

Cut List Properties Training

Cut List Properties_Training.zip



Cut List Properties - Overview

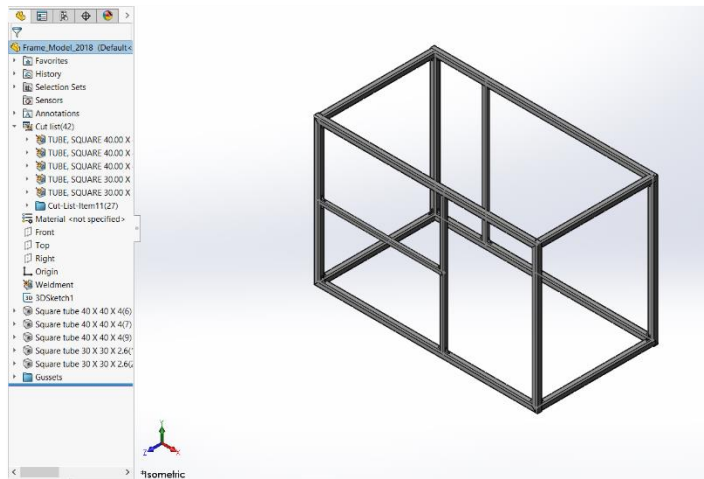
Main Functions

- The items for Cut List Property are automatically analyzed at once
- Properties for Cut List are activated or deleted for multiple items
- Help users to easily edit properties of body in various type

Benefits

- Save time by batch editing properties for cut list.
- Existing properties can be easily managed by deleting unnecessary properties
- Useful to integrate design data

Course Objective: Follow instructions through the course and learn how to use Cut List Properties.



Cut-List Properties

Cut List Summary Properties Summary Cut List Table

Delete ☐ Exclude from cut list BOM quantity: LENGTH Edit List

	Property Name	Type	Value / Text Expression	Evaluated Value	<input checked="" type="checkbox"/>	
1	LENGTH	Text	"LENGTH@@@TUBE, SQUARE 40.00 X 40.00 X 4.00<	1540	<input checked="" type="checkbox"/>	
2	ANGLE1	Text	"ANGLE1@@@TUBE, SQUARE 40.00 X 40.00 X 4.00<	45°	<input checked="" type="checkbox"/>	
3	ANGLE2	Text	"ANGLE2@@@TUBE, SQUARE 40.00 X 40.00 X 4.00<	45°	<input checked="" type="checkbox"/>	
4	DESCRIPTION	Text	Description	Description	<input type="checkbox"/>	
5	MATERIAL	Text	"SW-Material@@@TUBE, SQUARE 40.00 X 40.00 X 4.00	Material <not specified>	<input checked="" type="checkbox"/>	
6	QUANTITY	Text	"QUANTITY@@@TUBE, SQUARE 40.00 X 40.00 X 4.00	4	<input checked="" type="checkbox"/>	
7	TOTAL LENGTH	Text	"TOTAL LENGTH@@@TUBE, SQUARE 40.00 X 40.00	13400	<input checked="" type="checkbox"/>	
8	Designer	Text			<input type="checkbox"/>	
9	<Type a new property>				<input type="checkbox"/>	

Cut List Properties

Add new property

Cut list name	LENGTH	ANGLE1	ANGLE2	DESCRIPTION
TUBE, SQUARE 40.00 X...	"LENGTH@@@...	"ANGLE1@@@T...	"ANGLE2@@@T...	Description
TUBE, SQUARE 40.00 X...	"LENGTH@@@...	"ANGLE1@@@T...	"ANGLE2@@@T...	TUBE, SQUARE
TUBE, SQUARE 40.00 X...	"LENGTH@@@...	"ANGLE1@@@T...	"ANGLE2@@@T...	TUBE, SQUARE
TUBE, SQUARE 30.00 X...	"LENGTH@@@...	"ANGLE1@@@T...	"ANGLE2@@@T...	TUBE, SQUARE
TUBE, SQUARE 30.00 X...	"LENGTH@@@...	"ANGLE1@@@T...	"ANGLE2@@@T...	TUBE, SQUARE
Cut-List-Item11				

