# Russound®

Flexbox Back Box Installation

Introduction

Russound's speaker back box offers an innovative acoustic barrier that will reduce background noise, furnish a moisture barrier, diffuse distortion, and improve sound quality. It is easily installed in both new construction and retrofit settings. The design incorporates a flexible construction with noise-absorbing materials. Both models are flame retardant and meet the following standards: ASTM E119 and UL 263/NFPA 251 (1-hour) and ASTM E84/NFPA 70. The Flexbox back box is sized to fit between the studs with depths of 3.5" (89 mm) for the in-wall enclosures and 6" (152 mm) for the in-ceiling models. As a retrofit solution for in-ceiling speakers, it can be rolled up, inserted through the hole in the drywall, and secured to the studs or drywall prior to installing or re-installing the speaker.

Retrofit Installation *(In-ceiling only)*

1. Poke a small hole or slit in one of the back box sidewalls for the speaker wire.

2. Consult with building plans to locate existing pipes, duct work, and AC wiring and to make sure location of speaker has proper depth and space between studs.

3. Cut the hole in the wallboard or drywall as specified by the speaker manufacturer.

4. Pull the necessary wire to the final speaker location and through the hole made in the sidewall of the back box.

5. Flatten and roll up the box and push through the hole.

6. Center the box on the center of the cutout and trim excess material.

7. (Optional) Apply caulking around the inside of the drywall opening and adhere the face of the box to the drywall. *(**Apply fire-rated caulking if applicable - See Important note at right.)*

8. Connect the speaker wire to the speaker and install the speaker according to the manufacturer's specifications.
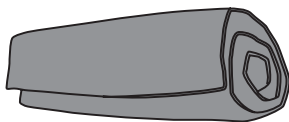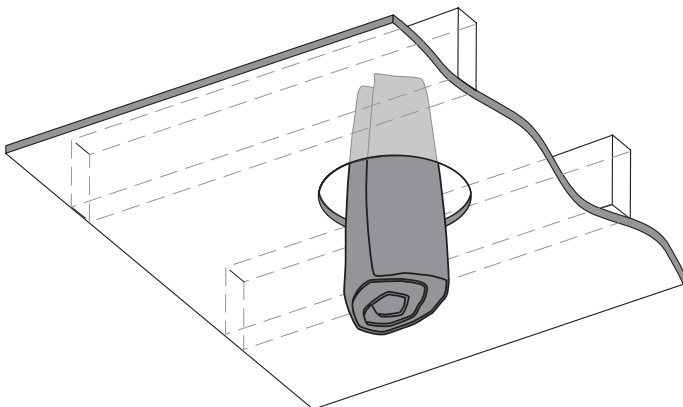
Installation - New Construction *(In-wall or In-ceiling)*

1. Poke a small hole or slit in one of the back box sidewalls for the speaker wire.

2. Choose the stud opening that best suits the speaker application. The speaker location should be free of obstacles (electrical wiring, plumbing, duct work). Refer to the speaker manual for the minimum clearance depth for the speaker.

3. Place the back box between two studs with the front face flush with the front edge of the studs. Screw, nail or staple the box to the stud from the inside of the back box.

4. Pull the speaker wire through the hole in the back box sidewall.

5. Attach speaker brackets (if applicable) to the studs, centering the bracket on the back box cutout. Refer to the bracket installation instructions. Trim any excess material from the opening of the back box using a sharp knife and the bracket as a guide.

6. Provide the drywall installer with the precise location and dimensions of the speaker brackets. The speaker cutout (hole) must not extend further than ¼" (0.6 cm) from inside of the mounting bracket.

7. After drywall is hung, trim any excess material if necessary.

8. (Optional) Prior to speaker installation, apply caulking around the inside of the drywall opening and adhere the face of the box to the drywall. *(**Apply fire-rated caulking if applicable - See Important note below.)*

9. Connect the speaker wire to the speaker and install the speaker according to the manufacturer's specifications.

**Important: For fire rated installation, seal the hole where the speaker wire comes into the back box with fire rated caulk. (3M's Fire Barrier Sealant FD150+ or FD200+ is recommended). Coating around the edge of the drywall side of the box is not required but could be added to create a strong acoustic seal.

Flatten and Roll Back Box

Insert in Opening
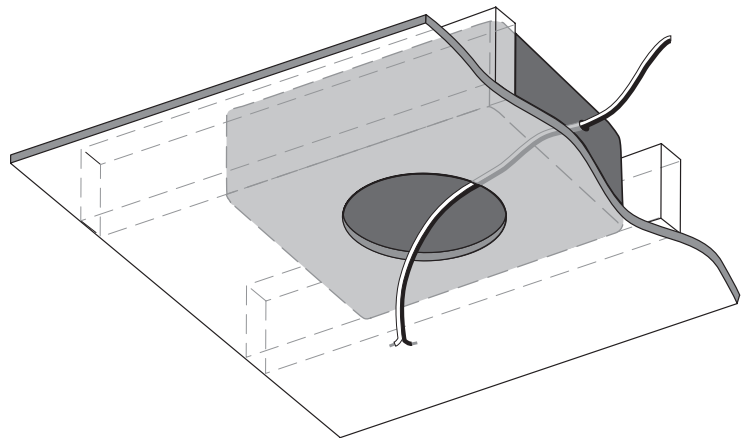
Secure to studs and drywall
Trim excess material around opening

Flexbox Back Box Information

Additional Tips / Considerations

- If possible, run speaker wires after AC wiring is in place to avoid induced hum caused by close parallel proximity of the two types of wire.

- Avoid running speaker wires close to house electrical wiring for any distance. If you have to run them parallel, leave two feet between the wiring. Speaker wires should cross AC lines at a 90° angle.

- Route horizontal wire runs through holes drilled in studs at roughly equal heights.

- Secure speaker wires in place against a stud along vertical runs with insulated staples only. Do not pierce the wire insulation. Allow a bit of slack for expansion of building materials.

Technical Specifications

FBC1-FR Flexbox Fire Rated In-ceiling Back Box

Dimensions:	14"W x 6"D x 17.5"H (355 x 152 x 445 mm)
Material Thickness:	1" (25 mm) nominal thickness
Weight:	6.7 lbs (3 kg)
Material:	Proprietary Composite Material
STC Rating:	32
Flame Spread:	23
Smoke Density:	30 (ASTM E84/ NFPA 70)
Thermal Value:	R 4.2
Temperature Range:	-40° F to 350° F (-40°C to 177°C)
Fire Rating:	CLASS 1 Fire Rated
	ASTM E119 /NFPA 251 and UL 263 for 1 Hour Fire Rating

FBW1-FR Flexbox Fire Rated In-wall Back Box

Dimensions:	14.5"W x 3.5"D x 16"H (368 x 89 x 406 mm)
Material Thickness:	1" (25 mm) nominal thickness
Weight:	5.4 lb (2.4 kg)
Material:	Proprietary Composite Material
STC Rating:	32
Flame Spread:	23
Smoke Density:	30 (ASTM E84/ NFPA 70)
Thermal Value:	R 4.2
Temperature Range:	-40° F to 350° F (-40°C to 177°C)
Fire Rating:	CLASS 1 Fire Rated
	ASTM E119 /NFPA 251 and UL 263 for 1 Hour Fire Rating