

INSTALLATION SPECIFICATION

ACOUSTICAL TREATMENT USING INSUL-QUILTS STUDIO BLANKET

(Revised 2025)

A. Scope of Work

1. Installation of Insul-Quilt Studio Blanket over the interior walls and/or ceilings as acoustic treatment in music studios, performance stages, offices or other areas where sound control and reduced echo/reverberation time is required.

- A. Installation on interior walls/ceilings over furring strips for improved sound absorption
- b. Installation directly over precast concrete walls or CMU walls with powder or gas actuated shot pins
- c. Installation directly to precast concrete or CMU walls with Stick Clips and Washers
- d. Installation directly on wood/stud, drywall or metal stud walls as a flush mount

B. Material

Insul-Quilt IQF-F (foil) is composed of aluminum infused fiber composite on the back layer joined with two layers of sound insulation, all sewn to a fiberglass fabric cloth face, white or black, with a twelve-row stitch line pattern. Insul-Quilt IQF-S (scrim) has back layer of glass fabric cloth with a four-row stitch line pattern. The blanket's fabric edges are tucked into the blanket when stitched, completing a clean finished edge detail. Blanket ends are open unless custom ordered to be sewn. Do not cover active electrical boxes, safety gear or any needed access point with Insul-Quilt and do not place attachments or screws through the thread stitch lines.

C. Installation over furring strips

1. Installation over furring strips on walls and ceilings for improved sound control.

- a. 1" x 4" (25mm) to 2" x 4" (50mm) furring can be installed either vertically or horizontally to walls/ceilings with mechanical fasteners, screws or with powder activated pins with the understanding the width of the blanket will finish out at 47" when tightly adjoined.
- b. Tightly adjoin two blanket's edges and install the blanket fasteners at 24" OC intervals horizontally and vertically and 24" OC on ceilings. At the midpoint of the blanket, install attachments at approximately 24" OC vertically.
- c. Insul-Quilt may be installed using coarse screws with a minimum 1-inch-wide washer. The fasteners/screws must be long enough to penetrate and hold in the substrate backing without compromising the Insul-Quilt to less than 1 inch thick at the point of penetration/attachment.
- d. Open blanket ends should be concealed by abutting open ends against the ceiling or floor, tucking open ends back under, or terminating ends behind trim or molding prior to attaching.

D. Installation over precast concrete walls or CMU walls with powder/air actuated shot pins

1. Powder-Actuated Shots and Pins with Washers

- a. Attach Insul-Quilt to substrate walls/ceilings using Powder Actuated Tools and Actuated Fasteners. Tightly adjoin two blanket's edges and install the actuated fasteners at 24" OC intervals vertically and horizontally and 24" OC on ceilings. At the midpoint of the blanket, install shot pins at approximately 24" OC.
- b. Actuated pins must have a minimum 1-inch-wide washer attached.
- c. Adjust the shot pin depth so the blanket is not compressed to less than 1 inch thick at the fastener point of entry.

E. Installation directly to precast concrete or CMU walls with Stick Clips and Washers

1. Stick Clips

- a. The stick clips need to be long enough to penetrate the front of the blanket by 1/2 inch. Do not compress the blankets to less than 1 inch thick when setting dome/pin cap or washer. Set the stick clips at 24" OC intervals vertically and horizontally and 24" OC on ceilings.
- b. The Stick Pin spindle should be protected by a 7/8-inch-wide dome cap configuration or smaller dome cap with a 1-inch-wide sleeve washer prior to dome cap placement.

F. Installation directly on wood, drywall, or metal stud walls

1. Flush Mounting Blankets

- a. Install blankets to a wall substrate at 24" OC horizontally and vertically with a minimum 2 1/2" coarse threaded screw with a minimum 1-inch-wide washer. Use 24" OC spacing for ceil mounts and confirm mounting hardware will not penetrate the roof.
- b. Do not compress Insul-Quilt blanket to less than 1 inch thick at the point of attachment.

G. Installation to Ceiling or Overhead Structure

1. Overhead Installation with Furring strips or Flush mount.

- a. Install 1" x 4" (25 mm) or 2" x 4" (50mm) furring to ceiling substrate and attach Insul-Quilt at 24" OC in both directions.
- b. Flush mount Insul-Quilt blankets directly to ceiling substrate by attaching at 24" OC intervals in both directions.
- c. Attach Insul-Quilts using 2 1/2" coarse thread screw with a minimum 1-inch washer. Do not compress Insul-Quilts to less than 1 inch at the point of penetration.

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