

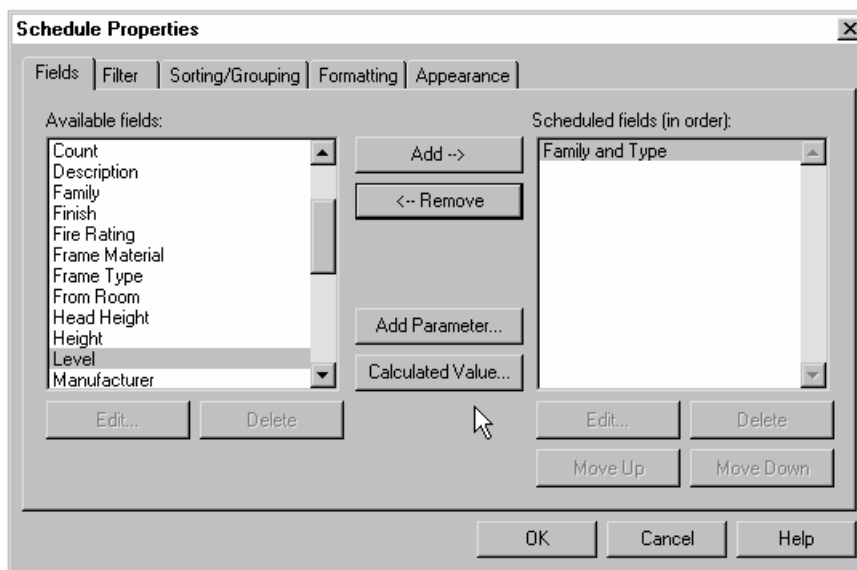
9 - Scheduling the Building Model

In this exercise, you create and modify a door schedule. The initial schedule contains all doors in the building model. After creating the schedule, you modify it to filter by level. Finally, you duplicate the schedule twice, rename each schedule, and change the filtering so that each level has a unique door schedule.

This exercise requires the completion of the previous exercises in this tutorial. You must use the project you saved at the end of the last exercise.

Create a door schedule

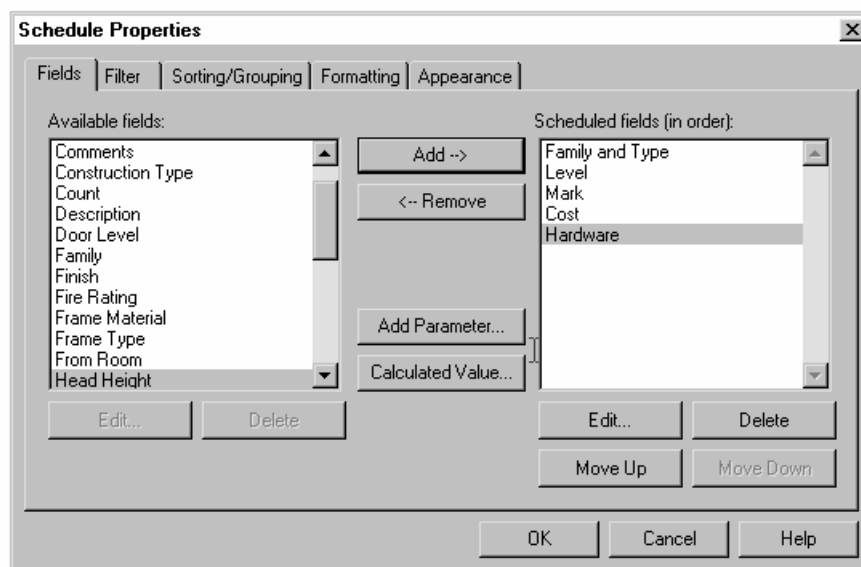
1. On the View tab of the Design Bar, click Schedule/Quantities.
2. In the New Schedule dialog box, select Doors for Category, and click Add-->.
3. In the Schedule Properties dialog box, click the Fields tab.
4. Under Available Fields, select Family and Type, and click Add.



5. Add the following fields as scheduled fields:
 - Level
 - Mark
 - Cost

Notice that there is not an available field for Hardware. You can add custom fields and make them either type or instance parameters.

