

# STEALTH

# MBC

## INTERNAL SUPPORT METAL BACK BOX

### Recommended Applications:

Use the MBC metal back boxes on installations into masonry, hat-channel type suspended ceilings where the space behind the speaker panel is open, or where a metal enclosure behind the speaker is required. Measuring 3<sup>15</sup>/<sub>16</sub>" (98 mm) deep, the MBC series of back boxes are designed to fully encompass the speaker panel and offer a solid mounting surface for the speaker where there may not be otherwise. This product is also useful to assist in installations where sound transfer from one floor or room to the next is of concern.

### Construction:

Constructed of 1.2 mm thick metal, MBC back boxes are shipped fully assembled. Convenient knockouts for conduit are provided, 1 each on the top and bottom of the box. The knockouts will accept 1/2" (13 mm) conduits and loom clamps. The MBC back box is lined on all four sides with 3/4" (19 mm) plywood to provide solid mounting surfaces for the speaker panel.

### Architectural and Engineering Specifications:

The metal back box shall be constructed of 1.2 mm steel. The back boxes shall be lined on all four sides with 3/4" (19 mm) thick

plywood for speaker mounting and include one sheet of insulation. The boxes will have one 1/2" (13 mm) knockout for wire passage located at both the top and bottom of box.

### Installation Notes:

1. The back box interior should be insulated before speakers are installed.
2. Increased acoustical isolation is possible by using a visco-elastic acoustic barrier, such as Dynil® by Dynamic Control (dynamat.com). This material is ultra pliable and only 0.09" thick, allowing it to fit behind the speaker panels.
3. Additional materials may be necessary to properly brace back box into suspended ceiling type applications.
4. Additional materials may be necessary to securely mount back box to solid wall construction.

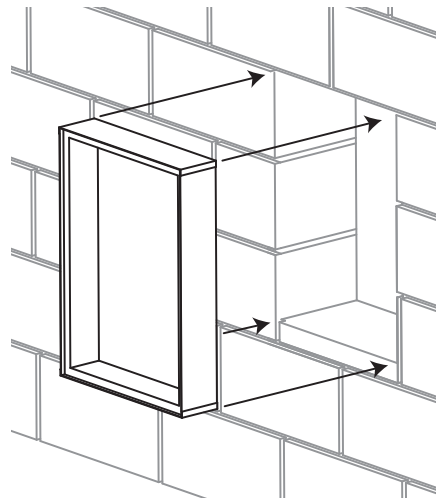
### Included Accessories:

Light Insulation

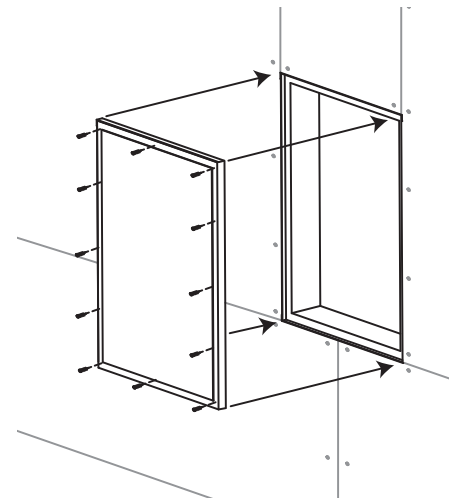
### Optional Accessories:

Dynil® by Dynamic Control (dynamat.com)

### MBC Back Box Solid Wall Application



Attach MBC back box to wall



Attach speaker panel to MBC box

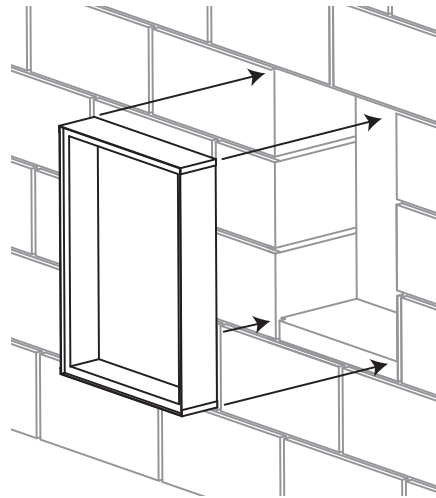
### Dimensions:

