

# d&b audiotechnik Revit Families xS-Series README

## 1. Overview

This collection represents the d&b Revit families for the xS-Series and is based on Revit version 2018. The families are created as Communication Device families. The project *d&b audiotechnik Revit Families xS-Series.rvt* contains all components of the xS-Series, i.e. TOPs, SUBs and accessories. Where applicable, accessories are integrated as nested families in the loudspeaker and subwoofer families and can be scheduled accordingly.



### Point Source Families

Families	Types	Options
d&b xS-Series 4S Point Source	2110 4S	
d&b xS-Series 5S Point Source	2110 5S	
d&b xS-Series 8S Point Source	2117 8S	
d&b xS-Series 10S Point Source	2110 10S 2110 10S-D	
d&b xS-Series 12S Point Source	2124 12S 2124 12S-D	
d&b xS-Series 24S Point Source	2110 24S 2117 24S-D	
d&b xS-Series 42S Point Source	2180 42S	
d&b xS-Series 44S Point Source	2180 44S	

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

### Point Source Accessories - Integrated

Families	Integrated Accessories
d&b xS-Series Wall Mount S	2142 Wall Mount S
d&b xS-Series Wall Mount M	2142 Wall Mount M
d&b xS-Series Wall Mount L	2117 Wall Mount L
d&b xS-Series 8S Flying Bracket	2149 8S Flying Bracket
d&b xS-Series 8S Horizontal Bracket	2149 8S Horizontal Bracket
d&b xS-Series 10S Flying Bracket	2149 10S Flying Bracket
d&b xS-Series 10S Horizontal Bracket	2149 10S Horizontal Bracket
d&b xS-Series 12S Flying Bracket	2149 12S Flying Bracket
d&b xS-Series 12S Horizontal Bracket	2149 12S Horizontal Bracket
d&b xS-Series 24S Flying Bracket	2180 24S Flying Bracket
d&b xS-Series 24S Horizontal Bracket	2110 24S Horizontal Bracket
d&b xS-Series 42S Swivel Bracket	2141 42S Swivel Bracket
d&b xS-Series 42S 1 44S Horizontal Bracket	2141 42S 1 44S Horizontal Bracket
d&b xS-Series 42S 1 44S Ball Joint	2141 42S 1 44S Ball Joint
d&b xS-Series 44S L-Mount Adapter	2142 44S L-Mount Adapter
d&b xS-Series 44S Swivel Bracket	2142 44S Swivel Bracket
d&b xS-Series 42S 1 44S Mounting Bracket	2142 42S 1 44S Mounting Bracket

### Subwoofer Families

Families	Types	Options
d&b xS-Series 12S Subwoofer	2130 12S Sub	
d&b xS-Series 18S Subwoofer	2130 18S Sub	
d&b xS-Series 21S Subwoofer	2130 21S Sub	
d&b xS-Series 27S Subwoofer	2130 27S Sub	

### Subwoofer Accessories - Integrated

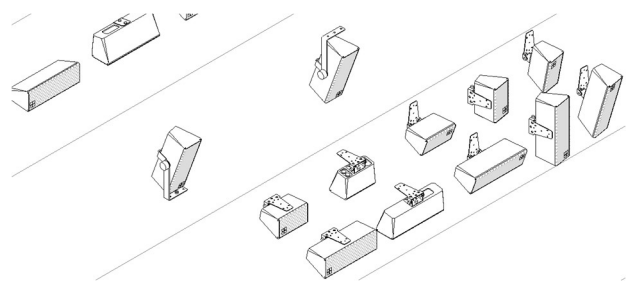
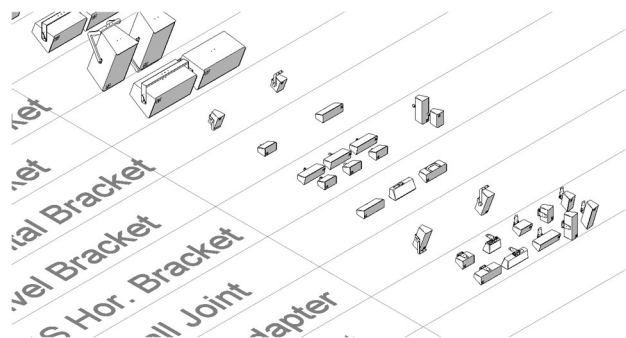
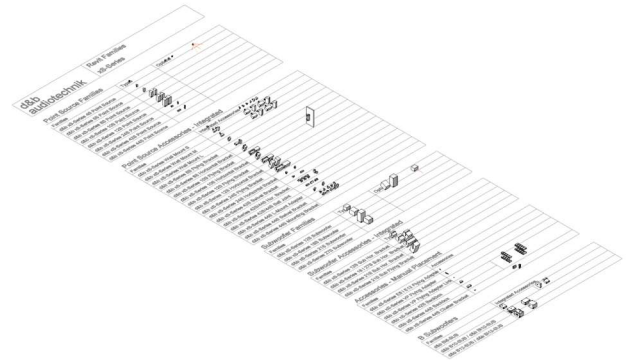
Families	Types
d&b xS-Series 12S Sub Horizontal Bracket	2142 12S Sub Horizontal Bracket
d&b xS-Series 18 127S Sub Horizontal Bracket	2142 18 127S Sub Horizontal Bracket
d&b xS-Series 21S Sub Horizontal Bracket	2180 21S Sub Horizontal Bracket
d&b xS-Series 21S Sub Flying Bracket	2130 21S Sub Flying Bracket

