

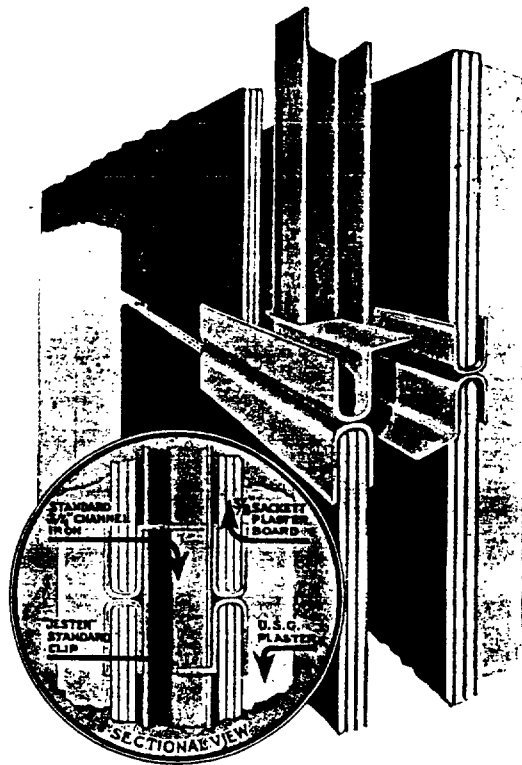
JESTER-SACKETT System

For Hollow Partitions

"An Improved Economical Construction"

PLAINTIFF'S EXHIBIT

USG-2090



IMPORTANT ADVANTAGES OVER "METAL LATH" PARTITIONS

- | | |
|---------------------------------------|-------------------------------------|
| 1—LOW COST | 5—TIME, PLASTER AND MONEY SAVED |
| 2—SIMPLICITY AND RAPIDITY OF ERECTION | 6—NO LATH OR RUST STAINS |
| 3—LIGHTNESS | 7—RIGID, UNIFORM PLASTERING SURFACE |
| 4—SOUND RESISTING QUALITIES | 8—INCOMBUSTIBLE AND FIRE-RESISTING |

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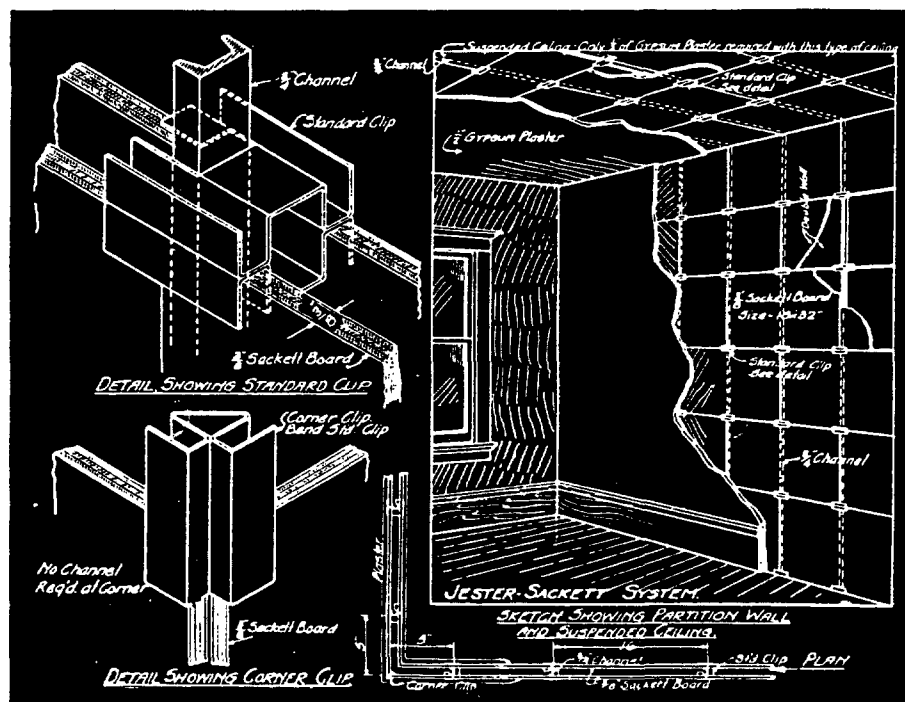
JESTER-SACKETT HOLLOW PARTITIONS

LOW COST. This system is economical because it requires only about one-half as much plaster as a metal lath hollow partition. Furthermore, it is more quickly erected, and more easily plastered, fewer coats being necessary.

