

INSTALLATION SPECIFICATION

ACOUSTICAL TREATMENT USING INSUL-QUILTS STUDIO BLANKET

(Revised 2023)

A. Scope of Work

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

- A. Installation on interior walls/ceilings over furring strips to conceal electrical or plumbing with 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-Quilts IQF-F (foil) is composed of aluminum infused fiber composite on one the back side joined with 2 layers of sound insulation all sewn to fiberglass fabric in white or black as standard finishes. Insul-Quilts IQF-S (scrim) has back layer of glass fabric which replaces the aluminum composite. The finished Insul-Quilts are row stitched through the width of the blanket. The blanket fabric edges are tucked under the insulation and stitched to complete a clean finished edge detail. Blanket ends are open unless custom ordered with sewn ends.

C. Installation over furring strips

1. Installation over furring strips on walls and ceilings to conceal electrical or plumbing piping and improve sound control.

- a. 1"x 4" or 2" x 4" furring can be installed either vertically or horizontally to walls/ceilings with mechanical fasteners, screws or with powder activated pins (powder activated pins will be used with concrete substrate).
- b. Install the furring vertically at 16" OC or horizontally at 23" OC with the understanding that the width of the blanket will finish out at 47" when tightly adjoined or 46" after a 1" lap on each side. [The IQF-S blanket will finish out at 45" when tightly adjoined or 44" after a 1" lap on each side with furring at 15" OC (vert) & 22" OC (horiz)]
- c. The Insul-Quilts may be installed using coarse screws with a 1" head)/washer or with 2" staples at 24" OC along the wall furring and 18" OC (16" OC IQFS-Scrim) along the ceiling furring. The fasteners must be long enough to penetrate and hold in the substrate backing without compromising the Insul-Quilts to less than 1" in thickness at point of penetration.
- d. The open blanket ends should be concealed by abutting or covering with moulding, tucking ends and abutting, or terminating ends under trim or moulding for a clean joint.

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

1. Power Actuated Shots and Pins with Washers

- a. Attach Insul-Quilts to substrate walls using Power Actuated Tools and Actuation Fasteners. Tightly adjoin the joint of two blankets vertical edges or overlap vertical edges by 1" and install the Actuated fasteners at 24" intervals vertically and 16" OC on ceilings. At the midpoint of the blanket, install shot pins at approximately 24" OC vertically (23" OC on IQF-S).
- b. Actuated pins must have a washer or be attached to a washer 1" diameter.
- c. Adjust the shot pin depth so the blanket is not compressed to less than 1" thickness at fastener.

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

1. Stick Clips

- a. The stick clips with adhesive will need to stay on the wall to dry for at least 24 hours prior to mounting Insul-Quilts. The stick clips need to be long enough to penetrate the backing and through the front of the blanket by ½" without compressing the Insul-Quilts to less than 1" when setting dome or pin cap. Set the stick clips vertically at 16" OC or horizontally at 23" OC and 16" OC ceiling. [IQF-Scrim blanket set the stick clips 15" OC (vert) & 22" OC (horiz)].
- b. The Stick Pin spindle should be protected by a minimum 7/8" dome cap configuration washer or larger.

F. Installation directly on wood stud walls, drywall walls or metal studs, and existing wood backing.

1. Flush Mounting Blankets

- a. Install blankets to a wall substrate at 24" OC horizontally and vertically with a minimum 2 ½" coarse thread screw with 1" washer. Use 16" OC spacing for ceil mounts and confirm mounting hardware will not penetrate the roof.
- b. Do not compress Insul-Quilts blanket to less than 1" at the point of penetration.

G. Installation to Ceiling or Overhead Structure

1. Overhead Installation with Furring strips or Flush mount.

- a. Install 1" x 4" or 2" x 4" furring to ceiling substrate at 16" OC to Insul-Quilts for overhead mounting and attach both IQF-F and IQF-S every 16" to furring in both directions.
- b. Flush mount Insul-Quilt blankets directly to ceiling substrate at 16" intervals in both directions.
- c. Attach one layer of Insul-Quilts using 2 ½" coarse thread screw with 1" washer. Do not compress Insul-Quilts to less than 1" at the point of penetration.

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