PLAINTIFF'S EXHIBIT

USG-996

PERFORATED

AUDITONE

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

WOOD FIBER
ACOUSTICAL TILE

For Low Cost...
Highly Efficient
Sound Control...

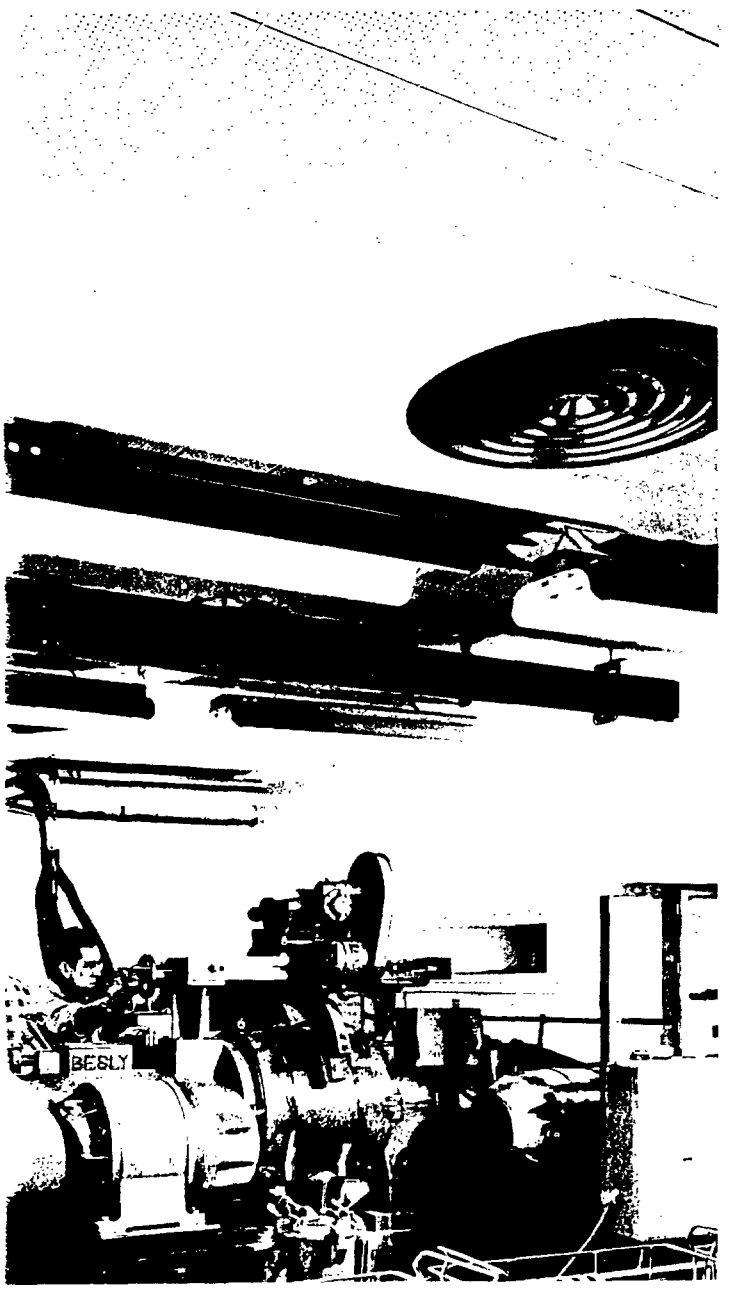
UNITED STATES GYPSUM COMPANY
HISTORICAL FILE
THIS PRODUCT IS TO BE WITHHELD FROM FILE
RETURN AT ONCE
TO ADVERTISING DEPT. - CHICAGO



BB022 1884

PERFORATED

clean, simple design complements any interior



Perforated AUDITONE is a lightweight, low-cost, wood fiber tile, designed and produced to give high acoustical efficiency. In each square foot of tile there are 484 holes, 3/16" in diameter, to give this efficient acoustical tile an NRC rating of .60 to .75, depending on thickness and type of installation. (See sound absorption coefficient chart.)

