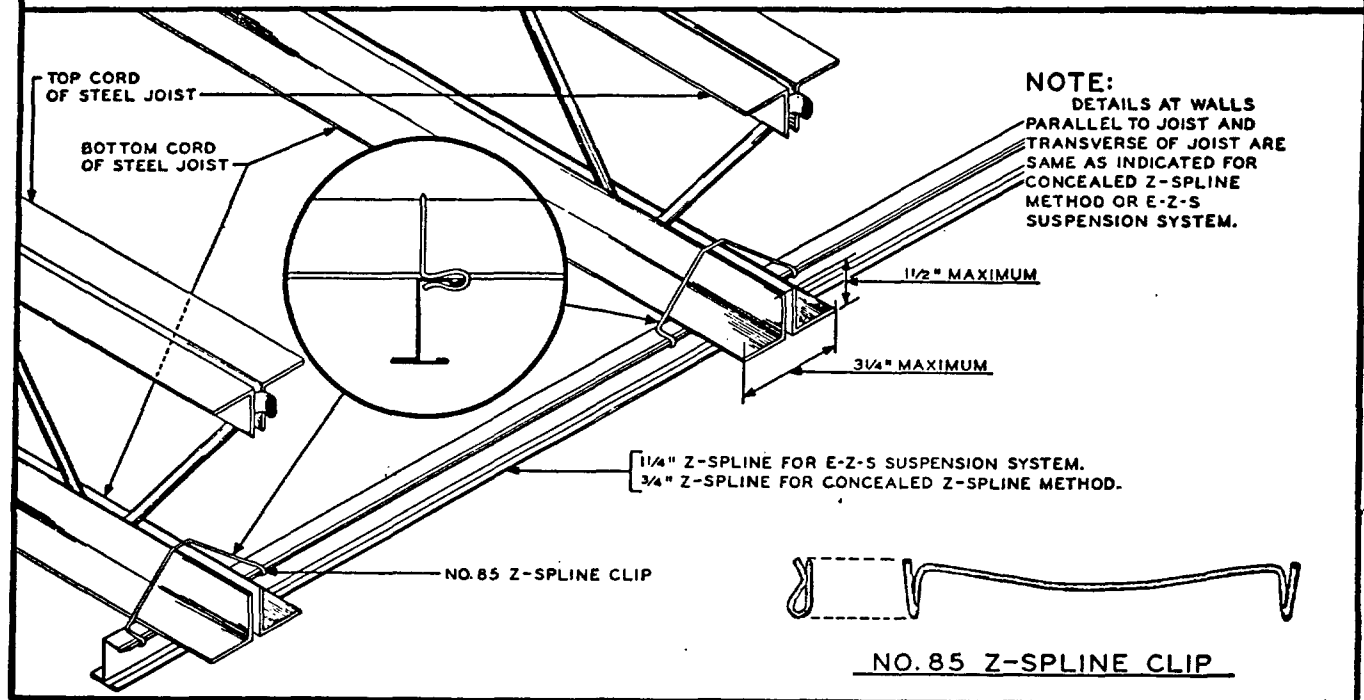


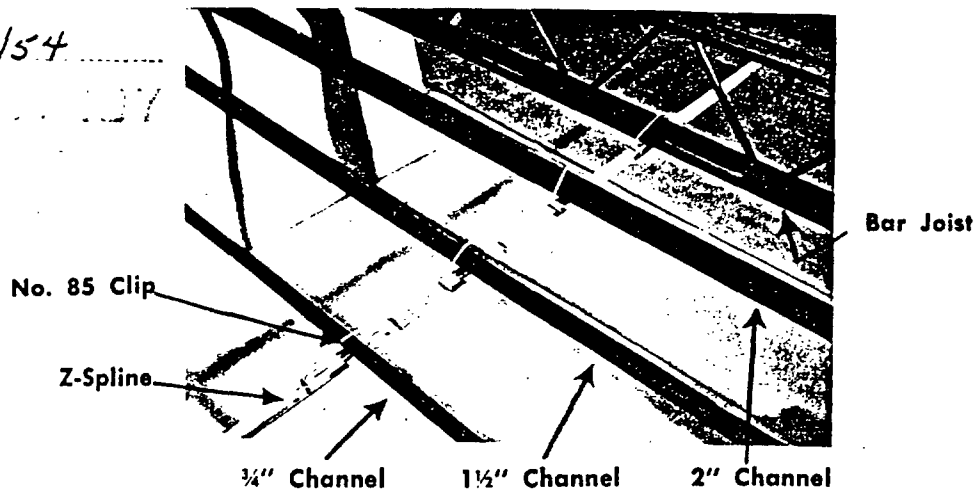
ACOUSTONE* "F" and MOTIF'D* ACOUSTONE

Acoustical Tiles Mechanically Suspended From
BAR JOISTS

ACOUSTONE TILE SUSPENDED ON Z-SPLINES DIRECTLY ATTACHED TO BAR JOISTS



Example showing universal use of USG No. 85 Clip attaching Z-Splines directly to Bar Joists and 2", 1 1/2" or 3/4" carrying channels.



UNITED STATES GYPSUM

The Greatest Name in Building

ACOUSTONE* "F" and MOTIF'D* ACOUSTONE

Acoustical Tiles Mechanically Suspended From BAR JOISTS

Concealed Z-Spline Method MOTIF'D ACOUSTONE and ACOUSTONE "F".

Maximum size of the lower chord of bar joists shall not exceed $3\frac{1}{4}$ " wide by $1\frac{1}{2}$ " high. (For members whose lower flange exceeds these dimensions, consult your U.S.G. acoustical contractor.) Bar joists shall be spaced maximum 4' on center.

SPECIFICATIONS

1. **Scope**—(Architect will list all areas to receive acoustical treatment.)

2. Materials—

2a. Acoustical tile shall be:

2a-1 MOTIF'D ACOUSTONE $\frac{7}{8}$ " thickness x $12'' \times 12''$ as manufactured by the U. S. Gypsum Company. MOTIF'D ACOUSTONE design shall be (No. 2, 5, 10, 12, 19, 32-A, 32-B, 33, 36 or 37) and shall be mill painted (white or ivory.)

2a-2 ACOUSTONE "F" $\frac{7}{8}$ " thickness x $12'' \times 24''$ (square or bevel edge) as manufactured by the U. S. Gypsum Company. Tile shall be painted (white or ivory.)

