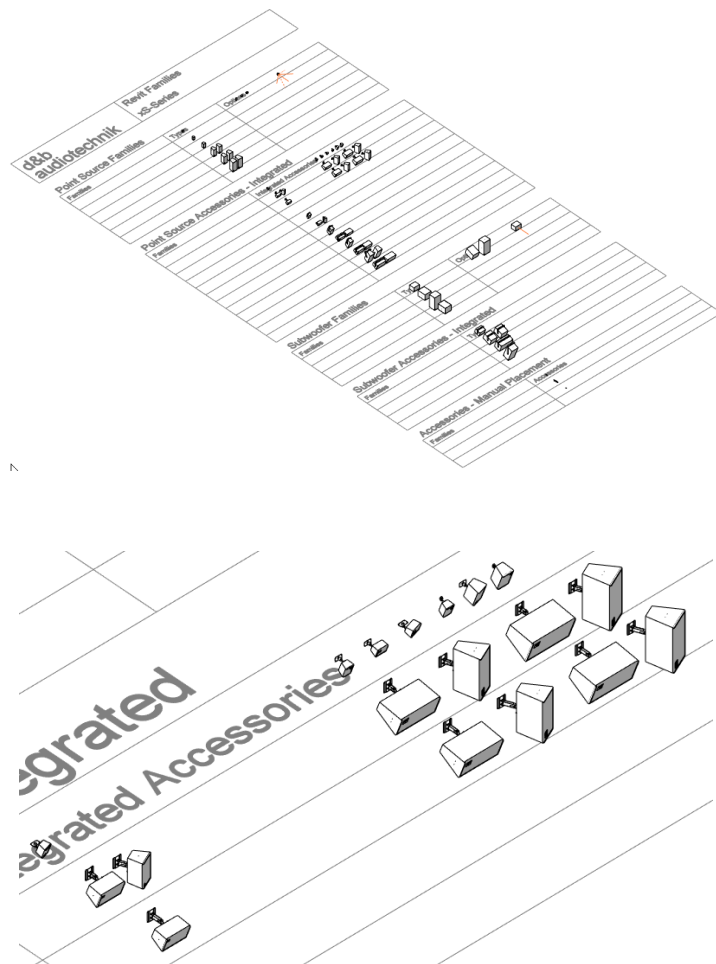


# d&b audiotechnik Revit Families xS-Series - Readme

## 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 xS-Series.rvt*. Basically, the families are split into point source 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<br>xS-Series |  | Version 02.12.19 |  |  |
| Point Source Families  |                        |                             |  |                  |  |  |
| Families   | Types                  | Options                     |  |                  |  |  |
| d&b>Series 45PointSource   | 45                     | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 55PointSource   | 55                     | 1700, 1700                  |  |                  |  |  |
| d&b>Series 65PointSource   | 65                     | 1700, 1700                  |  |                  |  |  |
| d&b>Series 85PointSource   | 85                     | 1700, 1700                  |  |                  |  |  |
| d&b>Series 125PointSource  | 125                    | 1700, 1700                  |  |                  |  |  |
| d&b>Series 275PointSource  | 275                    | 1700, 1700                  |  |                  |  |  |
| d&b>Series 45PointSource   | 45                     | 1700, 1700                  |  |                  |  |  |
| Please observe the corresponding picture for<br>a better display of the accessories! |                        |                             |  |                  |  |  |
| Point Source Accessories - Integrated  |                        |                             |  |                  |  |  |
| Families   | Integrated Accessories |                             |  |                  |  |  |
| d&b>Series 45Subwoofer   | 45                     | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 55Subwoofer   | 55                     | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 65Subwoofer   | 65                     | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 85Subwoofer   | 85                     | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 125Subwoofer  | 125                    | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 275Subwoofer  | 275                    | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 45Flying Cusper   | 45                     | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 55Subwoofer   | 55                     | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 65Subwoofer   | 65                     | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 85Subwoofer   | 85                     | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 125Subwoofer  | 125                    | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 275Subwoofer  | 275                    | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 45Subwoofer   | 45                     | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 55Subwoofer   | 55                     | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 65Subwoofer   | 65                     | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 85Subwoofer   | 85                     | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 125Subwoofer  | 125                    | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 275Subwoofer  | 275                    | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 45Subwoofer   | 45                     | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 55Subwoofer   | 55                     | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 65Subwoofer   | 65                     | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 85Subwoofer   | 85                     | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 125Subwoofer  | 125                    | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 275Subwoofer  | 275                    | 1700, 1700, 1700            |  |                  |  |  |
| Subwoofer Families   |                        |                             |  |                  |  |  |
| Families   | Types                  | Options                     |  |                  |  |  |
| d&b>Series 125Subwoofer  | 125                    | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 185Subwoofer  | 185                    | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 275Subwoofer  | 275                    | 1700, 1700, 1700            |  |                  |  |  |
| d&b>Series 275Subwoofer  | 275                    | 1700, 1700, 1700            |  |                  |  |  |
| Please observe the corresponding picture for<br>a better display of the accessories! |                        |                             |  |                  |  |  |
| Subwoofer Accessories - Integrated   |                        |                             |  |                  |  |  |
| Families   | Types                  |                             |  |                  |  |  |
| d&b>Series 125Subwoofer  | 1700, 1700, 1700       |                             |  |                  |  |  |
| d&b>Series 185Subwoofer  | 1700, 1700, 1700       |                             |  |                  |  |  |
| d&b>Series 275Subwoofer  | 1700, 1700, 1700       |                             |  |                  |  |  |
| d&b>Series 275Subwoofer  | 1700, 1700, 1700       |                             |  |                  |  |  |
| Accessories - Manual Placement   |                        |                             |  |                  |  |  |
| Families   | Accessories            |                             |  |                  |  |  |
| d&b>Series 125Flying Cusper  | 1700, 1700, 1700       |                             |  |                  |  |  |
| d&b>Series 185Flying Cusper  | 1700, 1700, 1700       |                             |  |                  |  |  |
| d&b>Series 275Flying Cusper  | 1700, 1700, 1700       |                             |  |                  |  |  |



