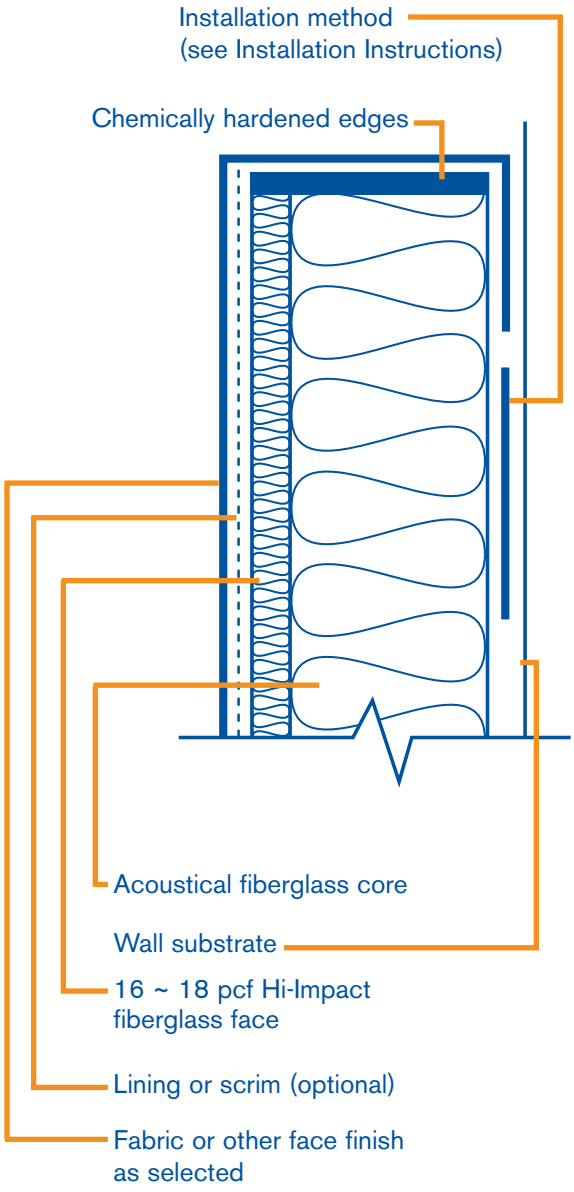
# Truetone® Hi-Impact Panels

The **Truetone® Hi-Impact** acoustical panel has excellent sound absorption qualities and can be used for either ceiling or wall in both flat and curved applications. **Truetone® Hi-Impact** acoustical panels are constructed of 6 ~ 7 pcf density acoustical fiberglass, faced with an abuse resistant tackable 16 ~ 18 pcf molded acoustical fiberglass board. The **Truetone® Hi-Impact** acoustical panels are appropriate in areas where sound control, abuse-resistance, or a tackable surface would be beneficial, such as conference rooms, lecture halls, gymnasiums, or playrooms. Each panel is fabric wrapped, returned on all four sides, having tailored corners, no exposed edges, and can be mounted on virtually any surface.




## General Specifications:

- Typical thickness: 1 1/8" ~ 4 1/8" (other sizes available)
- Cut to fit sizes: up to 48" x 120" (other sizes available)
- Typical fiberglass density: 6 ~ 7 pcf (other densities available) with a 1/8" 16 ~ 18 pcf impact resistant face
- Face Finishes: fabrics, painted panel **(Chroma®)**, perforated vinyl or customer's own material (C.O.M.). Finishes must be evaluated and approved by **Signature Craft**
- Installation methods: adhesive, Z-Clip, impaler clip, hook and loop or magnetic *(see Installation Instructions)*
- Edge details: square, eased, radius, bevel, or modified miter
- Corner details: square, radius, trapezoidal, or bevel
- Shapes: custom shapes from artwork are available
- Edge treatment: reinforced with chemical hardeners
- Flammability: all components ASTM E84 Class A rated *(representative assembly tests available upon request)*
- Mock-ups are recommended for proper production and installation tolerances and aesthetics *(see Installation Instructions)*
- Acoustical performance: varies upon fiberglass thickness, face finish and installation method *(representative N.R.C. values shown below)* Note that **Truetone®** acoustical panels are tested with chemically hardened edges which are typical of most installations and slightly reduce the Noise Reduction Control (N.R.C.) value. Chemically hardened edges prevent sound absorption from the edges of the panels, which in most installations are not exposed, but are in the ASTM 423 test