Property Applied

Apply

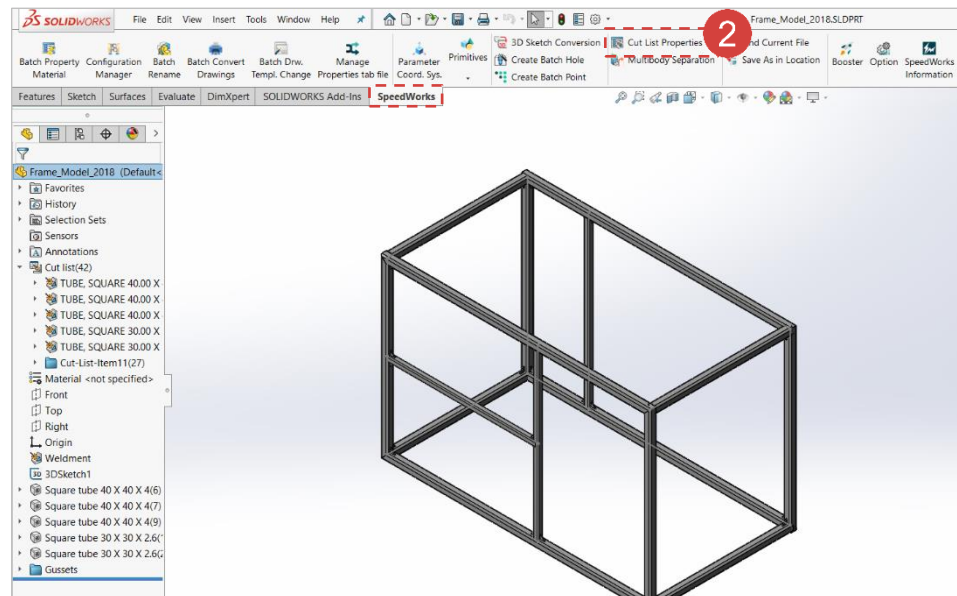
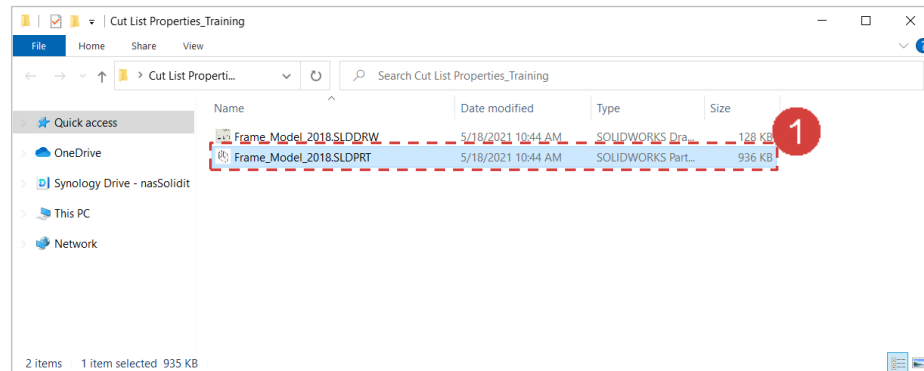
Close

Cut List Properties - Execute

Work on the part with the red circle (1) following instructions by yourself.
The part with the black square (1) is an additional explanation or a reference.

1 Execute **Frame_Model_2018.SLDPRT** file among example files.

2 Click **[SpeedWorks]**tab – **[Cut List Properties]** to run the tool.

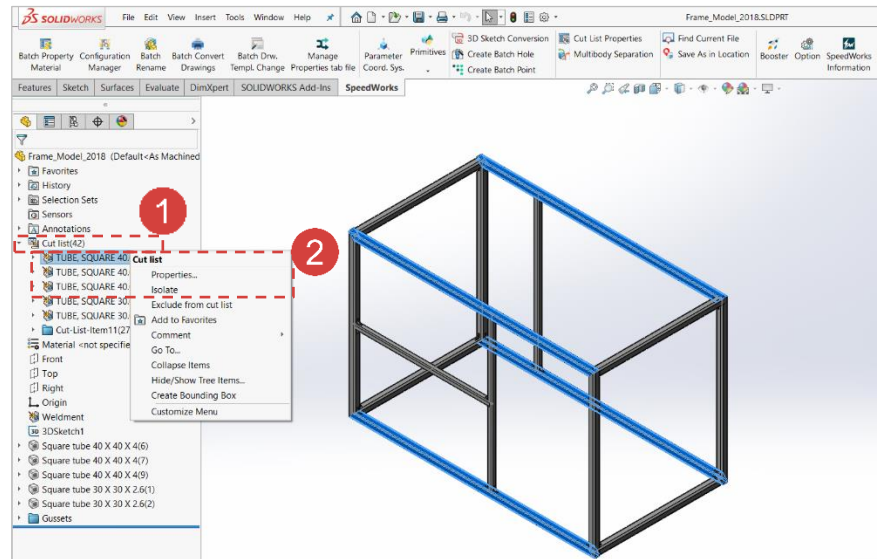


※ You can download example files at Support page in SpeedWorks Homepage(<http://speedworks.info>).

Cut List Properties - Composition

Work on the part with the red circle (1) following instructions by yourself.
The part with the black square (1) is an additional explanation or a reference.

- 1 Click '►' button to expand the tree items of cut list.
- 2 Select and right-click **TUBE,SQUARE 40.00x40.00x4.00<6>**, and click 'Properties...' button.
- 3 Compare property names of cut list provided by SOLIDWORKS to [Cut List Properties] in SpeedWorks.