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

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

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

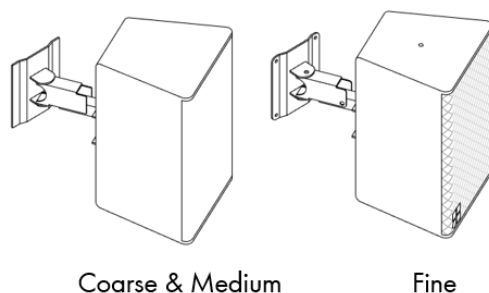
1. Open your project.
2. Open the *d&b audiotechnik Revit Families xS-Series.rvt*.
3. In this project, select a family.
4. In the *Modify* menu run *Edit Family*.  
This opens the Family Editor.
5. From here, run *Load into Project* (or *Load into Project and Close*) and select your project.  
The family 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.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 *Type Properties* of the families. The materials are already set for visualization in Revit. xS-Series loudspeaker and accessories are available in black or white as well as in Special Color according to the RAL table.

Enclosure: d&b Paint Black  
Grill: d&b xS Metal Grill Black  
Logo: d&b xS Metal Logo Black  
Accessories: 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.

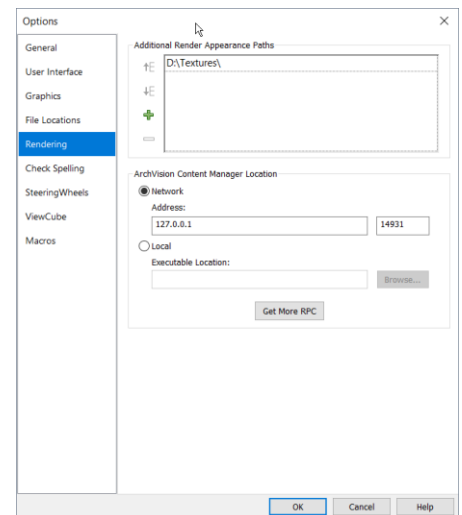
The xS-Series is using custom textures for the grill and the logo.

|   |                          |
|---|--------------------------|
|  | d&b always black         |
|  | d&b Metal Black          |
|  | d&b Paint Black          |
|  | d&b Text                 |
|  | d&b xS Metal Grill Black |
|  | d&b xS Metal Logo Black  |

## d&b audiotechnik Revit Families xS-Series - Readme

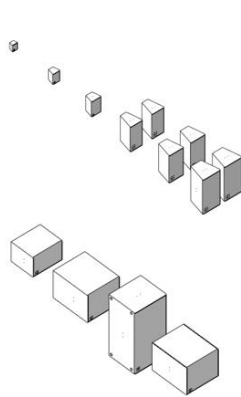
In order to view these materials properly in realistic views and renderings:

1. Extract the Textures.zip from the Revit ZIP-archive.
2. In Revit, run Menu Browser > Options (File menu in Revit versions later than 2016), switch to the Render tab and set the "Additional Render Appearance Paths" in the Revit Options dialog to the folder where you have unzipped the jpg's (in the screenshot, the textures have been extracted to D:\Textures).