### Accessories - Manual Placement

Families	Accessories
d&b ES 1 E12 Flying Adapter	2154 12 1 E12 Flying Adapter
d&b VP Flying Adapter	2154 VP Flying Adapter
d&b VP Flying Adapter Link	2155 VP Flying Adapter Link
d&b xS-Series 42S Backbox	2142 42S Backbox
d&b xS-Series 44S Backbox	2142 44S Backbox
d&b xS-Series 44S Cluster Bracket	2142 44S Cluster Bracket

### B Subwoofers

Families	Integrated Accessories
d&b B8-SUB	2137 B8-SUB
d&b B10-SUB / d&b B10-SUB	2137 B10-SUB
d&b B12-SUB / d&b B12-SUB	2137 B12-SUB



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

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

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

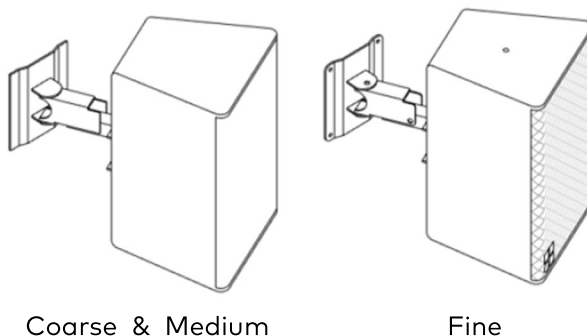
1. Open your project.
2. Open *d&b audiotechnik Revit Families xS-Series.rvt*
3. In this project, select a family.
4. In the *Modify* menu, run *Edit Family*.  
This opens the Family Editor.
5. From here, run *Load into Project* (or *Load into Project and Close*) and select your project.  
The family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

#### Notes:

Do not "Copy and Paste" from project to project, as this will copy only the selected type into your project, and no other elements of the respective family.