Cut-List Properties

Cut List Summary | Properties Summary | Cut List Table

Delete ☐ Exclude from cut list BOM quantity: LENGTH Edit List

	Property Name	Type	Value / Text Expression	Evaluated Value	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1	LENGTH	Text	"LENGTH@TUBE, SQUARE 40.00 X 40.00 X 4.00 <6>	1540	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	ANGLE1	Text	"ANGLE1@TUBE, SQUARE 40.00 X 40.00 X 4.00 <6>	45°	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	ANGLE2	Text	"ANGLE2@TUBE, SQUARE 40.00 X 40.00 X 4.00 <6>	45°	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	DESCRIPTION	Text	TUBE, SQUARE "Jeg@Square tube 40 X 40 X 4@fr	TUBE, SQUARE 40.00 X 40.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	MATERIAL	Text	"SW-Material@TUBE, SQUARE 40.00 X 40.00 X 4.0	Material <not specified>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	QUANTITY	Text	"QUANTITY@TUBE, SQUARE 40.00 X 40.00 X 4.00	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7	TOTAL LENGTH	Text	"TOTAL LENGTH@TUBE, SQUARE 40.00 X 40.00 X	15400	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8	<-Type a new property>					

Cut List Properties

Add new property

Cut list name	LENGTH	ANGLE1	ANGLE2	DESCRIPTION
TUBE, SQUARE 40.00 X...	"LENGTH@TUBE, SQUARE 40.00 X 40.00 X 4.00 <6>	"ANGLE1@TUBE, SQUARE 40.00 X 40.00 X 4.00 <6>	"ANGLE2@TUBE, SQUARE 40.00 X 40.00 X 4.00 <6>	TUBE, SQUARE 40.00 X 40.00
TUBE, SQUARE 40.00 X...	"LENGTH@TUBE, SQUARE 40.00 X 40.00 X 4.00 <6>	"ANGLE1@TUBE, SQUARE 40.00 X 40.00 X 4.00 <6>	"ANGLE2@TUBE, SQUARE 40.00 X 40.00 X 4.00 <6>	TUBE, SQUARE 40.00 X 40.00
TUBE, SQUARE 40.00 X...	"LENGTH@TUBE, SQUARE 40.00 X 40.00 X 4.00 <6>	"ANGLE1@TUBE, SQUARE 40.00 X 40.00 X 4.00 <6>	"ANGLE2@TUBE, SQUARE 40.00 X 40.00 X 4.00 <6>	TUBE, SQUARE 40.00 X 40.00
TUBE, SQUARE 30.00 X...	"LENGTH@TUBE, SQUARE 30.00 X 30.00 X 2.60 <1>	"ANGLE1@TUBE, SQUARE 30.00 X 30.00 X 2.60 <1>	"ANGLE2@TUBE, SQUARE 30.00 X 30.00 X 2.60 <1>	TUBE, SQUARE 30.00 X 30.00
TUBE, SQUARE 30.00 X...	"LENGTH@TUBE, SQUARE 30.00 X 30.00 X 2.60 <1>	"ANGLE1@TUBE, SQUARE 30.00 X 30.00 X 2.60 <1>	"ANGLE2@TUBE, SQUARE 30.00 X 30.00 X 2.60 <1>	TUBE, SQUARE 30.00 X 30.00
Cut-List-Item11				

Finished loading Cut list properties

Apply Close

Cut List Properties - Edit Property

Work on the part with the red circle (1) following instructions by yourself.
The part with the black square (1) is an additional explanation or a reference.

- 1 Double-click first cell of **[Description]** column and enter '**Description**'.

Cut List Properties

Add new property

	LENGTH	ANGLE1	ANGLE2	DESCRIPTION	MATERIAL
E 40.00 X...	"LENGTH@@@...	"ANGLE1@@@T...	"ANGLE2@@@T...	Description	"SW-Mate
E 40.00 X...	"LENGTH@@@...	"ANGLE1@@@T...	"ANGLE2@@@T...	TUBE, SQUARE "	"SW-Mate
E 40.00 X...	"LENGTH@@@...	"ANGLE1@@@T...	"ANGLE2@@@T...	TUBE, SQUARE "	"SW-Mate
E 30.00 X...	"LENGTH@@@...	"ANGLE1@@@T...	"ANGLE2@@@T...	TUBE, SQUARE "	"SW-Mate
E 30.00 X...	"LENGTH@@@...	"ANGLE1@@@T...	"ANGLE2@@@T...	TUBE, SQUARE "	"SW-Mate
1					"SW-Mate