SIMPLICITY. The construction consists of ordinary $\frac{3}{4}$ "-Sharon or hot rolled channel iron-spaced 16" on centers, on

affords sound insulation, but also affords an ideal void for pipes, ducts, etc.

SAVES TIME, PLASTER AND MONEY. This system is speedily erected on account of the fewer channels to place as compared with metal lath construction, and the rapidity with which the Sackett Boards are clipped and plastered. Only two coats of plaster are required, the



each side of which are placed solid sheets of $\frac{3}{8}$ "-Sackett Plaster Board, 32" long and 18" high, securely fastened by Jester Steel Clips. The partition can be erected by any good mechanic, no special tools being required.

LIGHTNESS. This partition is exceptionally light, gypsum plaster board being the lightest known material used for construction of incombustible partitions.

SOUND RESISTING QUALITIES. Sackett Plaster Board is composed of alternate layers of Gypsum and felt. When covered with gypsum plaster the partition is superior to a metal lath partition in sound resisting qualities. The air space between the plaster boards not only

plasterers following up with the finish coat as soon as the base coat is set. Sackett Plaster Board requires only one-half as much plaster as metal lath.

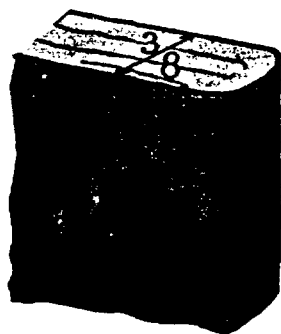
NO LATH OR RUST STAINS. Sackett Plaster Board is non-staining. No metal comes in contact with the wet plaster except the rust-proof clips.

INCOMBUSTIBLE AND FIRE RESISTING. Exhaustive tests have proved that gypsum is a most effective barrier to fire. The gypsum plaster and plaster board will not burn. Also, both have a low coefficient of conductivity, which prevents ignition through the partition during a fire.



Jester-Sackett Hollow Partition under construction. Minimum thickness (plastered) $2\frac{3}{4}$ ".
 Partition can also be constructed in 3", $3\frac{1}{2}$ ", 4", 5" or 6". Use $\frac{3}{8}$ " Sackett Plaster Board 18"x 32".
 Note also Jester-Sackett Suspended Ceilings.

Be Sure It's Sackett



Sackett Board, actual thickness. Sackett is the only Plaster Board covered with felt. The felt has more tensile strength than wood or straw pulp paper, it does not contract and gypsum plaster bonds with it perfectly. "Sackett" and Plaster become one solid mass of gypsum, possessing great strength, rigidity and durability. Note the felt protected edges, a patented Sackett feature.

Why Plaster Adheres to "Sackett"



Cross Section of "Sackett" magnified 200 diameters, showing impregnation of felt by gypsum. The long, interwoven fibres in the layers of felt afford the same ideal bond for the gypsum wall plaster and mortar as for the gypsum that is interposed during manufacture.

CONSTRUCTION DETAILS AND SPECIFICATIONS

Jester Sackett Hollow Partition can be constructed in the thicknesses shown in table at right which include $\frac{1}{2}$ " thickness of plaster on each side. The table also shows the size of channel and number of the clip required for each thickness.

Finished Thickness	Hollow Space Between Boards	Size Channels To Be Used	Clip Number
2 $\frac{3}{4}$ "	3 $\frac{1}{4}$ "	3 $\frac{1}{4}$ "	6
3"	1 $\frac{1}{4}$ "	1 $\frac{1}{4}$ "	8
3 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	10
4"	2"	2"	12
5"	3"	Two 3 $\frac{1}{4}$ "	6
6"	4"	Two 3 $\frac{1}{4}$ "	6

Grounds and Door Bucks

In Jester Sackett partition construction, $\frac{1}{2}$ " grounds are necessary under all wood base boards, chair rails and picture moulds, which grounds are attached by wire to the steel studs. Where grounds are required on opposite sides of partitions, they may be attached by wiring them together. Wood door bucks should be of same width as finished thickness of partition. These details are similar to those used with metal lath.

