ADORN on-wall Revit family

The Revit family for the ADORN A series includes all ten models of ADORN on-wall loudspeaker:

A40 black	A40 white
A40T black	A40T white
A55 black	A55 white
A55T black	A55T white
A80T black	A80T white

The zip file contains two files:

- An RFA file.
- A text file that serves as the family type library (this includes the specification data from the datasheets).

Extract these two files to the same directory and make sure they have the same name. When you import the family into a project, the text file triggers a dialog box listing all available types (loudspeaker models) and their data parameters. If you import only the types you need, this will reduce the project file size. To select multiple types, use the standard Ctrl + click and Shift + click selection commands.

The family is based on the Generic Face-Based Family template to allow you to mount speakers on walls and ceilings of an architect's linked model.

- To insert speakers onto walls, select Place on Vertical Face.
- To insert speakers onto ceilings, select Place on Face.

Next, right-click on the speaker and select **Properties**. In the **Model Properties** section, you can set various parameters:

- To add a ceiling bracket, select Ceiling Mounted. This mounts the speaker in the correct position on the correct bracket (ceiling bracket CDDCB6/8 for A80T, ceiling bracket CDDCB5 for other models). It also mounts the speaker in landscape, as you can only install these models in landscape on ceiling brackets.
- To adjust the speaker horizontally on the bracket, set **Azimuth** in degrees.
- To adjust the speaker vertically on the bracket, set **Pitch** in degrees.
- To rotate a speaker from portrait to landscape, select Horizontal Orientation.

 To add a weatherised connector cover for outdoor installation, select Add weatherised connector cover.
For the A80T, this adds connector cover ASF09007.
For the other models, this adds connector cover AIPKIT.

The parameters **Add weatherised connector cover** and **Ceiling Mounted** are **Shared Parameters**. This means that you can use them in schedules, such as a bill of materials (BOM) or an installed cost estimate. When you make changes to the model, the quantities and estimates will adjust automatically.

To see the required electrical power (REP)

Enter the following parameters in the **Model Properties** section:

- D2 (distance from the loudspeaker to the farthest listener of interest)
- Desired Level @ Listener
- Peak Factor

The family will then calculate the minimum **REP** (amplifier power in watts) and the **Recommended Tap Selection**. This is an instance calculation, and the results are **Shared Parameters** allowing you to create schedules listing all loudspeakers in the project with their associated Tap values. You can also create a custom **Multi-Category Tag** to annotate a drawing with tap values for each loudspeaker.

If **Recommended Tap Selection** is "0", the **REP** has exceeded the highest available tap value for the selected loudspeaker.

Symbols

The family includes the AVIXA standard generic symbol. This symbol is **Annotative**, meaning its size adjusts based on the drawing scale of the selected view. You can replace this symbol with your own according to your drawing standards. The Detail View settings for the symbol and the loudspeaker model are:

 Coarse: Display the symbol, but not the loudspeaker model.



- Medium: Display both the symbol and the loudspeaker model.
- Fine: Display the loudspeaker model, but not the symbol.

Note that you can add other parameters and labels (such as **Device Type**, **Sub-Type** and **IDs**) according to your specific design and drawing standards.

Updates to this Revit family

- Version 2022-rev4 (14 February 2025).
- Added support for A80T.
- REP calculation now allows you to choose 70.7 V or 100 V circuit voltages.

ADORN ceiling and pendant speakers

For the ADORN ceiling and pendant speakers, we have two Revit families:

- ADORN ACS series Revit family for ceiling speakers ACS-40TS, ACS-55TS and ACS-55T
- ADORN ACP series Revit family for pendant speaker ACP-55T

To download the ADORN ceiling speaker Revit family

1. From our website martin-audio.com, go to the product page for any of the ADORN ceiling speakers. For example:

martin-audio.com/products/loudspeakers/acs-40ts

2. Click the Technical drawings & 3D models section and select REVIT FILE.

To download the ADORN pendant speaker Revit family

1. From our website martin-audio.com, go to the product page for the ADORN pendant speaker:

martin-audio.com/products/loudspeakers/acp-55t

2. Click the Technical drawings & 3D models section and select REVIT FILE.