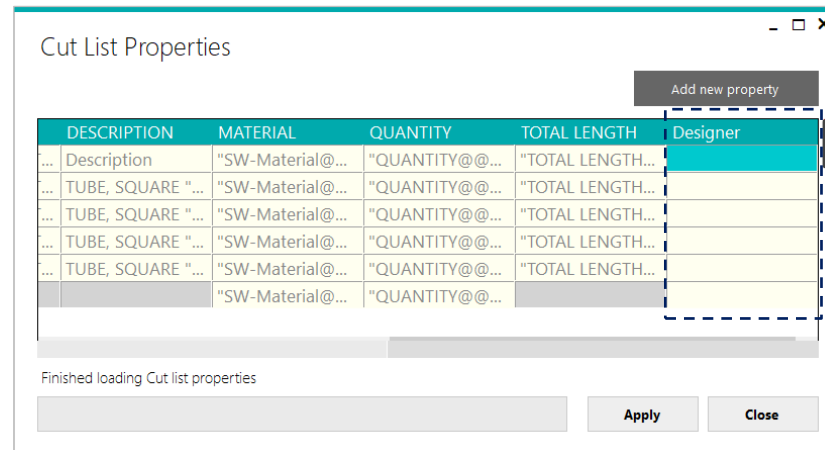
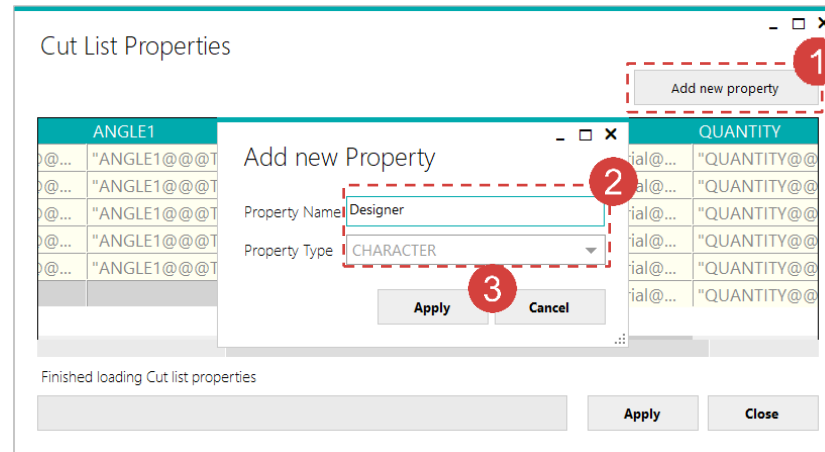
Finished loading Cut list properties

Apply Close

Cut List Properties - Add New Property

Work on the part with the red circle (1) following instructions by yourself.
The part with the black square (1) is an additional explanation or a reference.

- 1 Click **[Add new property]** button.
- 2 Property Name: **'Designer'** , Property Type: **'Character'**
- 3 Click **[Apply]** button.

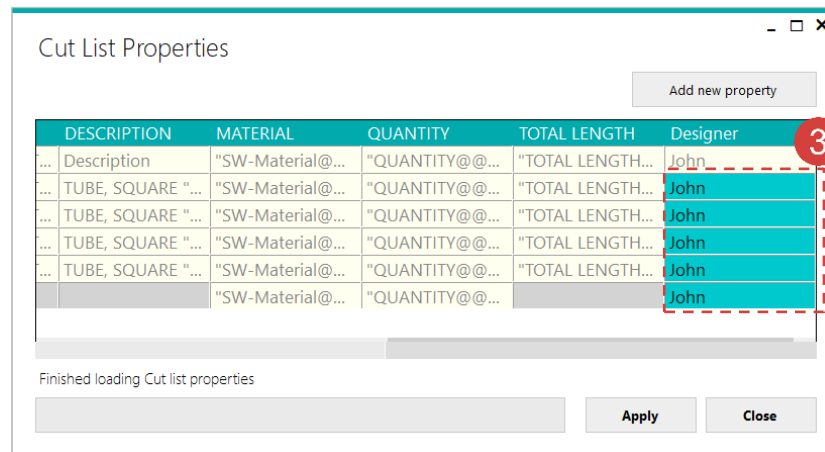
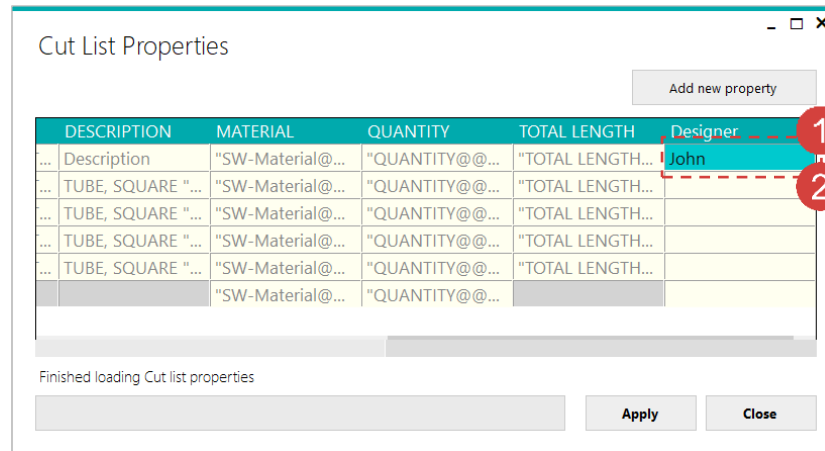


- 1 **[Designer]** property has been added.

