

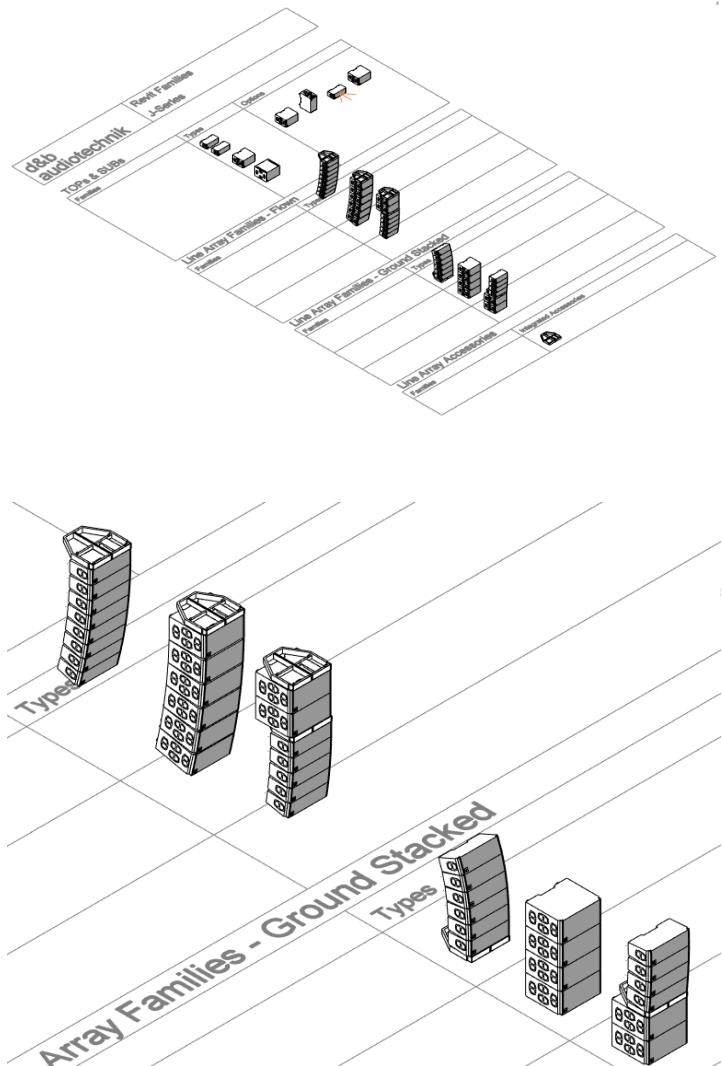
d&b audiotechnik Revit Families J-Series README

1. Overview

The d&b Revit families are based on Revit version 2016 and are created as *Communication Device* families. All families are composed at a glance in the project *d&b audiotechnik Revit Families J-Series.rvt*. It contains all components of the J-series. Basically, the J-Series contain TOPs, SUBs, line array families and accessories families. Where applicable, accessories are already integrated as nested families in the speaker and subwoofer families and can be scheduled accordingly.

d&b audiotechnik Revit Families J-Series Version 6.04.2019		
TOPs & SUBs		
Families	Types	Options
d&b J-Series TOP	1000 - 20	
d&b J-Series SUB	1000 - 20	
d&b J-Series J-1000	1000 - 20	
d&b J-Series J-1000	1000 - 20	
Please observe the corresponding notes in the subwoofer and speaker data sheet!		
Line Array Families - Flown		
Families	Types	
d&b J-Series Flown Array - Line Array	1000 - 20 TOP	Please observe the corresponding data sheet for the J-Series Flown Array - Line Array!
d&b J-Series Flown Array - Sub	1000 - 20 SUB	
d&b J-Series Flown Array - Subwoofer	1000 - 20 SUB	
Line Array Families - Ground Stacked		
Families	Types	
d&b J-Series Ground Stacked Array - Line Array	1000 - 20 TOP	
d&b J-Series Ground Stacked Array - Sub	1000 - 20 SUB	
d&b J-Series Ground Stacked Array - Subwoofer	1000 - 20 SUB	
Line Array Accessories		
Families	Integrated Accessories	
d&b J-Series Flying Frame	1000 - 20	