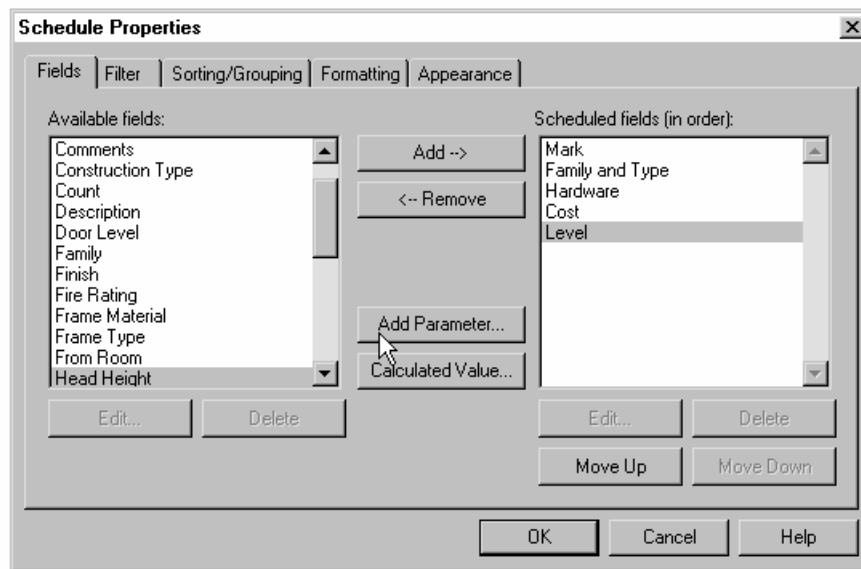
6. Click Add Parameter.
7. In the Parameter Properties dialog box, specify the following values:
 - Select Project parameter.
 - Enter Hardware for Name.
 - Select Text for Type.
 - Select Instance for Value stored by.
8. Click OK.



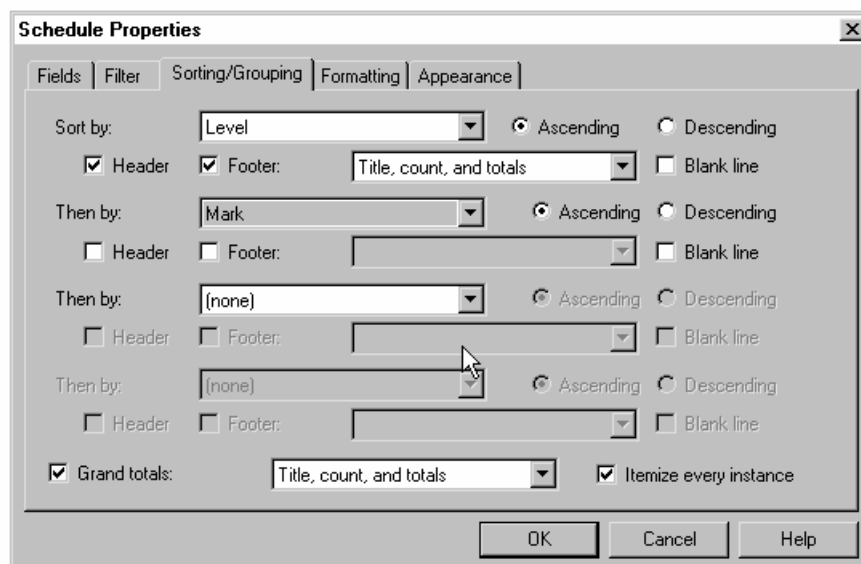
The selected fields display in the schedule table in the order that they appear in the Schedule Properties dialog box.

9. Under Scheduled fields (in order), select Mark and click Move up until it displays at the top of the list.
10. Move Hardware so that it is directly below Family and Type.

11. Move Cost below Hardware.



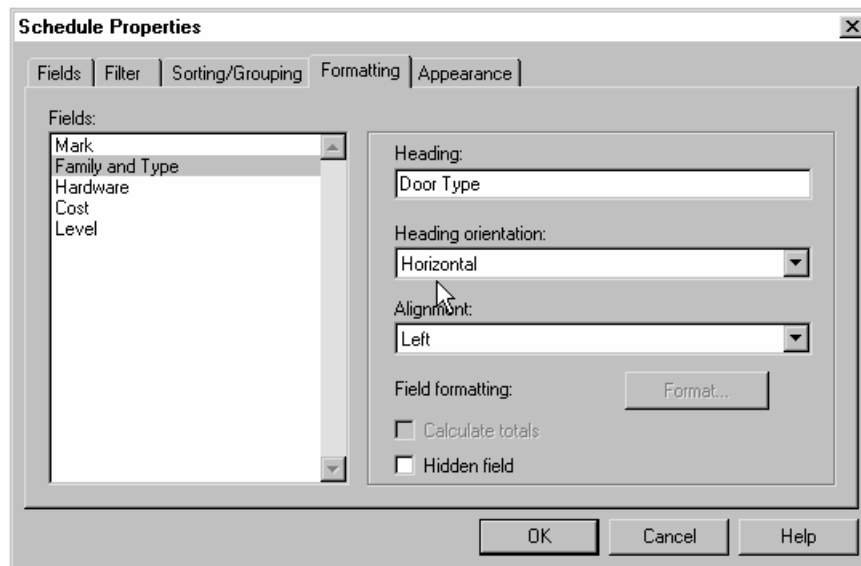
12. Click the Sorting/Grouping tab.
13. Select Level for Sort by.
14. Select Header, Footer, Grand totals, and Itemize every instance.
15. Select Mark for Then by.