Cut List Properties - Property Value Copy/Paste

Work on the part with the red circle (1) following instructions by yourself.
The part with the black square (1) is an additional explanation or a reference.

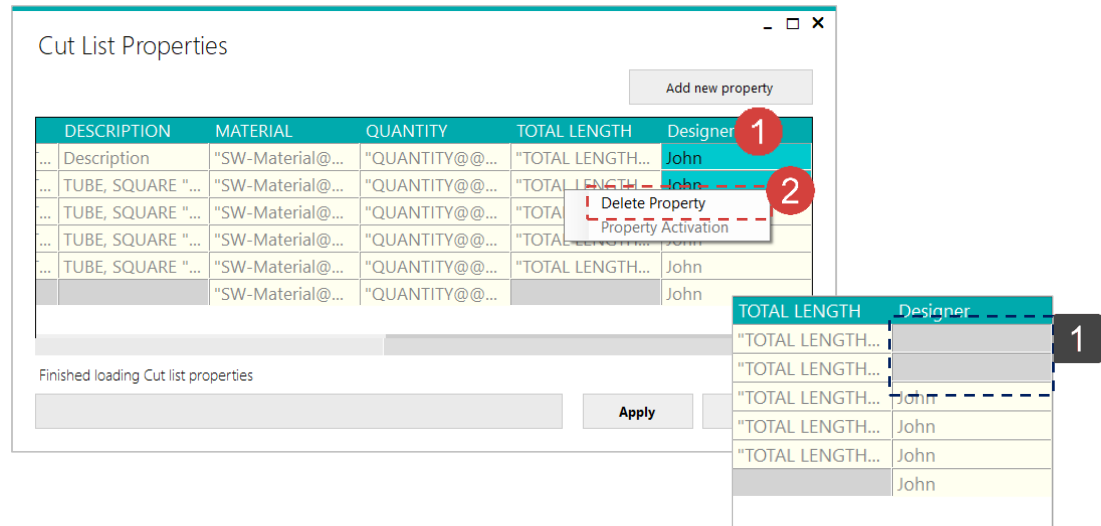
- 1 Enter 'John' into the first cell of [Designer].
- 2 Copy the value by pressing [Control + C] key.
- 3 Select other cells to paste copied value. In this example, select the rest of cells in column. In this example, select the rest of cells in column except the first row in selected column. After selecting the cells, paste copied value by pressing [Control + V] key.



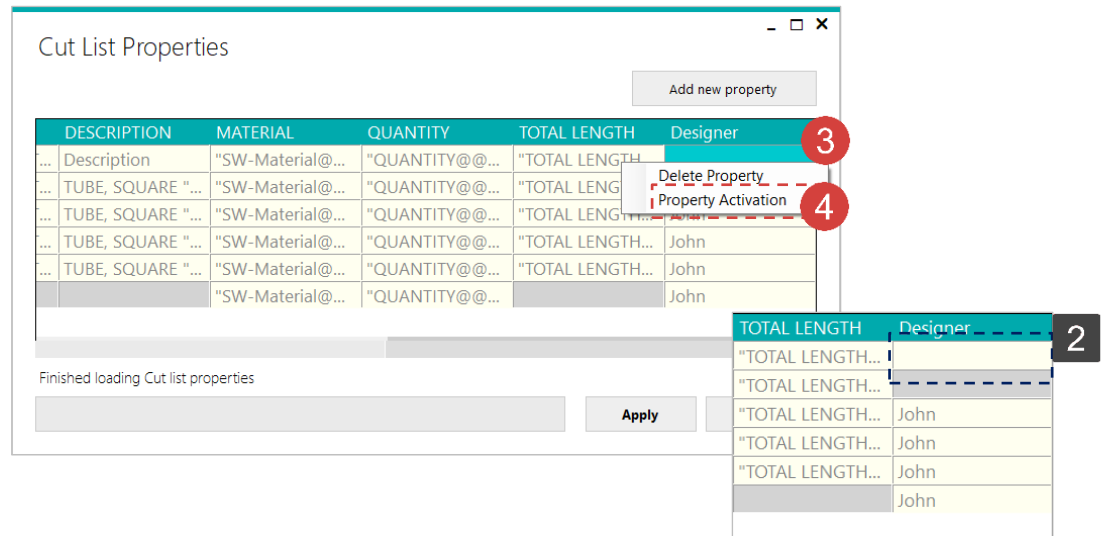
Cut List Properties - Property Delete/Activate

Work on the part with the red circle (1) following instructions by yourself.
The part with the black square (1) is an additional explanation or a reference.

