

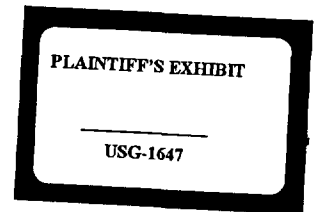
APPLICATION DIRECTIONS

FOR

SHEETROCK

AND

PERF-A-TAPE JOINT SYSTEM



The recommendations and directions for the use of Sheetrock and Perf-A-Tape described herein are brief but fundamental. Good walls and ceilings result when these directions are closely followed. Failure to observe them may not provide the fine results customarily obtained with Sheetrock.

Sheetrock is not limited to use in residential constructions. Its fire resistance, economy, stability, strength and decorative possibilities make Sheetrock the choice for every type of job.

**RETURN AT ONCE
USE SHEETROCK FOR:**

OFFICE BUILDINGS

RESTAURANTS

HOTELS

RECREATION ROOMS

ROAD HOUSES

NIGHT CLUBS

SCHOOLS

CHURCHES

INSTITUTIONS

HOSPITALS

BARRACKS

CAMPS

DEPARTMENT STORES

DISPLAY ROOMS

STORE BUILDINGS

FURNITURE STORES

GARAGES

FILLING STATIONS

FACTORY BUILDINGS

FARM BUILDINGS

DRYING ROOMS

WASH ROOMS

STORAGE ROOMS

FURNACE ROOMS

UNITED STATES GYPSUM COMPANY



Where Research Develops Better, Safer Building Materials

SHEETROCK SPECIFICATIONS

General

FRAMING LUMBER

Use Surfaced and well dried lumber. (Green or wet lumber will shrink, warp, and twist after wall is in place.)

FRAMING

Space studs, joists, or furring strips 16" O.C. All framing members must be in alignment before board is applied. Plates must be flush with studs.

WINDOW AND DOOR FRAMES

Have mill cut the frames for Sheetrock grounds. If standard frames are on job, cut down pulley stile or use filler strip.

CEILING HEIGHTS

If possible plan ceiling height that will take standard lengths when applied vertically, or horizontally. This will avoid waste and save joints. If height of ceiling is a few inches over standard sizes of Sheetrock, this may be taken up under baseboard or picture mould.

ROOM SIZES AND OPENINGS

Wherever possible plan openings and room sizes to use standard lengths of Sheetrock. This reduces waste and joints.

CORNER FRAMING

Provide nailing members for both boards forming interior or exterior corners and ceiling-wall angles.

HEADERS

Except in horizontal construction provide headers to support all edges of Sheetrock.

OVER OLD PLASTERED WALLS

Cross furr ceilings. If plaster surface is fairly solid apply directly to old framing members nailing through plaster. Quarter inch Sheetrock will ordinarily avoid burying trim.

Application of Sheetrock

CUTTING OR SCORING

Score face with sharp knife, snap back breaking core and cut paper on back side. When necessary to saw place face side up and support close to sawing edge. On any cut edge or mill end use rasp or coarse sandpaper to smooth edge and bevel paper on face side of board.

NAILS

It is important that proper nail be used.

For $\frac{1}{4}$ " and $\frac{3}{8}$ " Sheetrock use 4d Cement Coated 14 Gauge $1\frac{3}{8}$ " long—head not over $\frac{1}{4}$ ". For $\frac{1}{2}$ " Sheetrock use 5d Cement Coated $1\frac{1}{2}$ Gauge $1\frac{5}{8}$ " long—head not over $\frac{1}{4}$ ". Over old Plaster use 6d Cement Coated $1\frac{7}{8}$ " long—head not over $\frac{1}{4}$ ". DO NOT USE BRIGHT GALVANIZED OR BLUED NAILS.

NAILING SHEETROCK

Space 4" to 5" at joints (Don't stagger nails).

Space 6" to 8" in the field.

Drive nails home, leave hammer mark in board. Head of nail must be below level of board to spot with cement.

Be sure board is firmly seated against framing member.

DON'T USE NAIL SET OR BREAK THROUGH SURFACE PAPER.

Butt folded edges without forcing, but leave cut edges or mill ends $\frac{1}{8}$ " apart. (If face paper is properly beveled, cut edges or mill ends, may be butted and still leave required spacing between the two face papers.)

Apply ceilings first—for one man application on ceilings use a T made of 1x2's to support one end of Sheetrock and nail a cleat on studs about $\frac{5}{8}$ " below ceiling to support other end of Sheetrock.

