

d&b audiotechnik Revit Families U-Series README

1. Overview

The d&b Revit families are based on Revit version 2018 and are created as *Communication Device* families. All families are composed at a glance in the project *d&b audiotechnik Revit Families U-Series.rvt*. It contains all components of the U-Series. Basically, the U-Series contain TOPs, SUBs and accessories families. Where applicable, accessories are already integrated as nested families in the speaker and subwoofer families and can be scheduled accordingly.



Point Source Families

Families	Types	Options
d&b U-Series U3	21000	
d&b U-Series U5	21000	
d&b U-Series U7	21000	
d&b U-Series U3N	22000	
d&b U-Series U5N	22000	
d&b U-Series U7N	22000	
d&b B10-SUB / d&b B10-SUB	23000	
d&b B10N-SUB / d&b B10N-SUB	23000	
d&b B12-SUB / d&b B12-SUB	23000	

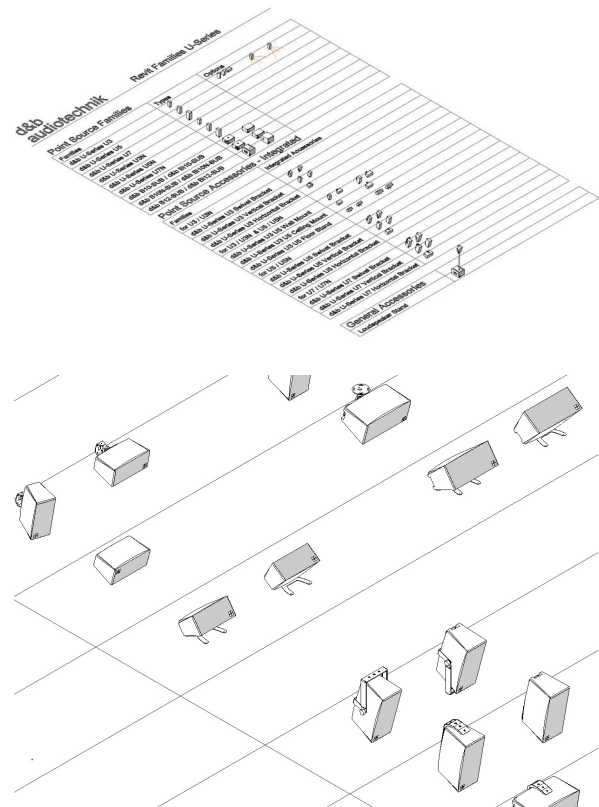
Point Source Accessories - Integrated

Please observe the corresponding manuals for safe use of speakers and accessories!

Families	Integrated Accessories
for U3 / U3N	
d&b U-Series U3 Swivel Bracket	21000
d&b U-Series U3 Vertical Bracket	21000
d&b U-Series U3 Horizontal Bracket	21000
for U3 / U3N & U5 / U5N	
d&b U-Series U3 U5 Wall Mount	21000
d&b U-Series U3 U5 Floor Stand	21000
for U5 / U5N	
d&b U-Series U5 Swivel Bracket	21000
d&b U-Series U5 Vertical Bracket	21000
d&b U-Series U5 Horizontal Bracket	21000
for U7 / U7N	
d&b U-Series U7 Swivel Bracket	21000
d&b U-Series U7 Vertical Bracket	21000
d&b U-Series U7 Horizontal Bracket	21000

General Accessories

Loudspeaker Stand	21000
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d&b audiotechnik Revit Families U-Series.rvt
Plan View

d&b audiotechnik Revit Families U-Series.rvt
Isometric Views

2. How to add d&b families into your project

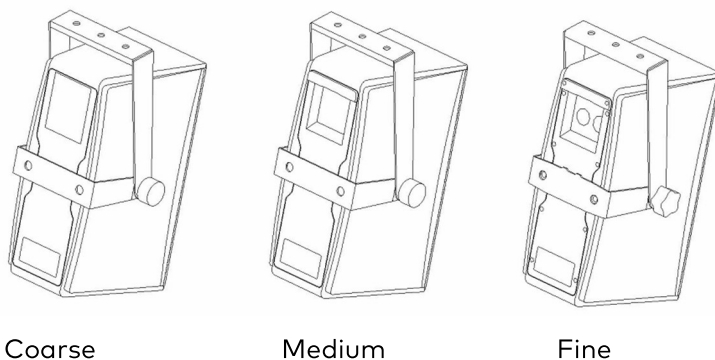
1. Open your project.
2. Open the *d&b audiotechnik Revit Families U-Series.rvt*
3. In this project, select a family.
4. In the *Modify* menu, select *Edit Family*.
This opens the Family Editor.
5. From here, click onto *Load into Project* (or *Load into Project and Close*) and select your project.
The family is now available in the project browser of your project under *Families > Communication Devices*. The family types can be dragged into your drawing area.
The nested families are also automatically loaded into your project and show up in the project browser.
6. You can close the family you have opened. You do not need to save it, as all families and types are still available in the *d&b audiotechnik Revit Families U-Series.rvt*.