16. Click the Formatting tab.
17. Select Family and Type for Fields.

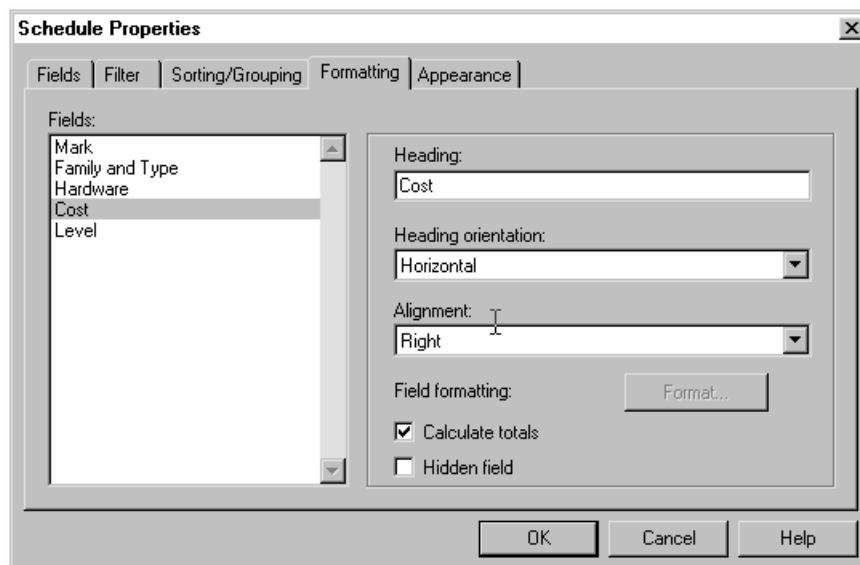
18. Enter Door Type for Heading.

Door Type displays as the column heading within the schedule.



19. Select Cost for Fields.

20. Select Right for Alignment, and select Calculate totals for Field formatting.



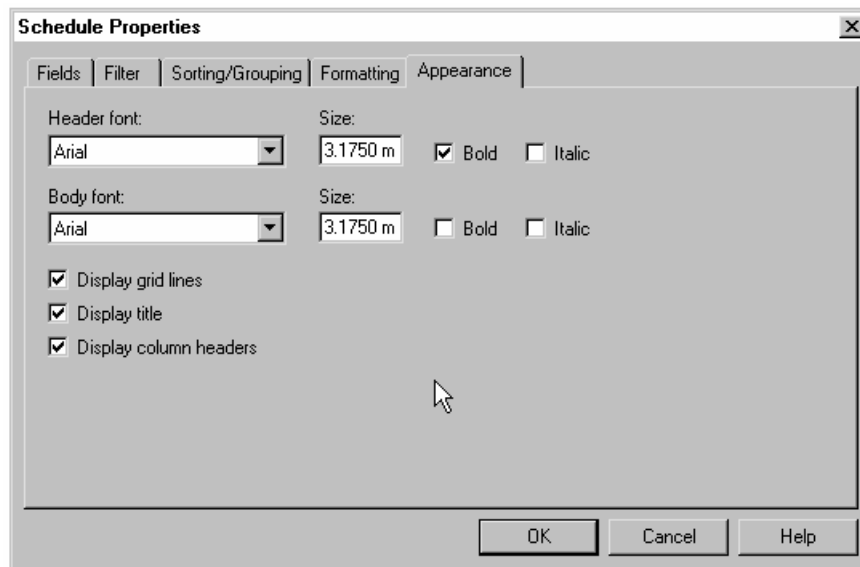
21. Select Level for Fields.

22. Select Hidden Field for Field formatting.

You can hide this field because you are sorting and grouping by level.