- 1 To delete value, drag the first and second cells in **[Designer]** column and then right-click.
- 2 The color of the selected cells will be changed to gray after clicking **[Property delete]** button.
- 3 Right-click the first cell in **[Designer]** column.
- 4 Click **[Property Activate]** button to activate property.



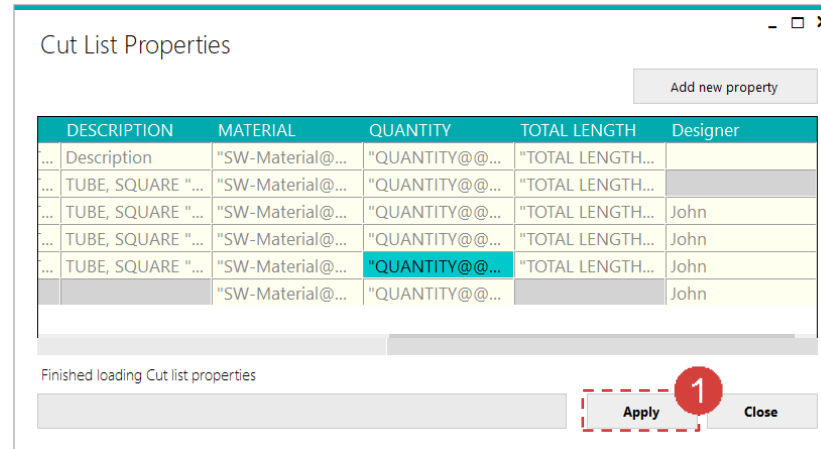
- 1 The gray area indicates that the properties are inactivated.
- 2 Property has been activated.



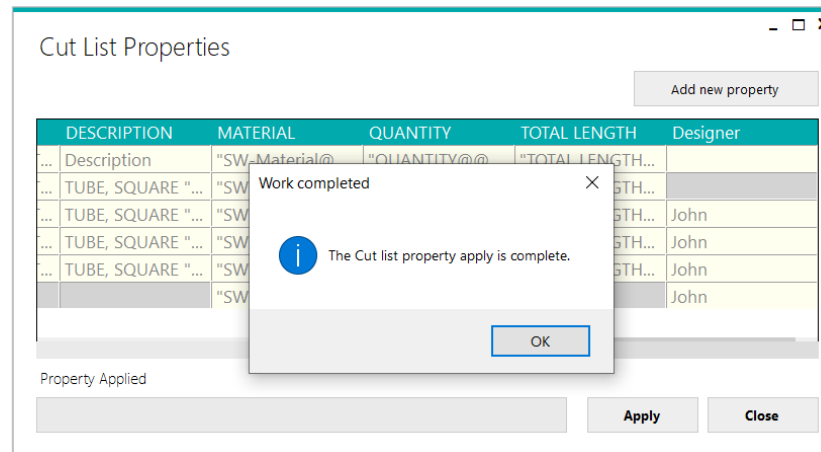
Cut List Properties - Apply Property

Work on the part with the red circle (1) following instructions by yourself.
The part with the black square (1) is an additional explanation or a reference.

- 1 Apply changes to the model file by clicking [Apply] button.



- 1 A notice window will be displayed after finishing the work.



Cut List Properties - Output Compare

Work on the part with the red circle (1) following instructions by yourself.
The part with the black square (1) is an additional explanation or a reference.

- 1 Compare properties value of cut list provided by SOLIDWORKS to properties in cut list provided by SpeedWorks.

DESCRIPTION	MATERIAL	QUANTITY	TOTAL LENGTH	Designer
... Description	"SW-Material@...	"QUANTITY@@...	"TOTAL LENGTH...	
... TUBE, SQUARE "...	"SW-Material@...	"QUANTITY@@...	"TOTAL LENGTH...	
... TUBE, SQUARE "...	"SW-Material@...	"QUANTITY@@...	"TOTAL LENGTH...	John
... TUBE, SQUARE "...	"SW-Material@...	"QUANTITY@@...	"TOTAL LENGTH...	John
... TUBE, SQUARE "...	"SW-Material@...	"QUANTITY@@...	"TOTAL LENGTH...	John
	"SW-Material@...	"QUANTITY@@...		John