d&b audiotechnik Revit Families J-Series.rvt
Plan View



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

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

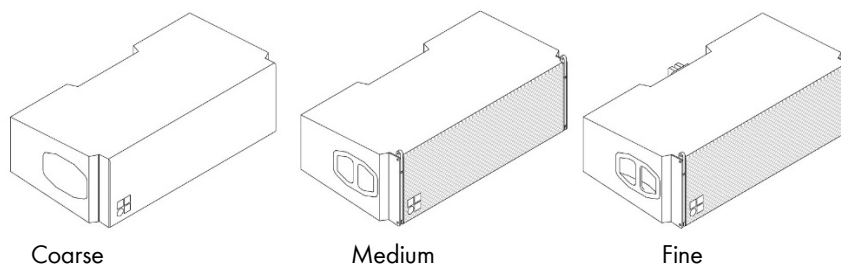
1. Open your project.
2. Open the *d&b audiotechnik Revit Families J-Series.rvt*
3. In this project, select a family.
4. In the *Modify* menu run *Edit Family*.
This opens the Family Editor.
5. From here, run *Load into Project* (or *Load into Project and Close*) and select your project.
The family is available now 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 J-Series.rvt*.

Notes:

We do not recommend to run "Copy and Paste" from project to project, as this will copy only 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 already predefined for visualization in Revit.

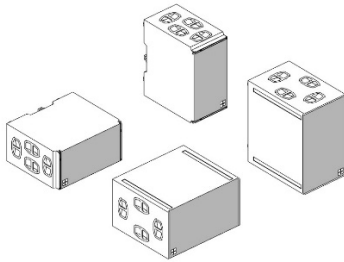
Refer to website or manual to check if Special Colour versions are available. d&b colours the products according to the RAL table. Parts that will be painted are the cabinet, grill and front rigging (d&b Metal Black). The *d&b always black* Material is used for parts of the components, which you cannot order in a different color.

The J-Series is using standard Revit materials. In case you want to create custom materials, duplicate the materials and material assets for enclosure, grill and paint, and assign it to the properties of a speaker or subwoofer. You can use the "Tint" option in the Appearance tab of the Materials dialog to define custom colours.

Materials and Finishes ^	
Enclosure Material	d&b Paint Black
Grill Material	d&b Metal Grill Black
Metal Material	d&b Metal Black


5. Subwoofer families

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



SUBs with "Landscape" and
"Upright" orientation

6. Subwoofer families properties

Properties	
	d&b J-Series J-SUB J-SUB
Communication Devices (1) Edit Type	
Constraints	
Landscape	<input checked="" type="checkbox"/>
Upright	<input type="checkbox"/>
Offset	0.0
Work Plane	Level : Level 1
Graphics	
Coverage	<input type="checkbox"/>
Coverage Length	1000.0
Logo	<input checked="" type="checkbox"/>
Materials and Finishes	
Enclosure Material	d&b Paint Black
Grill Material	d&b Metal Grill Black
Metal Material	d&b Metal Black
Electrical - Loads	
Panel	
Circuit Number	
Identity Data	
Image	
Comments	
Mark	124
Phasing	
Phase Created	New Construction
Phase Demolished	None
Electrical - Circuits	

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

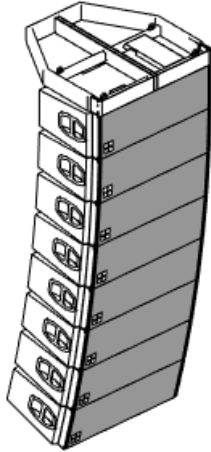
Assignment of d&b materials for the different components of the families. For custom materials, note the chapter 4. Materials

7. Loudspeaker families

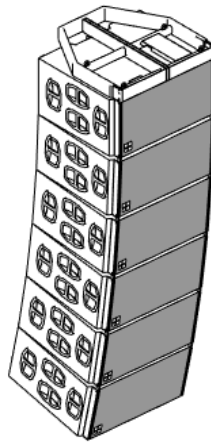
The TOPs of the J-Series are integrated in the line array families. All loudspeaker properties can be set in the line array families.