For attaching Sackett Board to door bucks, use regular Jester Clips set vertically in the double partition.



Clip for Jester-Sackett Hollow Partition

Quantities Required for Jester-Sackett Hollow Partitions

Jester Sackett Clips..... 10 per sq. yd.
Channel Irons..... 8 ft. per sq. yd.
Use $\frac{3}{8}$ " Sackett Board, 18" x 32". Multiply

square yards of partition by two, for both sides.

Order sufficient materials to take care of wastage.

Specifications for Jester-Sackett Hollow Partitions

JESTER-SACKETT 2 $\frac{3}{4}$ " Partitions are to be constructed with $\frac{3}{4}$ " channels, spaced 16" on centers, and fastened to floors and ceilings the same as in metal lath partitions. On each side of the channels place SACKETT Plaster Board, 18" x 32" in size and $\frac{3}{8}$ " thick, and clip to each channel with Jester $\frac{3}{4}$ " clips, breaking all perpendicular joints between floor and ceiling. Partition requires $\frac{1}{2}$ " of Gypsum Plaster on a side. Finished

partition to be 2 $\frac{3}{4}$ " thick. (Indicate if thicker partition is required.)

CARPENTER CONTRACTOR is to place grounds for plastering, picture mould, base and chair rail where required, and is to set all bucks. Bucks are to be made from 2" pine, of width of finished wall, and properly braced and set.

Specifications for Plastering

PLASTER—To be United States Gypsum Company's Gypsum Wood Fibre, Cement or Prepared Plaster, mixed and applied according to manufacturer's directions.

SACKETT Plaster Board must *not be wet* before applying plaster. Plaster out to grounds, making all angles and corners flush and straight, ready to receive

trim. Allow plaster on one side of partition to set before plastering other side.

FINISH—To be United States Gypsum Company's Prepared Trowel Finish or Sand Float Finish, mixed and applied according to manufacturer's directions.

ESTIMATES ON THIS SYSTEM ERECTED IN PLACE, READY FOR PLASTERING, WILL BE GLADLY FURNISHED

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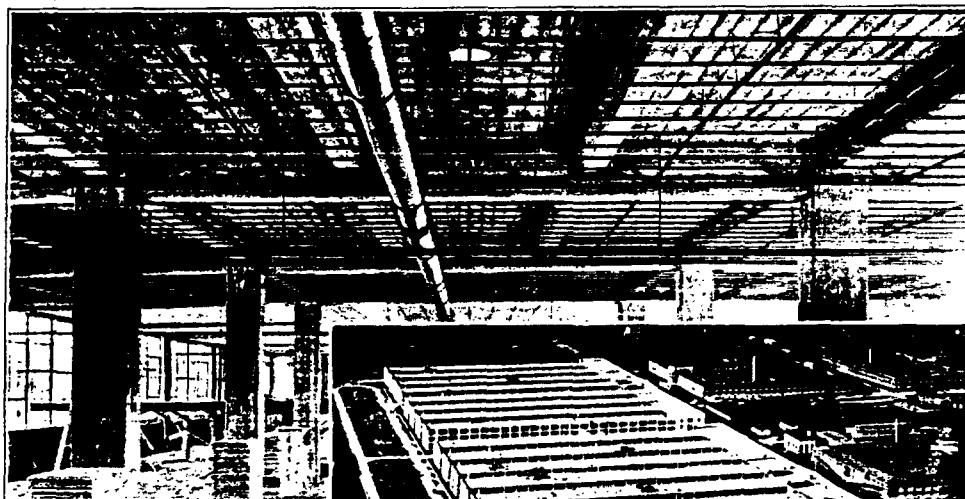
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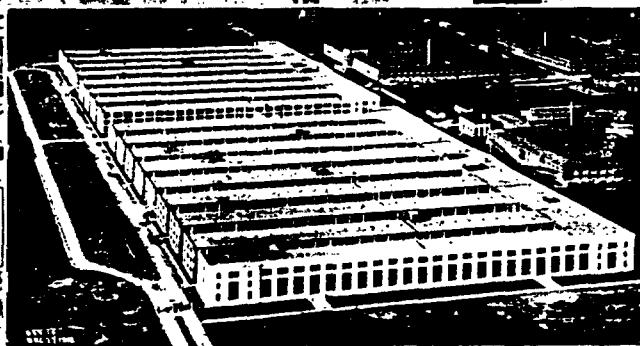
JESTER-SACKETT System