TUBE, SQUARE 40.00 X 40.00 X 4.00<6>	Property Name	Type	Value / Text Expression	Evaluated Value
TUBE, SQUARE 40.00 X 40.00 X 4.00<7>	1 LENGTH	Text	"LENGTH@@@TUBE, SQUARE 40.00 X 40.00 X 4.00<	1540
TUBE, SQUARE 40.00 X 40.00 X 4.00<9>	2 ANGLE1	Text	"ANGLE1@@@TUBE, SQUARE 40.00 X 40.00 X 4.00<	45°
TUBE, SQUARE 30.00 X 30.00 X 2.60<1>	3 ANGLE2	Text	"ANGLE2@@@TUBE, SQUARE 40.00 X 40.00 X 4.00<	45°
TUBE, SQUARE 30.00 X 30.00 X 2.60<2>	4 DESCRIPTION	Text	Description	Description
Cut-List-Item11	5 MATERIAL	Text	"SW-Material@@@TUBE, SQUARE 40.00 X 40.00 X 4.	Material <not specified>
	6 QUANTITY	Text	"QUANTITY@@@TUBE, SQUARE 40.00 X 40.00 X 4.0	4
	7 TOTAL LENGTH	Text	"TOTAL LENGTH@@@TUBE, SQUARE 40.00 X 40.00	13400
	8 Designer	Text		
	9 <Type a new property>			

TUBE, SQUARE 40.00 X 40.00 X 4.00<6>	Property Name	Type	Value / Text Expression	Evaluated Value
TUBE, SQUARE 40.00 X 40.00 X 4.00<7>	1 LENGTH	Text	"LENGTH@@@TUBE, SQUARE 40.00 X 40.00 X 4.00<	1010
TUBE, SQUARE 40.00 X 40.00 X 4.00<9>	2 ANGLE1	Text	"ANGLE1@@@TUBE, SQUARE 40.00 X 40.00 X 4.00<	45°
TUBE, SQUARE 30.00 X 30.00 X 2.60<1>	3 ANGLE2	Text	"ANGLE2@@@TUBE, SQUARE 40.00 X 40.00 X 4.00<	45°
TUBE, SQUARE 30.00 X 30.00 X 2.60<2>	4 DESCRIPTION	Text	TUBE, SQUARE "V_leg@Square tube 40 X 40 X 4(6)@	TUBE, SQUARE 40.00 X 40.
Cut-List-Item11	5 MATERIAL	Text	"SW-Material@@@TUBE, SQUARE 40.00 X 40.00 X 4.	Material <not specified>
	6 QUANTITY	Text	"QUANTITY@@@TUBE, SQUARE 40.00 X 40.00 X 4.0	4
	7 TOTAL LENGTH	Text	"TOTAL LENGTH@@@TUBE, SQUARE 40.00 X 40.00	13400
	8 <Type a new property>			

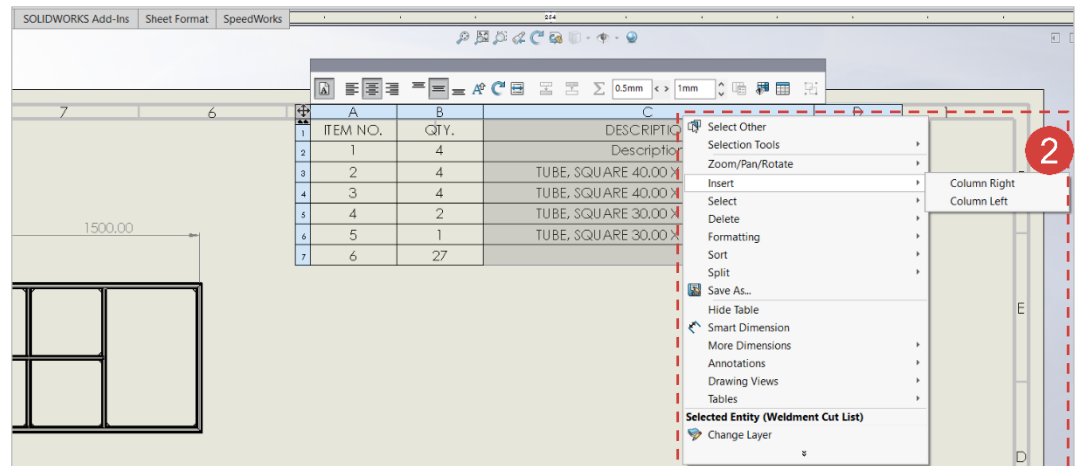
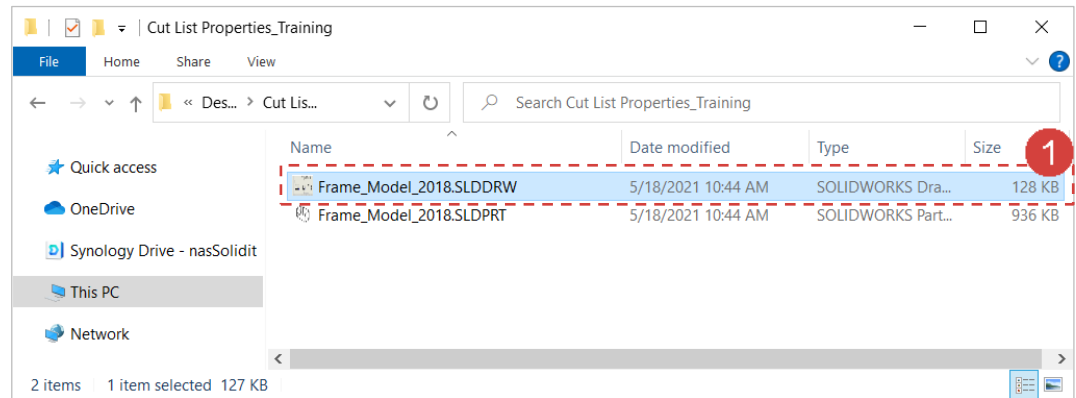
TUBE, SQUARE 40.00 X 40.00 X 4.00<6>	Property Name	Type	Value / Text Expression	Evaluated Value
TUBE, SQUARE 40.00 X 40.00 X 4.00<7>	1 LENGTH	Text	"LENGTH@@@TUBE, SQUARE 40.00 X 40.00 X 4.00<	800
TUBE, SQUARE 40.00 X 40.00 X 4.00<9>	2 ANGLE1	Text	"ANGLE1@@@TUBE, SQUARE 40.00 X 40.00 X 4.00<	0°
TUBE, SQUARE 30.00 X 30.00 X 2.60<1>	3 ANGLE2	Text	"ANGLE2@@@TUBE, SQUARE 40.00 X 40.00 X 4.00<	0°
TUBE, SQUARE 30.00 X 30.00 X 2.60<2>	4 DESCRIPTION	Text	TUBE, SQUARE "V_leg@Square tube 40 X 40 X 4(9)@	TUBE, SQUARE 40.00 X 40.
Cut-List-Item11	5 MATERIAL	Text	"SW-Material@@@TUBE, SQUARE 40.00 X 40.00 X 4.	Material <not specified>
	6 QUANTITY	Text	"QUANTITY@@@TUBE, SQUARE 40.00 X 40.00 X 4.0	4
	7 TOTAL LENGTH	Text	"TOTAL LENGTH@@@TUBE, SQUARE 40.00 X 40.00	13400
	8 Designer	Text	John	John
	9 <Type a new property>			