Perforated AUDITONE is finished in white paint, and has a light reflection coefficient of 79%, as tested by A.M.A. laboratories. Its beautiful, simple design lends itself to almost any architectural motif.

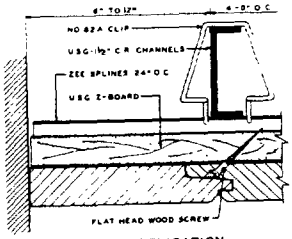
Your AUDITONE tile contractor can apply it expertly in several ways. Bevel-edge AUDITONE is cemented in place; tongue-and-grooved AUDITONE may be blind-nailed directly to studs or nailing strips, or screwed to USG Sheathing or SHEETROCK.

The smooth, painted finish of Perforated AUDITONE resists soiling; can be cleaned if necessary with putty or paste-type wallpaper cleaners. Moreover, it can be repeatedly repainted with a brush or spray—with no appreciable loss of acoustical efficiency.

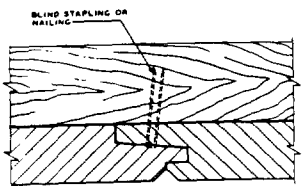
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AUDITONE

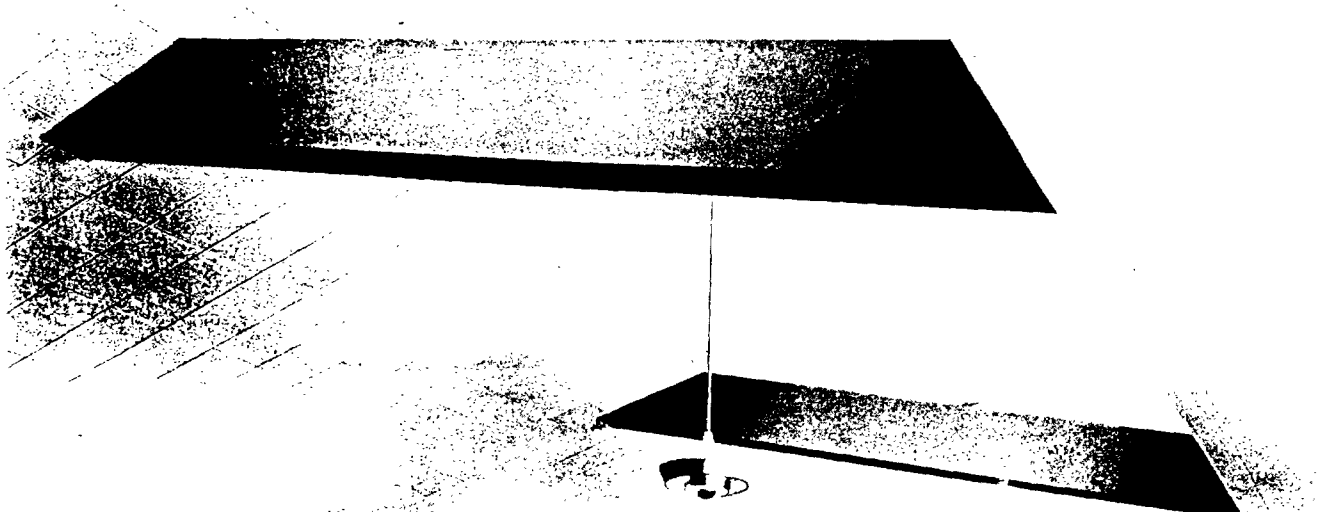
ADHESIVE APPLICATION
12"x12" AUDITONE

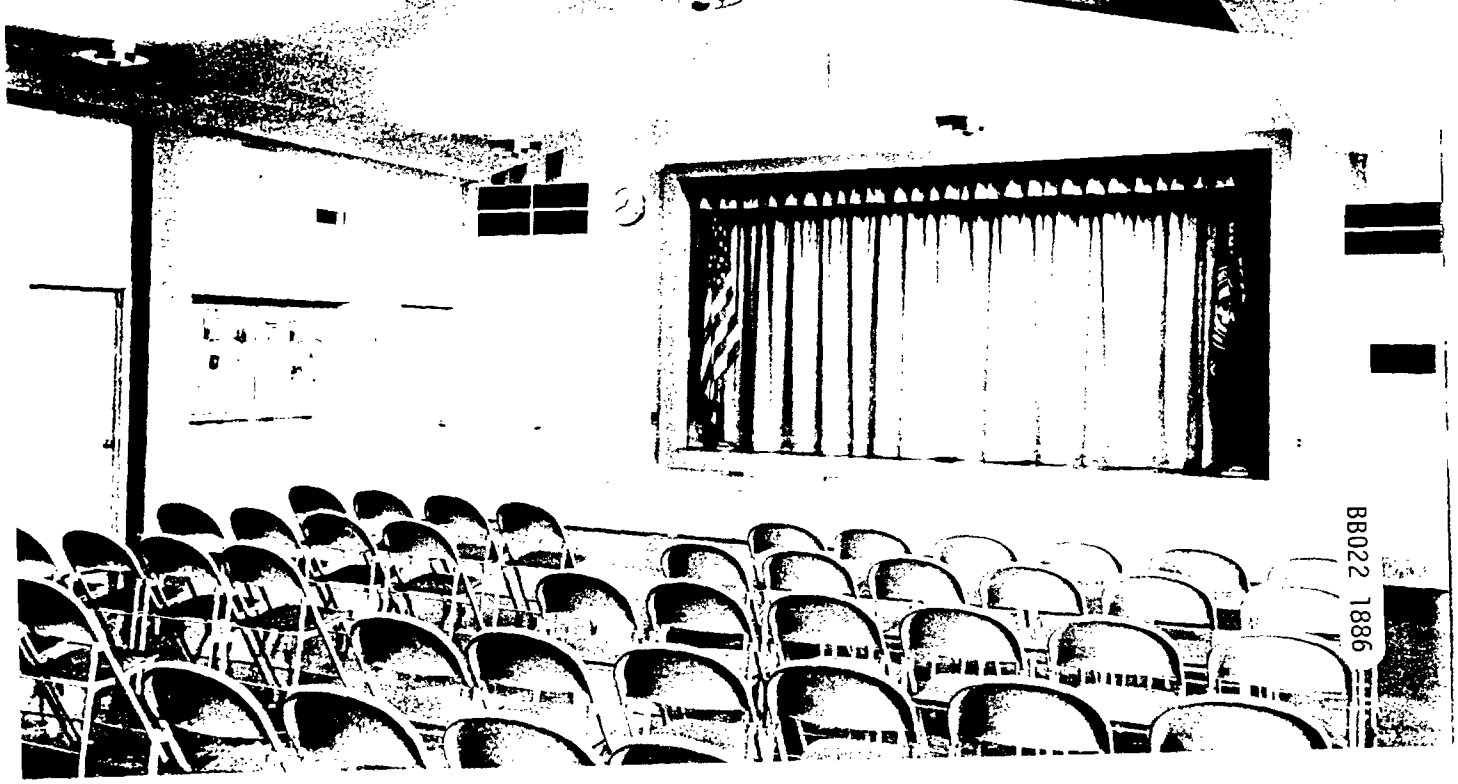


SCREW APPLICATION
TO U.S.G. Z-BOARD USING 12" X 24"
T & G AUDITONE



STAPLING OR NAILING APPLICATION
TO WOOD STRIPS USING 12" X 24"
T & G AUDITONE





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SPECIFICATIONS.....

Edge Treatment. PERFORATED AUDITONE is made with butt bevel and tongue-and-groove edges for cementing to proper bases without supplementary nailing. The tongue-and-groove edges are designed to utilize the most economical methods available for stapling, screwing or nailing wood fiber tile directly to wood joists, studs or nailing strips. The tongue-and-groove edges assure level joints and a smooth ceiling appearance.