- For Suspended Ceilings

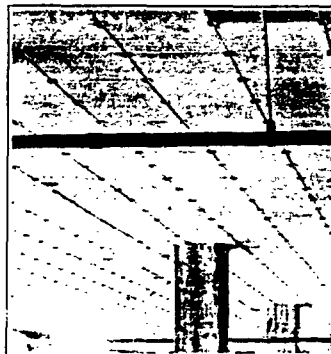
- "An Improved Economical Construction"



Interior U. S. Army and Navy Bldg. showing channels in place ready for Sackett Plaster Board to be clipped on



U. S. Army and Navy Building, Washington, D. C.
660,000 square feet of Jester-Sackett Suspended Ceilings



Same interior showing Jester-Sackett suspended ceiling applied, ready for plaster
Photographs published by permission of the Navy Department

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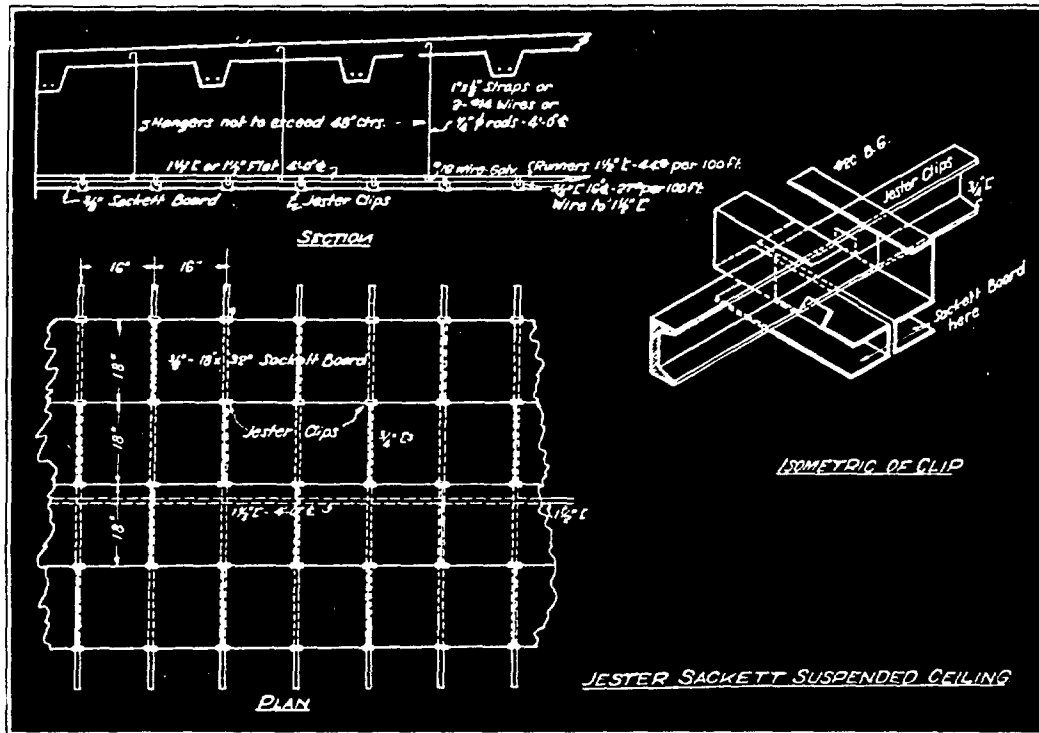
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JESTER-SACKETT SUSPENDED CEILING

The Jester-Sackett method of incombustible Suspended Ceiling is a decided improvement over the more expensive metal lath construction.

Its simplicity and rapidity of erection is of special interest to architects, contractors and owners.



