Grouping parts in a parts list

This Tech Tip looks at how you can group certain parts in the parts list and then sort the features based on the new groups.

When you build an assembly, it evolves as you build your parts to place into it, but when you come to build your 2D parts list, you find that parts would read better if similar parts could be positioned together, rather than its position in the assembly (or sub-assembly). This article shows how you can group and order your parts based on type.

In this example, you will notice that the Panes (01-05) are not in the correct order and that the cut lengths on the tubes are not sorted.

We can obviously sort this by File Name and Cut Length, but this then places the panes at the bottom of the list and the requirement is for them to be placed at the top. What can we do?

General	Location	Title	Columns	Data	Sorting	Groups	Options	Item N
Sort C	riteria							
	Sort by:	File Nam	e (no exten	sion)		\sim) Ascendin) Descendi	-
	Then by:	Cut Leng	th) Ascendin) Descendi	
	Then by:					~ @) Ascendin) Descendi	-

The way to group certain parts is to use the parts list group tab.

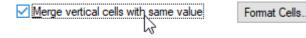
Step 1

In the Columns tab of the Parts List properties, click on the "User Defined" property and click Add Column.

Use the Move Up button to move the new column to the top of the list. Under Column Header for the new column, enter Type.

Column Hea	der			
Text row:	1	*		
Туре				~
				\sim

Click the option shown below so the name is not repeated.



ltem Number	File Name (no extension)	Cut Length	Ownity
1	Pare 01		1
2	Pane 05		1
3	Handrail support		6
4	Pane 02		2
5	Pane 03		2
6	Pane 04		1
7	75 DIAM STAND-OFF		23
8	483x2.9 AL Tube	1973.768 mm	1
9	483x2.9 AL Tube	1194.726 mm	1
10	483x2.9 AL Tube	2639.894 mm	1
11	483x2.9 AL Tube	106 1.930 mm	1
12	483x2.9 AL Tube	1085.700 mm	1
8	483x2.9 AL Tube	22 84.43 1 mm	1
14	483x2.9 AL Tube	1027575 mm	1
5	483x2.9 AL Tube	1237.280 mm	1
ъ	483x2.9 AL Tube	(783.061 mm)	1
17	483x2.9 AL Tube	947.432 mm	1
18	483x2.9 AL Tube	(1834.241 mm)	2
19	483x2.9 AL Tube	1755304 mm	1
20	MD326.48		34
21	483x2.9 AL Tube	70.985 mm	1
22	483x2.9 AL Tube	(807.975 mm)	1

Parts List Properties

General Loca	ation	Title	Columns	Data
Columns:				
Item Numbe File Name (Cut Length Quantity		ension)		
Move U	p	Move	e Down	
Add Colur	me Li	Delete	Column	
Properties: User Define	d			^

Step 2

Click on the data tab.

Type a value in the Type field that describes you group. Select the value and copy and paste it into the type field for other items that are classified under the same group.

You can use Shift+Click to select multiple sequential rows or Ctrl+Click to add individual rows to select multiple rows and paste into all at once.

Repeat this process for other group names.

Step 3

Click on the Groups tab of the Properties dialog box.

Enable the table groups option (see below) and ensure the "Group By" is set to your new column (Type in this example).

Enable table groups	Group by:	Туре	\sim
Table groups			

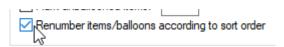
In the Table Groups panel, enter a name for your groups and type the value you typed into your data tab (step 2). In the subsequent rows, repeat for the other groups that were added.

Table groups

Name	Value	Sort group by	Ascending order	Group header
Panes	Pane		•	
Rails	Rail		•	

Step 4 (optional)

In the options tab, click the Renumber items according to the sort order:



Click OK to close the Properties dialog box.

24	Pane	1	Pane 01
25		4	Pane 02
26		5	Pane 03
27		6	Pane 04
28		2	Pane 05

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Туре	ltem Number	File Name (no extension)	Cut Length	Quantity
Pane	1	Pane 01		1
	2	Pane 02		2
	3	Pane 08		2
	4	Pane 04		1
	5	Pane 05		1
Rail	6	483x2.9 AL Tube	(1834241 mm)	2
	7	483x2.9 AL Tube	(783.061 mm)	1
	8	483x2.9 AL Tube	(807.975 mm)	1
	9	483x2.9 AL Tube	70.985 mm	1
	10	483x2.9 AL Tube	106.761 mm	1
	11	483x2.9 AL Tube	114.01B mm	1
	12	483x2.9 AL Tube	947.432 mm	1
	13	483x2.9 AL Tube	102.7.575 mm	1
	14	483x2.9 AL Tube	1061.930 mm	1
	15	483x2.9 AL Tube	1085.700 mm	1
	16	483x2.9 AL Tube	1194.726 mm	1
	17	483x2.9 AL Tube	1237280 mm	1
	18	483x2.9 AL Tube	1755304 mm	1
	19	483x2.9 AL Tube	1973.768 mm	1
	20	483x2.9 AL Tube	2055.774 mm	1
	21	483x2.9 AL Tube	2284.431 mm	1
	22	483x2.9 AL Tube	2419.184 mm	1
	23	483x2.9 AL Tube	2639.894 mm	1
Handrail	24	Handrail support		15
	25	Handrail support – 48.5		15
Connector	26	75 DIAM STAND-OFF		23