

**FOCUS
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**Sheet Metal Thickness
And Material in
CUSTOMTOOLS**

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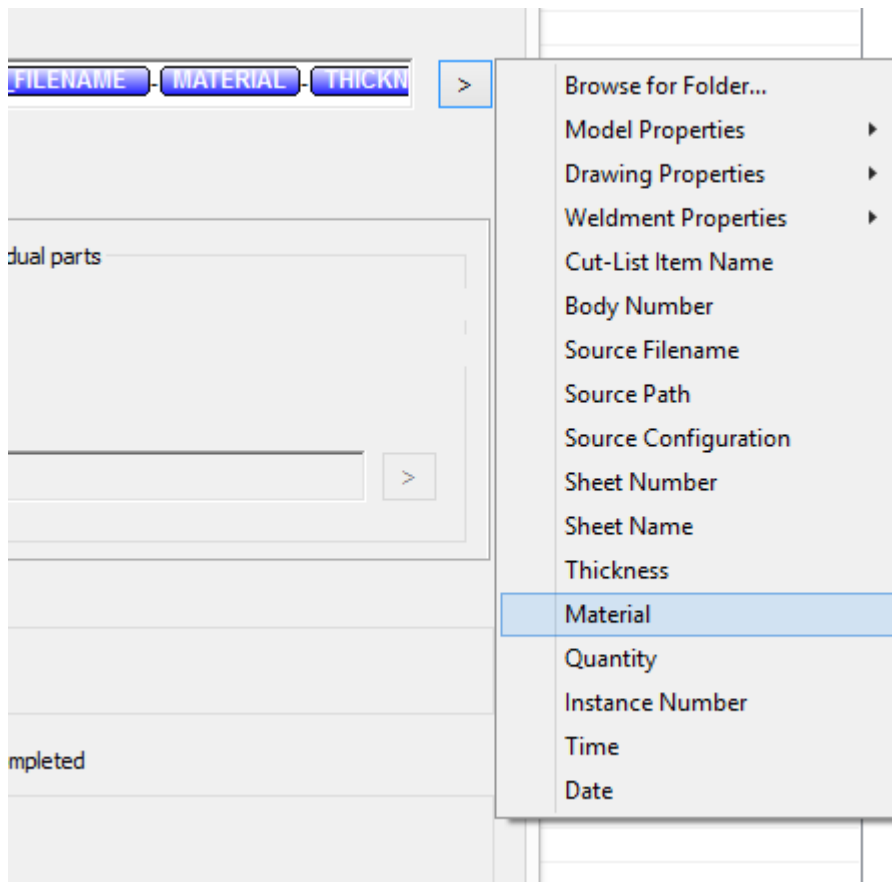


CUSTOMTOOLS

The purpose of this document is to clarify how CUSTOMTOOLS resolves material and thickness in file conversion e.g. when converting models to DXF files.

Material

It's safe to use material in output folder even when working with multi-body parts. CUSTOMTOOLS first reads material from body and if that's not defined then material assigned to model is used.

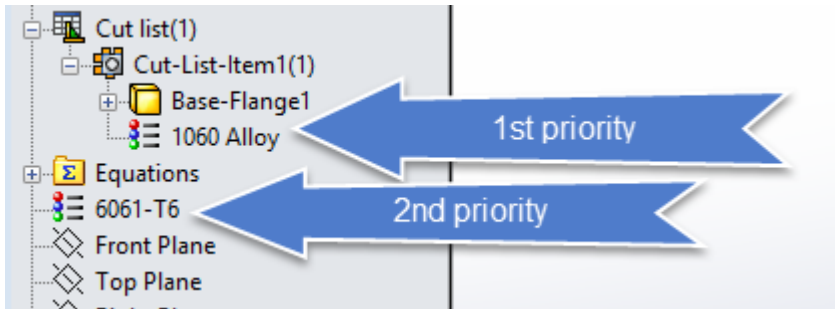


In the settings

During conversion:



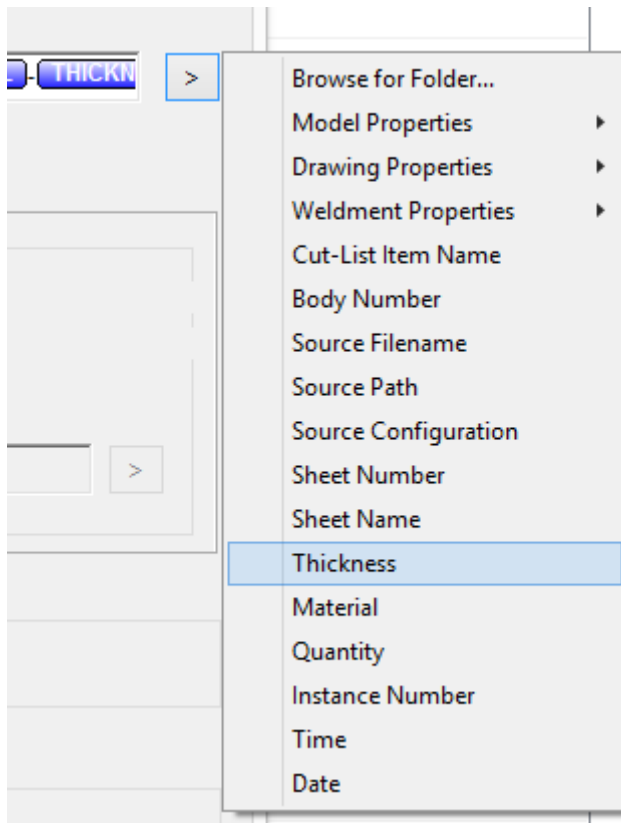
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In this case 1060 Alloy would be used as value for material in the output file.