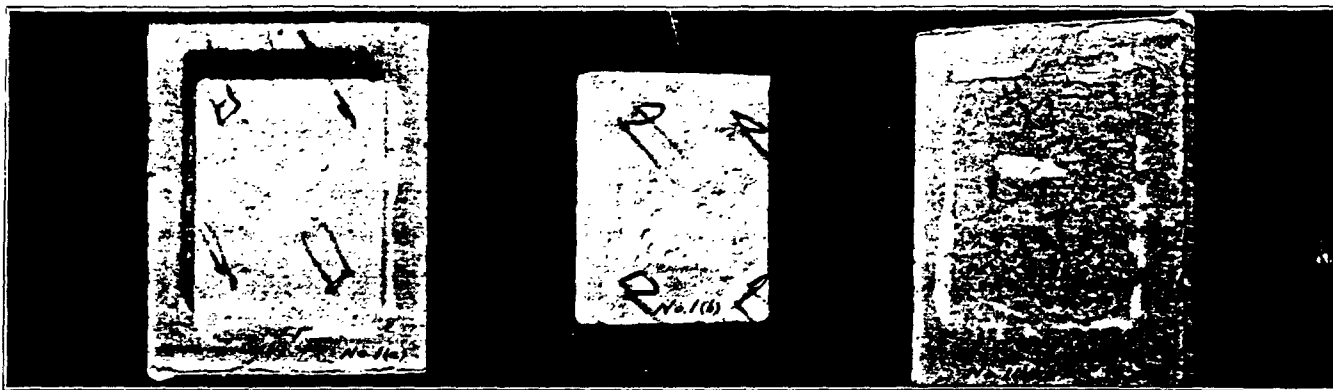
Working Details of JESTER-SACKETT Suspended Ceiling Construction

DESCRIPTION:—Sackett Plaster Boards are composed of three layers of pure gypsum and four layers of felt, placed alternately, forming tough, fire-resistive, uniform sheets. These boards are $\frac{3}{8}$ " thick, 18" x 32" in surface measurement, and are clipped to $\frac{3}{4}$ " channel irons placed 16" on centers and suspended from ceiling by suitable hangers.

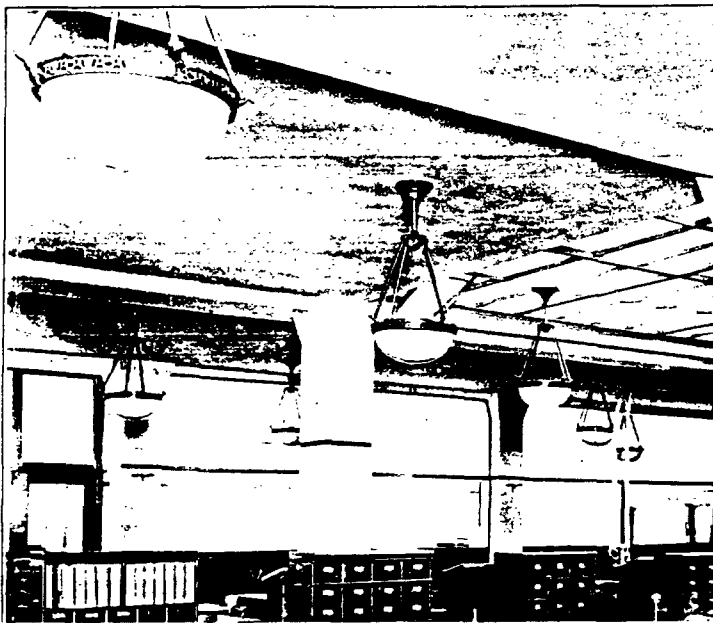
SMOOTH, EVEN PLASTER SURFACE:—

This method of construction secures a smooth, even plastering surface, saving approximately one-half the plaster required for metal lath construction. Usually two coats of plaster are sufficient. All rust stains are eliminated because no wet plaster comes in contact with the metal to cause corrosion.

