

UNITED STATES GYPSUM COMPANY
300 West Adams Street • Chicago

SPECIFICATIONS AND COEFFICIENTS OF SABINITE ACOUSTICAL PLASTER

taken from Official Bulletin of the Acoustical
Materials Association, Bulletin No. III, July, 1935

Material	Thick- ness	Coefficients					Noise Reduction Coefficient	Number of Coats	Base Coat	Wt. of dry acous- tical plaster per sq. yd.	Application	Surface Treatment
		128	256	512	1024	2048						
Sabinite A Acoustical Plaster	1/2"	.34	.30	.31	.61	.69	.80	1st coat 1/4" 2nd coat 1/4"	gypsum plaster	19.3 lbs.	2nd coat applied as soon as 1st coat had set.	Floated with cork float.
Sabinite A Acoustical Plaster	3/4"	.36	.37	.65	.67	.67	.85	1st coat 1/4" 2nd coat 1/4"	gypsum plaster	29.4	2nd and 3rd coats applied at inter- vals of 2 days.	Same as above.
Sabinite 38 Acoustical Plaster	1/2"	.25	.26	.32	.60	.76	.80	1st coat 1/4" 2nd coat 1/4"	oriental stucco	19.4 lbs.	Same as above.	Same as above.

*The noise reduction coefficient is the average of the coefficients at frequencies from 256 to 2048 cycles inclusive, given to the nearest 5%. This average coefficient is recommended for use in comparing materials for noise quieting purposes as in offices, hospitals, banks, corridors, etc.

For auditorium treatment, attention should be directed to the coefficients at 512 cycles and other frequencies as explained elsewhere.

Each sample of acoustical plaster was mixed and applied by a skilled plasterer, according to specifications furnished by the manufacturer. The acoustical plaster was applied to panels mounted on a ceiling under conditions that might be expected to exist on normal jobs. All samples were applied to a 3/4" dry base coat on metal lath nailed to 1" x 2" furring. The panels so made were laid on the floor of the Sound Chamber for tests.

SPECIFICATIONS

Note: Notes are explanatory or advisory only and should not be included in the specifications.

(1) WORK INCLUDED

Note: List and locate all walls and ceilings to be covered with Sabinite Acoustical Plaster. If Sabinite A, B and Sabinite No. 38 are used, list and locate separately. If different colors of integrally tinted Sabinite are used, specify the colors for the various areas.

(2) GROUNDS

On walls, in addition to the usual grounds set for the scratch and brown coat plaster base, set additional 1/2-in. or 3/4" thick grounds to assure proper thickness of the Sabinite and form nailing for wood trim, etc. All corner beads shall be set to conform to the increased plaster thickness.

(3) ACOUSTICAL TREATMENT MATERIAL

(3a) Acoustical Treatment material shall be (Sabinite A) (Sabinite B) (and) (No. 38) Sabinite Acoustical Plaster as manufactured by the United States Gypsum Company.

(3b) Sabinite shall be integrally tinted by the manufacturer at the mill.

Note: Integrally tinted Sabinite should be a shade lighter than the same color would be in paint because the texture of Sabinite casts a slight darkening shadow.

(4) SCRATCH AND BROWN COAT BASE

(4a) Sabinite A and B - All walls and ceilings to receive

Sabinite A (and B) shall be given a scratch and brown coat of gypsum plaster containing not more than two parts of sand by weight to one part of plaster.

(4b) Sabinite No. 38 - Hydraulic Sabinite shall be applied over (Oriental Exterior Stucco) (Gypsum) Base Coat.

Note: Oriental Exterior Stucco Base Coat is a prepared material requiring no sand or other addition except water. It is applied in two coats in place of the regular scratch and brown coats. Use where humidity is severe.

(4c) The scratch coat shall be thoroughly broomed before the second or brown coat is applied. The second or brown coat shall be deeply raked after straightening.

(5) APPLICATION OF SABINITE

The application of Sabinite shall only be made under the supervision of the United States Gypsum Company.

The plastering contractor shall arrange with the nearest sales office of the United States Gypsum Company for the servicing of Sabinite and shall not commence its application until so directed by the manufacturer's service representative.

Sabinite shall be applied in two (2) or 3 coats each 1/4 in. thick over a thoroughly dry base coat. Each coat shall be set before next is applied. The instructions of the service representative for floating and troweling each coat shall be observed throughout its application.