PRIMACOUSTIC®

# BROADWAY™

ACOUSTIC PANELS

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## INSTALLATION MANUAL

**Congratulations** on purchasing Primacoustic Broadway™. Broadway is a series of fabric covered, high density, (6 lb per cubic foot) ridgid fiberglass panels designed to control echo and absorb secondary reflections in any reverberant environment. Because Broadway panels are also Class-1 fire rated, they are ideally suited to provide effective acoustic control in applications as diverse as home-theatre, practice rooms, houses of worship, offices, call centers and broadcast studios.

Please take a few minutes to read this installation manual. It will give you step by step instructions on the installation of Broadway panels, performance specifications, and safety data. Please refer to www.primacoustic.com/appnotes for various placement options and benefits. Should you have any questions or comments, we invite you to send an email to: info@primacoustic.com.

### HOW MANY PANELS DOES YOUR ROOM REQUIRE?

Although there are no set rules on how much treatment should be used, it is obvious that the more treatment you install, the more sound will be absorbed. Maximum effectiveness is achieved when panels are placed in corners where two walls meet, or where a wall and ceiling join. Ultimately, the amount you install and where it goes will also depend on factors such as windows, architectural demands and your room's intended purpose. Please refer to www.primacoustic.com/appnotes for detailed information on acoustics, various room types and placement options.

**APPROXIMATE WALL COVERAGE REQUIRED BY ROOM TYPE:**

| | |
|---|---|
| 10% - Budget: | Echo reduction, general purpose coverage |
| 15% - Light: | Live music room, board room, commercial buildings, industrial spaces |
| 25% - Normal: | Recording studio tracking room, home theatre, music practice room |
| 35% - Medium: | Recording studio control room, on-air broadcast studio |
| 45% - Dark: | Noise control, voice-over booth |

** Approximate figures only. Please consult a professional Acoustician for specific design parameters.*

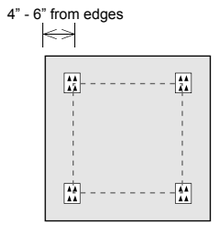
*Primacoustic Impaler Clip*

### HOW MANY IMPALERS?

How many impaler clips to use per panel is up to you depending on the size of the Broadway panels you have selected and the degree of security you feel you need. The chart below shows the suggested number of impaler clips for the different Broadway panels sizes. Impalers should be placed approximately four to six inches from the edge of the panel to clear the fabric. Avoid pushing the impalers through the fabric edge. When mounting Broadway panels in overhead locations apply a golf-ball sized dab of construction adhesive to each Impaler to prevent accidental dislodgement.

| | Scatter Block™ 12" x 12" | Control Cube™ 24" x 24" | Control Column™ 12" x 48" | Broadband Panel™ 24" x 48 |
|---|---|---|---|---|
| 1 inch panels | 1 | 3 | 2 | 4 |
| 2 inch panels | 1 | 3 | 3 | 4 |
| 3 inch panels | NA | NA | 3 | 5 |

*Step 1: Use level to mark top line.*
*Step 2: Repeat for set line.*




*Step 3: Impaler clip locations*

### INSTALLING WITH PRIMACOUSTIC IMPALING CLIPS

Primacoustic impaling clips are designed to provide the installer with a simple and effective method of mounting Broadway™ panels onto walls. The mounting clips feature a series of sharp impaling heads that penetrate the panels for secure semi-permanent mounting without causing serious wall surface defacement.

**Tools:** You will need a bubble level, 48" straight edge, measuring tape, drill, screwdriver, wood screws and for mounting on standard drywall we recommend using plastic drywall anchors.

**Step 1:** Lightly mark a horizontal TOP line along the entire wall with pencil. This line represents where the top of the mounted panel will sit on the wall. Lightly mark a second SET line one inch above the TOP line. The SET line will help you position the panel on the impaler clips. Use your straight edge and bubble level to ensure both the TOP and SET lines are level.

**Step 2:** Lightly mark panel locations along the TOP line by carefully measuring out each panel width. If you are planning to space panels apart include the gap measurement and mark points along the TOP line identifying panel edge and gap points.

**Step 3:** Mark wall locations for the impaler clips by measuring 4 to 6 inches down from your TOP line and 4 to 6 inches in from your panel edges. Secure impaler clips with an appropreiate fastener for your wall surface. For additional security apply a golf-ball sized dab of construction adhesive to each Impaler. This will prevent the panel from being easily removed once the adhesive is dry.

*Step 4: Level panel on Set line*

**Step 4:** Tilt the panel so just the top edge is touching the wall. Carefully line up the top edge with the SET line and edge marks you made in step 1 and 2. Placing a level on top of the panel will help you keep it straight as you guide it onto the impaler clips.

**Step 5:** Once you have lined up the panel squarely on the SET line, bring the back of the panel in contact with all of the impaler clips. Apply pressure in and down onto the clips. The panel will slide onto the Impalers and sink down about one inch. Use the TOP pencil line to confirm placement is level. If alignment is off, the panel may be nudged up to ¼" to make it level.