8. Line array families

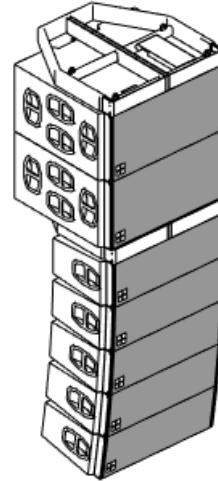
Instead of combining single speakers or subs manually to a line array in a Revit project (which is likely a cumbersome task), we have developed predefined line array families. They consist of nested families such as speakers, subs and frames. As they are nested families, they show up in the schedules. Various property settings allow to set up the line arrays. There are separate line array families for mobile and installation. The number of subs and speakers and their angles can be set in the properties. In general, we differ between the following line arrays:



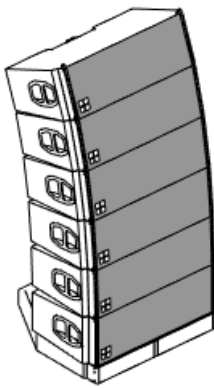
Flown array
TOPs



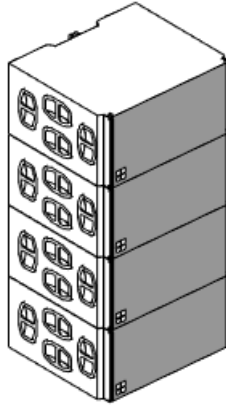
Flown array
SUBs



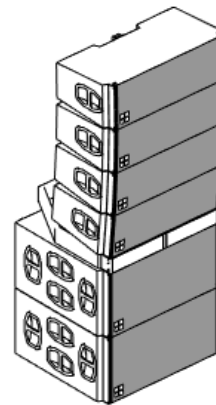
Flown array
SUBs & TOPs



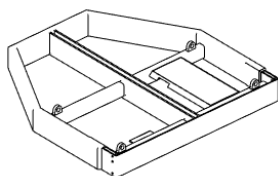
Ground stacked array
TOPs



Ground stacked array
SUBs



Ground stacked array
SUBs & TOPs



Integrated accessories

9. Line array families properties

The screenshot shows a sub & loudspeaker array. Sub arrays and Loudspeaker arrays have slightly different properties.

Properties

d&b J-Series Flown Array - Sub & Loudspeaker

Communication Devices (1) Edit Type

Constraints

Level	Level 1
Host	Level : Level 1
Offset	4000.0
Moves With Nearby Ele...	<input type="checkbox"/>

Construction

Number of Subwoofers	2
Number of Loudspeakers	5
Maximum Number of L...	20
1 Loudspeaker<Data D...	J8
2 Loudspeaker<Data D...	J8
3 Loudspeaker<Data D...	J8
4 Loudspeaker<Data D...	J8
5 Loudspeaker<Data D...	J8
6 Loudspeaker<Data D...	J8
7 Loudspeaker<Data D...	J8
8 Loudspeaker<Data D...	J8
9 Loudspeaker<Data D...	J8
10 Loudspeaker<Data ...	J8
11 Loudspeaker<Data ...	J8
12 Loudspeaker<Data ...	J8
13 Loudspeaker<Data ...	J8
14 Loudspeaker<Data ...	J8

Graphics

Coverage	<input type="checkbox"/>
Coverage Length	500.0
Logo	<input checked="" type="checkbox"/>

Materials and Finishes

Accessories Material	d&b Metal Black
Enclosure Material	d&b Paint Black
Grill Material	d&b Metal Grill Black
Metal Material	d&b Metal Black

Electrical - Loads

Panel	
Circuit Number	

Dimensions

Frame Angle	0.000°
Sub 2 Splay 2.5	<input type="checkbox"/>
Sub 3 Splay 2.5	<input type="checkbox"/>
Sub 4 Splay 2.5	<input type="checkbox"/>
Sub 5 Splay 2.5	<input type="checkbox"/>
Sub 6 Splay 2.5	<input type="checkbox"/>
Sub 7 Splay 2.5	<input type="checkbox"/>
Sub 8 Splay 2.5	<input type="checkbox"/>
Splay Angle 1	0.000°
Splay Angle 2	2.000°
Splay Angle 3	2.000°
Splay Angle 4	2.000°

The Offset value defines the bottom height of the top frame.

