

# DIY Acoustic Sound Panels



It's easy to build your own acoustic wall and ceiling panels to reduce background noise, reverberation, and echos – great for absorbing sound in rooms like offices, music or recording studios, and home theatres.

## Here's how in 3 easy steps!

Step 1 – Build the frame

Step 2 – Insert the insulation board

Step 3 – Cover with fabric

You're finished – hang and enjoy a more peaceful environment!

*I suggest covering 25-50% of your surface area for the best performance!*

ROCKWOOL COMFORTBOARD 80 is a rigid stone wool insulation board with excellent sound absorbency and is water and fire-repellent.

[Where to buy](#)

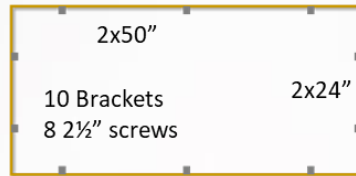


# OPTION 1: How-to Build Acoustic Sound Panels with Frame

## What materials will I need?

*Makes 6 24x49" rectangular wall panels.*

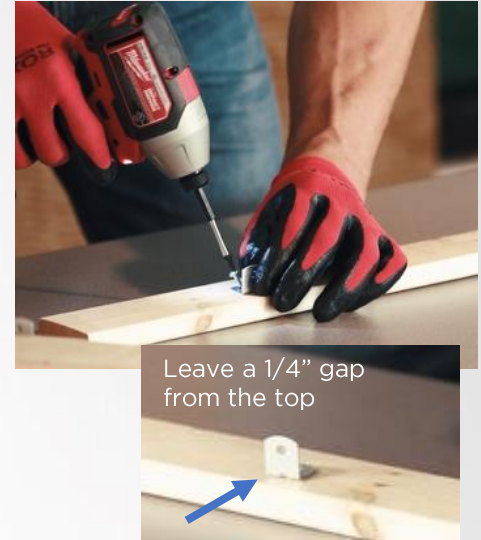
- 1 package (6 pieces) of ROCKWOOL COMFORTBOARD 80 (1.5" thick and 24x48" in size)
- 12 - 1"x2"x8ft pieces of lumber (use a hardwood like poplar or maple)
  - Cut 3 boards into 2ft. lengths (total of 12 pieces)
  - Cut 9 boards into 49" lengths
- 48 - 2 1/2" wood screws
- 60 - 3/4" right angle brackets
- 9 yards of breathable fabric for panel front
- 9 yards of inexpensive fabric for backing
- Wood Glue
- Staple Gun with 5/16" (T-50) staples
- Drill
- Saw
- Measuring Tape
- Scissors
- 12 - 1/2" wood screws
- Picture hanging wire
- 24 - Felt Pads



## Build a 24x48" acoustic sound panel

1. Attach 2 angle brackets to each 24" length and 3 brackets to each 49" length of lumber leaving a 1/4" gap from the top  
*TIP! Check each piece of wood to make sure it's straight.*
2. Apply wood glue then attach the 49" pieces to the 24" pieces with 2 - 2 1/2" screws per corner. Then add the COMFORTBOARD from behind.  
*TIP! Pre-drill the ends so the wood doesn't split.*
3. Cut the inexpensive fabric to 24x48" and staple to the back of the frame
4. Cut the cover fabric to 27"x51". Lay the fabric on your surface with the wrong side facing up. Place the frame on the fabric with the angle brackets on the bottom. Wrap the fabric to the back of the frame and staple in place with neatly folded corners.  
*TIP! Place one staple on the centre of each piece of wood first, then apply remainder of staples.*
5. Place 2 - 1/2" screws on each side of the back edges 12" from the top. Wrap wire between the screws for hanging. Install 4 felt pads - one on each back corner.  
*TIP! Follow the same process customizing the size for your space!*

### Step 1



### Step 2



### Step 5



# OPTION 2: How-to Build Acoustic Sound Panels without a Frame

## What materials will I need?

*Great for custom shaped and sized wall panels.*

- ROCKWOOL COMFORTBOARD 80 (1.5" thick and 24x48" in size)
- Backing: Plywood
- Your choice of breathable fabric for panel front
- Staple Gun with 5/16" (T-50) staples
- Drill
- Saw
- Square
- Measuring Tape
- Scissors
- Depending on size and weight, use picture hanging hardware or a French cleat to hang the panels

## Building the sound panel

1. Cut COMFORTBOARD and plywood to desired size.  
*TIP! Use a builder's square for perfectly square corners or, DIY retailers will cut to size for no charge or a small fee.*
2. Cut fabric 6" wider and longer than your finished panel size for a 3" overhang on all edges.
3. Lay fabric right side down on a flat surface. Place the COMFORTBOARD, then plywood, centered on fabric.
4. Wrap the fabric to the back of the plywood and staple in place with neatly folded corners.  
*TIP! First, place one staple at the centre of each side, pulling gently but snugly so the fabric is taut. Then staple fabric to within 2" of each corner and fold neatly.*
5. Install with hanging hardware.  
*TIP! Use a stud finder to determine if you can drill into a stud or use wall anchors to hang panel.*



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Studio Makeover in a Day  
Scott's House Call