### 3. Detail Levels

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



### 4. Materials

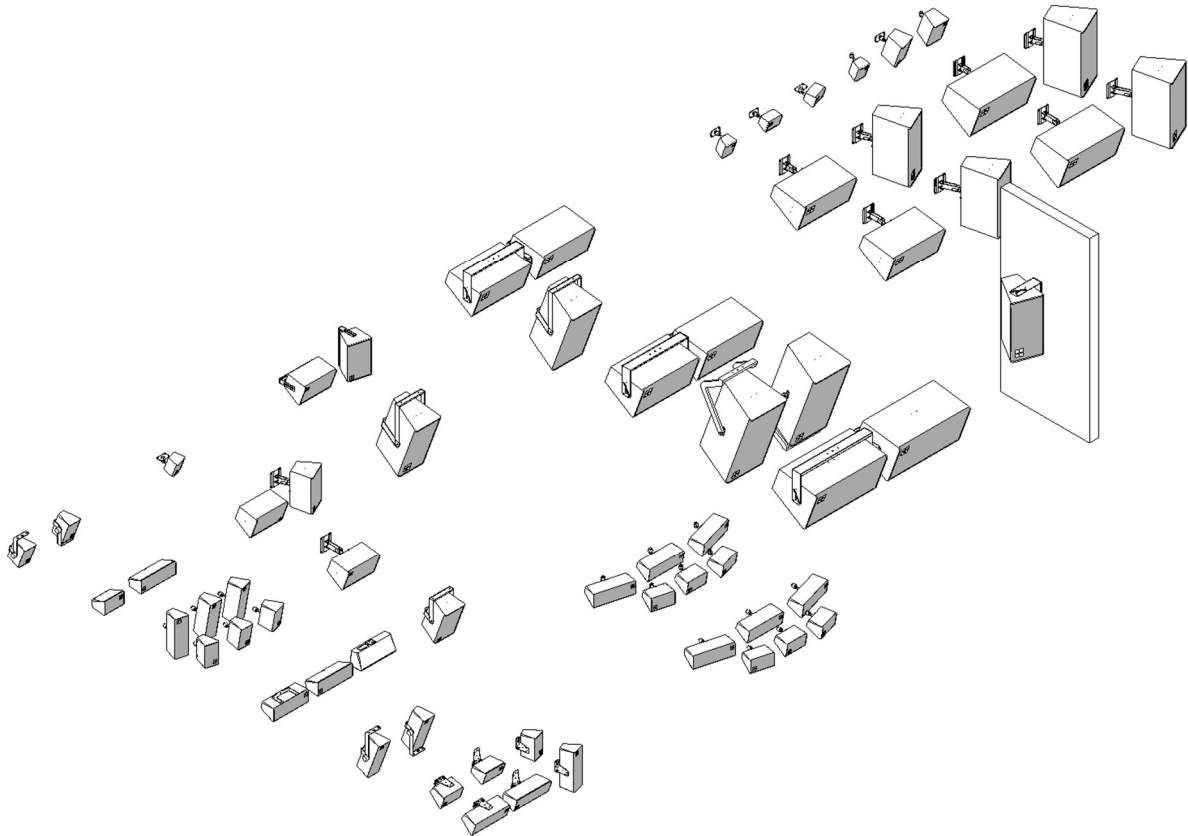
d&b audiotechnik Materials and textures for visualization are already set in the families' Properties. The *d&b always black* Material is used for parts of the components which you cannot order in a different color.

The xS-Series is using 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 colors.

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



### 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 mounting method (floor, wall and ceiling). Use the Offset parameter in the Properties to set the component to 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.



4S, 5S, 8S, 10S, 12S, 24S, 42S, 44S and integrated accessories

## 6. Point source families properties

Properties	
	d&b xS-Series 44S Point Source 44S
Communication Devices (1)  Edit	
Constraints	
Panning	0.00°
Pitch	-90.00°
Rotation	180.00°
Level	Level 1
Host	Level : Level 1
Offset	1000.0 mm
Moves With Nearby Elements	<input type="checkbox"/>
Construction	
Rotated Horn	<input type="checkbox"/>
Ball Joint Wall	<input type="checkbox"/>
Ball Joint Ceiling	<input type="checkbox"/>
Ball Joint Stand	<input type="checkbox"/>
L Mount Adapter	<input type="checkbox"/>
Swivel Bracket Top	<input type="checkbox"/>
Swivel Bracket Bottom	<input type="checkbox"/>
Mounting Bracket Ceiling	<input checked="" type="checkbox"/>
Mounting Bracket Wall Plate Vert...	<input type="checkbox"/>
Mounting Bracket Wall Plate Hori...	<input type="checkbox"/>
Mounting Bracket Wall Plate Vert...	<input type="checkbox"/>
Horizontal Bracket	<input type="checkbox"/>
Grill	<input checked="" type="checkbox"/>
Graphics	
Mounting Bracket Ceiling Plate O...	<input type="checkbox"/>
Mounting Bracket Ceiling Plate O...	<input checked="" type="checkbox"/>
Grill Rotated	<input type="checkbox"/>
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

### Constraints

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

### Construction

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

### Notes:

Some of the accessories are only displayed if this is permitted by the Rotation, Panning or Pitch value. I.e., the 44S Ceiling Ball Joint is not shown with *Rotation* 0.00 degrees, but with **90.00** degrees.

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.

