351 361 381 Designer Series In-wall Speaker Systems





Specifications	351	361	381
Frequency Response (±3dB)	65–20,000Hz	57–20,000Hz	48–20,000Hz
Recommended Amplifier Power	10–100 watts	10–125 watts	10–150 watts
Nominal Impedance	8 ohms	8 ohms	8 ohms
Sensitivity [1 watt (2.83v) at 1m]	90dB	89dB	89dB
Tweeter	Kortec 1" (25mm) soft dome	Kortec 1" (25mm)Kortec 1" (25mm)soft domesoft dome	
Bass Unit	5¼" (135mm) copolymer	6½" (165mm) copolymer 8" (200mm) DCD copolyme	
Crossover Frequency	3500Hz	3400Hz 3200Hz	
External Dimensions (HxW)	9½ x6¾" (241 x 171mm)	10% x 7¾ " (268 x 197mm) 12¾ x 9% (315 x 243mm)	
Mounting Hole Cutout (HxW)	8¾ x 5¾" (223 x 146mm)	9 ⁷ / _% x 7 ¹ / _% " (251 x 181mm) 11 ³ / ₄ x 8 ¹ / ₂ " (298 x 216mm)	
Mounting Depth (from surface)	25⁄8" (67mm)	2 ⁷ / ₈ " (73mm) 3 ¹ / ₄ " (83mm)	

Introduction

The Designer Series in-wall speakers are designed to be as accurate, clean and musical as our freestanding speakers. The unobtrusive, flush-mount design makes them ideal for installation in walls or ceilings of rooms where space or decor make conventional speakers undesirable or inappropriate. They can also be used for front and/or rear channels in a home theater system.

The front surface has a matte white finish. The speaker can be installed as is, or can be painted to match the room environment by using the supplied painting mask. The epoxy-painted, galvanized steel speaker grille is removable.

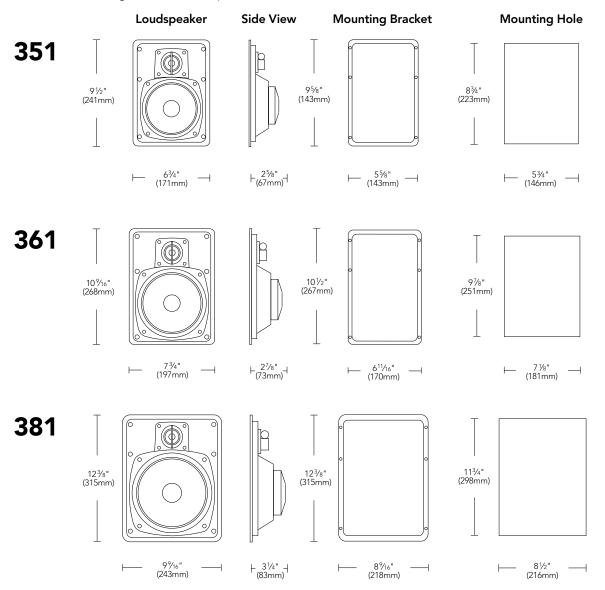
The speakers are constructed of rugged materials suitable for use in a variety of environments, indoors or out. Offering complete placement flexibility, all exposed components are moisture-, rust-, and temperature-resistant for worry-free installation in the bath, kitchen or on the patio.

Their smooth, detailed sound comes from two highly refined driver elements: a powerful, longexcursion copolymer bass unit and our 1-inch (25mm) Kortec[™] soft dome tweeter. The silk-like fabric dome delivers a remarkably accurate response for outstanding clarity and articulation. The tweeter and bass unit are mounted close together in a point-source configuration for excellent imaging and extremely broad, uniform dispersion. This is important, because wide dispersion gives you the flexibility to install the speakers where they look the best (high on the walls, for example), yet still project a smooth, natural sound throughout the listening area.

In combination, these advanced engineering technologies and Boston's state-of-the-art manufacturing facilities give the Designer Series a level of performance unmatched by other in-wall speakers.