2b. Accessories shall be:

2b-1 $\frac{3}{4}$ " Z-Spline by U. S. Gypsum Company.

2b-2 No. 85 Clip by U. S. Gypsum Company for attaching Z-Splines to bar joists.

2b-3 26 ga. galvanized Flat Steel Splines by U. S. Gypsum Company.

2b-4 ACOUSTONE Finish Channel by U. S. Gypsum Company.

2b-5 Spring Steel Spacers.

3. Installation shall be:

If lower chords of bar joists are not level, shims shall be used between the lower chord of the bar joists and the Z-Splines as the Z-Splines are attached to the bar joists. $\frac{3}{4}$ " Z-Splines shall be attached on 12" centers and at right angles to the bar joists by No. 85 Clips. ($\frac{7}{8}$ " thick x $12'' \times 24''$ ACOUSTONE "F" or ($\frac{7}{8}$ " x $12'' \times 12''$ MOTIF'D ACOUSTONE) shall be supported by inserting the Z-Spline flanges into the kerfed edges of the tile. Abutting ends shall be aligned by inserting Flat Steel Splines into the kerfs of the adjacent transverse edges of the tile.

ACOUSTONE Finish Channel mouldings shall be provided at the abutting wall surfaces. Spring Steel Spacers shall be placed in the channel at 12" centers.

E-Z-S Suspension System For ACOUSTONE "F".

Maximum size of lower chord bar joists shall not exceed $3\frac{1}{4}$ " wide by $1\frac{1}{2}$ " high. (For members whose lower flange exceeds these dimensions, consult your U.S.G. acoustical contractor.) Bar joists shall be spaced maximum 5'-0" on center.