Model:	MBC-30	MBC-24	MBC-16	MBC-12
Use	LR430, LR30W,	LR224, LR224S,	LR116	LR112, LR6G,
With:	LRX-85-LF	LR324, LR24W		LRX-85-HM
Width:	16 <sup>1</sup> / <sub>8</sub> " (409 mm)	16 <sup>1</sup> / <sub>8</sub> " (409 mm)	16 <sup>1</sup> / <sub>8</sub> " (409 mm)	16 <sup>1</sup> / <sub>4</sub> " (412 mm)
Height:	30 <sup>1</sup> / <sub>8</sub> " (765 mm)	24 <sup>1</sup> / <sub>8</sub> " (613 mm)	16 <sup>1</sup> / <sub>8</sub> " (409 mm)	12 <sup>1</sup> / <sub>8</sub> " (308 mm)
Depth:	3 <sup>15</sup> / <sub>16</sub> " (98 mm)	3 <sup>15</sup> / <sub>16</sub> " (98 mm)	3 <sup>15</sup> / <sub>16</sub> " (98 mm)	3 <sup>15</sup> / <sub>16</sub> " (98 mm)
Ship Wt:	18 lbs. (8.2 kg) ea	15 lbs. (6.8 kg) ea	12 lbs. (5.5 kg) ea	9 lbs. (4.0 kg) ea

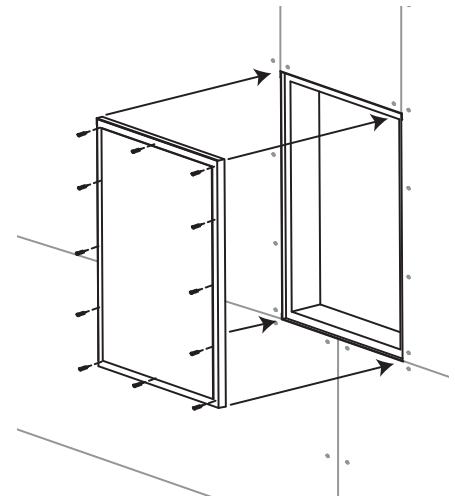
## Installation overview

1. The back box interior should always be insulated before speakers are installed. The MBC boxes are shipped with one piece of lightweight insulation included. Increased acoustical isolation is possible by using a viscoelastic acoustic barrier, such as Dynil® by Dynamic Control (dynamat.com). This material is ultra pliable and only 0.09" thick, allowing it to fit behind the speaker panels.
2. Mount the back box securely into wall/ceiling space so that the leading edge of the box is flush with the final wall surface. The speaker will sit approximately  $\frac{1}{16}$ " beyond the projected wall finish. Minor speaker height adjustments are accomplished with the shims included with the speaker. Additional fasteners and/or bracing materials may be necessary to securely mount the box to the masonry or within the suspended ceiling. Make sure the box is securely attached to the wall or ceiling.
3. Run speaker wire to each box location. Use the provided  $\frac{1}{2}$ " (13 mm) knockouts for wire passage.
4. Connect and attach the speaker to the mounting points inside the back box. Make sure to properly connect the speaker wires to the speaker binding posts and tighten securely.
5. Test the speaker by connecting an amplified FULL RANGE audio source to the head end wiring location. This is to ensure that the speaker and associated wiring are functioning properly prior to the finishing the wall/speaker.
6. Once the speaker is attached and tested, use a straight-edge (like a framing square) to check the panel-face registration to ensure that it is mounted so that the center of the panel is approximately  $\frac{1}{16}$ " (1.5 mm) beyond

## MBC Back Box Solid Wall Application

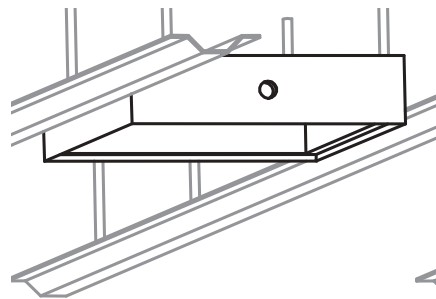


Attach MBC back box to wall

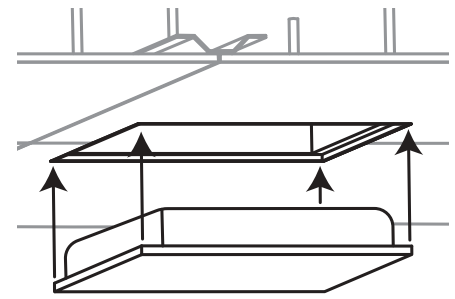


Attach speaker panel to MBC box

## MBC Back Box Hard-Lid Ceiling Application



Attach MBC back box to ceiling



Attach speaker panel to MBC box

the adjoining wall surface. When the straight-edge is placed on the face of the speaker, there should be a slight gap between the speaker and the adjoining wall surface. Adjust the panel face registration as needed with shims. **DO NOT ALLOW THE PANEL FACE TO BE BEHIND THE ADJOINING WALL SURFACE.**

7. Feather speaker seams to the surrounding wallboard. Sand as needed until flat wall or ceiling look is achieved.
8. Finish as needed with approved options including light texture, latex paint and wallpaper.