### Material

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

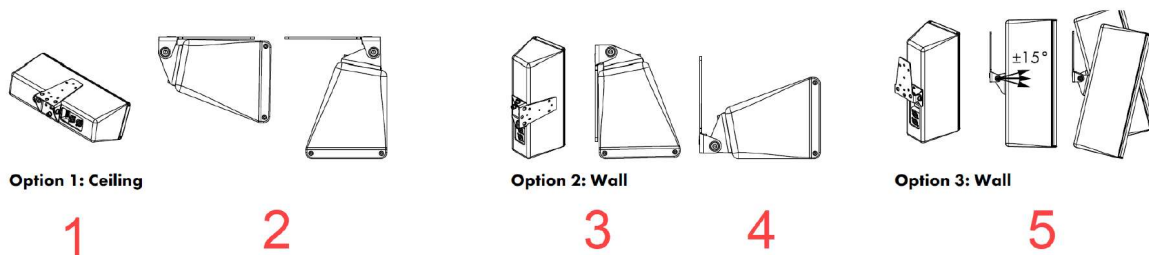
### Grill Rotated (for 42S, 44S only)

The option "Grill Rotated" rotates the grill by 180 degrees and affects the position of the d&b logo.

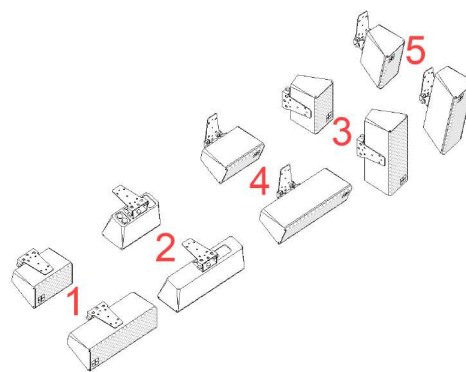
## 7. 42S/44S Mounting Bracket Accessories

Note the options for the 42S/44S accessories, as set in the project, including the parameters Panning, Pitch and Rotation.

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



Construction	
Rotated Horn	<input type="checkbox"/>
Ball Joint Wall	<input type="checkbox"/>
Ball Joint Ceiling	<input type="checkbox"/>
Ball Joint Stand	<input type="checkbox"/>
L Mount Adapter	<input type="checkbox"/>
Swivel Bracket Top	<input type="checkbox"/>
Swivel Bracket Bottom	<input type="checkbox"/>
Mounting Bracket Ceiling	<input type="checkbox"/>
Mounting Bracket Wall Plate Vert...	<input type="checkbox"/>
Mounting Bracket Wall Plate Hori...	<input type="checkbox"/>
Mounting Bracket Wall Plate Vert...	<input type="checkbox"/>
Horizontal Bracket	<input type="checkbox"/>
Grill	<input checked="" type="checkbox"/>
Graphics	
Mounting Bracket Ceiling Plate O...	<input checked="" type="checkbox"/>
Mounting Bracket Ceiling Plate O...	<input type="checkbox"/>
Grill Rotated	<input type="checkbox"/>
Coverage	<input type="checkbox"/>
Coverage Length	1000.0 mm
Logo	<input checked="" type="checkbox"/>



Top: Screenshot from the manual  
Bottom: Settings in Revit

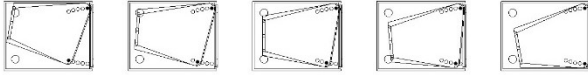
## 8. Backbox installation

Note the settings for the 42S and 44S backbox installation:

### 42S Backbox:

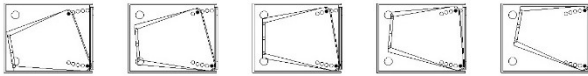
Rotation 0°

Pitch -20° -15° -10° -5° 0°



Rotation 180°

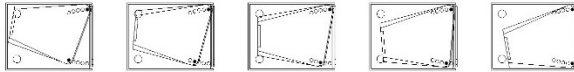
Pitch 20° 15° 10° 5° 0°



### 44S Backbox:

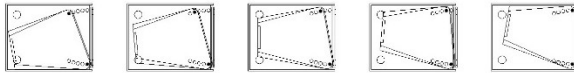
Rotation 0°

Pitch -20° -15° -10° -5° 0°



Rotation 180°

Pitch 20° 15° 10° 5° 0°



## 9. Type properties

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

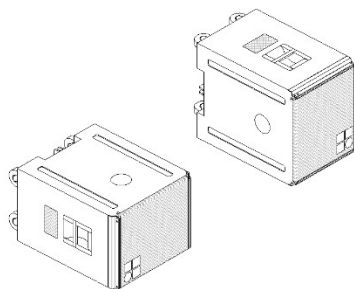
Data	
Frequency Range Low (-5 dB Standard)	61.00 Hz
Frequency Range High (-5 dB Standard)	1800.00 Hz
Max. SPL (1m, Free Field) with any current d	128
SPL Max	128
SPL Stimulus	SPL max peak test signal: pink noise with
Cabinets per D80	3
Power Handling Capacity Peak 10 ms	500.00 W
Power Handling Capacity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

## 10. Subwoofer families

The xS-Series contains the following subwoofers:

12S-SUB, 18S-SUB, 21S-SUB, 27S-SUB and Bi8-SUB, B10-SUB Bi10-SUB, B12-SUB, Bi12-SUB.

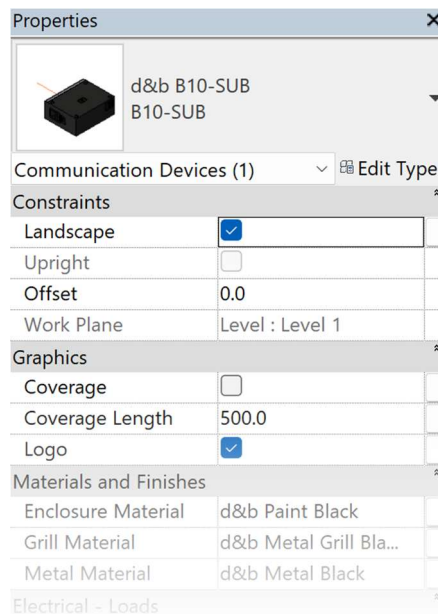
The subwoofer families are usually placed on a level. Use the Offset parameter in the Properties to set the component to a specific height. The "Landscape" and "Upright" parameters adjust the subwoofers' orientation.



SUBs with "Landscape" (left)  
and  
"Upright" (right) orientation



## 11. 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 also the d&b logo can be deactivated.

### Materials

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

For custom materials, note chapter 4. Materials

## 12. Schedules

### Note:

The *Communication Device Schedule* in *d&b audiotechnik Revit Families xS-Series.rvt* lists all the d&b components in the project including their data.