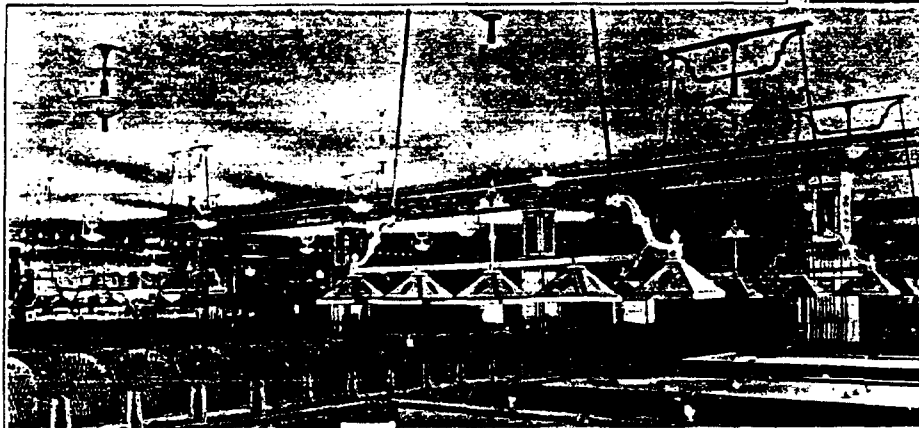
16.05 LBS. PER SQ. INCH TO PULL GYPSUM PLASTER FROM SACKETT BOARD



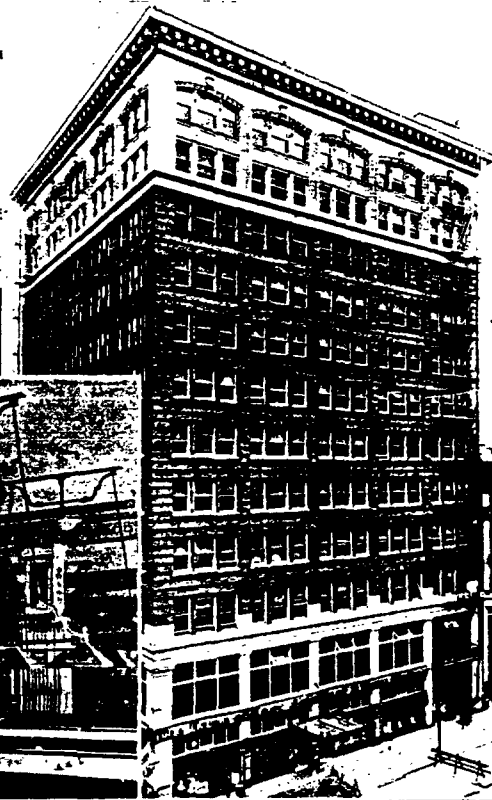
In order to demonstrate the bonding strength between Sackett Plaster Board and Gypsum Plaster, samples of the Board 4x5 inches were plastered with commercial gypsum sanded plaster, the thickness of the plaster coat being $\frac{1}{2}$ inch and the size of the plaster panel approximately 2 ft x 3 ft, inches. Metal staples were embedded in the plaster coat as illustrated. To these staples was suspended a platform upon which a load was applied and gradually increased until rupture took place. In the tests conducted, the average load required to produce a parting of Plaster and Board was 145 pounds, or 16.05 pounds per sq. in.



Main Office of the Portland Gas and Coke Co., Gasco Bldg., Portland, Oregon



Realto Billard Parlors, Portland, Oregon.—10,000 Sq. Feet Suspended Ceilings.
Architects, Sutter and Whitney. Contractors, Bingham and McClelland



Gasco Building, Portland Oregon
74,000 Sq. Feet Jester-Sackett Ceilings
Archts., Whidden & Lewis. Contr., Hurley Mason Co.

Be Sure It's Sackett



Sackett is the only plaster board composed of four sheets of felt alternating with three layers of gypsum. These alternate layers give the necessary flexibility; also prevent too rapid absorption during plastering. The felt has good tensile strength, does not contract, and the Sackett and plaster become one solid mass of gypsum. Note the felt-protected edges, another exclusive Sackett feature.