Installation Instructions

NOTE: This manual assumes the installer possesses skill in the proper use of hand and power tools, a knowledge of local building and fire codes and a familiarity with the environment behind the wall or ceiling in which the speakers will be installed.



Examine the contents of the package and verify that it contains the following:

Quantity	Description	Quantity	Description
2	Designer Series Speakers	Hardware package* contents:	
2	Mounting Bracket	12	8-32 x 2" screw
2	Barrier Cloth	2	Cable clamp – ³ ⁄16"
2	Painting Mask		
2	Metal Grille	* If the hardware package is missing any items, or is not found,	
1	Template	additional p	ackages are available from Boston Acoustics.
1	Owner's Manual/Installation Instructions		
1	Hardware Package*		
			3

Placement

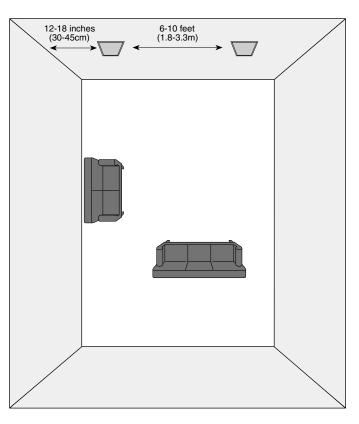
Since the speaker installation is permanent and the furniture placement may not be, the user should first determine the best long-term location — one that will accommodate future relocation of the furniture in the room, while still allowing for an unobstructed sound path from the speakers to the listening area.

Within reason, wherever the speakers look right is where they'll sound right. For best results, place the speakers 6–10 feet (1.8–3.3m) apart, so they form a triangle with the main listening area. Try to keep the speakers at least 12–18 inches (30–45cm) from the nearest reflective surface (side walls or ceiling). When used near a color television, the speakers should be mounted a minimum of 6 inches (150mm) from the TV to avoid interference with the picture.

As a final check on the suitability of the mounting location, it's a good idea to temporarily place a pair of small box speakers, if available, at the mounting locations chosen for the system. This will give the listener an approximate idea of what the speakers will sound like in that location. Listen for pleasing stereo image, realistic stage height or balanced surroundfield coverage (if using the speakers as rearchannel surrounds). Note if any objects in the room impede the sound path from the speakers to the listening area.

Outdoor Use

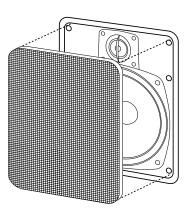
The Designer Series is moisture- and temperature-resistant and may be used outdoors or in a marine setting. Placement under the eaves of a roof or in the cockpit of a boat reduces exposure to constant direct sunlight, precipitation and salt spray, thereby maximizing the speaker's life.



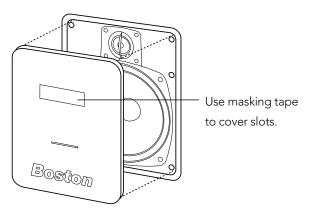
Painting the Speakers

If you intend to paint the speakers, it's best to do so before installation.

1. Remove the speaker grille. Carefully pry at each corner with an awl or small screwdriver.



2. Use the form-fitting painting mask provided to paint the housing. Cover the slots with masking tape.



3. After painting, remove the mask by carefully inserting a screwdriver into the slots. Do not puncture the drivers behind the mask with the screwdriver.

4. When painting the grilles, be certain that the paint does not fill the perforated holes in the metal. If using spray paint, use two thin coats. If using house paint or other canned paint, thin the paint to avoid filling the holes.

Be sure to use appropriate exterior paint for outdoor applications.



Preparing for Installation

Map out the wiring paths from the speakers to the amplifier. We recommend 18-gauge wire for runs up to 25 feet, and 16-gauge or thicker for longer runs. Be sure the speaker wire does not rest or rub against any sharp or pointed objects.

The speakers should be mounted on a flat surface to form a good seal between the speaker flange and the mounting surface.

Each speaker is 8 ohms nominal. When connecting more than two speakers per amplifier channel, you should use series/parallel wiring or line transformers. In all cases, make certain that the total impedance does not fall below the amplifier's minimum rating. If you are not sure, contact your Boston Acoustics dealer.