Construction

Number of Subwoofers and Loudspeakers

The maximum number of loudspeakers and subwoofers is shown as note.

Please observe the corresponding rigging manuals for safe use and check the load limits using ArrayCalc!

1 Loudspeaker	[J8 or J12]
2 Loudspeaker	[J8 or J12]
3 Loudspeaker	[J8 or J12]

Defines the use of J8/J12 speakers, the prefix number stands for the position, measured from top for flown arrays, from bottom for ground stacked arrays.

Graphics

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

Further the d&b Logo can be deactivated.

Materials

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

Dimensions

Here you set the angles between the SUBs and TOPs. Make sure that you set the values according the d&b audio installation manuals, as Revit would allow any values!

SUBs: 0° or 2.5°

J8, J12: 0°; 1°; 2°; ...; 7°

10. 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.

Type Properties ✕

Family: Load...

Type: Duplicate...

Rename...

Type Parameters

Parameter	Value
Constraints ⌵	
Default Elevation	0.0
Dimensions ⌵	
Height	360.0
Width	1100.0
Depth	570.0
Identity Data ⌵	
Part Number	Z0651
Support Email	support@dbaudio.com
Support Phone	+49 7191 9669-0
Type Image	
Keynote	
Model	J12
Manufacturer	d&b audiotechnik
URL	http://www.dbaudio.com/
Type Comments	
Description	Line array module for largscale sound reinf
Assembly Code	
Cost	
Assembly Description	
Type Mark	
OmniClass Number	23.85.10.11.14.14.14
OmniClass Title	Loudspeakers
Code Name	
Data ⌵	
Frequency Range Low (-5 dB Standard)	48.00 Hz
Frequency Range High (-5 dB Standard)	17000.00 Hz
SPL Stimulus	Broadband pink noise, crest factor 4
Cabinets per D80/30D	2 (AP), 4 (Line or Arc)
Power Handling Capacity LF Front Peak 1	2000.00 W
Power Handling Capacity LF Front RMS	500.00 W
Power Handling Capacity MHF Peak 10 m	800.00 W
Power Handling Capacity MHF RMS	200.00 W
Coverage Horizontal	120.000°
Splay Angle Maximum	7.000°
Splay Angle Minimum	0.000°
Weight	60.000 kg
LF Front Diameter	12"
LF Front Quantity	2
MF Diameter	10"
MF Quantity	1
HF Diameter	3"
HF Quantity	2
HF Exit	1.4"
Connections	2xNLT4F/M or 2xEP5 or NL8
Cabinet Materials	Marine Plywood
Cost MSRP	0.00
Cost Project	0.00

<< Preview OK Cancel Apply

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11. Schedules

Note:

The *Communication Device* Schedule in *d&b audiotechnik Revit Families J-Series.rvt*.

It counts the components including their data.