Thickness

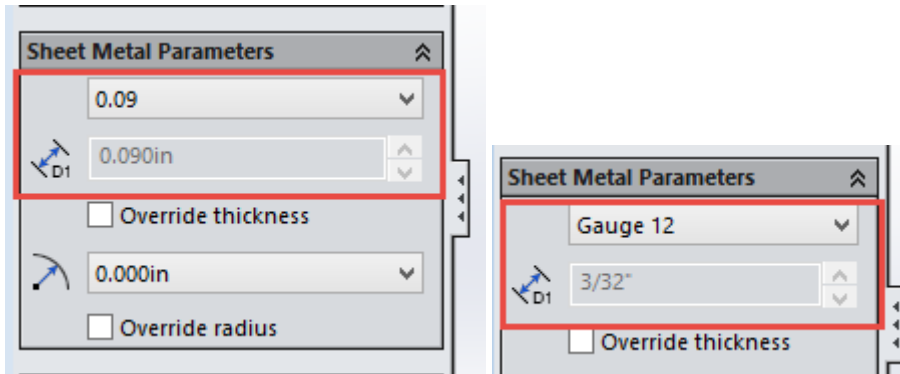
Thickness is read from Sheet Metal Parameters. In the settings thickness is defined as follows



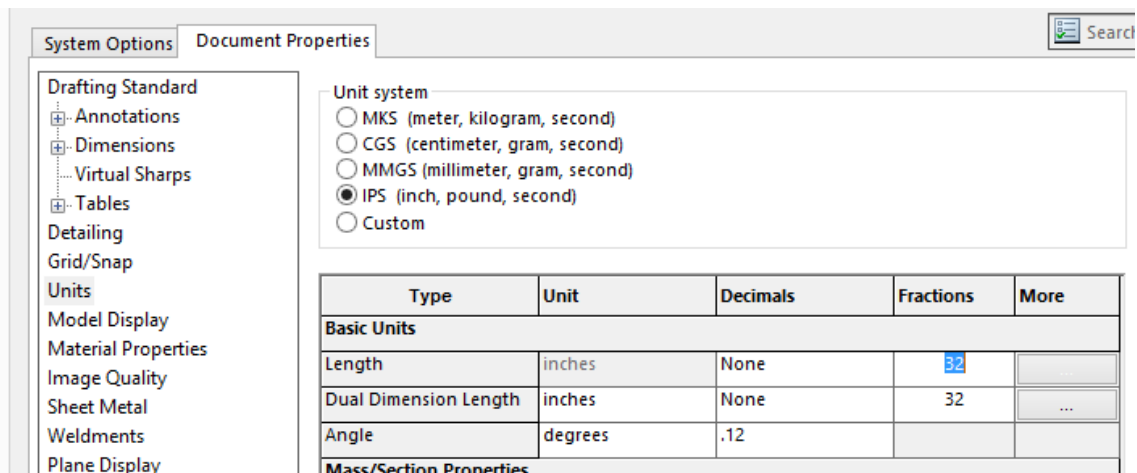
And during conversion it's read from **Sheet Metal Parameters**.



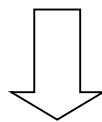
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When thickness is used in output filename it's always presented as decimal number as slash in fractional number can't be used in filename. The unit in which value is presented is determined by source model document properties as well number of decimals. Thickness value is rounded (not truncated) per number of decimals. Trailing zeros are never displayed. Decimal separator is always a dot (.) and unit is not included.



When using fractions you won't see decimals before clicking **None** in **Decimals**.





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System Options | Document Properties

1

Drafting Standard

- Annotations
- Dimensions
- Virtual Sharps
- Tables
- Detailing
- Grid/Snap
- Units
- Model Display
- Material Properties
- Image Quality
- Sheet Metal
- Weldments
- Plane Display
- DimXpert
- Size Dimension

Unit system

- MKS (meter, kilogram, second)
- CGS (centimeter, gram, second)
- MMGS (millimeter, gram, second)
- IPS (inch, pound, second)
- Custom

Type	Unit	Decimals	Fractions
Basic Units			
Length	inches	.12	
Dual Dimension Length	inches	.12	32
Angle	degrees	.1234	
Mass/Section Properties			
Length	inches	.1234567	

2

3

In this case you would have prevision of two decimals. You can change the value and then after clicking **Fractions** cell again **Decimals** become *None* and fractions shows the current value but SOLIDWORKS will save **Decimals** value nevertheless.