*Step 5: Even downward presure*

WARNING: The installation methods outlined are recommendations only. Please seek professional advice if you are unsure about any of these methods

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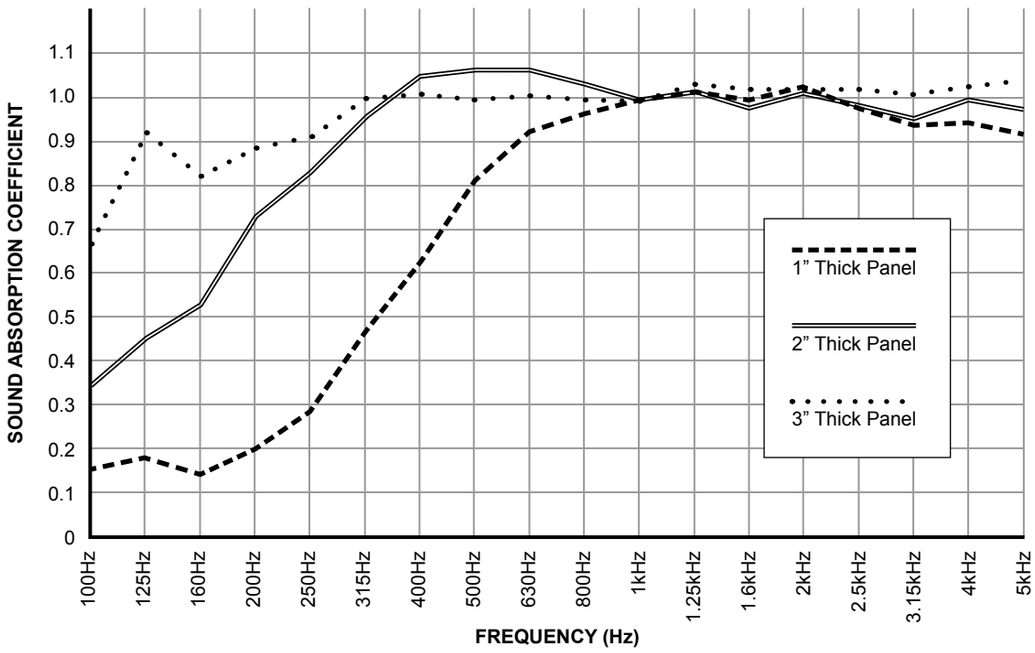
## ACOUSTICAL DATA

Broadway panels have been tested in conformance of the ASTM standard test method for sound absorption and sound absorption coefficients by the Reverberation Room Method ASTM C423-02a and E795-05. Increased performance can be achieved by panel location and different mounting options. Please refer to www.primacoustic.com/appnotes for details.

**SOUND ABSORPTION DATA (NRC) ASTM C423-90a**
**Octave Band Frequencies (Hz)**

| Panel Thickness | 125Hz | 250Hz | 500Hz | 1kHz | 2kHz | 4kHz | NRC |
|---|---|---|---|---|---|---|---|
| 1” Thick | 0.17 | 0.28 | 0.81 | 1.00 | 1.02 | 0.95 | 0.80 |
| 2” Thick | 0.45 | 0.83 | 1.07 | 1.00 | 1.01 | 1.00 | 1.00 |
| 3” Thick | 0.92 | 0.91 | 1.00 | 1.00 | 1.02 | 1.03 | 1.00 |

** Actual test data provided by Riverbank Acoustical Laboritories*




## FIRE SAFETY

Broadway panels have been tested to meet the most stringent ASTM and CSA testing requirements for the USA and Canada. For international customers, please consult your local building authority for proper cross-compatibility specifications.

**BROADWAY FIRE & BURN TEST CHARACTERISTICS**

| TEST | CLASS | FLAME SPREAD | SMOKE DENSITY |
|---|---|---|---|
| ASTM E 84 | 1 OR A | 15 FSI | 155 SD |
| CAN/UL-S102 | 1 OR A | 15 FSCI | 155 SD |

** Actual test data provided by Bodycote Materials Testing Inc.*

## WARRANTY

Please inspect panels immediately after purchase and before mounting. Primacoustic Broadway acoustic panels are guaranteed to be free of manufacturing defects for a period of thirty (30) days after purchase. In the unlikely event that a defect is uncovered, please call 604-942-1001 to obtain an RA number (Return Authorization number) from Primacoustic before the thirty (30) day warranty period expires. Once you have obtained an RA number you must return the product, freight prepaid, within fifteen (15) days after the date the RA number is issued. Please return the product in the original packaging (or another, affording an equal degree of protection) with all of the following: (1) RA number clearly marked on the returned package; (2) a receipt or bill of sale showing proof of purchase from an authorized retail seller; and (3) a written note describing the defect and including your name, address, telephone number and the applicable RA number. You are solely responsible for all shipping and insurance costs for returning the product to Primacoustic, and you will not be reimbursed or compensate for any loss or damage incurred during return shipping. Primacoustic will at its discretion repair or replace the panel. Should the panel be no longer available, Primacoustic reserves the right to exchange this with a panel of similar performance and value. Due to different dye lots, Primacoustic cannot guarantee exact color match. This Warranty shall solely extend to the original owner and is limited to manufacturing defects and excludes any damage due to wear and tear, abuse, misuse, misapplication, color fading or deterioration due to prolonged exposure to ultra violet light, smoke, humidity or other environmental factors. It is understood that the use and suitability of Broadway is entirely the responsibility of the buyer or specifying engineer and as such, these parties agree to hold Primacoustic, or it’s associated company, and/or officers, harmless from any responsibility whatsoever other than what is clearly outlined in this warranty.

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