Family	Type	Manufacturer	Model	Part Number	
d&b E8   E12 Flying Adapter	E8   E12 Flying Adapter	d&b audiotechnik	E8/E12 Flying Adapter	Z5354	E8/E12 Flying Adapter
d&b xS-Series 4S Point Source	4S	d&b audiotechnik	xS 4S Loudspeaker	Z1615	High performance 2-way
d&b xS-Series 4S Point Source	4S	d&b audiotechnik	xS 4S Loudspeaker	Z1615	High performance 2-way
d&b xS-Series 4S Point Source	4S	d&b audiotechnik	xS 4S Loudspeaker	Z1615	High performance 2-way
d&b xS-Series 4S Point Source	4S	d&b audiotechnik	xS 4S Loudspeaker	Z1615	High performance 2-way
d&b xS-Series 4S Point Source	4S	d&b audiotechnik	xS 4S Loudspeaker	Z1615	High performance 2-way
d&b xS-Series 4S Point Source	4S	d&b audiotechnik	xS 4S Loudspeaker	Z1615	High performance 2-way
d&b xS-Series 4S Point Source	4S	d&b audiotechnik	xS 4S Loudspeaker	Z1615	High performance 2-way
d&b xS-Series 4S Point Source	4S	d&b audiotechnik	xS 4S Loudspeaker	Z1615	High performance 2-way
d&b xS-Series 4S Point Source	4S	d&b audiotechnik	xS 4S Loudspeaker	Z1615	High performance 2-way
d&b xS-Series 5S Point Source	5S	d&b audiotechnik	xS 5S Loudspeaker	Z1616	High performance 2-way
d&b xS-Series 5S Point Source	5S	d&b audiotechnik	xS 5S Loudspeaker	Z1616	High performance 2-way
d&b xS-Series 5S Point Source	5S	d&b audiotechnik	xS 5S Loudspeaker	Z1616	High performance 2-way
d&b xS-Series 5S Point Source	5S	d&b audiotechnik	xS 5S Loudspeaker	Z1616	High performance 2-way
d&b xS-Series 8S Point Source	8S	d&b audiotechnik	xS 8S Loudspeaker	Z1617	High performance 2-way
d&b xS-Series 8S Point Source	8S	d&b audiotechnik	xS 8S Loudspeaker	Z1617	High performance 2-way
d&b xS-Series 8S Point Source	8S	d&b audiotechnik	xS 8S Loudspeaker	Z1617	High performance 2-way
d&b xS-Series 8S Point Source	8S	d&b audiotechnik	xS 8S Loudspeaker	Z1617	High performance 2-way
d&b xS-Series 8S Point Source	8S	d&b audiotechnik	xS 8S Loudspeaker	Z1617	High performance 2-way
d&b xS-Series 8S Flying Bracket	8S Flying Bracket	d&b audiotechnik	8S Flying Bracket	Z5404	8S Flying Bracket
d&b xS-Series 8S Horizontal Bracket	8S Horizontal Bracket	d&b audiotechnik	8S Horizontal Bracket	Z5408	8S Horizontal Bracket
d&b xS-Series 8S Point Source	8S	d&b audiotechnik	xS 8S Loudspeaker	Z1617	High performance 2-way
d&b xS-Series 8S Horizontal Bracket	8S Horizontal Bracket	d&b audiotechnik	8S Horizontal Bracket	Z5408	8S Horizontal Bracket
d&b xS-Series Wall Mount M	Wall Mount M	d&b audiotechnik	Wall Mount M	Z5402	
d&b xS-Series 8S Point Source	8S	d&b audiotechnik	xS 8S Loudspeaker	Z1617	High performance 2-way
d&b xS-Series Wall Mount L	Wall Mount L	d&b audiotechnik	xS Wall Mount L	Z5403	
d&b xS-Series 10S Point Source	10S	d&b audiotechnik	10S Loudspeaker	Z1618	High performance 2-way
d&b xS-Series 10S Point Source	10S-D	d&b audiotechnik	10S-D Loudspeaker	Z1619	High performance 2-way
d&b xS-Series 10S Point Source	10S	d&b audiotechnik	10S Loudspeaker	Z1618	High performance 2-way
d&b xS-Series 10S Point Source	10S	d&b audiotechnik	10S Loudspeaker	Z1618	High performance 2-way
d&b xS-Series Wall Mount L	Wall Mount L	d&b audiotechnik	xS Wall Mount L	Z5403	
d&b xS-Series 10S Point Source	10S	d&b audiotechnik	10S Loudspeaker	Z1618	High performance 2-way
d&b xS-Series 10S Flying Bracket	10S Flying Bracket	d&b audiotechnik	10S Flying Bracket	Z5405	
d&b xS-Series 10S Point Source	10S	d&b audiotechnik	10S Loudspeaker	Z1618	High performance 2-way
d&b xS-Series 10S Horizontal Bracket	10S Horizontal Bracket	d&b audiotechnik	10S Horizontal Bracket	Z5409	
d&b xS-Series 10S Point Source	10S	d&b audiotechnik	10S Loudspeaker	Z1618	High performance 2-way
d&b xS-Series 10S Horizontal Bracket	10S Horizontal Bracket	d&b audiotechnik	10S Horizontal Bracket	Z5409	
d&b xS-Series 10S Point Source	10S	d&b audiotechnik	10S Loudspeaker	Z1618	High performance 2-way
d&b xS-Series Wall Mount M	Wall Mount M	d&b audiotechnik	Wall Mount M	Z5402	
d&b xS-Series 10S Point Source	10S	d&b audiotechnik	10S Loudspeaker	Z1618	High performance 2-way
d&b xS-Series Wall Mount L	Wall Mount L	d&b audiotechnik	xS Wall Mount L	Z5403	
d&b xS-Series 10S Point Source	10S	d&b audiotechnik	10S Loudspeaker	Z1618	High performance 2-way



13. Tags

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

		Z1610	24S
		Z1611	24S-D
<hr/>			
		Z1660	42S
<hr/>			
		Z1650	44S