- 1 2 3 : The First, Second and Third of Cut List Properties provided by SpeedWorks and Cut List Properties provided by SOLIDWORKS.

Cut List Properties - Application Case

Work on the part with the red circle (1) following instructions by yourself.
The part with the black square (1) is an additional explanation or a reference.

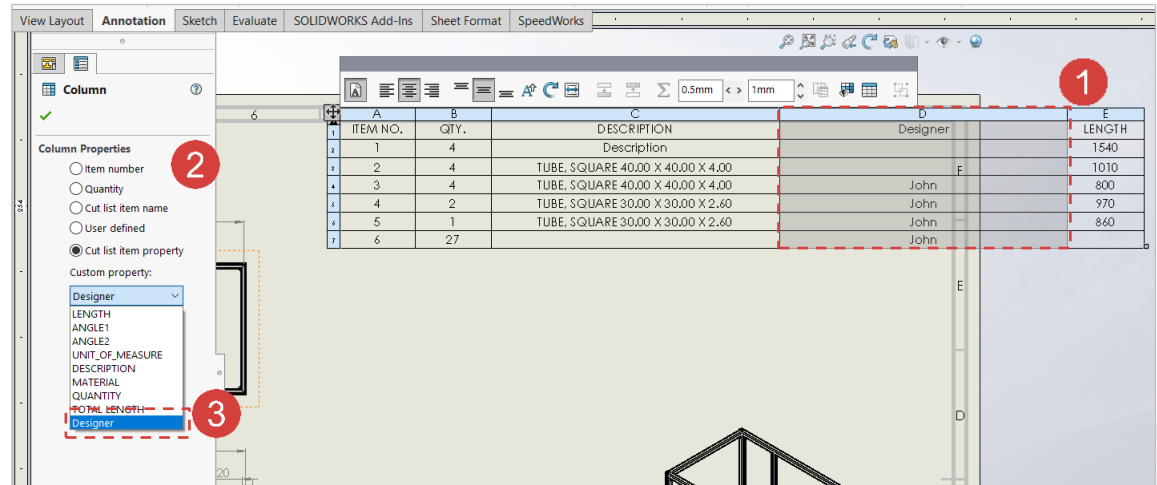
- 1 Execute **Frame_Model_2018.SLDDRW** file.
- 2 Select the table at the top of the drawing. Click **[Weldment Cut List] -Column [C] – mouse 'right-click' – [Insert] – [Column Right]**.



Cut List Properties - Application Case

Work on the part with the red circle (1) following instructions by yourself.
The part with the black square (1) is an additional explanation or a reference.

- 1 Select [D] column.
- 2 Check [Column Properties] – [Cut list item property].
- 3 Select [Custom property] - [Designer].



- 1 [Designer] column has been added.