Use the cable clamp supplied to secure the speaker wire to the housing. Affix the clamp to one of the screws used to hold the printed circuit board to the housing.

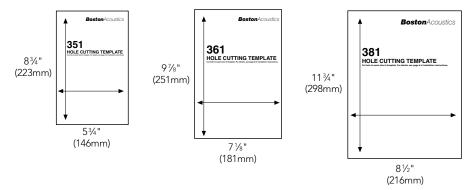
You Will Need

- 1. A utility knife, electric jigsaw or other means of cutting a hole in the mounting surface.
- 2. Phillips and flat-blade screwdrivers.
- 3. A wire cutter or stripper for preparing the speaker wires.
- 4. An awl or small screwdriver to remove the speaker grille.

With the hardware supplied, the speaker can be installed in existing walls and ceilings from $\frac{3}{2}$ " (9.5mm) to $1\frac{1}{2}$ " (38mm) thick. For thinner walls, you will need to use spacers (not provided) for the mounting bracket. In walls greater than $1\frac{1}{2}$ " (38mm) thick, you will need longer screws.

Installation

1. Make a cutout using the supplied template.



2. Run wire from the amplifier to the cutout. Allow an extra foot of wire at the cutout. Strip $\frac{1}{2}$ " (12mm) off wire, and tightly twist the wire strands.

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3. Remove speaker grille. Carefully pry each corner with an awl or small screwdriver.

4. Prepare the speaker/bracket assembly for installation as shown.

For new construction, an optional bracket (Model 35UB for the 351, Model 36CB for the 361, Model 38B for the 381) is available from your Boston Acoustics dealer.

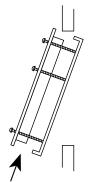
5. Route the speaker wire through the cable clamp and connect the wire to the speaker.

WARNING: To prevent electrical shock hazard, always switch off the amplifier or receiver when making connections to the speaker.

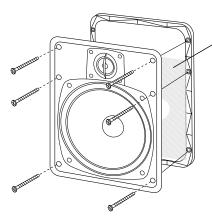
IMPORTANT: Typically, one side of the wire is smooth. Connect this side to the – (black) speaker terminal. The other side has a rib or stripe. Connect this to the + (red) speaker terminal. Connect wire at the amplifier in the same way. Failure to do so will result in degraded sound.

6. Install speaker according to diagram below.

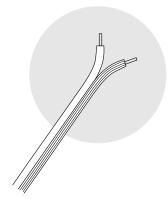
IMPORTANT: Do not overtighten screws. Doing so will break the frame and/or make it impossible to insert the grille.

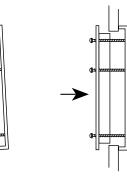


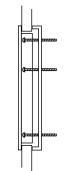




Install barrier cloth for ceiling installations.







Listening Levels and Power-Handling

The power recommendation for the speakers assumes that you will operate the amplifier in a way that will not produce distortion. Even our rugged speakers can be damaged by an amplifier if it is producing distortion.

If you hear a harsh, gritty noise, turn down the volume. Prolonged or repeated operation of your speaker with a distorted signal from the amplifier can cause damage that is not covered by the warranty.

Limited Warranty

For one year from the date of purchase, Boston Acoustics will repair for the original owner any defect in materials or workmanship that occurs in normal use, without charge for parts and labor.

Your responsibilities are to use the system according to the instructions supplied, to provide safe and secure transportation to an authorized Boston Acoustics service representative and to present proof of purchase in the form of your sales slip when requesting service.

Excluded from this warranty is damage that results from abuse, misuse, accidents, shipping, or repairs or modifications by anyone other than an authorized Boston Acoustics service representative.

This warranty is void if the serial number has been removed or defaced.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

If Service Seems Necessary

First, contact the retailer from whom you purchased the speakers. If that is not possible, write to:

Boston Acoustics, Inc., 300 Jubilee Drive, Peabody, MA 01960.

We will promptly advise you of what action to take. If it is necessary to return your speaker to the factory, please ship it prepaid. After it has been repaired, we will return it freight prepaid in the U.S. and Canada.



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