Notes:

We do not recommend to "Copy and Paste" from project to project, as this will only copy the selected type into your project. You may miss additional types in a later phase.

3. Detail Levels

The d&b audiotechnik families support the Detail Levels Coarse, Medium and Fine.



4. Materials

d&b audiotechnik Materials are already set in the *Properties* of the families.
The materials are predefined for visualization in Revit.

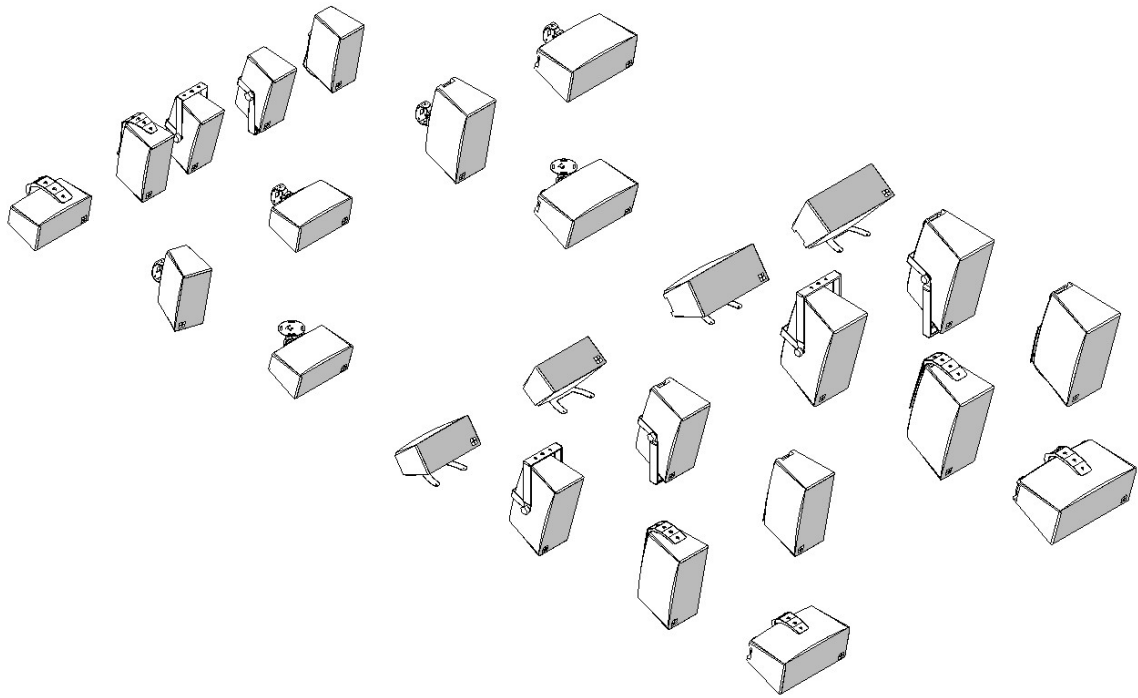
The *d&b always black* Material is used for parts of components which you cannot order in a different color.

The U-Series uses standard Revit materials. In case you want to create custom materials, duplicate the materials and material assets for enclosure, grill and paint, and assign them to the properties of a loudspeaker or subwoofer. You use the "Tint" option in the Appearance tab of the Materials dialog to define custom colors.

Materials and Finishes	
Accessories Material	d&b Metal Black
Enclosure Material	d&b Paint Black
Grill Material	d&b Metal Grill B...
Logo Material	d&b Metal Logo
Metal Material	d&b Metal Black

5. Point source families

The point source families are usually placed on a level. Pitch, Panning & Rotation parameters are available, depending on how the loudspeakers is mounted. Use the Offset parameter in the Properties to modify the mounting height. Coverage lines and horn rotation can be shown. Note that Pitch, Panning & Rotation limits are defined by the selected accessory. Additional accessories can be placed manually.