SPECIFICATIONS

1. **Scope**—(Architect will list all areas to receive acoustical treatment.)

2. Materials—

2a. Acoustical tile shall be:

ACOUSTONE "F" $1\frac{1}{16}$ " or $\frac{7}{8}$ " thickness x $12'' \times 24''$ as manufactured by the U. S. Gypsum Company.

2b. Accessories shall be:

2b-1 $1\frac{1}{4}$ " Z-Spline, painted white, by the U. S. Gypsum Company.

2b-2 No. 85 Clip by U. S. Gypsum Company for attaching Z-Splines to bar joists.

2b-3 Angle Splines by U. S. Gypsum Company.

2b-4 T-Splines by U. S. Gypsum Company.

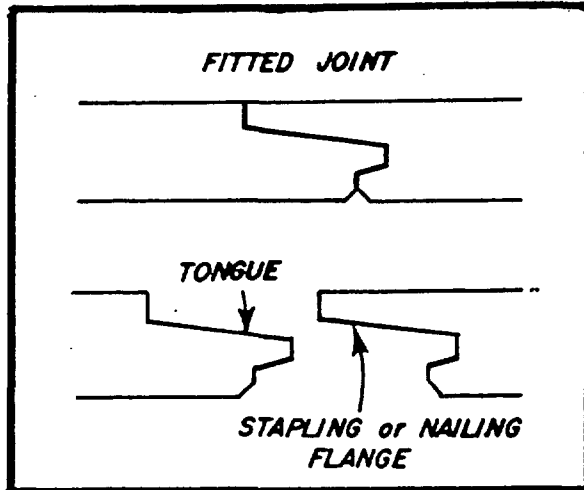
3. Installation shall be:

If the lower chords of the bar joists are not level, shims shall be used between the lower chord of the bar joists and the Z-Splines as the Z-Splines are attached to the bar joists.

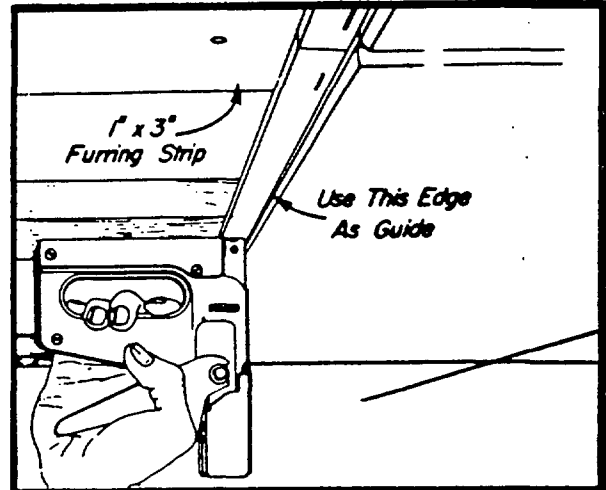
$1\frac{1}{4}$ " Painted Z-Splines shall be attached on 24" centers and at right angles to the bar joists by No. 85 Clips. $1\frac{1}{16}$ " or $\frac{7}{8}$ " thickness x $12'' \times 24''$ ACOUSTONE "F" shall be placed on the top of the lower flanges of the Z-Splines; Angle Splines or T-Splines shall be inserted in the kerfs of the abutting or transverse edges of the ACOUSTONE "F".

METHOD OF STAPLING T & G PERFORATED AUDITONE

UNITED STATES GYPSUM COMPANY
300 West Adams St., Chicago 6, Ill.



DETAIL OF TONGUE AND GROOVE EDGE



STAPLING DETAIL

General

The tongue and groove edge on $\frac{1}{2}$ " and $\frac{3}{4}$ " thickness Perforated Auditone and $\frac{3}{4}$ " Slotted Auditone is designed for staple application. Because of its additional thickness, 1" Perforated and Slotted Auditone must be nailed.