A	B	C	D	E	F	G
Type	Type	Weight	Connections	Manufacturer	Model	Part Number
d&b J-Series Flying Frame	J Flying Frame	65.00 kg		d&b audiotechnik	J Flying Frame	Z5300 J Flying Frame
d&b J-Series J-SUB	J-SUB	106.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J-SUB	Z0660 Large format flyable ci
d&b J-Series Ground Stacked Ar	J-Series Ground Stacked			d&b audiotechnik	Ground Stacked Array with max. 6 J-SUB Subwoofers	
d&b J-Series J-SUB	J-SUB	106.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J-SUB	Z0660 Large format flyable ci
d&b J-Series J-SUB	J-SUB	106.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J-SUB	Z0660 Large format flyable ci
d&b J-Series J-SUB	J-SUB	106.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J-SUB	Z0660 Large format flyable ci
d&b J-Series Flown Array - Sub	J-Series Flown Array - Su			d&b audiotechnik	Flown Array with max. 14 J-SUB Subwoofers	
d&b J-Series Flying Frame	J Flying Frame	65.00 kg		d&b audiotechnik	J Flying Frame	Z5300 J Flying Frame
d&b J-Series J-SUB	J-SUB	106.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J-SUB	Z0660 Large format flyable ci
d&b J-Series J-SUB	J-SUB	106.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J-SUB	Z0660 Large format flyable ci
d&b J-Series J-SUB	J-SUB	106.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J-SUB	Z0660 Large format flyable ci
d&b J-Series J-SUB	J-SUB	106.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J-SUB	Z0660 Large format flyable ci
d&b J-Series TOP	J8	60.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J8	Z0650 Line array module for l
d&b J-Series TOP	J12	60.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J12	Z0651 Line array module for l
d&b J-Series TOP	J8	60.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J8	Z0650 Line array module for l
d&b J-Series Flown Array - Loud	J-Series Flown Array - Lo			d&b audiotechnik	Flown Array with max. 24 J8/J12 Loudspeakers	
d&b J-Series Flying Frame	J Flying Frame	65.00 kg		d&b audiotechnik	J Flying Frame	Z5300 J Flying Frame
d&b J-Series TOP	J8	60.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J8	Z0650 Line array module for l
d&b J-Series TOP	J8	60.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J8	Z0650 Line array module for l
d&b J-Series TOP	J8	60.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J8	Z0650 Line array module for l
d&b J-Series TOP	J8	60.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J8	Z0650 Line array module for l
d&b J-Series TOP	J8	60.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J8	Z0650 Line array module for l
d&b J-Series J-SUB	J-SUB	106.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J-SUB	Z0660 Large format flyable ci
d&b J-Series J-SUB	J-SUB	106.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J-SUB	Z0660 Large format flyable ci
d&b J-Series J-SUB	J-SUB	106.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J-SUB	Z0660 Large format flyable ci
d&b J-Series J-SUB	J-SUB	106.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J-SUB	Z0660 Large format flyable ci
d&b J-Series J-SUB	J-SUB	106.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J-SUB	Z0660 Large format flyable ci
d&b J-Series J-INFRA	J-INFRA	152.00 kg	1xNLT4F/M or 1xEP5 or NL8	d&b audiotechnik	J-INFRA	Z1000 Large format cardioid
d&b J-Series Flown Array - Sub	J-Series Flown Array - Su			d&b audiotechnik	Flown Array with max 10 J-SUB Subwoofers and max	
d&b J-Series Flying Frame	J Flying Frame	65.00 kg		d&b audiotechnik	J Flying Frame	Z5300 J Flying Frame
d&b J-Series J-SUB	J-SUB	106.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J-SUB	Z0660 Large format flyable ci
d&b J-Series J-SUB	J-SUB	106.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J-SUB	Z0660 Large format flyable ci
d&b J-Series Ground Stacked Ar	J-Series Ground Stacked			d&b audiotechnik GmbH	Groundstack Line Array with max. 6 J8/J12 Loudspea	
d&b J-Series Flying Frame	J Flying Frame	65.00 kg		d&b audiotechnik	J Flying Frame	Z5300 J Flying Frame
d&b J-Series TOP	J8	60.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J8	Z0650 Line array module for l
d&b J-Series TOP	J8	60.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J8	Z0650 Line array module for l
d&b J-Series TOP	J8	60.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J8	Z0650 Line array module for l
d&b J-Series TOP	J8	60.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J8	Z0650 Line array module for l
d&b J-Series TOP	J8	60.00 kg	2xNLT4F/M or 2xEP5 or NL8	d&b audiotechnik	J8	Z0650 Line array module for l

12. Tags

You can use the integrated d&b annotation tag to automatically annotate the types with part number or Type name.