U3/U3N & U5/U5N & U7/U7N and integrated accessories

6. Point source families properties

Properties	
	d&b U-Series U3 U3
Communication Devices (1) Edit	
Constraints	
Panning	0.00°
Pitch	-15.00°
Rotation	0.00°
Offset	250.0
Work Plane	Level : Level 1
Construction	
Rotated Horn	☐
Top Swivel Bracket	☒
Bottom Swivel Bracket	☐
Top Vertical Bracket	☐
Bottom Vertical Bracket	☐
Top Horizontal Bracket	☐
Wall Mount	☐
Ceiling Mount	☐
Floor Stand	☐
Graphics	
Coverage	☐
Coverage Length	1000.0
Logo	☒
Materials and Finishes	
Accessories Material	d&b Metal Black
Enclosure Material	d&b Paint Black
Grill Material	d&b Metal Grill Black
Logo Material	d&b Metal Logo
Metal Material	d&b Metal Black

Constraints

Pitch, Panning and Rotation defines the rotation of the speaker in 3 axes.

Construction

Check boxes to set the accessories.
Please select only one of the accessories.

Notes:

Some of the accessories are only available, if they are permitted for the currently selected Work Plane, Rotation, Panning or Pitch value. I.e., the Ceiling Mount option is only shown with *Rotation* at -90 °.

Note the sample settings in the d&b audiotechnik Revit Families U-Series.rvt.

Graphics

Shows the coverage lines and the length of the Coverage lines.

Further, the d&b Logo can be deactivated.

Selecting *Rotated Horn* under the *Construction* group also rotates the Coverage lines.

Material

Assigns d&b materials for selected components of loudspeakers, subwoofers and accessories.

7. Type properties

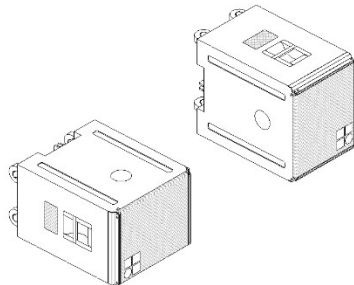
Additional data is integrated in the type properties of the families and can be schedules, such as *Part Number* and the properties under the Data group.

Data	
Frequency Range Low (-5 dB Standard)	61.00 Hz
Frequency Range High (-5 dB Standard)	1800.00 Hz
Max. SPL (1m, Free Field) with any current d	128
SPL Max	128
SPL Stimulus	SPL max peak test signal: pink noise with
Cabinets per D80	3
Power Handling Capacity Peak 10 ms	500.00 W
Power Handling Capacity RMS	150.00 W
Coverage Horizontal	100.00°
Coverage Vertical	65.00°
Weight	7.100 kg
LF Diameter	5
LF Quantity	2
HF Quantity	1

8. Subwoofer families

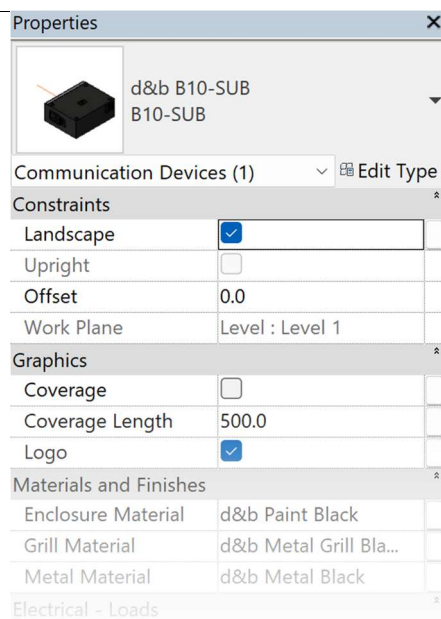
The U-Series contains the B10/Bi10, B10N, Bi10N, B12 and Bi12 SUBs.

The subwoofer families are usually placed on a level. Use the Offset parameter in the Properties to place cabinets at a specific height. "Landscape" and "Upright" provide horizontal or vertical orientation.



SUBs with "Landscape" and "Upright" orientation

9. Subwoofer families properties



Constraints

The "Landscape" and "Upright" parameters place the subwoofers in horizontal or vertical orientation.

Graphics

Shows the coverage lines and the length of the Coverage lines.

Further, the d&b Logo can be deactivated.

Materials

Assigns the d&b materials for the different components of the families.

For custom materials, note chapter 4. Materials

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10. Schedules

Note:

The *Communication Device Schedule* in *d&b audiotechnik Revit Families U-Series.rvt* counts components including their data.