Method

(See above drawings)

Place the staples parallel to the nailing flange pressing firmly against the flange. It is good practice to check the alignment of each course before proceeding. Use at least two staples on the 24" edge and one on the 12" edge. Place tile with stapling flange advancing.

Automatic, trigger type, staplers manufactured by either of the following are recommended:

Bostitch, Inc.

(Factory) Also offices in principal cities of U. S. and Canada. Westerly, R. I. — Model T-5-8 using STRC-5019 9/16" long staples.

Markwell Mfg. Co., Inc.

200 Hudson Street,

New York 13, New York — Model "L3M" using "L30" 9/16" leg cement coated staples.

CORRUTONE ACOUSTICAL SYSTEM

PERFORATED, CORRUGATED METAL PANELS

FUNCTION AND UTILITY

The Corrutone, corrugated perforated metal panel system, provides unusually high sound absorption, incombustible construction, ease of maintenance and flexibility of lighting arrangements.

Because of the simplicity of the system, and because the metal Corrutone panels are made of heavy galvanized bonderized steel, painted with two coats of baked-on enamel that exactly match-

es the enamel finish of the supporting Z-Splines, the Corrutone units can be economically installed and easily maintained.

The incombustible, highly sound absorbent mineral wool pad provides high sound absorption at both the high and low frequencies. The Sound Absorption and Noise Reduction Coefficients listed below were conducted by the Acoustical Materials Association.

HISTORICAL FILE

Trade-Mark Protection

Received APR 1 1954

DO NOT DESTROY

SOUND ABSORPTION COEFFICIENTS ACOUSTICAL MATERIALS ASSOCIATION

Mounting 7	Coefficients At Cycles Shown						
	125	250	500	1000	2000	4000	NRC
	.77	.79	.81	.90	.87	.58	.85

Test by official AMA Laboratory Test No. A-53-111 Jan. 19, 1954

ARCHITECTURAL SPECIFICATIONS

1. **Scope**—(Architect will list all areas to receive acoustical treatment.)

2. **Materials and Accessories**—(supplied by the United States Gypsum Company)

a. Corrutone Metal Panels

a-1. With Z-Splines 2' on center—Use 24" x 24" Corrutone panels

a-2. With Z-Splines 4' on center—Use 24" x 48" Corrutone panels

b. Mineral Wool Pad

b-1. With Z-Splines 2' on center use 24" x 24" Corrutone pad

b-2. With Z-Splines 4' on center use 24" x 48" Corrutone pad

b-3. Corrutone mineral wool may be obtained in rolls for any of the above Z-Spline Spacing.

c. 1½" Cold Rolled Carrying Channel

d. 1¼" Painted Z-Splines

e-1. No. 85 Clip—For attaching Z-Splines to Bar Joists whose lower chord is less than 3¼" wide x 1½" high, or to 1½" or 2" Carrying Channels, or

e-2. No. 87-S Clip—For attaching Z-Splines to Bar Joists whose lower chord dimension is greater than 3¼" wide x 1½" high but less than 4¼" wide x 2½" high; or

e-3. No. 90 Clip—For attaching Z-Splines to wood furring strips or wood framing.

3. **Installation**

a. From 1½" Carrying Channels

Materials

1. Corrutone (Refer to a-1 or a-2, "Materials and Accessories")

2. Mineral Wool Pad (Refer to b-1, b-2, or b-3, "Materials and Accessories")

Accessories

1. No. 8 ga. galvanized hanger wires

2. 1½" cold rolled Carrying Channels

3. 1¼" painted Z-Splines

4. No. 85 Clips or No. 87-S Clips

1½" Carrying Channels shall be tied at 5'-0" intervals to the hanger wires. These channels shall be hung level and spaced at a maximum of 5'-0" on centers. 1¼" painted Z-Splines shall be attached (24", or 48" o.c.) and at right angles to the metal grillage with No. 85 Clips. Corrutone metal panels (2', or 4' wide) shall be placed on top of the lower flange of the Z-Splines. A mineral wool pad or roll shall be placed on the upper surface of each panel prior to the placement of the following panel. This pad shall be tucked under the upper flange of the Z-Splines. Following panels shall lap the preceding panel.