Screw Application to Gypsum Boards. Tongue-and-groove PERFORATED AUDITONE may be screwed directly to ½" USG Sheathing or SHEETROCK* wallboard. Because the 12" x 24" tile has a tongue-and-groove edge, only one screw per square foot of tile is required to attach the tile. (See page 3 for details.)

Paint and Color. The face and bevels of PERFORATED AUDITONE are finish-painted WHITE at the factory.

Maintenance. PERFORATED AUDITONE can be repeatedly brush or spray painted following normal paint procedure with oil, resin emulsion, casein, calcimine or any of the commercial types of paint without loss of sound absorption at 500 cycles per second or in the noise reduction coefficient. PERFORATED AUDITONE, wood fiber acoustical tile, can be cleaned with putty or paste type wall paper cleaners.

Resistance to Soiling and Breathing. The smooth, painted finish of PERFORATED AUDITONE wood fiber acoustical tiles resists soiling, and the tongue-and-groove edges minimize objectionable air travel through the joints when used on suspended nailing strips.

Thermal Conductivity. PERFORATED AUDITONE has a k factor of 0.38.

Fire Resistance. 1. PERFORATED AUDITONE, when painted with a standard USG mill finish, is rated "combustible" by Federal Specifications SS-A-118a.

2. PERFORATED AUDITONE, when mill-finished with USG flame-resistant paint, is rated "slow burning" under Federal Specifications SS-A-118a, Paragraph E-3C.

SOUND ABSORBTION COEFFICIENTS

SOURCE: Acoustical Materials Association

THICKNESS	MOUNTING	Coefficients at Cycles Shown						NRC	WEIGHT psf
		125	250	500	1000	2000	4000		
1"	1	.16	.38	.77	.86	.75	.61	.70	1.40
1"	2	.19	.49	.73	.92	.77	.59	.75	1.40
¾"	1	.19	.33	.72	.78	.74	.62	.65	1.11
¾"	2	.13	.62	.58	.86	.83	.80	.70	0.95
½"	1	.09	.28	.69	.73	.73	.68	.60	0.76
½"	2	.09	.56	.46	.65	.72	.74	.60	0.78

Tile tested were painted with a full finish coat of paint.

Mounting No. 1—Cemented to plasterboard—considered equivalent to cementing to plaster or concrete ceiling.

Mounting No. 2—Nailed to wood strips.

LIGHT REFLECTION—
PERFORATED AUDITONE—WHITE, 79%

Tests by Official AMA Laboratory.

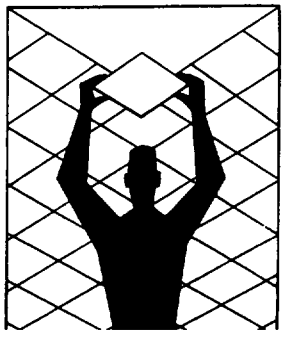
HEAT CONDUCTIVITY: k = 0.38

FIRE RESISTANCE:

1. "Combustible" when painted with standard USG Mill-Finish.
2. Meets Federal Specification SS-A-118a "Slow Burning" classification under paragraph E-3c when mill-painted with USG Flame-Resistant Paint.

DESIGN DATA				
UNITS	EDGE	PERFORATED	THICKNESS	CENTER-SCORED
12" x 12"				
Field Tile	Butt	Yes	½", ¾", 1"	No
Border Tile	Butt	No	½", ¾", 1"	No
12" x 24"				
Field Tile	T&G	Yes	½", ¾", 1"	Yes
Border Tile	T&G	No	½", ¾", 1"	Yes

Sound Control Is a Job for Experts! And your AUDITONE tile contractor is an expert—trained and experienced in modern acoustical treatment. Call on us for complete drafting room details, and for scientific analysis of your sound control problems.



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*T. M. Reg. U. S. Pat. Off.