm in hard metric but still use the default 38mm when mapping to soft metric.

Dimension Type

All

Door Thickness

Door Undercut

Face Width

Height

Jamb Depth

Pre-Hung Casing Thickness

Width

Imperial Value

1 1/2

Hard Metric Value

37

Soft Metric Value

38

SFH Calculated Metric Conversion

Override SFH Calculated Metric Conversion

Dimension Type	Imperial Value	Hard Metric Value	Soft Metric Value	SFH Calculated Metric Conversion	Override SFH Calculated Metric Conversion
Door Undercut	1	25	25	Yes	
Door Undercut	1 1/2	38	38	Yes	
Door Undercut	1 1/4	32	32	Yes	
Door Undercut	1 1/8	29	29	Yes	
Door Undercut	1 3/4	44	44	Yes	
Door Undercut	1 3/8	35	35	Yes	
Door Undercut	1 5/8	41	41	Yes	
Door Undercut	1 7/8	48	48	Yes	
Door Undercut	1/2	13	13	Yes	
Door Undercut	1/4	6	6	Yes	
Door Undercut	1/8	3	3	Yes	
Door Undercut	2	51	51	Yes	
Door Undercut	3	25	26		Yes

Add +

Change ✓

Find

Imperial Value

Search

Refresh ↻

Close ✕

Dimension Type	Imperial Value	Hard Metric Value	Soft Metric Value	SFH Calculated Metric Conversion	Override SFH Calculated Metric Conversion
Door Undercut	1	25	25	Yes	
Door Undercut	1 1/2	37	38		Yes
Door Undercut	1 1/4	32	32	Yes	
Door Undercut	1 1/8	29	29	Yes	
Door Undercut	1 3/4	44	44	Yes	
Door Undercut	1 3/8	35	35	Yes	
Door Undercut	1 5/8	41	41	Yes	
Door Undercut	1 7/8	48	48	Yes	
Door Undercut	1/2	13	13	Yes	
Door Undercut	1/4	6	6	Yes	
Door Undercut	1/8	3	3	Yes	
Door Undercut	2	51	51	Yes	
Door Undercut	3	25	26		Yes

When adding or changing a conversion:

- You cannot change the **Dimension Type** of an existing conversion. For this reason, when you select a row in the table, the dimension type options will be disabled. To re-enable them, you must click **Refresh**, which will clear all fields, deselect the row, and refresh the data in the table.
- Validations are implemented to check the validity of every dimension value. If you attempt to input an invalid dimension, SFH will display a message and will not save the conversion.

- Duplicate *Imperial* values **are not** allowed. If you attempt to save a conversion with an Imperial value that already exists in the database for that dimension type, SFH will display a message and prevent you from saving the conversion.
- Duplicate *Metric* values **are** allowed. This allows you to map different Imperial values to the same Metric value(s), if you wish.

C. Reverting Back to Default

To revert an overridden conversion back to SFH’s default values, first select it from the table. Then, choose the **SFH Calculated Metric Conversion** option. This will bring up a popup window asking you to confirm. Once you select “Yes”, the values in the three dimension boxes will change back to the defaults in SFH. **You must then click *Change* to confirm the reversion.**

The screenshot shows the 'Metric Conversion' window with the following elements:

- Dimension Type:** Radio buttons for All, Door Thickness, Door Undercut (selected), Face Width, Height, Jamb Depth, Pre-Hung Casing Thickness, and Width.
- Imperial Value:** Input field containing '1/4'.
- Hard Metric Value:** Input field containing '6'.
- Soft Metric Value:** Input field (empty).
- Options:** Radio buttons for 'SFH Calculated Metric Conversion' (selected, marked with a red '1') and 'Override SFH Calculated Metric Conversion'.
- Revert Popup:** A small dialog box with a warning icon and the text 'Revert to original metric values for this conversion?' with 'Yes' and 'No' buttons (marked with a red '2').
- Table:** A table with columns: Dimension Type, Imperial Value, Hard Metric, Soft Metric, Conversion, and Override SFH Calculated Metric Conversion. The second row is highlighted in orange.
- Bottom Bar:** Buttons for Add (+), Change (marked with a red '3'), Find, Imperial Value dropdown, Search, Refresh, and Close (X).

NOTE: After confirming the popup, if you do anything else on the screen like clicking the refresh button or selecting a different dimension type *before* clicking **Change**, nothing will be saved!

Finally, it’s worth pointing out that reverting only applies to conversions in the table that were originally created by SFH but later changed by someone in your company. Conversions that you manually create from scratch in this table cannot be reverted because SFH has no default values for them. If you select a row that was manually created and then choose the **SFH Calculated Metric Conversion** option, SFH will bring up a popup telling you that there is no default value for the currently selected conversion.

DON'T FORGET: Changes that you make in the metric conversions table will affect **ALL new and existing projects and orders for ALL users** in *Software for Hardware*.

V. Auto-Calculated Mappings

If a match is not found when SFH needs to perform a conversion, a new conversion will be automatically created by calculating the matching values mathematically. This new conversion will then show up in the metric conversions table. For example, if you are working in a contract job and you input a new Imperial value that does not yet exist in the conversions table, SFH will go ahead and create its equivalent hard and soft metric values, then add it to the metric conversion table. This conversion can later be changed in the table like any other.

VI. Duplicate Metric Values

As noted earlier, you can create multiple conversions that share the same Soft and/or Hard Metric values. When converting back from these Metric values to Imperial, SFH will automatically select the first one in the list (the smaller value). For example, let's say you create two Height conversions (11' and 11'1/16") that both map to a Hard Metric Value of 279. Let's say you are working in a job that is set to use Hard Metric and contains some face widths with a value of 279. If you were to convert the job back into Imperial, SFH would convert all face widths with a value of 279 into 11' because this one comes first in the list.

Dimension Type	Imperial Value	Hard Metric Value	Soft Metric Value	SFH Calculated Metric Conversion	Override SFH Calculated Metric Conversion
Face Width	11	279	279	Yes	
Face Width	11 1/16	279	283		Yes