This Shows Why

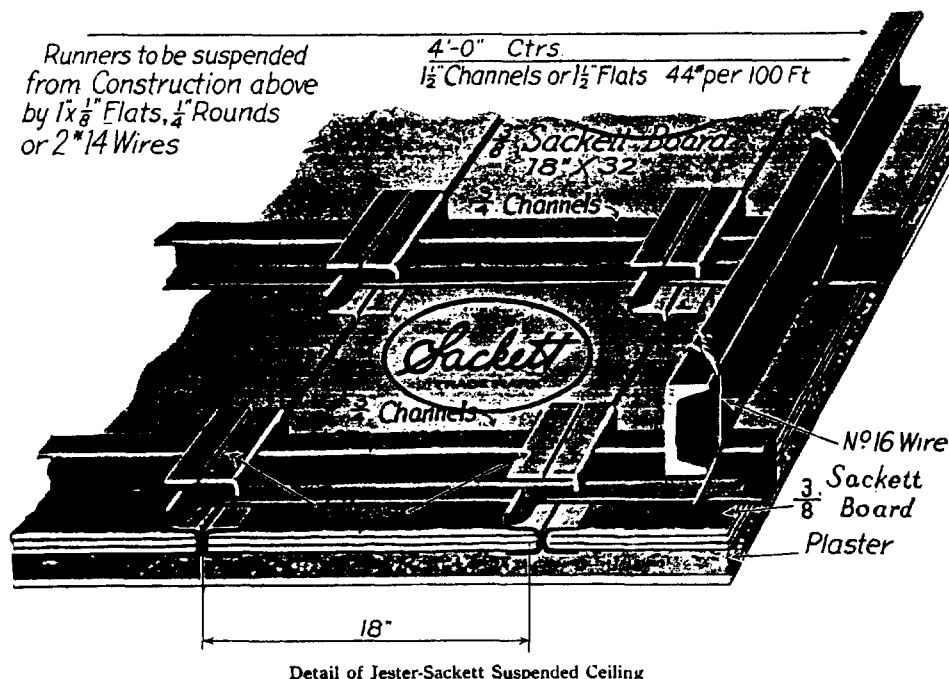


↑ Pure Calcined Gypsum ↑
↑ Outside layers of fibrous binding material and surfaces for plastering ↑

Cross Section of "Sackett" magnified 200 diameters, showing impregnation of felt by gypsum. The long, interwoven fibres afford the same ideal bond for the plaster as for the gypsum layer that is interposed during manufacture. One hundred and forty-five pounds straight pull was required to separate a 2 1/4' x 3' panel.

RAPIDLY ERECTED:—Jester Sackett Suspended Ceiling System is economical in first cost and is erected and plastered with maximum speed. Less plaster being required, the ceiling takes less time for drying as well as less labor and time in plastering.

TRANSMISSION OF SOUND MINIMIZED:—Tests prove conclusively that Sackett Plaster Board transmits less sound than any other system of similar construction. Other things being equal, in a building whose ceiling is constructed with Jester-Sackett, less sound will be transmitted from room to room over existing partitions.



Detail of Jester-Sackett Suspended Ceiling

SPECIFICATIONS FOR JESTER-SACKETT SUSPENDED CEILINGS

All ceilings where indicated to be suspended, shall be formed of SACKETT Plaster Board with the Jester Ceiling Clips. Boards to be $\frac{3}{8}$ " SACKETT, 18" x 32" in size, attached by means of Jester Clips to $\frac{3}{4}$ " standard or Sharon channels spaced 16" on centers. These $\frac{3}{4}$ " channels to be attached by means of No. 16 tie wire to $1\frac{1}{2}$ " channels spaced 4 feet apart, which latter are to be suspended from the construction above by $1 \times \frac{1}{8}$ " flat iron straps, or $\frac{1}{4}$ " round rods or two No. 14 galvanized wires, not to exceed 4 feet on centers, bent around them and wired securely.

Hangers are to be provided by this contractor, but will be set in concrete by the mason contractor.

SPECIFICATIONS FOR PLASTERING

PLASTER:—To be United States Gypsum Co.'s Gypsum Wood Fibre, Cement or Prepared Plaster, mixed and applied according to manufacturer's directions.

SACKETT Plaster Board must *not* be wet before applying plaster. Apply scratch coat and allow to dry. Second coat to be brought out to grounds to receive finish coat. Make all angles and corners flush and straight.

FINISH:—To be United States Gypsum Co.'s Prepared Trowel Finish or Sand Float Finish, mixed and applied according to manufacturer's directions.

Estimates on Jester-Sackett System erected in place ready for plastering will be gladly furnished.

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