23. Click the Appearance tab.

24. Select Bold for Header font.



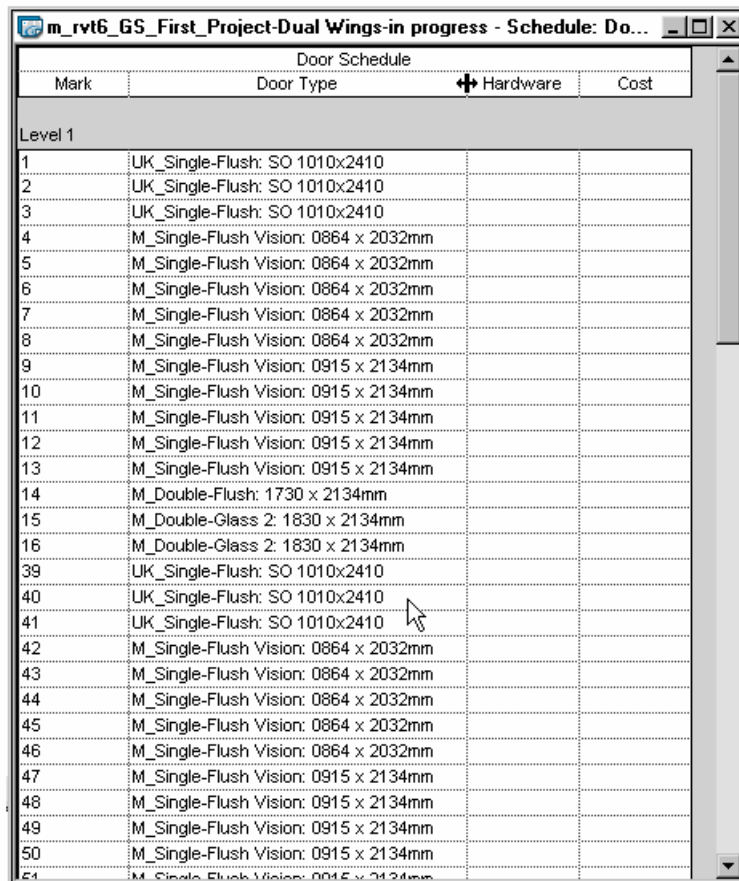
Modifications to the font appearance display only when the schedule is added to a sheet.

25. Click OK.

The door schedule is displayed.

26. In the door schedule, select the column grip between Door Type and Hardware and move the grip to the right until the door types display in their entirety.

Tip: In this view, any changes made to column size are not retained when the schedule is added to a sheet.



Mark	Door Type	Hardware	Cost
Level 1			
1	UK_Single-Flush: SO 1010x2410		
2	UK_Single-Flush: SO 1010x2410		
3	UK_Single-Flush: SO 1010x2410		
4	M_Single-Flush Vision: 0864 x 2032mm		
5	M_Single-Flush Vision: 0864 x 2032mm		
6	M_Single-Flush Vision: 0864 x 2032mm		
7	M_Single-Flush Vision: 0864 x 2032mm		
8	M_Single-Flush Vision: 0864 x 2032mm		
9	M_Single-Flush Vision: 0915 x 2134mm		
10	M_Single-Flush Vision: 0915 x 2134mm		
11	M_Single-Flush Vision: 0915 x 2134mm		
12	M_Single-Flush Vision: 0915 x 2134mm		
13	M_Single-Flush Vision: 0915 x 2134mm		
14	M_Double-Flush: 1730 x 2134mm		
15	M_Double-Glass 2: 1830 x 2134mm		
16	M_Double-Glass 2: 1830 x 2134mm		
39	UK_Single-Flush: SO 1010x2410		
40	UK_Single-Flush: SO 1010x2410		
41	UK_Single-Flush: SO 1010x2410		
42	M_Single-Flush Vision: 0864 x 2032mm		
43	M_Single-Flush Vision: 0864 x 2032mm		
44	M_Single-Flush Vision: 0864 x 2032mm		
45	M_Single-Flush Vision: 0864 x 2032mm		
46	M_Single-Flush Vision: 0864 x 2032mm		
47	M_Single-Flush Vision: 0915 x 2134mm		
48	M_Single-Flush Vision: 0915 x 2134mm		
49	M_Single-Flush Vision: 0915 x 2134mm		
50	M_Single-Flush Vision: 0915 x 2134mm		
51	M_Single-Flush Vision: 0915 x 2134mm		

Modify the schedule

27. Click in the Cost field for door mark number 1, enter 500, and press ENTER.

A message is displayed indicating that this change must be applied to all elements of the same type. This is because Cost is a type parameter.

28. Click OK.

29. Click in the Hardware field for door mark number 1, enter Brass, and press ENTER.

Because you created the hardware parameter as an instance parameter, each door is allowed a different value.