Do not let joint on opposite sides of a partition fall on same stud. Break end or cross joints NEVER LET FOUR CORNERS COME TOGETHER.

Horizontal Construction

Our Specifications permit only $\frac{3}{8}$ " and $\frac{1}{2}$ " Recessed Edge Sheetrock with Perf-A-Tape to be applied horizontally.

Do not use $\frac{1}{4}$ " Sheetrock or any square edge Sheetrock for horizontal application. The only recommended joint treatment to be used on recessed edge Sheetrock for horizontal construction is Perf-A-Tape or Metal-A. Apply at right angle to studs, joists, or furring strips.

Header is not required back of recessed Edge.

If fire stop or brace is required place above or below recessed edge joint.

End joints will fall on framing members.

Apply ceiling first. Apply from ceiling down on side wall.

Wherever possible avoid end joints in ceilings by spanning with one standard size board either with or across joists.

On walls span room if possible with one standard size board. Bring end joints in walls to offsets or above and below openings. (Pieces cut from openings may be used in closets.)

Application of Perf-A-Tape

GENERAL

1. If spacing between boards exceeds $\frac{1}{8}$ ", use Sheetrock Finisher to fill before applying Perf-A-Tape.
2. Sufficient cement is in package to apply Perf-A-Tape.
- DO NOT ADD ANYTHING TO CEMENT.
3. Spot all nailheads in the field with joint cement to surface of the board.
4. Do not mix more cement than will be used in one day, and protect mix from drying by covering with wet cloth.
5. Perf-A-Tape may be omitted at wall and ceiling angles if crown or picture mould is used.
6. Apply Perf-A-Tape to recessed edges first.

MIXING CEMENT

1. Mix with water to a stiff putty consistency that will hold to Sheetrock knife without dropping. CEMENT MIXED TOO THIN INCREASES SHRINKAGE POSSIBILITIES.
2. Allow to stand twenty to thirty minutes to completely take up water.

3. If cement works thinner after standing add sufficient cement to bring to stiffer consistency.

SHEETROCK KNIFE

1. This knife has a blade that is carefully hollow ground to permit its use both for pressing cement out as a putty knife, and for smoothing cement.
2. Use knife at right angle to joint surface when setting tape and pressing excess cement out from under tape.
3. In finishing or to make a smooth surface, use knife at about a 45° angle to joint surface pressing down on blade. The hollow grind in knife under pressure permits about an inch of blade to drag on joint surface and leaves cement smooth.

Perf-A-Tape Application on Recessed Edge

1. With Sheetrock knife butter cement into channel of recess. Be sure channel is completely and evenly filled.
2. Place Perf-A-Tape in recess centering middle row of holes exactly over joint. Force Perf-A-Tape down into recess and remove excess cement by pressure on the knife. Run knife over channel leaving film of cement over the tape filling the channel flush with surface of board.
3. Cut tape to fit entire length of joint, but work only a few feet of tape at a time to avoid slippage and wrinkling of tape.
4. Let this application dry thoroughly, after which high spots should be removed with medium sand paper.
5. Apply finishing coat of cement to fill in low spots and take up slight first coat shrinkage.
6. Remove droppings from surface of board before they dry — this eliminates unnecessary sanding.
7. Smooth finished joints and nail heads with No. 2 Sandpaper.

Perf-A-Tape Application on Mill End or Cut Joints

1. Tape must have sufficient cement under it to provide proper bond.

2. Application is same as recessed edge joint except that cement must be feathered out several inches beyond edges of tape.

Application of Corners

1. Fold tape along center row of holes forming a right angle.
2. Apply in same manner as flat joint.
3. Be sure sufficient cement has been applied to thoroughly embed the tape.
4. Apply finish coat on interior corners one side at a time, permitting this side to dry before applying other side.
5. On exterior corner build finishing coat to true angle. When dry sand to remove rough edges.

Sizing on Sheetrock and Perf-A-Tape

1. For Texolite—Use USG K-Cemo Primer.
2. For Wallpaper and Calcimine—Use Varnish size only (This permits the removal of Wallpaper or Calcimine at later date).
3. For Egg Shell Stipple—Use Textone for Stipple (no sizing required).
4. For Prepared or Lead and Oil Paint.
 - A. For best result our recommendation is USG K-Cemo Primer.
 - B. When Pigmented Varnish, Varnish or Prepared Size is used, we recommend it contain a filler or aggregate which will avoid the appearance of slick glossy spot over cemented surfaces.
DO NOT USE GLUE SIZE.