Family	Type	Part Number	Weight	Connections	Manufacturer	
d&b U-Series U3	U3	Z1005	7.10 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U3 Loudspeaker
d&b U-Series U3	U3	Z1005	7.10 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U3 Loudspeaker
d&b U-Series U3	U3	Z1005	7.10 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U3 Loudspeaker
d&b U-Series U3	U3	Z1005	7.10 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U3 Loudspeaker
d&b U-Series U3	U3	Z1005	7.10 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U3 Loudspeaker
d&b U-Series U3 Swivel Bracket	d&b U-Series U3 Swivel Bracket	Z5800			d&b audiotechnik	U3 Swivel Bracket
d&b U-Series U3	U3	Z1005	7.10 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U3 Loudspeaker
d&b U-Series U3 Swivel Bracket	d&b U-Series U3 Swivel Bracket	Z5800			d&b audiotechnik	U3 Swivel Bracket
d&b U-Series U3	U3	Z1005	7.10 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U3 Loudspeaker
d&b U-Series U3	U3	Z1005	7.10 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U3 Loudspeaker
d&b U-Series U3 Horizontal Bracket	d&b U-Series U3 Horizontal Bracket	Z5802			d&b audiotechnik	U3 Horizontal Bracket
d&b U-Series U3	U3	Z1005	7.10 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U3 Loudspeaker
d&b U-Series U3	U3	Z1005	7.10 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U3 Loudspeaker
d&b U-Series U3	U3	Z1005	7.10 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U3 Loudspeaker
d&b U-Series U3 U5 Wall Mount	d&b U-Series U3 U5 Wall Mount	Z5810			d&b audiotechnik	U3 Wall Mount
d&b U-Series U3 Vertical Bracket	d&b U-Series U3 Vertical Bracket	Z5801			d&b audiotechnik	U3 Vertical Bracket
d&b U-Series U3	U3	Z1005	7.10 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U3 Loudspeaker
d&b U-Series U3 Vertical Bracket	d&b U-Series U3 Vertical Bracket	Z5801			d&b audiotechnik	U3 Vertical Bracket
d&b U-Series U3	U3	Z1005	7.10 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U3 Loudspeaker
d&b U-Series U3	U3	Z1005	7.10 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U3 Loudspeaker
d&b U-Series U3	U3	Z1005	7.10 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U3 Loudspeaker
d&b U-Series U5	U5	Z1010	11.50 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U5 Loudspeaker
d&b U-Series U5	U5	Z1010	11.50 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U5 Loudspeaker
d&b U-Series U5	U5	Z1010	11.50 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U5 Loudspeaker
d&b U-Series U5	U5	Z1010	11.50 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U5 Loudspeaker
d&b U-Series U5	U5	Z1010	11.50 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U5 Loudspeaker
d&b U-Series U3 U5 Wall Mount	d&b U-Series U3 U5 Wall Mount	Z5810			d&b audiotechnik	U3 Wall Mount
d&b U-Series U5	U5	Z1010	11.50 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U5 Loudspeaker
d&b U-Series U5	U5	Z1010	11.50 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U5 Loudspeaker
d&b U-Series U5	U5	Z1010	11.50 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U5 Loudspeaker
d&b U-Series U5	U5	Z1010	11.50 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U5 Loudspeaker
d&b U-Series U5 Vertical Bracket	d&b U-Series U5 Vertical Bracket	Z5804			d&b audiotechnik	U5 Vertical Bracket
d&b U-Series U5 Vertical Bracket	d&b U-Series U5 Vertical Bracket	Z5804			d&b audiotechnik	U5 Vertical Bracket
d&b U-Series U5	U5	Z1010	11.50 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U5 Loudspeaker
d&b U-Series U5	U5	Z1010	11.50 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U5 Loudspeaker
d&b U-Series U5	U5	Z1010	11.50 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U5 Loudspeaker
d&b U-Series U5 Swivel Bracket	d&b U-Series U5 Swivel Bracket	Z5803			d&b audiotechnik	U5 Swivel Bracket
d&b U-Series U7	U7	Z1015	13.00 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U7 Loudspeaker
d&b U-Series U7	U7	Z1015	13.00 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U7 Loudspeaker
d&b U-Series U7 Swivel Bracket	d&b U-Series U7 Swivel Bracket	Z5806			d&b audiotechnik	U7 Swivel Bracket
d&b U-Series U7	U7	Z1015	13.00 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U7 Loudspeaker
d&b U-Series U7 Swivel Bracket	d&b U-Series U7 Swivel Bracket	Z5806			d&b audiotechnik	U7 Swivel Bracket
d&b U-Series U7	U7	Z1015	13.00 kg	NL4 M and 2-pin Euroblock in parallel	d&b audiotechnik	U7 Loudspeaker

11. Tags

The integrated d&b annotation tag automatically annotates components with their part numbers and/or Type names.



Z5800



Z5801



Z5802