Door Schedule			
Mark	Door Type	Hardware	Cost
Level 1			
1	UK_Single-Flush: SO 1010x2410	Brass	500.00
2	UK_Single-Flush: SO 1010x2410		500.00
3	UK_Single-Flush: SO 1010x2410		500.00
4	M_Single-Flush Vision: 0864 x 2032mm		
5	M_Single-Flush Vision: 0864 x 2032mm		
6	M_Single-Flush Vision: 0864 x 2032mm		
7	M_Single-Flush Vision: 0864 x 2032mm		
8	M_Single-Flush Vision: 0864 x 2032mm		
9	M_Single-Flush Vision: 0915 x 2134mm		
10	M_Single-Flush Vision: 0915 x 2134mm		
11	M_Single-Flush Vision: 0915 x 2134mm		
12	M_Single-Flush Vision: 0915 x 2134mm		
13	M_Single-Flush Vision: 0915 x 2134mm		
14	M_Double-Flush: 1730 x 2134mm		
15	M_Double-Glass 2: 1830 x 2134mm		
16	M_Double-Glass 2: 1830 x 2134mm		
39	UK_Single-Flush: SO 1010x2410		500.00
40	UK_Single-Flush: SO 1010x2410		500.00
41	UK_Single-Flush: SO 1010x2410		500.00
42	M_Single-Flush Vision: 0864 x 2032mm		
43	M_Single-Flush Vision: 0864 x 2032mm		
44	M_Single-Flush Vision: 0864 x 2032mm		
45	M_Single-Flush Vision: 0864 x 2032mm		
46	M_Single-Flush Vision: 0864 x 2032mm		
47	M_Single-Flush Vision: 0915 x 2134mm		
48	M_Single-Flush Vision: 0915 x 2134mm		
49	M_Single-Flush Vision: 0915 x 2134mm		
50	M_Single-Flush Vision: 0915 x 2134mm		
51	M_Single-Flush Vision: 0915 x 2134mm		

Duplicate and filter door schedules

30. In the Project Browser, expand Schedules, right-click Door Schedule, and click Duplicate.

31. Repeat the previous step to create an additional copy of the door schedule.

32. In the Project Browser, under Schedules, right-click Door Schedule, and click Rename.

33. In the Rename View dialog box, enter Door Schedule-Level 1, and click OK.

34. Repeat the process to rename the remaining copies to Door Schedule-Level 2 and Door Schedule-Level 3.

You now have a separate schedule for each level. However, each schedule still lists all the doors for each level.

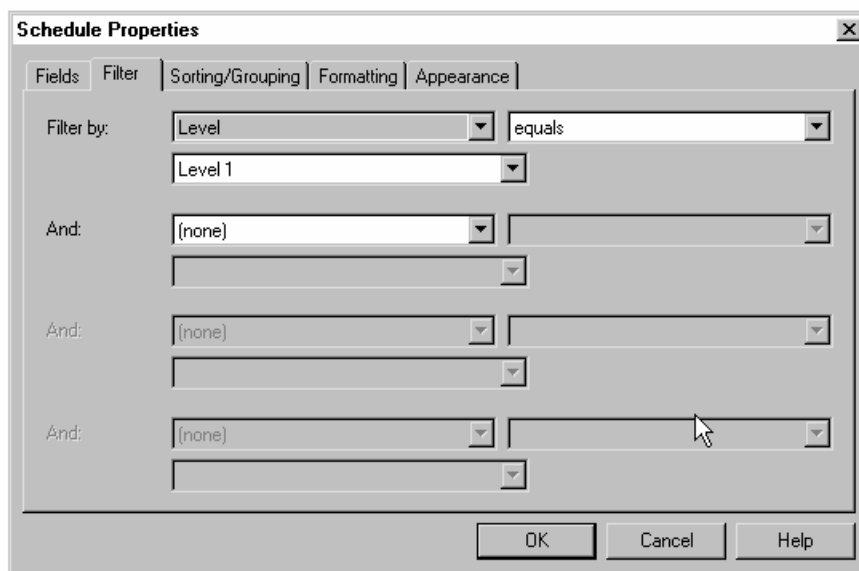


35. In the Project Browser, under Schedules, right-click Door Schedule-Level 1, and click Properties.

36. In the Element Properties dialog box, click Edit for the Filter value.

37. In the Schedule Properties dialog box, click the Filter tab.

38. Select Level equals Level 1 for Filter by, and click OK twice.



39. Repeat the previous four steps for Door Schedule-Level 2 and Door Schedule-Level 3, and filter by their respective level.

40. In the Project Browser, under Schedules, double-click each door schedule.

Notice that the information is now filtered for each level.

41. On the File menu, click Save.

In this exercise, you created a door schedule with a custom field. You then duplicated and renamed the copied schedules. Finally, you applied filters to each schedule to limit the display to only the doors on each respective level.

In the next exercise, you render a 3D view and save the image with the project.