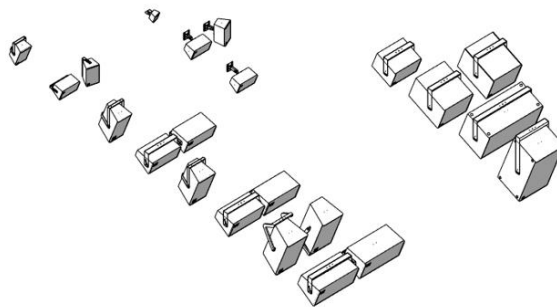


### 5. Point source families

The point source families are usually placed on a level. Pitch, Panning & Rotation parameters allow you to rotate them according to the installation. Use the Offset parameter in the Properties to set the component on a specific height. Coverage lines and rotated horn can be shown. Note that accessories show up only with selected settings for Pitch, Panning & Rotation. Additional accessories can be placed manually.



TOP / SUB




Integrated accessories



Additional accessories

## 6. Point source families properties

Properties

 d&b xS-Series 8S Point Source 8S

Communication Devices (1) Edit Type

**Constraints**

|                           |                          |
|---------------------------|--------------------------|
| Panning                   | 0.000°                   |
| Pitch                     | -20.000°                 |
| Rotation                  | 90.000°                  |
| Level                     | Level 1                  |
| Host                      | Level : Level 1          |
| Offset                    | 1000.0 mm                |
| Moves With Nearby Elem... | <input type="checkbox"/> |

**Construction**

|                    |                                     |
|--------------------|-------------------------------------|
| Wall Mount M       | <input checked="" type="checkbox"/> |
| Wall Mount L       | <input type="checkbox"/>            |
| Flying Bracket     | <input type="checkbox"/>            |
| Horizontal Bracket | <input type="checkbox"/>            |

**Graphics**

|                 |                                     |
|-----------------|-------------------------------------|
| Coverage        | <input type="checkbox"/>            |
| Coverage Length | 1000.0 mm                           |
| Logo            | <input checked="" type="checkbox"/> |

**Materials and Finishes**

|                      |                          |
|----------------------|--------------------------|
| Accessories Material | d&b Metal Black          |
| Enclosure Material   | d&b Paint Black          |
| Grill Material       | d&b xS Metal Grill Black |
| Logo Material        | d&b xS Metal Logo Black  |
| Metal Material       | d&b Metal Black          |

### Constraints

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

When Panning is not available for selected families, use the Revit Rotate tool.

### Construction

Check boxes to set the accessories.

Please select only one of the accessories.

### Exception:

Wall Mount S can have the mounting plate switched off additionally.

### Notes:

Some of the accessories are only displayed, if this is allowed by the Rotation, Panning or Pitch value, i.e. the Wall Mount Horizontal Bracket is not shown with rotation 0.000 degree, but with 90 or -90 degree. Note the sample settings in the d&b audiotechnik Revit Families xS-Series.rvt.

### Graphics

Shows the coverage lines and the length of the Coverage lines. Further the d&b Logo can be deactivated. If you select *Rotated Horn* under the *Construction* group, Coverage lines will be rotated as well.

### Materials

Assigns the d&b materials for selected components of speakers, subs and accessories.

## 9. 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.

## 10. Schedules

### Note:

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

## d&b audiotechnik Revit Families xS-Series - Readme

It counts the components including their data.