**Truetone®** panels are made to industry standard tolerances of +/– 1/16 inch for:

- Thickness
- Edge straightness
- Overall length and width
- Chords, radii and diameters
- Squareness from corner to corner

Acoustical Performance

| Thickness" | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz | N.R.C. |
|---|---|---|---|---|---|---|---|
| 1 1/8" | 0.23 | 0.47 | 0.94 | 1.04 | 0.95 | 0.98 | 0.85 |
| 2 1/8" | 0.64 | 0.80 | 1.03 | 1.01 | 0.95 | 1.00 | 1.00 |

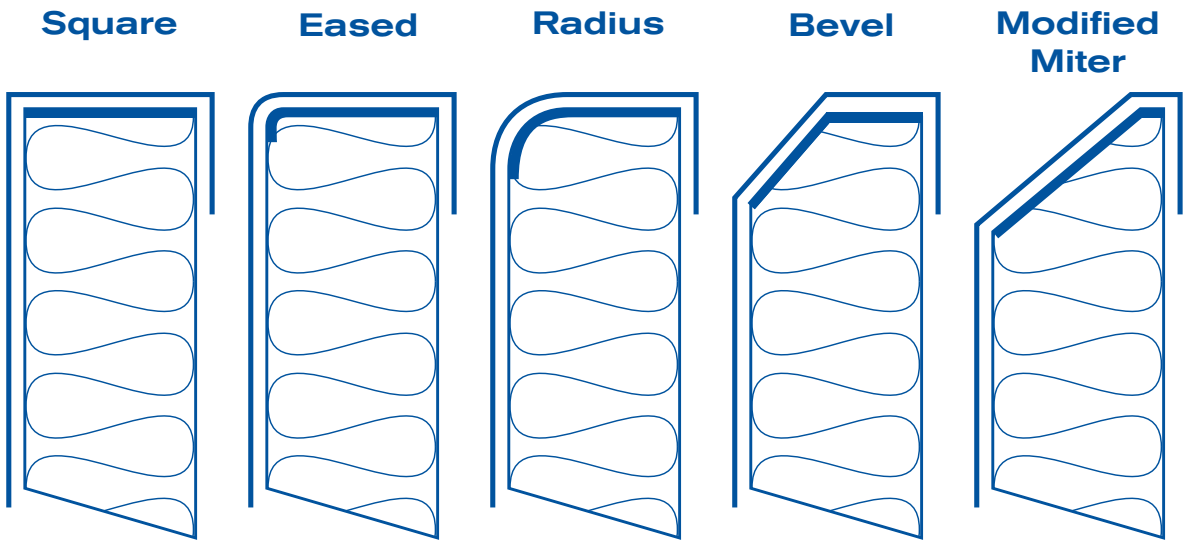
# Edge Details

**Truetone**® acoustical panels offer five different edges which allow you to achieve different and distinct looks. The five choices are; square, eased, radius, bevel, or modified miter. Square edges should be used when inconspicuous lines are desired. Eased, radius, bevel, or modified miter edges should be used when the lines are to be highlighted. Custom edges are available upon request and with **Signature Craft's** evaluation and approval.

**Notes:**

- Edges can also be used to create a "border" effect. This look is achieved by using square edges where panels butt together and an eased, radius, bevel, or modified mitered edge around the perimeter
- Mitered edges must be modified to insure straightness and proper fit with adjoining work. Bevels are typically 1/4" or 1/2" proportional to thickness of core material
- Mock-ups under jobsite lighting and finish conditions are strongly recommended. Installation should not begin until product is acclimated to environment for 24 hours prior to installation

## Edge Details

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# Corner Details

**Truetone**® and **Tacwall**® acoustical panels offer four different corner details, square, radius, trapezoidal, or bevel. Square corners are typical where butt joints are primarily used. Radius corners are typically used on stand alone panels. Trapezoidal corners allow for unique shapes and dynamic aesthetics. Beveled corners add dimension to any acoustical panel.

**Notes:**

- Corners can create a “border” effect. This look is achieved by using square edges where panels butt together and a radius, or bevel corner around the perimeter
- Radius is typical of 2" (other radius by special order)
- Mock-ups under jobsite lighting and finish conditions are strongly recommended. Installation should not begin until product is acclimated to environment for 24 hours prior to installation

## Corner Details (Front View)

### Square Top Square Bottom

### Square Top Radius Bottom

### Radius Top Radius Bottom

### Trapezoidal

### Bevel Top Bevel Bottom