b. From Bar Joists

Z-Splines may be directly attached to Bar Joists—Maximum spacing 5'-0" o.c. (Refer to e-1 or e-2, "Materials and Accessories"), or

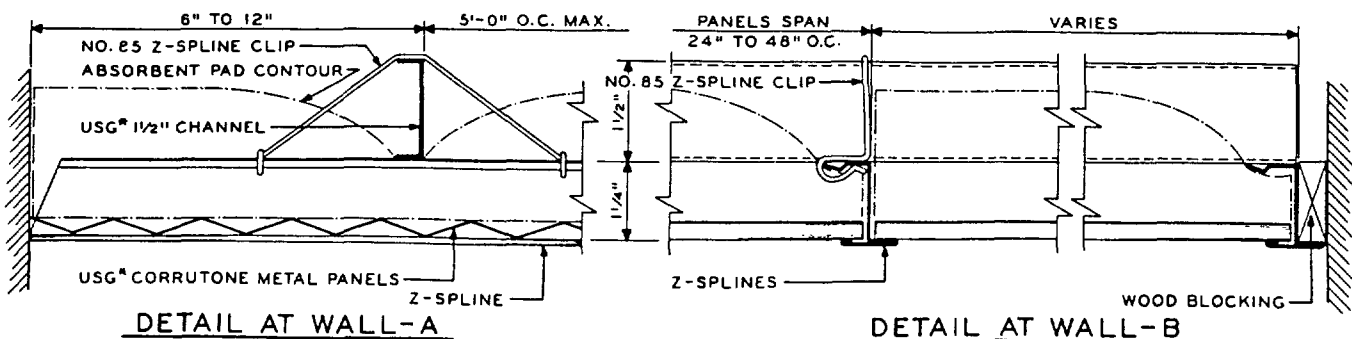
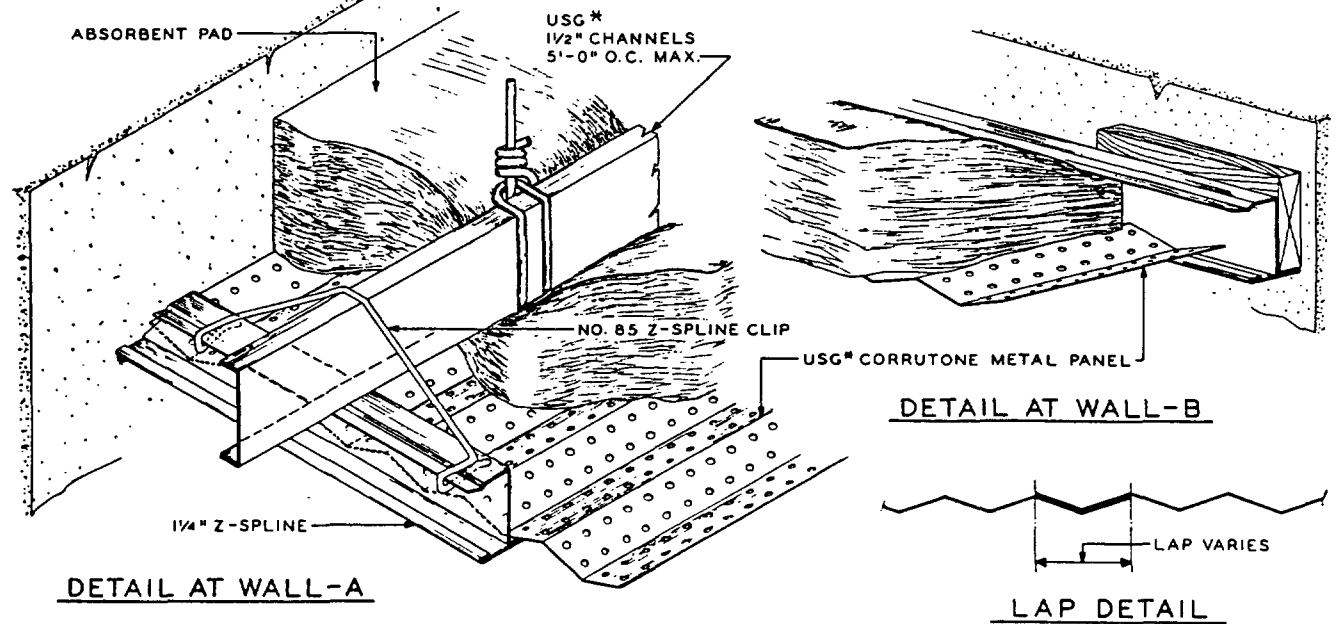
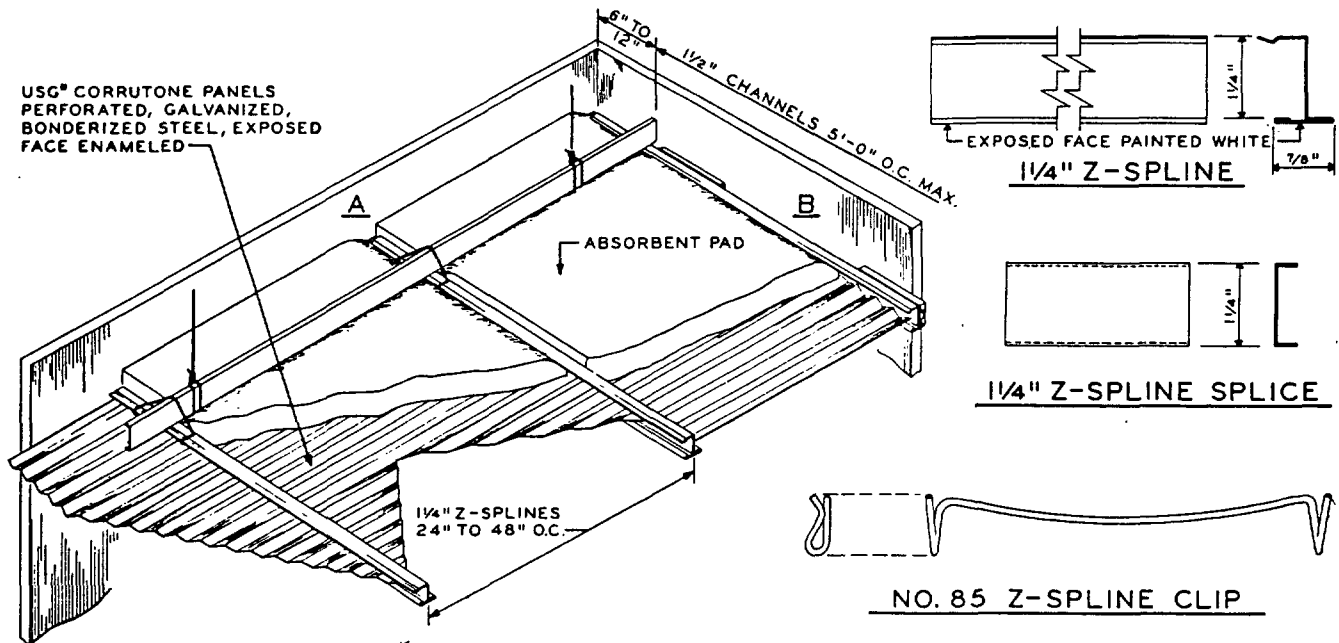
c. From Wood Furring or Framing—(Minimum dimension 2" x 3" wood strips— (Maximum spacing 5'-0" o.c.) (Refer to e-3 "Materials and Accessories") thereby eliminating the need for hanger wires and carrying channels. Corrutone installation procedure from Bar Joists or wood furring or framing is identical with that from 1½" carrying channels.



UNITED STATES GYPSUM

The Greatest Name in Building

CORRUTONE ACOUSTICAL SYSTEM



* T.M. REG. U.S. PAT. OFF.