| A                                   | B                       | C                     | D                     | E           |
|-------------------------------------|-------------------------|-----------------------|-----------------------|-------------|
| Family                              | Type                    | Manufacturer          | Model                 | Part Number |
| d8b E8 I E12 Flying Adapter         | E8 I E12 Flying Adapter | d8b audiotechnik GmbH | E8/E12 Flying Adapter | Z5354       |
| d8b xS-Series 4S Point Source       | 4S                      | d8b audiotechnik GmbH | xS 4S Loudspeaker     | Z1615       |
| d8b xS-Series 4S Point Source       | 4S                      | d8b audiotechnik GmbH | xS 4S Loudspeaker     | Z1615       |
| d8b xS-Series 4S Point Source       | 4S                      | d8b audiotechnik GmbH | xS 4S Loudspeaker     | Z1615       |
| d8b xS-Series 4S Point Source       | 4S                      | d8b audiotechnik GmbH | xS 4S Loudspeaker     | Z1615       |
| d8b xS-Series 4S Point Source       | 4S                      | d8b audiotechnik GmbH | xS 4S Loudspeaker     | Z1615       |
| d8b xS-Series 4S Point Source       | 4S                      | d8b audiotechnik GmbH | xS 4S Loudspeaker     | Z1615       |
| d8b xS-Series 4S Point Source       | 4S                      | d8b audiotechnik GmbH | xS 4S Loudspeaker     | Z1615       |
| d8b xS-Series 4S Point Source       | 4S                      | d8b audiotechnik GmbH | xS 4S Loudspeaker     | Z1615       |
| d8b xS-Series 4S Point Source       | 4S                      | d8b audiotechnik GmbH | xS 4S Loudspeaker     | Z1615       |
| d8b xS-Series 5S Point Source       | 5S                      | d8b audiotechnik GmbH | xS 5S Loudspeaker     | Z1616       |
| d8b xS-Series 5S Point Source       | 5S                      | d8b audiotechnik GmbH | xS 5S Loudspeaker     | Z1616       |
| d8b xS-Series 5S Point Source       | 5S                      | d8b audiotechnik GmbH | xS 5S Loudspeaker     | Z1616       |
| d8b xS-Series 8S Point Source       | 8S                      | d8b audiotechnik GmbH | xS 8S Loudspeaker     | Z1617       |
| d8b xS-Series 8S Point Source       | 8S                      | d8b audiotechnik GmbH | xS 8S Loudspeaker     | Z1617       |
| d8b xS-Series 8S Point Source       | 8S                      | d8b audiotechnik GmbH | xS 8S Loudspeaker     | Z1617       |
| d8b xS-Series 8S Point Source       | 8S                      | d8b audiotechnik GmbH | xS 8S Loudspeaker     | Z1617       |
| d8b xS-Series 8S Point Source       | 8S                      | d8b audiotechnik GmbH | xS 8S Loudspeaker     | Z1617       |
| d8b xS-Series 8S Flying Bracket     | 8S Flying Bracket       | d8b audiotechnik GmbH | 8S Flying Bracket     | Z5404       |
| d8b xS-Series 8S Horizontal Bracket | 8S Horizontal Bracket   | d8b audiotechnik GmbH | 8S Horizontal Bracket | Z5408       |
| d8b xS-Series 8S Point Source       | 8S                      | d8b audiotechnik GmbH | xS 8S Loudspeaker     | Z1617       |
| d8b xS-Series 8S Horizontal Bracket | 8S Horizontal Bracket   | d8b audiotechnik GmbH | 8S Horizontal Bracket | Z5408       |
| d8b xS-Series Wall Mount M          | Wall Mount M            | d8b audiotechnik GmbH | Wall Mount M          | Z5402       |
| d8b xS-Series Wall Mount M          | Wall Mount M            | d8b audiotechnik GmbH | Wall Mount M          | Z5402       |
| d8b xS-Series 8S Point Source       | 8S                      | d8b audiotechnik GmbH | xS 8S Loudspeaker     | Z1617       |
| d8b xS-Series Wall Mount L          | Wall Mount L            | d8b audiotechnik GmbH | xS Wall Mount L       | Z5403       |
| d8b xS-Series Wall Mount S          | Wall Mount S            | d8b audiotechnik GmbH | xS Wall Mount S       | Z5422       |
| d8b xS-Series Wall Mount S          | Wall Mount S            | d8b audiotechnik GmbH | xS Wall Mount S       | Z5422       |
| d8b xS-Series Wall Mount S          | Wall Mount S            | d8b audiotechnik GmbH | xS Wall Mount S       | Z5422       |
| d8b xS-Series Wall Mount S          | Wall Mount S            | d8b audiotechnik GmbH | xS Wall Mount S       | Z5422       |
| d8b xS-Series Wall Mount S          | Wall Mount S            | d8b audiotechnik GmbH | xS Wall Mount S       | Z5422       |
| d8b xS-Series Wall Mount S          | Wall Mount S            | d8b audiotechnik GmbH | xS Wall Mount S       | Z5422       |
| d8b xS-Series 10S Point Source      | 10S                     | d8b audiotechnik GmbH | 10S Loudspeaker       | Z1618       |

## 11. Tags

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

